

Memorandum

To: Water District 13-A File
From: Tim Luke
Date: June 25, 2010
Re: Worm Creek & Cub River Inventory; Water Right Administration Issues & Recommendations

This memo summarizes an inventory of diversions and water rights on Worm Creek, Cub River and Spring Creek (tributary to Worm Creek) within Water District 13-A (WD13-A). The inventory was made in response to IDWR's lack of knowledge about Worm Creek and certain ongoing concerns raised by several holders of water rights on Spring Creek. Department correspondence relative to those ongoing concerns is documented in the 2008, 2009, and 2010 WD13-A files. The WD13-A watermaster has not been involved in administration of the Worm Creek drainage since it was first added to WD13-A by an Order of the Department dated February 25, 1983. The WD13-A watermaster's jurisdiction has traditionally been limited to the main Cub River and certain tributary sources, including delivery of water to the Cub River-Worm Creek Canal (aka Preston Whitney Upper Fill Ditch). Delivery of water from Worm Creek above the Glendale Reservoir has historically been done by the Preston Whitney Irrigation Company (PWIC) since it owns or has interest in most of the water rights in that reach. The Department is not aware of any watermaster regulation or other organized delivery of water on Worm Creek or tributaries to Worm Creek below Glendale Reservoir, including Spring Creek.

Beginning in 2008, IDWR directed the WD13-A watermaster to begin regulating water rights on Spring Creek. In 2009, IDWR requested that WD13-A begin deputizing the PWIC manager or ditch rider who sets head gates and records diversions above Glendale Reservoir. A similar directive was issued to deputize ditch riders on Maple Creek, a Cub River tributary located south of Cub River near Franklin. In 2008 IDWR also issued an order requiring measuring devices for several larger diversions on Cub River. In May of 2009, IDWR also required installation of a measuring device and head gate on the Hull diversion from Spring Creek. Specific guidance was issued to the WD13-A watermaster concerning delivery of water rights on Spring Creek in 2009 and 2010. Some additional guidance was provided concerning the re-diversion of water from the Cub River Middle Ditch in 2010. Additionally, questions raised by IDWR in review of water rights in 2008 resulted in the filing of one or more water right transfers by PWIC that have subsequently been protested by several Spring Creek water rights holders (see specifically application for transfer for water right no. 13-2). In 2009, IDWR committed to conducting an inventory of water rights and diversions from Worm Creek, Cub River, Spring Creek, Maple Creek and Sugar Creek. An initial inventory was done in May, 2009 and some further visits were conducted in May, 2010. This memo summarizes the inventory of Worm Creek and Spring Creek, and includes diversions from Cub River owned or operated by PWIC and the Cub River Irrigation Company (CRIC).

Attached to the memo are inventory forms and photo graphs of diversions, measuring devices and re-diversions, and water rights lists of Worm Creek and Spring Creek.

Issues Found Pursuant to Inventory and Related Investigation

Water Right Transfer Issues

In addition to the transfer and measurement issues found over the past several years, IDWR identified several additional concerns that will likely require more water right transfers:

a) PWIC General Service Area and Water Rights Place of Use

PWIC representatives have discussed the need to potentially file a water right transfer on all of its water rights to correctly update its service area and irrigated places of use. This need was discussed at the May 3, 2010 pre-hearing conference for the protest of PWIC's transfer application of water right 13-2. IDWR concurs with this suggestion and finds it consistent with prior correspondence issued by IDWR to PWIC over the past two years. IDWR recognizes that the Cub River decree that includes PWIC's Cub River water rights lacks any place of use descriptions. The lack of place of use descriptions for the Cub River rights handicaps both IDWR and WD13-A in the administration of those water rights. PWIC should file transfers on its Cub River and Worm Creek rights (and other water source rights) as soon as possible so that the rights can be clarified and more easily administered by WD 13-A.

Lacking any other information about the place of use for PWIC's Cub River rights, it is clear that PWIC's total irrigated area as described by the Worm Creek decree is limited to a total of 10,449 acres. It is not clear to IDWR if or how any of the Cub River rights might create a larger irrigated service area. IDWR notes however that Idaho Code Section 42-222 provides for the transfer of stored water for irrigation purposes over a larger service area as long as other rights are not injured. The code states in pertinent part:

The transfer of the right to the use of stored water for irrigation purposes shall not constitute an enlargement in use of the original right even though more acres may be irrigated, if no other water rights are injured thereby.

IDWR also notes that there is some place of use overlap among the several different canal companies in the area including PWIC, CRIC, Preston Whitney Reservoir Company and the Preston Riverdal and Mink Creek Company. IDWR should not immediately seek to regulate PWIC's total irrigated area to the 10,449 acres described in the Worm Creek decree until all of PWIC's rights are further clarified by the completion of the water right transfer process. IDWR should notify PWIC to file transfers as soon as possible.

b) PWIC right no. 13-271

This right is from Worm Creek and is PWIC's earliest priority right (5/7/1880) from either Worm Creek or Cub River. The point of diversion (POD) for this right is located immediately below the Glendale Reservoir and appears to be for the Eastside Ditch which is no longer used. As per PWIC President Lyle Porter, the Eastside Ditch was the original POD for PWIC before Glendale Reservoir was built. The ditch served lands below Lamont Reservoir and from the Fairview Lateral. The lands are now served by the Eastside Gravity Lateral Association which re-diverts water from the Lamont-Johnson Ditch above the Lamont Reservoir to a gravity pipeline. The Fairview Lateral is served by the Foster

Reservoir and outlet (recently converted from open ditch to pipeline). The correct PODs for this right appear to be the Glendale Reservoir and Outlet Canal, and the Lamont Johnson Ditch. A water right transfer should be filed to add the Lamont-Johnson Ditch as a POD and correctly show the Glendale Reservoir Outlet Canal as the point of diversion although the location is in the same quarter-quarter section as the old Eastside Ditch.

c) PWIC right no. 13-2103

This right was decreed to PWIC in the Worm Creek Drainage decree but the Department's computer records list the right as being owned by the Preston Whitney Reservoir Co. The right is not listed by PWIC in its own Company bylaws (see Section 3, Water Rights and List of Water Rights). The point of diversion given for this right is the same location for PWIC's right 13-271 (see above). The right authorizes the diversion of 25 cfs from Worm Creek for irrigation with a priority date of 3/14/1924. The right as shown in the Worm Creek decree includes a condition stating that the place of use is the "same as listed under 13-271." Note that PWIC also owns right 13-2104, which authorizes diversion of 25 cfs from the Cub River via the Cub River Worm Creek Canal with a 3/14/1924 priority date. The two rights are the same except for the source of water. The Department's records may need to be corrected to show PWIC as the correct owner of the right as per the Worm Creek Decree. PWIC may wish to consider adding the Lamont-Johnson Ditch as a point of diversion to this water right.

Neither right 13-2103 nor 13-2104 have conditions that limit the rate of diversion under the two rights. Licensing these rights under more modern IDWR policies would likely result in a total combined rate of diversion under the two rights being limited to no more than 25 cfs.

d) Cub River Irrigation Co. Water Rights Place of Use

The place of use given for Cub River Irrigation Co.'s (CRIC) water rights pursuant to descriptions provided by the company in several different water right transfers over the past 15 years does not include any land within Township 16S (T16S) and Range 40E (R40E) yet several of the Spring Creek water right holders and other CRIC shareholders irrigate land in this area. Several company officials have confirmed delivery of water within this area. CRIC should review its place of use boundaries and file any necessary water right transfers to correct or update its service area. IDWR correspondence to CRIC over the past two years advised CRIC to review its service area boundary and make any changes if necessary. Changes appear to be necessary. IDWR will formally notify CRIC to correct its water right place of use boundary through a water rights transfer or other appropriate legal means.

e) Water Rights 13-299 & 13-300 owned by Dennis Webster

IDWR's inventory found that rights 13-299 and 13-300 owned by Dennis Webster are diverted from Worm Creek just below where Mink Creek is injected to Worm Creek. The POD authorized by the rights is the Lamont Johnson Ditch. Several re-diversion head gates are located on the Lamont Johnson Ditch where Webster can take his water but he no longer uses these re-diversions and instead takes the water from a diversion point further upstream on Worm Creek through an open ditch that drops to a gravity pipeline and sprinkler system. The ditch diversion now used by Webster also includes water rights 13-267 in the name of Robert Smith, and 13-305A under the name of Clarence Owen. A water right transfer should

be filed on the two Webster rights to correct the POD. IDWR plans to send Mr. Webster a formal notice regarding this concern.

IDWR also learned that Webster, a PWIC shareholder, may at times divert Mink Creek water that is injected to Worm Creek for the benefit of the Preston Riverdale and Mink Creek Company under water right 13-7747, whose place of use is within PWIC's Worm Creek decree place of use. The place of use for 13-7747 appears to include lands that are served by the North, East and Fairview pipe laterals. Members of the Preston Riverdale and Mink Creek Co are also PWIC shareholders. PWIC's manager Conan Foster explained that Webster diverts Preston Riverdale water in exchange for Webster's PWIC shares at times when Webster's Worm Creek rights are not deliverable. While this may constitute some sort of long standing arrangement between the parties, there is no recognized or formal exchange on record with IDWR. IDWR recommends that an exchange application be filed with IDWR and that the exchange practice be discontinued until the application is approved.

f) PWIC Places of Use above Glendale Reservoir

IDWR has also found that there are a number of PWIC shareholders who re-divert and apply water from the Lamont Johnson Ditch to land located along the ditch between the ditch heading and the Lamont and Johnson Reservoirs. Right number 13-302 (4/1/1896 priority) decreed to Vern Nelson authorizes use of the Lamont Johnson Ditch to irrigate 21 acres south of Glendale Reservoir. Portions of the 21 acres appear to be currently owned by Terry Smith, Mark Owen, Larry Hansen, Murray Nichols and others. PWIC records show that Smith, Owen, Hansen and Nichols are PWIC shareholders receiving water via the Lamont Johnson Ditch above the Lamont and Johnson Reservoirs. Several other shareholders are also identified in PWIC delivery records as receiving water from the Lamont Johnson Ditch above the reservoirs. Users who may be using portions of right 13-302 need to file ownership changes and/or water right transfers to correctly show the current place of use and splits of water right 13-302.

Certain small irrigated tracts along the Lamont Johnson Ditch, some of which are owned by the PWIC shareholders referenced above, appear to be irrigated but have no appurtenant water rights. PWIC has indicated that some of these lands are included in the PWIC service area although not all of these areas were included within the place of use of the PWIC Worm Creek decree water rights. Further contact with the above referenced owners by IDWR and initiation of any water right transfers of 13-302 may clarify the issues further. IDWR may issue Notices of Violation to users who do not comply with filing transfers and/or water right ownership changes.

Again, PWIC must file water right transfer applications for all of its water rights to properly show the irrigated lands within its service area.

Administration of Worm Creek and Tributaries

As noted earlier in this memo and Department correspondence over the past several years, Worm Creek was added to WD13-A in 1983 but there has been no formal administration of Worm Creek water rights by the district since that time. A review of the Worm Creek water rights list attached to this memo shows that the number of privately owned senior priority rights is fairly limited. There are only 14 individual privately owned rights with priorities from 1871 to 1909. Those 14 rights have a total combined diversion rate of only 12.7 cfs. Five of those rights have priorities that are 1880 or senior and total only 2.3 cfs. In contrast, PWIC has an 1880 priority right for irrigation with a diversion rate of up to 50 cfs, although the right does have a volume limit of 2000 AF that may affect the total number of days the right can be diverted. The Preston Whitney Reservoir Company has a 1910 priority right authorizing diversion of 10 cfs for irrigation purposes. It is likely that little water is available on the creek during much of the irrigation season to fill rights junior to PWIC's 1880 right. The several most junior priority rights located towards the end of the creek and west of Franklin are likely filled, if at all, as a result of return flows or waste water from upstream canal companies. IDWR could not locate several Worm Creek water right diversions when making its inventory in 2009. IDWR is not aware of any water delivery complaints or issues from water users on Worm Creek below Glendale Reservoir.

Although the number of individual privately held rights and diversions on Worm Creek is rather limited, the canal company water rights and diversion systems are significant and more complex. IDWR should and will continue steps to extend administration of water rights to Worm Creek and tributaries by Water District 13-A (WD13A). Those steps include:

- a) Continue annual appointment of a watermaster assistant or deputy watermaster for Worm Creek at and above the Glendale Reservoir that may include the PWIC manager or PWIC ditch riders.
- b) Continue requirement of WD13-A to include PWIC measured diversions from and flow of Worm Creek in annual WD13A reports. Reported data should include data that PWIC is already gathering such as daily diversions for the Lamont Johnson Ditch, the Webster Diversion (Diversion 1), Mink Creek injection, Worm Creek flow, the Glendale Reservoir Outlet Canal and spill from the Glendale Reservoir Outlet Canal to Worm Creek. Additional data should include monthly diversion data to users or lateral associations on the Lamont Johnson Ditch, the Glendale Reservoir Outlet Canal, the Foster Reservoir outlet (Fairview Lateral), the outlets of the Lamont and Johnson Reservoirs, discharge from the Lamont Johnson pipeline to the Cub River Middle Ditch/Foster pipeline, and weekly or other regular storage levels recordings for the Glendale, Foster, Lamont and Johnson Reservoirs. IDWR will send correspondence to the watermaster and PWIC concerning annual reporting requirements.
- c) IDWR will send notice to current right holders on Worm Creek and tributaries advising that their rights are included in WD13-A and that they may be subject to assessments from the water district. IDWR will issue an order requiring installation of measuring devices and head gates for Worm Creek and tributary source diversions that currently do not have adequate devices and controlling structures. The order will seek compliance for the 2011 irrigation season and be sent by October 1, 2010.

- d) IDWR will direct the watermaster to begin monitoring diversions from Worm Creek below Glendale Reservoir starting in 2011.
- e) Require WD13-A to develop resolutions at subsequent annual meetings for assessment of water rights on Worm Creek and tributaries.

Measurement of Worm Creek

PWIC measures and records Worm Creek flows just upstream of where Cub River water from the PWIC Upper Fill Ditch is injected to Worm Creek. Measurement at this point is important to know the total flow of Worm Creek, including water from Mink Creek that is measured and injected to Worm Creek about one mile upstream. The Worm Creek measurement is based on use of an installed staff gage on a concrete culvert structure and a rating table that was prepared a number of years ago by representatives from the US Bureau of Reclamation. Although PWIC has referred to the structure as a weir, it is actually a rated structure or section and not a standard measuring device. PWIC could not immediately verify the date of the rating and indicated that there have been no recent updates or calibrations of the rating. IDWR plans to make at least one calibration measurement this summer to check the accuracy of the table and/or any gage shifts. There are likely gage shifts at this rated section due to vegetative growth in the stream channel and along the stream bank. Although a rated section is an acceptable method of measurement, PWIC should make several calibration measurements each year and make any rating table adjustments as necessary. IDWR has recommended standards for rated sections that can be provided to PWIC.

Measurement of Water Injected to Worm Creek from PWIC Upper Fill Ditch from Cub River

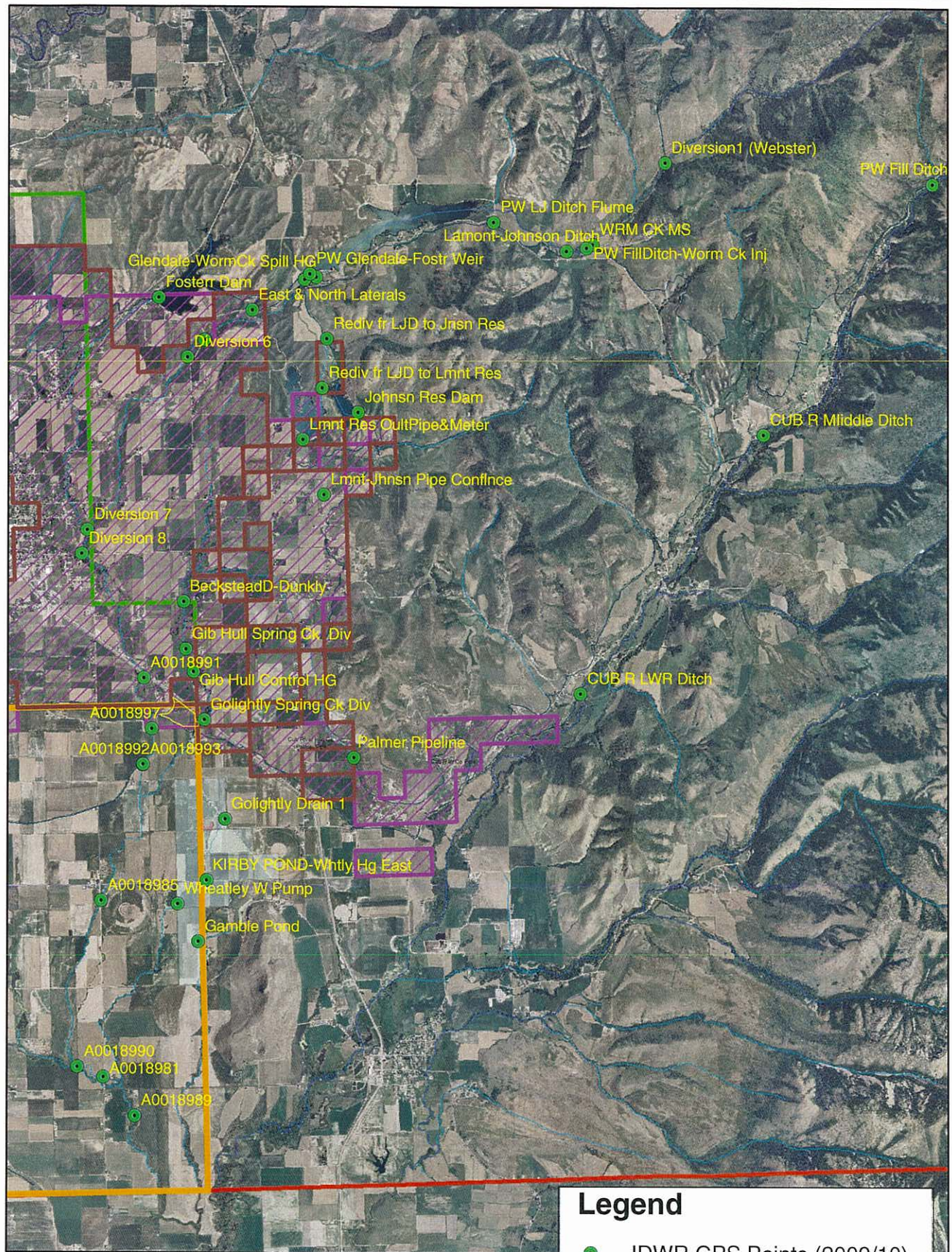
IDWR recommends that PWIC and Preston Whitney Reservoir Co consider installation of a measuring device or rated section for measurement of water on the Fill Ditch before it injects to Worm Creek. IDWR is not certain at this time that the measuring device is critical for water distribution purposes on Worm Creek as long as PWIC can make improvements to the measurement of Worm Creek at the rated section above the Fill Ditch injection. However, IDWR believes that better measurement of the Fill Ditch injection can improve overall measurement and distribution within the PWIC and Preston Whitney Reservoir Co systems particularly since some of the re-diversions on the fill ditch above the injection point to Worm Creek (five in total) are not measured, and because there are likely some ditch losses between the ditch heading and injection point.

Other Water Measurement and Water Right Issues

Other observed water measurement and water right issues include:

- a) Weir for measurement of Birch Spring to PW Fill Ditch has poor approach velocity conditions, lacks a good weir pool above the weir, and includes significant channel growth and rocks in the weir pool area that all contribute to inaccurate measurement at the weir.
- b) No measuring devices were found for Spring Creek diversions except for the Hull diversion and the bypass water below the Golightly headgate. The flume for the Hull diversion was installed in a poor location on the ditch and should be moved. The Hull diversion still requires a head gate to be installed before water can be diverted in 2010.

- c) The PWIC and Preston Whitney Reservoir Co. reservoir outlet pipes and other lateral re-diversion pipelines lack any access for IDWR or others to make measurements of the pipes with portable meters for purposes of calibrating the PWIC installed flow meters.
- d) The ponds located on the Golightly property from Spring Creek are not authorized by any water rights.
- e) The Wheatley irrigation pumps located at Gamble Pond and northwest of Gamble Pond should be properly located as points of diversion and/or points of re-diversion on Wheatley's irrigation rights. These pump locations are not described by any of Wheatley's rights.
- g) Whitney Nashville Water Works Co: IDWR inspected the spring collection facility and measuring device for measurement of the spring diversions by Whitney Nashville Water Works Co. (see inventory form and photos attached). The company has two spring sources but currently is limited to the diversion of just one source due to water quality issues. The installed meter that measures the spring diversion is an acceptable device and tracks both flow and volume. IDWR observed a diversion flow rate of 41 gallons per minute (gpm) at the time of inspection. The company maintains flow meter records which can and should be reported to the WD13-A watermaster annually and made part of the watermaster's annual report. The average rate of diversion from the spring source during September of 2009, a peak use month, was 86 gpm or 0.19 cfs, well within the maximum authorized rate of 1.25 cfs. The combined volume use during August and September (only months provided to IDWR) was 21.2 AF, which is about 21% of the authorized 101 AF annual volume limit. Given the expected lower use in most other months, the company is likely within its annual water right volume limit. Since the spring source is tributary to Spring Creek, the right is subject to priority regulation and can be regulated although curtailment of 40 to 90 gpm potentially may not benefit any senior downstream right holders and therefore could be futile.

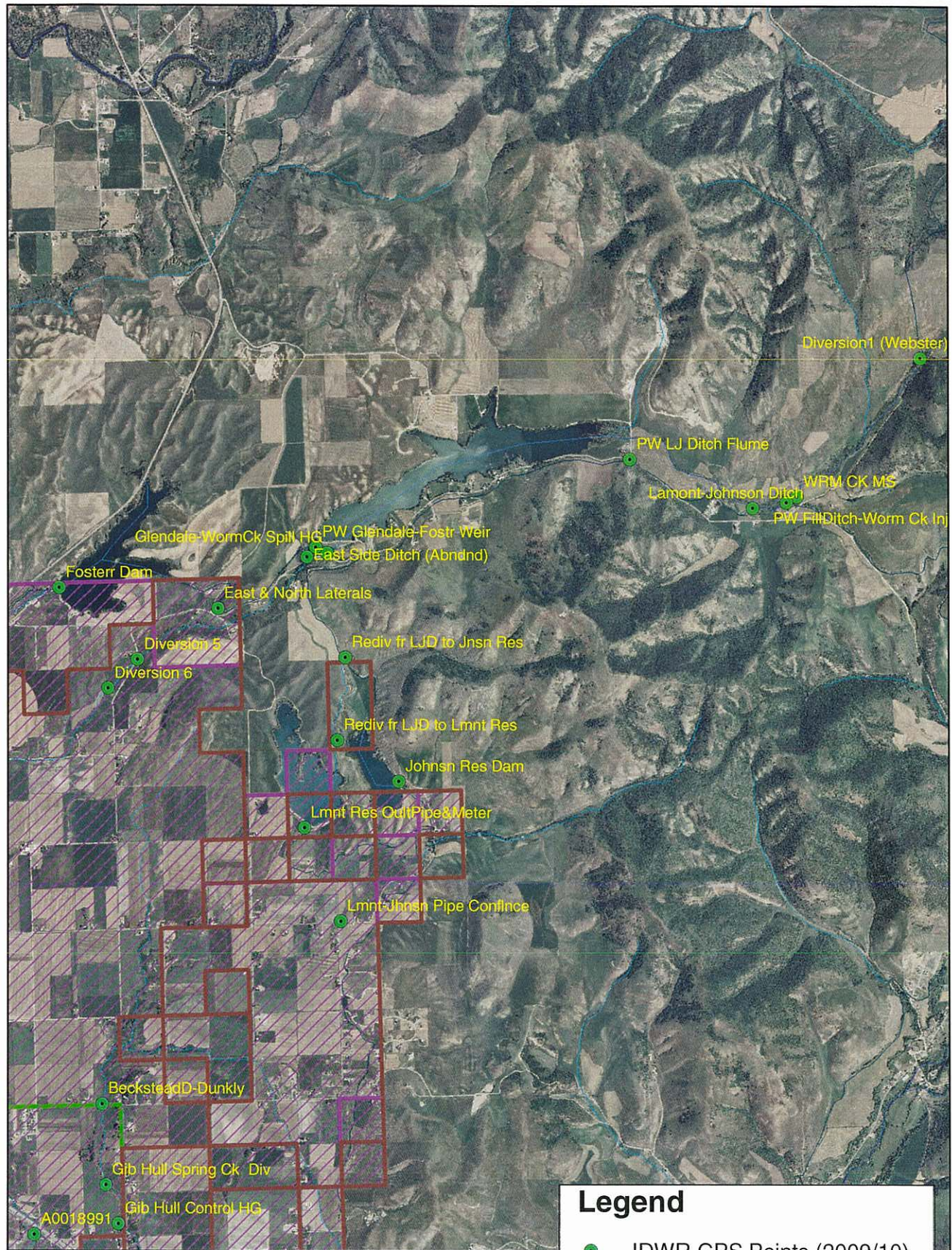


Legend

- IDWR GPS Points (2009/10)
- Preston Whitney Res Co
- Cub River Irr Co
- Preston Whitney Irr Co
- Preston Rivrdale & Mink Ck Co
- Basin Boundary (State Line)



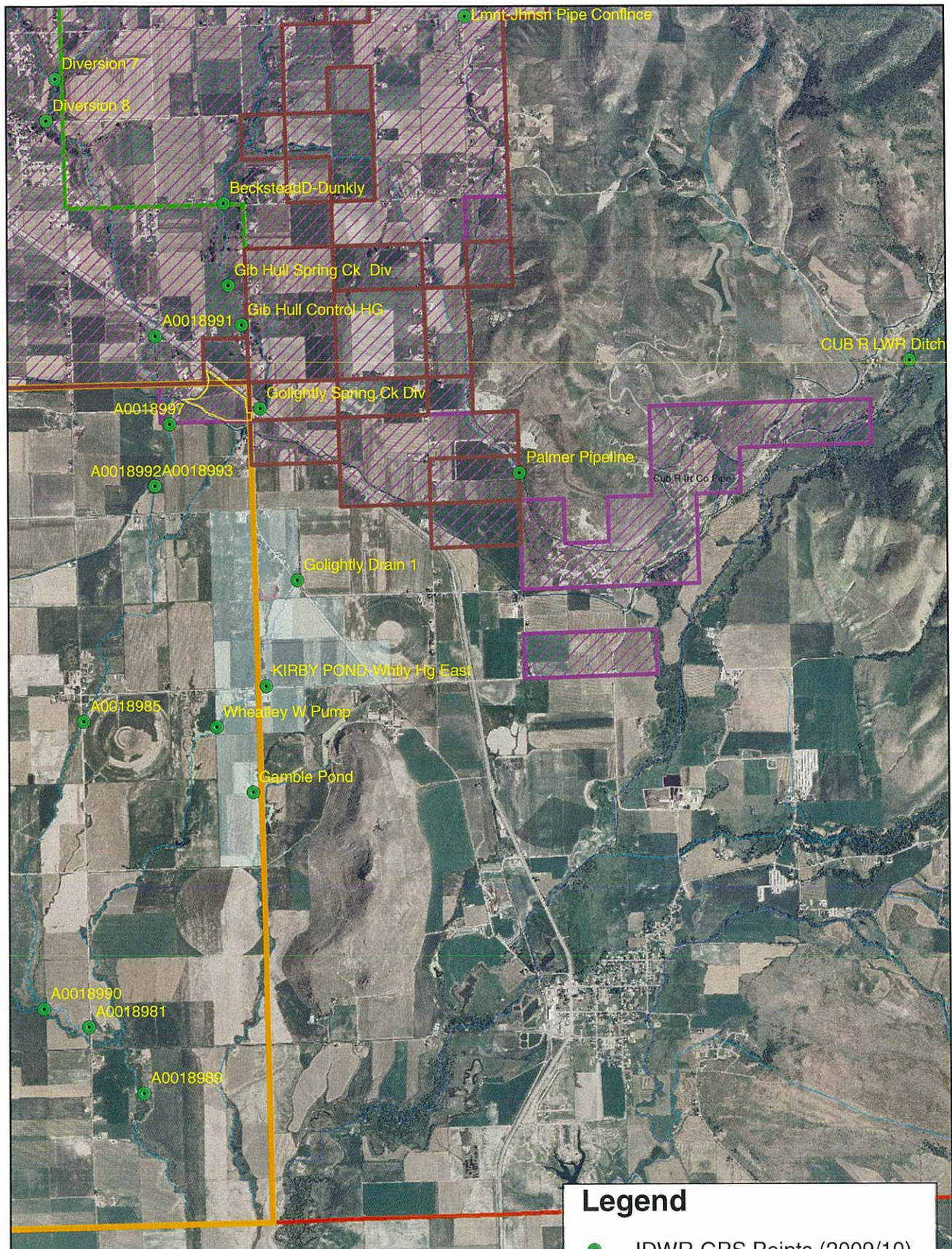
Water District 13- A Area Cub River and Worm Creek



Water District 13- A Area **Cub River and Worm Creek**

Legend

- IDWR GPS Points (2009/10)
- Preston Whitney Res Co
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Water District 13- A Area **Cub River and Worm Creek**

Legend

- IDWR GPS Points (2009/10)
- Preston Whitney Res Co
- Cub River Irr Co
- Preston Whitney Irr Co
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Worm Creek Water Rights
(Source = Worm Creek only)
Sorted by Priority Date

<u>Owner(s)</u>	<u>Water Rt No.</u>	<u>Basis</u>	<u>Diversion Name</u>	<u>Priority Date</u>	<u>Rate (cfs)</u>	<u>Volume (af)</u>	<u>Source</u>	<u>Water Use(s)</u>	<u>Comments</u>
PORTER, LYLE W (Current); PORTER, TEREESA H (Current)	13-253	Decreed	Diversion 6 (A0012037)	1871-04-01	0.4	70	WORM CREEK	IRRIGATION	
PORTER, BLAINE P; PORTER, FERN S (Current)	13-262	Decreed	Diversion 6 (A0012037)	1871-04-01	0.24	42	WORM CREEK	IRRIGATION	
NIELSON, MAURICE (Current)	13-280	Decreed	Diversion Not Found	1871-04-01	0.56	100.7	WORM CREEK	IRRIGATION, STOCKWATER	
CUB RIVER IRRIGATION CO (Current)	13-222	Decreed	A0018992/A0 018993	1872-04-01	15	6398	WORM CREEK	IRRIGATION	A0018997 is point of injection to creek; A0018992 & 18993 are POD & re-diversions. One of decreed POD's is further north; rt has condition that it is junior to upstream Worm Creek rights
WEBSTER, BLAINE M (Current); WEBSTER, DENNIS H (Current)	13-300	Decreed	Diversion 1	1879-06-14	1.5	264.4	WORM CREEK	IRRIGATION, STOCKWATER	Water Rt PD is Lamont-Jhnsh Ditch, need Transfer to change PD
PRESTON WHITNEY IRRIGATION CO (Current)	13-271	Decreed	Glendale Res Outlet Canal	1880-05-07	50	2000	WORM CREEK	IRRIGATION	WR POD is probably former Eastside Ditch near Glendale Res. Transfer may be needed to add Lamont Johnson Ditch
GREGORY, PEARL (Current)	13-203	Decreed	Div Not Found	1880-10-01	0.36	65	WORM CREEK	IRRIGATION, STOCKWATER	
HULSE, ESTHER C (Current); OLIVERSON, JULIA C (Current)	13-279	Decreed	Diversion 5	1881-06-01	0.04	3.5	WORM CREEK	IRRIGATION	
OWEN, CLARENCE L (Current); OWEN, ODESSA G (Current)	13-305A	Decreed	Diversion 1	1893-04-01	1.64	289.6	WORM CREEK	DOMESTIC, IRRIGATION, STOCKWATER	WR has 2nd PD in SENW Sec 2, not found

Worm Creek Water Rights
(Source = Worm Creek only)
Sorted by Priority Date

<u>Owner(s)</u>	<u>Water Rt No.</u>	<u>Basis</u>	<u>Diversion Name</u>	<u>Priority Date</u>	<u>Rate (cfs)</u>	<u>Volume (af)</u>	<u>Source</u>	<u>Water Use(s)</u>	<u>Comments</u>
TANNER BECKSTEAD DITCH CO (Current)	13-207	Decreed	Tanner-Beckstead Ditch/Div 7 A0012034	1894-12-08	1.34	572	WORM CREEK	IRRIGATION	Comb Rts: 13-207, 208, 209, 325
TANNER BECKSTEAD DITCH CO (Current)	13-208	Decreed	Tanner-Beckstead Ditch	1895-03-22	3.25	1103	WORM CREEK	IRRIGATION	Comb Rts: 13-207, 208, 209, 325
TANNER, ELDON S (Current); TANNER, GLEN C (Current); TANNER, WILLIAM K (Current)	13-209	Decreed	Div Not Found	1896-04-01	2	361	WORM CREEK	IRRIGATION	Comb Rts: 13-207, 208, 209, 325; PD may be Tanner Beckstead Ditch?
NELSON, VERDA O (Current); NELSON, VERN (Current)	13-302	Decreed	Lamont-Johnson Ditch	1896-04-01	0.42	74	WORM CREEK	IRRIGATION	Currently owned by Terry Smith
OWEN, MARK W (Current)	13-7657	Statutory Claim	or investigated	1/1/1900	0.02		WORM CREEK	STOCKWATER	Stockwater only.
SMITH, JOYCE (Current); SMITH, ROBERT O (Current)	13-267	Decreed	Diversion 1	6/7/1900	0.3	53	WORM CREEK	IRRIGATION	
WEBSTER, BLAINE M (Current); WEBSTER, DENNIS H (Current)	13-299	Decreed	Diversion 1	7/1/1909	1.36	238	WORM CREEK	IRRIGATION	Water Rt PD is Lamont-Jhnsn Ditch, need Transfer to change PD
PRESTON WHITNEY RESERVOIR CO (Current)	13-2022	Decreed		9/17/1910	10	4265	WORM CREEK	DIVERSION TO STORAGE, IRRIGATION, IRRIGATION STORAGE	
(Current); GILBERT, MELVIN RAY (Current)	13-63	Decreed	A0018990	6/9/1923	1.94	273	WORM CREEK	IRRIGATION	GPS PD is on Fairview Drain
LARSEN, VAUGHN J (Current)	13-64	Decreed	A0018985	6/9/1923	0.97	140	WORM CREEK	IRRIGATION	

Worm Creek Water Rights
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GILBERT, DONA C (Current); GILBERT, MERLIN J (Current)	13-65	Decreed	A0018985	6/9/1923	0.97	140	WORM CREEK	IRRIGATION	
LARSEN, GENEVA B (Current); LARSEN, VAUGHN J (Current)	13-66	Decreed	A0018985	6/9/1923	0.97	130	WORM CREEK	IRRIGATION	
LARSEN, GENEVA B (Current); LARSEN, VAUGHN J (Current)	13-67	Decreed	A0018985	6/9/1923	0.97	140	WORM CREEK	IRRIGATION	
LARSEN, LYNN J (Current)	13-68	Decreed	A0018985	6/9/1923	0.97	105	WORM CREEK	IRRIGATION	
PRESTON WHITNEY RESERVOIR CO (Current)	13-2102	Decreed	Lamont- Johnson Ditch	9/18/1923	10	4265	WORM CREEK	DIVERSION TO STORAGE, IRRIGATION, IRRIGATION STORAGE	Storage Vol = 630 AF; total Vol = 4,265 AF; This rt When combined w/13-2022 shall not exceed 20 cfs & 5,457 AF
PRESTON WHITNEY RESERVOIR CO (Current)	13-2287	Decreed	Lamont- Johnson Ditch	9/18/1923	10	4265	WORM CREEK	DIVERSION TO STORAGE, IRRIGATION, IRRIGATION STORAGE	Same use, rate, POD, POU and conditions as 13-2102
PRESTON WHITNEY RESERVOIR CO (Current)	13-2103	Decreed	Glendale Reservoir or Lamont- Johnson Ditch	3/14/1924	25	10662	WORM CREEK	IRRIGATION	Rt decreed to PWIC in Worm Ck Decree but IDWR computer records list Preston Whitney Res Co. PD at Glendal Dam; POU within Preston Whitney Irr Co, same as rt 13- 271(PWIC); Transfer may be needed to add/change PD

Worm Creek Water Rights
(Source = Worm Creek only)
Sorted by Priority Date

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PRESTON WHITNEY IRRIGATION CO (Current)	13-2108	Decreed	Glendale Reservoir	12/15/1924		6000	WORM CREEK	DIVERSION TO STORAGE, IRRIGATION FROM STORAGE, IRRIGATION STORAGE	Storage for Glendale Res from Worm Ck (215 cfs is div rate to storage fr 11/1 to 6/15); rt allows 6,000 AF irrig storage & irrig fr storage; Note Worm ck decree also lists 13-2288 & combined div rate condition of 215 cfs from Worm Ck & Cub R
PRESTON WHITNEY IRRIGATION CO (Current)	13-2288	Decreed	Glendale Reservoir	12/15/1924		6000	WORM CREEK	DIVERSION TO STORAGE, IRRIGATION FROM STORAGE, IRRIGATION	Same use, rate, POD, POU and conditions as 13-2108
ALDER, KARL G (Current); ALDER, REO G (Current)	13-266	Decreed	Div 7 or 8?	1/1/1940	0.02	0.7	WORM CREEK	STOCKWATER	Stockwater only.
VAN ORDEN, ERVIN (Current); VAN ORDEN, NEAL (Current)	13-2161	Decreed	A0018989	3/7/1952	2.18	532	WORM CREEK	IRRIGATION	
WHEATLEY, BERT (Current); WHEATLEY, ELLEN (Current)	13-224	Decreed	Div Not Found	4/1/1959	0.82	144	WORM CREEK	IRRIGATION	
HALL, BURTIS R (Current)	13-294	Decreed	A0018981	8/30/1960	1	214	WORM CREEK	IRRIGATION	
VAN ORDEN, ERVIN (Current); VAN ORDEN, NEAL (Current)	13-314	Decreed	A0018989	3/9/1965		97	WORM CREEK	IRRIGATION, IRRIGATION	
OLIVERSON, KENNETH W (Current)	13-213	Decreed	A0018991	6/1/1966	0.16	28	WORM CREEK	IRRIGATION	

Water Rights from Spring Creek
Sorted by Priority

6/28/2010
IDWR

<u>Owner(s)</u>	<u>Water Rt No</u>	<u>Basis</u>	<u>Source</u>	<u>Priority Date</u>	<u>Rate (cfs)</u>	<u>Vol (af)</u>	<u>Water Use(s)</u>	<u>Twp</u>	<u>Rnge</u>	<u>Sec</u>	<u>QQQ</u>	<u>Gvt Lot</u>
BAKER, ILA L (Current)	13-247	Decreed	SPRING CREEK	1878/04/01	0.28	52	IRRIGATION, STOCKWATER	15S	40E	30	NWSW	3
BAKER, ILA L (Current)	13-247	Decreed	SPRING CREEK	1878/04/01	0.28	52	IRRIGATION, STOCKWATER	15S	39E	25	NESE	
RALLISON, FREDRICK W (Current)	13-60A	Decreed	SPRING CREEK	1886/05/15	0.02	9	IRRIGATION	16S	40E	6	NWNW	4
SHARP, LYMAN J (Current)	13-60B	Decreed	SPRING CREEK	1886/05/15	0.08	34	IRRIGATION	16S	39E	1	SWSE	
RALLISON, FREDRICK W (Current)	13-61A	Decreed	SPRING CREEK	1888/05/15	0.03	13	IRRIGATION	16S	40E	6	NWNW	4
SHARP, LYMAN J (Current)	13-61B	Decreed	SPRING CREEK	1888/05/15	0.17	73	IRRIGATION	16S	39E	1	SWSE	
HULL, GILBERT (Current); HULL, HAROLD M (Current); HULL, ROBERT M (Current)	13-311	Decreed	SPRING CREEK	1893/02/04	1.34	242.9	IRRIGATION, STOCKWATER	15S	39E	36	SENE	
RALLISON, FREDRICK W (Current)	13-237	Decreed	SPRING CREEK	1900/04/01	0.15	64	IRRIGATION	16S	40E	6	NWNW	4
GOLIGHTLY, DONALD D (Current); GOLIGHTLY, NONA (Current)	13-62	Decreed	SPRING CREEK	1902/05/15	0.2	36	IRRIGATION	16S	40E	6	NWNW	4
CHADWICK, MAY S (Current)	13-258	Decreed	SPRING CREEK	1903/08/31	0.58	102	IRRIGATION	16S	40E	6	NWNW	4
GOLIGHTLY, DONALD D (Current); GOLIGHTLY, NONA (Current)	13-216	Decreed	SPRING CREEK	1903/08/31	1.8	400	IRRIGATION	16S	40E	6	NWNW	4
MOSER, JOSEPH L (Current)	13-144	Decreed	SPRING CREEK	1903/08/31	0.2	85	IRRIGATION	16S	40E	6	NWNW	4
RALLISON, FREDRICK (Current)	13-273	Decreed	SPRING CREEK	1903/09/01	0.24	77	IRRIGATION	16S	40E	6	NWNW	4
SHARP, LYMAN L (Current)	13-274	Decreed	SPRING CREEK	1903/09/01	2.85	756	IRRIGATION	16S	39E	1	SWSE	
SHARP, LYMAN L (Current)	13-274	Decreed	SPRING CREEK	1903/09/01	2.85	756	IRRIGATION	16S	40E	6	NWNW	4
BECKSTEAD, ANNE (Current); BECKSTEAD, LINDEN (Current)	13-239	Decreed	SPRING CREEK	1930/04/01	0.8	140	IRRIGATION	15S	39E	25	SESE	
DUNKLEY, BERNELL (Current); DUNKLEY, LESLIE L (Current)	13-210	Decreed	SPRING CREEK	1930/04/01	1	175	IRRIGATION	15S	39E	25	SESE	

* Water Rights decreed from source Spring Creek in Worm Creek Decree. Note that IDWR database indicates tributary source is Cub River but USGS maps indicate that tributary source is actually Worm Creek.

Preston Whitney Irrigation Co Water Rights

<u>Owner(s)</u>	<u>Source</u>	<u>Water Rt. No.</u>	<u>Basis</u>	<u>Diversion Name</u>	<u>Priority Date</u>	<u>Rate (cfs)</u>	<u>Volume (af)</u>	<u>Season of Use</u>	<u>Water Use(s)</u>	<u>Comments</u>
PRESTON WHITNEY IRRIGATION CO (Current)	WORM CREEK	13-271	Decreed	Glendale Dam & Old Eastside Ditch	1880-05-07	50.0	2000	4/1 to 11/1	IRRIGATION	PD at Glendale Dam & old Eastside HG; This is original PWIC Worm Ck PD; Transfer needed to add Lmnt-Jhnsn Ditch as PD
PRESTON WHITNEY IRRIGATION CO (Present); CUB RIVER & WORM CREEK CANAL CO (Current)	CUB RIVER	13-3	Decreed	PW Fill Ditch	1882-04-01	25.0		4/1 to 10/31	IRRIGATION	
PRESTON WHITNEY IRRIGATION CO (Present); CUB RIVER MIDDLE DITCH CO (Current)	CUB RIVER	13-2	Decreed	Cub River Middle Ditch	1882-04-01	30.0		4/1 to 10/31	IRRIGATION	Transfer filed to add PW Fill Ditch to this rt. PWIC has used Fill Ditch to deliver this rt.
PRESTON WHITNEY IRRIGATION CO (Current)	WORM CREEK	13-2103	Decreed	Glendale Reservoir or Lamont- Johnson Ditch	3/14/1924	25	10,662	4/1 - 11/1	IRRIGATION	Rt decreed to PWIC in Worm Ck Decree but IDWR computer records list Preston Whitney Res Co. PD at Glendal Dam; POU within Preston Whitney Irr Co, same as rt 13- 271(PWIC); Transfer may be needed to add or change PD
PRESTON WHITNEY IRRIGATION CO (Current); CUB RIVER & WORM CREEK CANAL CO (Original)	CUB RIVER	13-2104	License	PW Fill Ditch	3/14/1924	25.0		4/1 to 10/31 (assumed)	IRRIGATION	Season of use & POU not given in license; wr file shows rt for same POU as 13-3

Preston Whintey Irrigation Co Water Rights

<u>Owner(s)</u>	<u>Source</u>	<u>Water Rt. No.</u>	<u>Basis</u>	<u>Diversion Name</u>	<u>Priority Date</u>	<u>Rate (cfs)</u>	<u>Volume (af)</u>	<u>Season of Use</u>	<u>Water Use(s)</u>	<u>Comments</u>
PRESTON WHITNEY IRRIGATION CO (Current); FRANKLIN COUNTY SUGAR CO (Original)	WORM CREEK	13-2108	Decreed	Glendale Dam	12/15/1924	215.0	6000	11/1 - 6/15 (div to storage)	DIVERSION TO STORAGE, IRRIGATION FROM STORAGE, IRRIGATION STORAGE	Storage for Glendale Res from Worm Ck (215 cfs is div rate to storage fr 11/1 to 6/15); rt allows 6,000 AF irrig storage & irrig fr storage; Note Worm ck decree also lists 13-2288 & combined div rate condition of 215 cfs from Worm Ck & Cub R
PRESTON WHITNEY IRRIGATION CO (Current)	WORM CREEK	13-2288	Decreed	Glendale Dam	12/15/1924	215.0	6000	11/1 - 6/15 (div to storage)	DIVERSION TO STORAGE, IRRIGATION FROM STORAGE, IRRIGATION STORAGE	Same as 13-2108
PRESTON WHITNEY IRRIGATION CO (Current)	CUB RIVER	13-2288A	License	PW Fill Ditch	12/15/1924	215.0	6000	11/1 - 6/15 (div to storage)	DIVERSION TO STORAGE, IRRIGATION FROM STORAGE, IRRIGATION STORAGE	Licensed in 1995 w/combined rate of flow condition of 215 cfs with 13-2108, 2288 & 2298
PRESTON WHITNEY IRRIGATION CO (Current)	CUB RIVER	13-2298	License	PW Fill Ditch	2/11/1957	215.0	3355	11/1 - 6/15 (div to storage)	IRRIGATION FROM STORAGE, IRRIGATION STORAGE	Storage for Foster Res; no div rate given in license but 13-2288A license limits combined rate of 215 cfs for rts 13-2108, 2288, 2288A & 2298; Res vol limited to 6000 Af; Point of redirection is Glendale Dam & outlet canal
PRESTON WHITNEY IRRIGATION CO (Current)	CUB RIVER	13-2291	License	PW Fill Ditch	6/30/1947		2407.5		IRRIGATION FROM STORAGE, IRRIGATION STORAGE	Storage for Lamont Res.; Source licensed as Cub R but PD is Lamont Dam location; no season of use, rate or POU given in license; Point of re-diversion is Lamont Johnson Ditch

Preston Whintey Irrigation Co Water Rights

<u>Owner(s)</u>	<u>Source</u>	<u>Water Rt. No.</u>	<u>Basis</u>	<u>Diversion Name</u>	<u>Priority Date</u>	<u>Rate (cfs)</u>	<u>Volume (af)</u>	<u>Season of Use</u>	<u>Water Use(s)</u>	<u>Comments</u>
PRESTON WHITNEY IRRIGATION CO (Current)	SPRINGS	13-143	Decreed		4/1/1929	5.0	2133		IRRIGATION	PD just below Glendale Dam & old Eastside HG. Formerly captured by Eastside Ditch but no longer used. Spring Q has diminished and now just flows to Worm Ck
PRESTON WHITNEY IRRIGATION CO (Present); CUB RIVER & WORM CREEK CANAL CO (Current)		13-36	Decreed		1882-01-01	3.0			DOMESTIC, STOCKWATER	Priority & Source not given in decree
PRESTON WHITNEY IRRIGATION CO (Present); CUB RIVER MIDDLE DITCH CO (Current)		13-37	Decreed		1882-01-01	2.0			DOMESTIC, STOCKWATER	Priority & Source not given in decree

Preston Whitney Reservoir Co. Water Rights

<u>Owner(s)</u>	<u>Source</u>	<u>Water Rt. No.</u>	<u>Basis</u>	<u>Diversion Name</u>	<u>Priority Date</u>	<u>Rate (cfs)</u>	<u>Vol (af)</u>	<u>Season of Use</u>	<u>Water Use(s)</u>	<u>Comments</u>
PRESTON WHITNEY RESERVOIR CO (Current)	WORM CREEK	13-2022	Decreed	Lamont- Johnson Ditch	9/17/1910	10	4,265	11/1 - 6/15 (div to storage) 4/1 - 11/1 (Irrigation) 1/1 - 12/31 (Irr Storage)	DIVERSION TO STORAGE, IRRIGATION, IRRIGATION STORAGE	Storage Vol = 630 AF; total Vol = 4,265 AF; This rt When combined w/13-2102 & 2287 shall not exceed 20 cfs & 5,457 AF
PRESTON WHITNEY RESERVOIR CO (Current)	WORM CREEK	13-2102	Decreed	Lamont- Johnson Ditch	9/18/1923	10	4,265	11/1 - 6/15 (div to storage) 4/1 - 11/1 (Irrigation) 1/1 - 12/31 (Irr Storage)	DIVERSION TO STORAGE, IRRIGATION, IRRIGATION STORAGE	Storage Vol = 630 AF; total Vol = 4,265 AF; This rt When combined w/13-2022 shall not exceed 20 cfs & 5,457 AF
PRESTON WHITNEY RESERVOIR CO (Current)	WORM CREEK	13-2287	Decreed	Lamont- Johnson Ditch	9/18/1923	10	4,265	11/1 - 6/15 (div to storage) 4/1 - 11/1 (Irrigation) 1/1 - 12/31 (Irr Storage)	DIVERSION TO STORAGE, IRRIGATION, IRRIGATION STORAGE	Storage Vol = 630 AF; total Vol = 4,265 AF; This rt When combined w/13-2022 shall not exceed 20 cfs & 5,457 AF
PRESTON WHITNEY RESERVOIR CO (Current)	WORM CREEK	13-2103	Decreed	Glendale Reservoir or Lamont- Johnson Ditch	3/14/1924	25	10,662	4/1 - 11/1	IRRIGATION	WR PD at Glendal Dam; POU within Preston Whitney Irr Co, same as rt 13-271(PWIC); Transfer may be needed to add or change PD

Preston Whitney Reservoir Co. Water Rights

<u>Owner(s)</u>	<u>Source</u>	<u>Water Rt. No.</u>	<u>Basis</u>	<u>Diversion Name</u>	<u>Priority Date</u>	<u>Rate (cfs)</u>	<u>Vol (af)</u>	<u>Season of Use</u>	<u>Water Use(s)</u>	<u>Comments</u>
PRESTON WHITNEY RESERVOIR CO (Current)	CUB RIVER	13-2302	License	Johnson Reservoir	1/9/1962	6.8	3,012	11/1 - 6/15 (div to storage) 4/1 - 11/1 (Irrigation) 1/1 - 12/31 (Irr Storage)	IRRIGATION, IRRIGATION FROM STORAGE, IRRIGATION STORAGE	POD on rt is Johnson Res but source is Cub R, licesne file describes POD as PW Fill Ditch and re-div as Lamont Johnson Ditch & Johnson Res as storage point and point for diversion from storage; Irr vol on rt is 2,282 AF, stored vol limited to 730 AF but storage vol already filled by senior rts; total vol limit appears to be 2,282 AF

**Worm Creek Diversions
IDWR 2009/2010 Inventory**

Div Name &/or Site Tag	Headgate	Lockable Headgate	Meas Device	Water Rights	Owner if known
Diversion 1 (Webster/Owen) No Tag	NO	NO	NO	13-267 13-305A	Webster, Owen & Smith
Lamont Johnson Ditch A0012038 (DIV 2)	YES	NO	NO	13-302 13-2022 13-2287 13-2102 13-300 13-299	Preston Whitney Irrigation Co & PW Res Company
A0012039 Glendale Dam & Outlet Canal (DIV 3)	YES	YES	YES	13-2103 13-2108 13-2288	Preston Whitney Irrigation Company & PW Res Co
A0012032 Eastside Ditch (abandoned) (DIV 4)	YES	YES	NO	13-271	Preston Whitney Irrigation Co.
DIV 5 (No Tag)	NO	NO	NO	13-279	Hulse and Oliverson
A0012037 (DIV 6)	YES	YES	NO	13-253 13-262	Porter
A0012034 Tanner Beckstead Ditch (DIV 7)	YES	YES	NO	13-207 13-208	Tanner Beckstead Ditch Co.
A0012098 (DIV 8)	YES	YES	NO	13-266	Alder
A0018991	NO	NO	NO	13-213	Oliverson
A0018977	NO	NO	NO	13-222	Cub River Irrigation Co Diversion into Worm Creek
A0018992	YES	YES	NO	13-222	Cub River Irrigation Co Diversion into Worm Creek
A0018993	YES	YES	NO	UN- KNOWN	UNKNOWN. This could be canal water because it is on the up stream side of the Cub River Irrigation Company diversion

**Worm Creek Diversions
IDWR 2009/2010 Inventory**

Div Name &/or Site Tag	Headgate	Lockable Headgate	Meas Device	Water Rights	Owner if known
A0018985	YES	YES	NO	13-64 13-65 13-66 13-67 13-68	Lynn and Vaughn Larsen and Merlin Gilbert
A0018990	YES	YES	NO	13-63 13-263	Melvin Gilbert
A0018981	YES	YES	NO	13-294	Burtis Hall
A0018989	YES	YES	NO	13-314 13-2161	Van Orden

Inventory Forms and Photos for
Cub River & Worm Creek above Glendale Reservoir
(Including Glendale Reservoir Outlet Canal, Foster
Reservoir, Lamont-Johnson Ditch System
And Lamont & Johnson Reservoirs)

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Cub River</u>		tributary to: <u>Bear River</u>
Diversion Name: <u>Cub River Irrigation Co Lower Ditch</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>40E</u>
	SEC: <u>34</u>	QQ: <u>SESWSE</u>
USGS Map:	Name: _____	No. _____
Water Right No's.: <u>13-26B (this rt also diverted at Cub River Middle Ditch)</u>		
<u>PD just inside SESWSE Sec 34; wr PD = NENWNE 3 16S40E</u>		
See Attached <input type="checkbox"/>		
Access: <u>Service road off of Cub River Rd about 400 ft. north east of Giraffe Rd.</u>		

Diversion Information

GPS Site Tag No.: <u>A0001975</u>	GPS File Name: <u>Cub R Lwr Ditch</u>
GPS Tag Location: <u>nailed to utility pole next to Parshall flume & control shed</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Diversion dam across river consists of two large adjustable corrugated metal radial gates (in steel frames) set in concrete structure. Dam checks water to 3 canal head gates in concrete canal box heading on left bank of river looking upstream. Fish screen installed in front of cnal Hgs. Fish ladder installed opposite side of diversion dam on right bank of river looking upstream.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>Three control HGs are steel rectangular gates, 2 gates have manual turn screws for control, one is motorized automated control. Gates are set in</u>	
Existing Measuring Device: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: <u>Parshall Flume</u>	Size: <u>10 ft</u>
Desc. Of Measuring Device: <u>Concrete parshall flume in canal about 50 to 60 ft below canal head gates. Flume in very good condition, some turbulence in approach from gates but flow through flume & measurement looks good</u>	

Measurement

Staff Gauge Reading: <u>PSI sensor to digital display in shed</u>	
Weir/Flume Reading: _____	Table Used: _____
Q = <u>34.2 cfs</u>	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: _____

_____ Tim Luke Examiner	_____ 5/26/2010 Date	_____ 6:00 p.m. Time
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Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Cub River</u>		tributary to: <u>Bear River</u>
Diversion Name: <u>Cub River Middle Ditch</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>40E</u>
	SEC: <u>24</u>	QQ: <u>NWNWSE</u>
USGS Map:	Name: _____	No. _____
Water Right No's.: <u>13-26B (Cub River Irr Co); 13-2 (Preston Whitney Irr Co)</u>		
<u>Prvt rts 13-15 & 16(Bowman), 13-29(Burbank, Giffeth, Spattig)</u>		
See Attached <input type="checkbox"/>		
Access: <u>Service road off Cub River Rd about 0.45 mi north east of</u>		
<u>E. Glendale Rd.</u>		

Diversion Information

GPS Site Tag No.: <u>A0001976</u>	GPS File Name: <u>Cub R Middle Ditch</u>
GPS Tag Location: <u>Epoxied to steel headgate frame (left gate looking upstream)</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Concrete ledge dam in river checks water for canal</u>	
<u>head gates on left bank of river looking upstream. Canal diversion has</u>	
<u>concrete wing wall connected to dam along bank, head gates in wall to</u>	
<u>flume structure about 10 - 15 ft upstream of dam. Flume discharges to</u>	
<u>36 inch buried culvert that connects to open channel on other side of Cub</u>	
<u>River Rd (approx 1.450 ft away). Fish screen installed in flume in 2010.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>Two steel rectangular gates in steel frame set in head of</u>	
<u>concrete flume. One gate has turn screw control, the other has</u>	
<u>motorized automated control.</u>	
Existing Measuring Device: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: <u>Accoustic Doppler flow meter</u>	Size: <u>36 inch</u>
Desc. Of Measuring Device: <u>Greyline acoustic doppler sensor installed in buried</u>	
<u>culvert has output signal to data display and data logger in shed next to</u>	
<u>diversion. DWR 2009 measurements show meter inaccurate at high flows</u>	

Measurement

Staff Guage Reading: _____	Table Used: _____
Weir/Flume Reading: _____	
Q = <u>15.0 cfs</u>	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: IDWR sent letter to Cub River Irr Co 5/12/2010 regarding
flow meter accuracy issues. CRIC contacted vendor who indicated problem can be
corrected.

Tim Luke
Examiner

5/26/2010
Date

9:00 a.m
Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Cub R Middle Ditch</u>		tributary to: _____
Diversion Name: <u>Palmer Pipeline from Middle Ditch near Lamont-Johnson Pipe</u>		
Point of Diversion:	TWNP: <u>16S</u>	RNG: <u>40E</u>
	SEC: <u>5</u>	QQ: <u>NWSWSE</u>
USGS Map:	Name: _____	No. _____
Water Right No's.: <u>N/A; Tthis is re-diversion of Cub River Irr Co & PW Irr Co rts on Cub River Middle Ditch</u>		
See Attached <input type="checkbox"/>		
Access: _____		

Diversion Information

GPS Site Tag No.: <u>none</u>	GPS File Name: <u>Palmr Pipe</u>
GPS Tag Location: _____	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
 Description of Diversion: <u>Palmer pipe is one of two pipeline re-diversions off Cub River Middle ditch but located at end of ditch & about 50' downstream of where Lamont-Johnson lateral pipe can discharge to Middle Ditch. Palmer re-diverts Cub R Irr Co water but served onr PWIC user who is limited to 0.5 cfs. Valve and meter on Lamont-Johnson pipe controls & measures flow to Middle Ditch Palmer intake has turn screw HG control</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: _____	

Existing Measuring Device: <input type="checkbox"/> Yes <input type="checkbox"/> No	Size: _____
Measuring Device Type: _____	
Desc. Of Measuring Device: <u>McCrometer meter on discharge from Lamont-Johnson Ditch to Middle Ditch. Did not observe measuring device or meter on Palmer Pipeline</u>	

Measurement

Staff Guage Reading: _____	
Weir/Flume Reading: _____	Table Used: _____
Q = <u>0.5 cfs from Lamont-Johnson Ditch</u>	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: _____

_____ Tim Luke Examiner	_____ 5/25/2010 Date	_____ Time
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Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: Cub River		tributary to: Bear river
Diversion Name: PWIC Cub River-Worm Creek Canal (aka Upper Fill Ditch)		
Point of Diversion:	TWNP: 15S	RNG: 41E
	SEC: 8	QQ: NENW
USGS Map:	Name:	No.
Water Right No's.: 13-3, 13-2288A*, 13-2291*, 13-2298* (*storage rights) plus prvt rights; PWIC filed transfer to add this PD to 13-2		
See Attached <input type="checkbox"/>		
Access: Cub River Rd to Forest Service boundary, go about 1/2 mile past USFS boundary to Albert Moser CG on right.		

Diversion Information

GPS Site Tag No.: A0001970	GPS File Name: PW Fill Ditch
GPS Tag Location: Nailed to head gate timber	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name:
Description of Diversion: Rock ledge dam in river and rectangular concrete structure on left bank of river (looking upstream) with head gate control. Fish screens have been installed below head gates in expanded rectangular concrete bay.	
<input checked="" type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: Two screw controls on gate stems with large wooden rectangular gate leafs control flow of water.	
Existing Measuring Device: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: Parshall flume	Size: 10 ft.
Desc. Of Measuring Device: Concrete flume located about 1000 ft. below div structure. Includes concretet stilling well with staff gage. Flume in good condition. Flume is located about 200' below return flow structure	

Measurement

Staff Guage Reading: 0.67 ft	Table Used: US BOR Manual
Weir/Flume Reading:	
Q = 21 cfs	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: Additional private rights diverted: 13-17, 18, 19 & 20
Note that Birch Spring discharges to canal above parshall flume; spring measured separately w/weir. See photos of spring & weir, & canal diversion & flume.

Tim Luke
Examiner

5/26/2010
Date

10 a.m.
Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Worm Creek</u>		tributary to: <u>Cub River</u>
Diversion Name: <u>Diversion 1</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>40E</u>
	SEC: <u>2</u>	QQ: <u>NESWSE</u>
USGS Map:	Name: <u>Mink Creek</u>	No. <u>DD45</u>
Water Right No's.: <u>13-267; 13-305A (Smith & Owen); Ditch is also PD for</u>		
<u>13-299 & 300(Webster) - needs transfer fr Lamont-Johnsn Div</u>		
See Attached <input type="checkbox"/>		
Access: <u>Crossed creek from FS road at location of Mink Creek pipe</u>		
<u>line confluence with Worm Creek, diversion is just downstream.</u>		

Diversion Information

GPS Site Tag No.: <u>None</u>	GPS File Name: <u>None</u>
GPS Tag Location: <u>None</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>There were no permanent structures or devices</u>	
<u>at this diversion, diversion was accomplished with an in-stream</u>	
<u>rock (river cobble) diversion dam and blue plastic material. As such,</u>	
<u>no metal GPS tag was installed.</u>	
<u>GPS Coordinates: N 2686253 ; E 1218262 (meters)</u>	

<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Lockable HG? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Desc. Of Headgate: <u>N/A</u>	

Existing Measuring Device: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: <u>N/A</u>	Size: <u>N/A</u>
Desc. Of Measuring Device: <u>N/A</u>	

Measurement

Staff Guage Reading: <u>N/A</u>	
Weir/Flume Reading: <u>N/A</u>	Table Used: <u>N/A</u>
Q = <u>< 0.50 cfs (visual estimation)</u>	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: Water diverted into earth ditch that followed the diversion
point contour and travelled to the west, the diversion ditch delivers water to points
un-observed miles downstream, refer to pictures. Referred to as Mount Pizco Ditch.

Mat Weaver
Examiner

5/7/2009
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Worm Creek</u>		tributary to: <u>Cub River</u>
Diversion Name: <u>Worm Creek measurement station (Preston Whitney Irr Co)</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>40E</u>
	SEC: <u>11</u>	QQ: <u>NWSW</u>
USGS Map:	Name: _____	No. _____
Water Right No's.: <u>N/A</u>		
See Attached <input type="checkbox"/>		
Access: <u>Left on dirt farm road off Worm Creek Rd about 0.14 mi north-east of Glendale Rd.</u>		

Diversion Information

GPS Site Tag No.: <u>N/A</u>	GPS File Name: <u>Wrm Ck MS</u>
GPS Tag Location: _____	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>No diversion here, this is merely a concrete structure for CMP under a farm road where a stage-discharge rating has been established. Section is on Worm Creek just upstream from where water from Cub River-Worm Creek Canal is injected to Worm Creek. Preston Whitney Irr Co uses rated section to estimate flow in Worm CK above injection point.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>N/A</u>	

Existing Measuring Device: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: <u>Rated Section</u>	Size: _____
Desc. Of Measuring Device: <u>Rectangular concrete structure with two approach wing walls & large diameter (approx 4 ft) corrugated metal pipe (CMP) on discharge end of box. Staff gage installed on left wing wall looking upstream</u>	

Measurement

Staff Gauge Reading: <u>1.16 ft</u>	
Weir/Flume Reading: _____	Table Used: _____
Q = <u>18.9*cfs</u>	
* from flow chart per Conan Foster, PWIC manager	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: Lyle Porter of Preston Whitney stated that US Bureau of Reclamation had established a rating curve or table for section a number of years ago. Ditch rider has rating. Lyle said shifts are possible given vegetative growth near section.

Tim Luke
Examiner

5/26/2010
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Worm Creek</u>		tributary to: <u>Cub River</u>
Diversion Name: <u>Lamont-Johnson Ditch (Preston Whitney IC & PW Reservoir Co.)</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>40E</u>
	SEC: <u>10</u>	QQ: <u>NWSE</u>
USGS Map:	Name: <u>Riverdale</u>	No. <u>DD44</u>
Water Right No's.: <u>13-2022, 2102, 2103, 2287 & 2302* (Preston Whitney Res Co)</u> <u>13-299, 300, 302 (Prvt rights); *Re-div for 13-2302</u>		
See Attached <input type="checkbox"/>		
Access: <u>Gravel drive off of Glendale Road to diversion dam located</u> <u>on east property line of the Webster Farm, about 0.13 mi west of</u> <u>Glendale & Worm Ck Roads intersection</u>		

Diversion Information

GPS Site Tag No.: <u>A0012038</u>	GPS File Name: <u>A0012038</u>
GPS Tag Location: <u>Concrete wing wall (upstream south wall)</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Concrete dam in Worm Creek checks flow into</u> <u>concrete flume locate on south side of channel. Flume has concrete</u> <u>wing wall, sidewall, and floor.</u> <u>Ditch is point of re-diversion for Preston-Whitney Irr Co 13-2291 from Cub</u> <u>River-Worm Ck Canal</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Desc. Of Headgate: <u>Wooden planks can be raised or lowered with a levered</u> <u>system, not lockable as currently configure but could be easily modified</u> <u>to accommodate a locking device.</u>	
Existing Measuring Device: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: <u>Parshall Flume</u>	Size: <u>4 ft.</u>
Desc. Of Measuring Device: <u>Device about 0.8 mi downstream of heading along</u> <u>Glendale Rd across from Webster Ranch house. Flume is concrete, in</u> <u>good condition. No staff gage or stilling well, must meas w/hand gage</u>	

Measurement

Staff Guage Reading: <u>Gage not installed</u>	
Weir/Flume Reading: <u>0.70 ft</u>	Table Used: <u>US BOR manual</u>
Q = <u>9.11 cfs</u>	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: Parshall flume inspected/read by T Luke, IDWR on 5/26/10
Flume in good condition. Headgates between flume & ditch head (Webster 13-299/300)
not used. *Rt 13-2302 div fr Cub R-Worm Ck Canal; Ditch is re-div of PWIC Cub R rts

Mat Weaver/Tim Luke
Examiner

5/7/2009 & 5/26/10
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: Worm Ck/CubR		tributary to: _____
Diversion Name: Re-diversion to Johnson Res from Lamont-Johnson Ditch		
Point of Diversion:	TWNP: 15S	RNG: 40E
	SEC: 17	QQ: SENW
USGS Map:	Name: _____	No. _____
Water Right No's.: Rediversion of Preston Whitney Res Co rights 13-2022, 13-2102, 2103, 2287 (Worm Ck) & 13-2302 (Cub R)		
See Attached <input checked="" type="checkbox"/>		
Access: Service road from N 2200 about 1/2 mi north of Oneida St, to Lamont Reservoir, follow road to east side of reservoir, road proceeds along Lamont-Johnson Ditch		

Diversion Information

GPS Site Tag No.: NA	GPS File Name: LJ rediv to Jhnsn Res
GPS Tag Location: _____	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: Concrete check structure in main Lamont-Johnson Ditch with adjoining concrete box that provides outlet flow to Johnson Res. Head gate control on outlet box is wooden stop logs. Main canal structure has stop log grooves for placement of stop logs to check water to outlet box/gate.	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Desc. Of Headgate: See above description and photos. Gate could be modified to accommodate lock if necessary.	
Existing Measuring Device: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Measuring Device Type: _____	Size: _____
Desc. Of Measuring Device: No device visible for flow to reservoir. Outlet box could potentially be fitted with a weir to measure flow to reservoir. Also no meas device to HG/pipe diversion blw structure (see notes below)	

Measurement

Staff Gauge Reading: _____	
Weir/Flume Reading: _____	Table Used: _____
Q = _____	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: < 100' below structure off Lamont-Johnson ditch is a steel frame turn screw HG in culvert to gravity sprinkler pipe & 20-22 acres abv Johnson Res

Tim Luke
Examiner

5/26/2010
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Cub River</u>		tributary to: _____
Diversion Name: <u>Re-diversion to Lamont Res & Eastside/Egypt Lateral Assocs</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>40E</u>
	SEC: <u>17</u>	QQ: <u>SESW</u>
USGS Map:	Name: _____	No. _____
Water Right No's.: <u>Re-diversion of 13-2291 (storage), other PWIC rights?</u>		
See Attached <input type="checkbox"/>		
Access: <u>Service road from N 2200 about 1/2 mi north of Oneida St,</u> <u>to Lamont Reservoir, follow road to east side of reservoir, road proceeds</u> <u>along Lamont-Johnson Ditch</u>		

Diversion Information

GPS Site Tag No.: <u>NA</u>	GPS File Name: <u>LJ rediv to Lmnt Res</u>
GPS Tag Location: _____	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Concrete structure in Lamont-Johnson Ditch checks w</u> <u>water to Waterman screw gate & bubbler on left side of structure (looking</u> <u>downstream) for Egypt Lateral Association 18" pipeline. On right side of</u> <u>structure, water drops into HG & bubbler for second 18" pipe to Eastside</u> <u>Gravity Lateral Association. Both bubblers have return pipes to main</u> <u>ditch which runs from concrete check structure downhill to Lamont Res.</u>	
<input checked="" type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>See description above</u>	

Existing Measuring Device: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: <u>McCrometer Propeller meter</u>	Size: _____
Desc. Of Measuring Device: <u>McCrometer in-line propeller meter installed on</u> <u>each pipeline. Did not inspect or take photos of meters. Pipelines not</u> <u>exposed to allow calibration of meters</u>	

Measurement

Staff Gauge Reading: _____	
Weir/Flume Reading: _____	Table Used: _____
Q = _____	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: No measuring device or measurement of flow past concrete
diversion structure to Lamont Reservoir.

Tim Luke
Examiner

5/26/2010
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Cub River</u>		tributary to: <u>Bear River</u>
Diversion Name: <u>Lamont Reservoir & Outlet</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>40E</u>
	SEC: <u>20</u>	QQ: <u>SWNW</u>
USGS Map:	Name: _____	No. _____
Water Right No's.: <u>Off stream storage/rediversion of 13-2291 (PWIC)</u>		
See Attached <input type="checkbox"/>		
Access: <u>Service road off N 2200 about 1/2 mile north of Oneida St</u>		

Diversion Information

GPS Site Tag No.: <u>A0001973</u>	GPS File Name: <u>Lamont Res</u>
GPS Tag Location: <u>Epoxyed to inspection port cover located at toe of dam</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Off stream earthen dam with about 2,408 AF capacity. Outlet gate control on dam controls discharge to pipeline that replaces former open channel lateral.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>Control gate on top of dam.</u>	
Existing Measuring Device: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: <u>Propeller Meter</u>	Size: <u>30 inches</u>
Desc. Of Measuring Device: <u>McCrometer in-line flow propeller meter in 30 inch nominal PVC outlet pipe. Meter indicator/totalizer housed in riser pipe on top of reservoir outlet pipeline. Volume units = AF x 0.01</u>	

Measurement

Staff Gauge Reading: <u>NA</u>	Table Used: _____
Weir/Flume Reading: _____	
Q = <u>8 cfs as per meter indicator</u>	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: Outlet discharge pipe connects to outlet pipe from Johnson Res near Oneida St & N 2200, forming Lamont-Johnson Pipeline.

Tim Luke
Examiner

5/26/2010
Date

2:20 p.m.
Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Worm Creek</u>		tributary to: <u>Cub River</u>
Diversion Name: <u>Johnson Reservoir & Outlet (Preston Whitney Reservoir Co.</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>40E</u>
	SEC: <u>20</u>	QQ: <u>NWNE</u>
USGS Map:	Name: _____	No. _____
Water Right No's.: <u>Off stream storage/rediversion of 13-2022, 2102, 2287 from</u> <u>Worm Ck, 13-2302 from Cub R via PW Worm Ck-Cub R Canal</u>		
<u>See Attached <input type="checkbox"/></u>		
Access: <u>N 2800 from Oneida St to Reservoir, service road off N 2800</u>		

Diversion Information

GPS Site Tag No.: <u>A0001974</u>	GPS File Name: <u>Johnsn Res</u>
GPS Tag Location: <u>Nailed to control gate shed on top of dam</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Off stream earthen dam with about 800 AF</u> <u>capacity. Outlet gate control on dam controls discharge to pipeline that</u> <u>replaces former open channel lateral.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>Control gate on top of dam in locked shed.</u>	
Existing Measuring Device: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: <u>Propeller Meter</u>	Size: <u>21 inches</u>
Desc. Of Measuring Device: <u>McCrometer in-line flow propeller meter in 21 inch</u> <u>nominal PVC outlet pipe. Meter indicator/totalizer housed in riser pipe on</u> <u>top of res. Outle pipeline below toe of dam. Volume units = AF x 0.01</u>	

Measurement

Staff Guage Reading: <u>NA</u>	Table Used: _____
Weir/Flume Reading: _____	
Q = <u>0</u>	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: Outlet discharge pipe connects to outlet pipe from Lamont
Res near Oneida St & N 2200, forming Lamont-Johnson Lateral Pipeline.

Tim Luke
Examiner

5/26/2010
Date

2:45 p.m.
Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Worm Creek</u>		tributary to: <u>Cub River</u>
Diversion Name: <u>Glendale Dam & Outlet works (Preston Whitney Irr. Co.)</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>40E</u>
	SEC: <u>8</u>	QQ: <u>SESW</u>
USGS Map:	Name: <u>Riverdale</u>	No. <u>DD44</u>
Water Right No's.: <u>13-271; 13-2103</u>		
<u>Storage/re-div for 13-2288 (Cub R)</u>		
<u>See Attached</u> <input type="checkbox"/>		
Access: <u>Service Road off of Glendale Road directly below dam.</u>		

Diversion Information

GPS Site Tag No.: <u>A0012039</u>	GPS File Name: <u>A0012039</u>
GPS Tag Location: <u>Worm Ck spill structure in outlet canal below dam, d/s side wall</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Dam on Worm Creek has 6,000 Af storage capacity. A</u> <u>Outlet near east end of dam provides discharge from res to canal that has</u> <u>a structure with two sets of sluice gates, one set controls flow down canal</u> <u>to Foster Res & North/East Laterals, while second set controls flow out of</u> <u>canal to Worm Creek. An emergency pump is located at head of reservoir</u> <u>outlet canal which can pump water to Lamont Reservoir.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>Two rectangular wooden sluice gates (~4' wide each) can</u> <u>be open and closed to allow water to flow perpendicularly out of the canal.</u> <u>Sluice gates had working screws and locks during site visit.</u>	
Existing Measuring Device: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: <u>Parshall Flume</u>	Size: <u>6' throat</u>
Desc. Of Measuring Device: <u>6' Concrete Parshall flume located several hundred</u> <u>feet downstream of control/spillway headgates. Stilling well on south side</u> <u>must be meas with hand gage, well needs cleaning but PF in good shape</u>	

Measurement

Staff Guage Reading: <u>0.75 ft</u>	
Weir/Flume Reading: <u>not measureable</u>	Table Used: <u>US BOR manual</u>
Q = <u>15.17 cfs</u>	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: A second parshall flume (4' throat) is located in Worm Ck below
spillway control gates. PF has staff gage installed in stilling well on east side of flume.
Entire system in good working order.

Mat Weaver & Tim Luke
Examiner

5/7/2009 & 5/26/2010
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: Worm Ck/Cub River		tributary to: _____
Diversion Name: Preston Whitney IC East and North Pipe Laterals		
Point of Diversion:	TWNP: 15s	RNG: 40
	SEC: 18	QQ: NWNE
USGS Map:	Name: _____	No. _____
Water Right No's.: Rediversion of PWIC storage and natural flow rights		
See Attached <input type="checkbox"/>		
Access: Off Glendale Rd & 2200 N, short gravel road uphill to control gates and pipe intakes all housed in chain link fence area. Located on canal from Glendale Res to Foster Res, ~ 1/2-way between reservrs		

Diversion Information

GPS Site Tag No.: A0001971	GPS File Name: East&North Laterals
GPS Tag Location: On concrete platform between two pipe intakes.	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: Concrete check structure in main outlet canal from Glendale Res (feeder canal to Foster Res) controls/checks water to two pipe line laterals. Each pipe intake has a metal frame and leaf screw gate and each intake is equipped with trash drum screens. Pipes replace open laterals in PWIC system.	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: Each pipe intake has a metal rectangular leaf gate controlled by a lockable metal screw gate.	
Existing Measuring Device: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: Propeller Meter (two meters)	Size: _____
Desc. Of Measuring Device: McCrometer propeller flow meter installed in each pipe downstream of intakes near or along Glendale Rd. No access to cal meters. Weir in check below pipe intakes to meas flow to Foster Res.	

Measurement

Staff Guage Reading: * weir to Foster Res = 0.28 ft	
Weir/Flume Reading: _____	Table Used: US BOR manual
Q = 2.65 cfs	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: *One check in concrete structure below pipe intakes had 5 ft rectangular weir to measure flow to Foster Res. PWIC plans to install adjustable weirs and automated controls from Campbell Scientific per Lyle Porter, PWIC manager.

Tim Luke
Examiner

5/26/2010
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Worm Creek</u>		tributary to: <u>Cub River</u>
Diversion Name: <u>Preston Whitney Eastside Ditch (Abandoned)</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>40E</u>
	SEC: <u>2</u>	QQ: <u>SWSW</u>
USGS Map:	Name: <u>Riverdale</u>	No. <u>DD44</u>
Water Right No's.: <u>No corresponding WRs in ArcMap.</u>		
 <div style="text-align: center;">See Attached <input type="checkbox"/></div>		
Access: <u>Service Road off of Glendale Road directly below dam.</u>		

Diversion Information

GPS Site Tag No.: <u>A0012032</u>	GPS File Name: <u>A0012032</u>
GPS Tag Location: <u>Top canal gate cross bar.</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
 Description of Diversion: <u>Where ditch crosses Glendale Road a canal gate is attached to the entrance of ~18-24" cmp pipe. CMP pipe diverts water out of manmade ditch into natural/historic Worm Creek channel. Ditch is no longer in use per Lyle Porter of PWIC, replaced by pipeline lateral located on Glendale Res outlet canal between Glendale & Foster Res.</u>	
 <div style="text-align: center;"><input type="checkbox"/> Diversion Sketch Attached</div>	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>~18-24" canal gate</u>	
Existing Measuring Device: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Measuring Device Type: <u>N/A</u>	Size: <u>N/A</u>
Desc. Of Measuring Device: <u>N/A</u>	

Measurement

Staff Guage Reading: <u>N/A</u>	
Weir/Flume Reading: <u>N/A</u>	Table Used: <u>N/A</u>
Q = <u>< 1.0 cfs (visual estimation)</u>	
 <div style="text-align: center;"><input type="checkbox"/> Flow Measurement Form</div>	

Additional Notes: _____

_____ Mat Weaver Examiner	_____ 5/7/2009 Date	_____ Time
---------------------------------	---------------------------	---------------



Figure 1: Cub River Irrigation Co Lower Canal (Cub River Lower Ditch) – radial control gates across river checks water to canal gates on left bank looking upstream



Figure 2: Head gates to Cub River Lower Ditch (fish screens in front of gates, parshall flume in back ground)



Figure 3: Cub River Lower Ditch 10 ft Parshall Flume, shed on left houses flume recorder/display



Figure 4: Cub River Lower Ditch Parshal flume



Figure 5: Cub River Middle Ditch (CRIC & PWIC) concrete ledge dam in river and control gates to flume/pipe



Figure 6: Cub River Middle Ditch intake flume to buried culvert that houses Doppler flow meter (note fish screen in bottom of photo). Shed to right houses meter display.



Figure 7: PWIC Cub River Worm Ck Canal from Cub River (Cub River Upper Fill Ditch)



Figure 8: PWIC Upper Fill Ditch fish screens and head gates



Figure 9: Upper Fill Ditch Parshall Flume (10') looking downstream. Water flows to Worm Creek.



Figure 10: Upper Fill Ditch Parshall Flume looking upstream



Figure 11: Upper Fill Ditch - Parshall Flume stilling well



Figure 12: Birch Spring (city of Preston) discharge & weir to Upper Fill Ditch (return flow gate in foreground)



Figure 13: Birch Spring weir (note high approach velocity, lack of weir pool & water crest growth)



Figure 14: Fill Ditch at County Rd above point of injection to Worm Ck



Figure 15: Rated Section on Worm Creek above PW Upper Fill Ditch Injection point to Worm Ck.



Figure 16: Mink Ck Canal injection to Worm Ck upstream of Worm Ck rated section & Fill Ditch injection



Figure 17: Worm Ck Diversion 1 (Webster) just below Mink Ck Canal injection



Figure 18: Diversion 1 (Webster), open ditch from creek eventually drops into gravity pipe system



Figure 19: Lamont-Johnson Diversion from Worm Ck (head gate on left, diversion dam center-right)



Figure 20: Lamont Johnson Ditch & head gate (d/s of head gate)



Figure 21: Lamont Johnson Ditch Parshall Flume (4 ft), about 3/4 mi below head gate



Figure 22: Lamont Johnson Ditch check structure (center) & gate (left) to Johnson Reservoir



Figure 23: Lamont Johnson Ditch check structure, control gate to ditch channel to reservoir



Figure 24: Head gate in Lamont Johnson Ditch to field above Johnson Res; check structure & gate to Res in background around bend



Figure 25: Lamont Johnson Check structure above Lamont Res, head gate on left to Egypt Pipe Lateral, drop & HG on right to Eastside Pipe Lateral, flow through center to Lamont Res.



Figure 26: Lamont Johnson Ditch to Lamont Res fr control structure for Egypt & Eastside Lateral pipes (bubbler on left for Egypt pipe, bubbler on rt for Eastside pipe (Egypt pipe meas device located near end of ditch along road closer to reservoir))



Figure 27: Head gate to Egypt Lateral Association pipeline at control structure above Lamon Res



Figure 28: Intake and gate for Eastside Lateral Association pipeline



Figure 29: Lamont Dam (background), outlet pipe & inspection port (right), taken from flow meter location



Figure 30: Flow meter in Lamont Res outlet pipe (located just below dam & inspection port access - Fig 23)



Figure 31: View from Johnson Dam – looking below dam and former ditch site from reservoir



Figure 32: Johnson Dam outlet pipe and flow meter (in riser pipe to left)



Figure 33: Johnson outlet pipe flow meter



Figure 34: End of pipeline from Lamont & Johnson Reservoirs, discharge from pipe to Cub River Middle Ditch.



Figure 35: Discharge box from end of Lamont-Johnson pipeline (foreground) & Palmer pipe check & intake in the background



Figure 36: Lamont Johnson pipeline flow meter - measures discharge to Cub River Middle Ditch above Palmer Pipe



Figure 37: View of Glendale Dam with outlet control house in right center foreground, and emergency pump below house that can pump water to Lamont Res. Left corner of picture (not visible) is head gate spill structure to Worm Ck.



Figure 38: Head gate control structure in Glendale Res outlet canal, gates on right spill or control water to Worm Ck. Gates on left control flow down canal to Foster Res & North/East Lateral pipes



Figure 39: HG Control to Worm Ck from Glendale Res outlet canal (parshall flume in creek in background left of truck)



Figure 40: Parshall flume in Worm Creek below Glendale Res outlet canal spill gates



Figure 41: Parshall Flume in Glendale Res outlet canal (downstream of Worm Ck spill/control gates)



Figure 42: Glendale Outlet Canal parshall flume (downstream view); water flows to Foster Res & North/East Lateral pipes



Figure 43: Control/diversion gates for North & East Lateral pipelines from Glendale Res Outlet Canal



Figure 44: Head gates for North & East Lateral pipelines



Figure 45: Control/diversion gates for North & East Lateral pipelines, note check/weirs in foreground



Figure 46: Discharge from Glendale Res outlet canal to Foster Res (about 0.25 mi. downstream of North/East lateral pipes)



Figure 47: Foster Res & Dam with control gate shed



Figure 48: Foster Res outlet pipe, outlet inspection port (left) & flow meter access pipe (small blue riser pipe on right). View from dam & control shed.

Inventory Forms and Photos for
Worm Creek below Glendale Reservoir

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Worm Creek</u>		tributary to: <u>Cub River</u>
Diversion Name: <u>Diversion 5</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>40E</u>
	SEC: <u>18</u>	QQ: <u>SWNW</u>
USGS Map:	Name: <u>Franklin</u>	No. <u>DD94</u>
Water Right No's.: <u>13-279</u>		
 <div style="text-align: center;">See Attached <input type="checkbox"/></div>		
Access: <u>Diversion located on west side of road where Worm Creek crosses County Road 1600.</u>		

Diversion Information

GPS Site Tag No.: <u>N/A</u>	GPS File Name: <u>N/A</u>
GPS Tag Location: <u>None</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
 Description of Diversion: <u>No permanent structures associated with this diversion. Steel fencepost, rocks, and plastic material located in Worm Creek appears to be used to back water up into adjacent field for flood irrigation of pasture ground.</u>	
<div style="text-align: center;"><input type="checkbox"/> Diversion Sketch Attached</div>	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Lockable HG? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Desc. Of Headgate: <u>N/A</u>	
Existing Measuring Device: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Measuring Device Type: <u>N/A</u>	Size: <u>N/A</u>
Desc. Of Measuring Device: <u>N/A</u>	

Measurement

Staff Gauge Reading: <u>N/A</u>	
Weir/Flume Reading: <u>N/A</u>	Table Used: <u>N/A</u>
Q = <u>No flow during site visit</u>	
<div style="text-align: center;"><input type="checkbox"/> Flow Measurement Form</div>	

Additional Notes: During field visit I though this might be an illegal diversion but it is not. There was nothing to attach metal tag to so one was not used.

Mat Weaver
Examiner

5/7/2009
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Worm Creek</u>		tributary to: <u>Cub River</u>
Diversion Name: <u>Diversion 6</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>39E</u>
	SEC: <u>13</u>	QQ: <u>NESE</u>
USGS Map:	Name: <u>Franklin</u>	No. <u>DD94</u>
Water Right No's.: <u>13-253; 13-262</u>		
See Attached <input type="checkbox"/>		
Access: <u>Crossed Porter Farms LLC ground from County Road 1600</u> <u>to access diversion structure on Worm Creek visible from road. No</u> <u>fencing to obstruct travel.</u>		

Diversion Information

GPS Site Tag No.: <u>A0012037</u>	GPS File Name: <u>A0012037</u>
GPS Tag Location: <u>Top canal gate cross bar.</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Existing concrete check dam used to be used to</u> <u>back water up into a ditch for gravity flow. Ditch flow was controlled with</u> <u>a sluice type gate. Currently water is diverted through a pipe in face of</u> <u>diversion dam that drains into a shallow CMP well. Water is pumped out</u> <u>of the shallow well to feed pressurized irrigation system.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>Metal canal gate that could be lockable but no lock was</u> <u>evident during site visit.</u>	
Existing Measuring Device: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Measuring Device Type: <u>N/A</u>	Size: <u>N/A</u>
Desc. Of Measuring Device: <u>N/A</u>	

Measurement

Staff Gauge Reading: <u>N/A</u>	Table Used: <u>N/A</u>
Weir/Flume Reading: <u>N/A</u>	
Q = <u>no flow</u>	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: _____

Mat Weaver
Examiner

5/7/2009
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Worm Creek</u>		tributary to: <u>Cub River</u>
Diversion Name: <u>Diversion 7</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>39E</u>
	SEC: <u>26</u>	QQ: <u>SENE</u>
USGS Map:	Name: <u>Mink Creek</u>	No. <u>DD45</u>
Water Right No's.: <u>13-266??</u>		
See Attached <input type="checkbox"/>		
Access: <u>Just west of the Worm Creek crossing of East Oneida Road</u> <u>there is a farmer's access that drops down into the Worm Creek basin.</u> <u>I travelled as far south/downstream as I could and walked last 200 feet to diversion.</u>		

Diversion Information

GPS Site Tag No.: <u>A0012034</u>	GPS File Name: <u>A0012034</u>
GPS Tag Location: <u>Located on top most cross bar of canal gate.</u>	
Photo(s):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Photo File Name: _____
Description of Diversion: <u>Worm Creek flows into ~36" culvert with check</u> <u>boards at inlet. To the river right of the large culvert is a canal gate that</u> <u>is located on the inlet of a 20" CMP diversion. Canal gate diverts water</u> <u>into ditch that runs due south. Diversion was heavily silted in. Canal gate</u> <u>was fully closed but a small flow was still passing through the CMP.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>Metal canal gate that could be lockable but no lock was</u> <u>evident at time of site visit.</u>			
Existing Measuring Device: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Measuring Device Type: <u>N/A</u>		Size: <u>N/A</u>	
Desc. Of Measuring Device: <u>N/A</u>			

Measurement

Staff Gauge Reading: <u>N/A</u>	Table Used: <u>N/A</u>
Weir/Flume Reading: <u>N/A</u>	
Q = <u>< 0.50 cfs (visual estimation)</u>	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: _____

Mat Weaver
Examiner

5/7/2009
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Worm Creek</u>		tributary to: <u>Cub River</u>
Diversion Name: <u>Diversion 8</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>39E</u>
	SEC: <u>26</u>	QQ: <u>SENE</u>
USGS Map:	Name: <u>Franklin</u>	No. <u>DD94</u>
Water Right No's.: <u>13-266??</u>		
See Attached <input type="checkbox"/>		
Access: <u>Diversion is located just to the west of the Worm Creek crossing of 4th Street.</u>		

Diversion Information

GPS Site Tag No.: <u>A0012098</u>	GPS File Name: <u>A0012098</u>
GPS Tag Location: <u>Located on top most cross bar of canal gate.</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Concrete check dam structure sits in canal/creek and checks water into CMP that crosses under 4th Street. A canal gate is located on the entrance of the CMP and controls flow. Unsure if the canal/creek is natural or manmade, and it appears to be fed from water diverted from nearby pond and the ditch diverted at Diversion 7. Water is diverted into Pond (south of 4th street) which is connected with Worm Cr.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>Metal canal gate that could be lockable but no lock was evident at time of site visit.</u>	
Existing Measuring Device: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Measuring Device Type: <u>N/A</u>	Size: <u>N/A</u>
Desc. Of Measuring Device: <u>N/A</u>	

Measurement

Staff Gauge Reading: <u>N/A</u>	Table Used: <u>N/A</u>
Weir/Flume Reading: <u>N/A</u>	
Q = <u>None</u>	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: This may or may not be a diversion of Worm Creek. Further investigation is required to determine source of water and nature of interconnectedness at pond. Water is pump out of pond to serve pressurized irrigation system(s).

Mat Weaver
Examiner

5/7/2009
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No.: 13A

General Information

Keneth

Source/Tributary:	<u>WORM CREEK</u>	tributary to	<u>CUB RIVER.</u>
Diversion Name:	<u>UNKNOWN</u>		
Point of Diversion:	Twp. <u>15S</u>	Rng. <u>39E</u>	Sec <u>36</u> <u>QQ NESW</u>
USGS Map:	Name	No.	
Water Right Nos.:	<u>13-213</u>		
	<u>13-224</u>		
	See attached <input type="checkbox"/>	<u>KENNETH OLIVERSON S</u>	
Access:	<u>CUB RIVER IRRIG CO.</u>		
	<u>PRIVATE LANE RIGHT FORK TO POND CSOUT</u>		
	<u>PRIVATE LANE ON N SIDE OF ROAD</u>		

4 side of
of
road.

Diversion Information

GPS Site Tag No.:	<u>A0018991</u>	GPS File Name:	<u>A0018991</u>
GPS Tag Location:	<u>ON PUMP HOUSE DOOR JAM.</u>		
Photo? <input type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____		
Description of diversion:	<u>CREEK DIVERTED INTO</u>		
	<u>POND AND PUMPED TO SPRINKLERS</u>		
	<u>DIVERSION MAY BE ON NORTH</u>		
	<u>SIDE OF ROAD, NO WATER YET</u>		
	<u>Hard to tell.</u>		

Headgate and Measuring Device Description

Existing Headgate? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Lockable Headgate? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Description of Headgate:	<u>PUMP.</u>

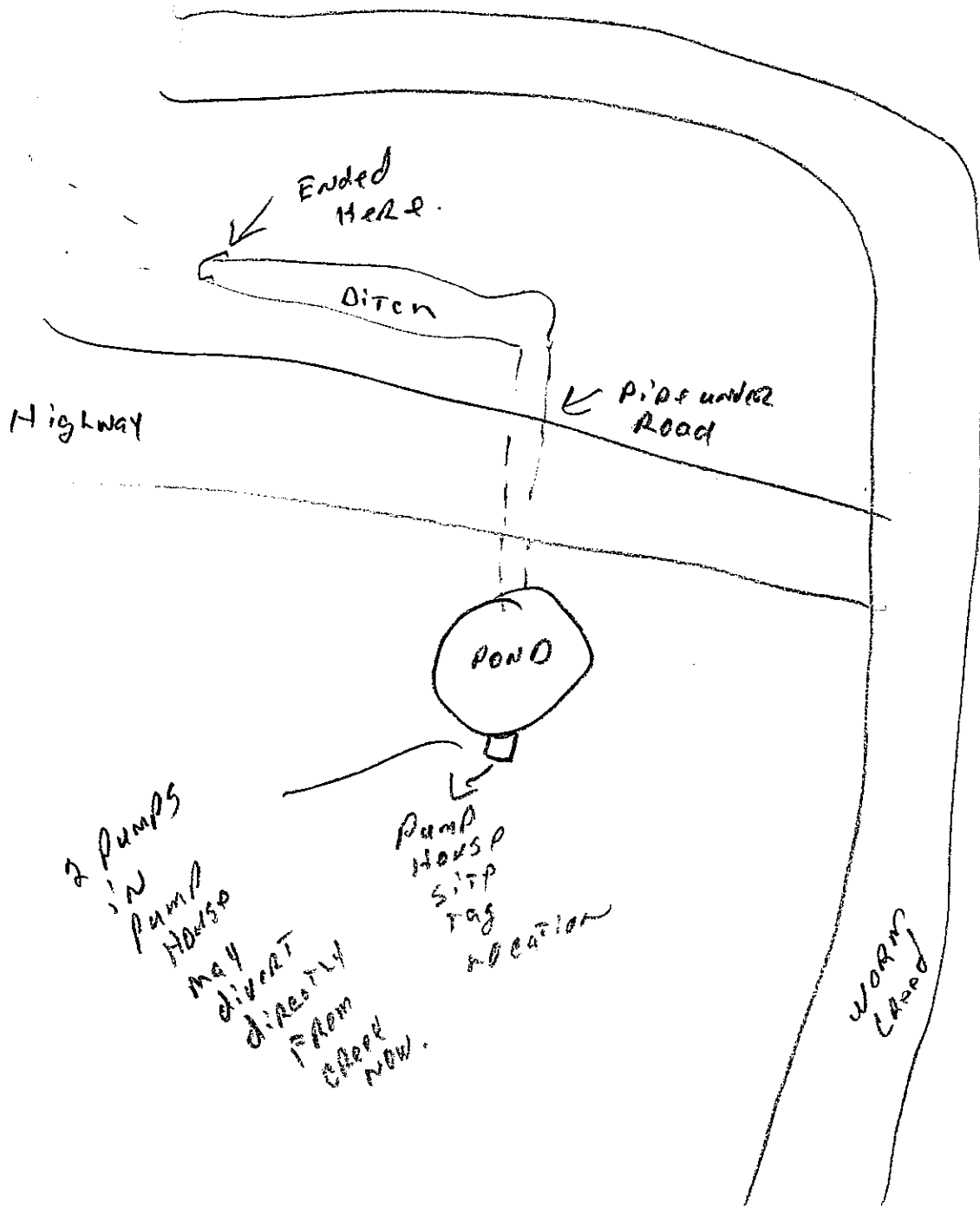
Existing Measuring Device? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Measuring Device Type:	Size: _____
Description of Measuring Device:	_____

☐ Diversion sketch on reverse

Measurement

Staff Gage Reading: _____	Table Used: _____
Weir/Flume Reading: _____	
<input type="checkbox"/> Flow Measurement Form Attached	
Q = _____	

David A. Mullen 5-7-09 _____
Examiner Date Time



Canal Diversion into WORM CREEK

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No.: 13A

General Information

Source/Tributary:	<u>WORM CREEK</u>	tributary to	<u>CUB RIVER.</u>
Diversion Name:	<u>POINT WHERE CANAL WATER ENTERS WORM CREEK.</u>		
Point of Diversion:	Twp. _____	Rng. _____	Sec. _____ QQ _____
USGS Map:	Name _____	No. _____	
Water Right Nos.:	_____		
	See attached <input type="checkbox"/>		
Access:	<u>1/2 mile south of the RAIL ROAD TRACKS</u> <u>500 FT SOUTH OF ROAD.</u>		

Diversion Information

GPS Site Tag No.:	<u>A0018997</u>	GPS File Name:	<u>A0018997</u>
GPS Tag Location:	<u>ON TRAIL SOUTH OF DIVERSION</u>		
Photo? <input type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____		
Description of diversion:	<u>THIS IS NOT AN ACTUAL</u> <u>DIVERSION - THIS IS THE POINT</u> <u>WHERE THE CANAL DISCHARGES</u> <u>INTO THE WORM CREEK CHANNEL.</u> <u>POINT OF INJECTION</u>		

Headgate and Measuring Device Description

Existing Headgate? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Lockable Headgate? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Description of Headgate: _____	

Existing Measuring Device? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Measuring Device Type: _____	Size: _____
Description of Measuring Device: _____	

☒ Diversion sketch on reverse

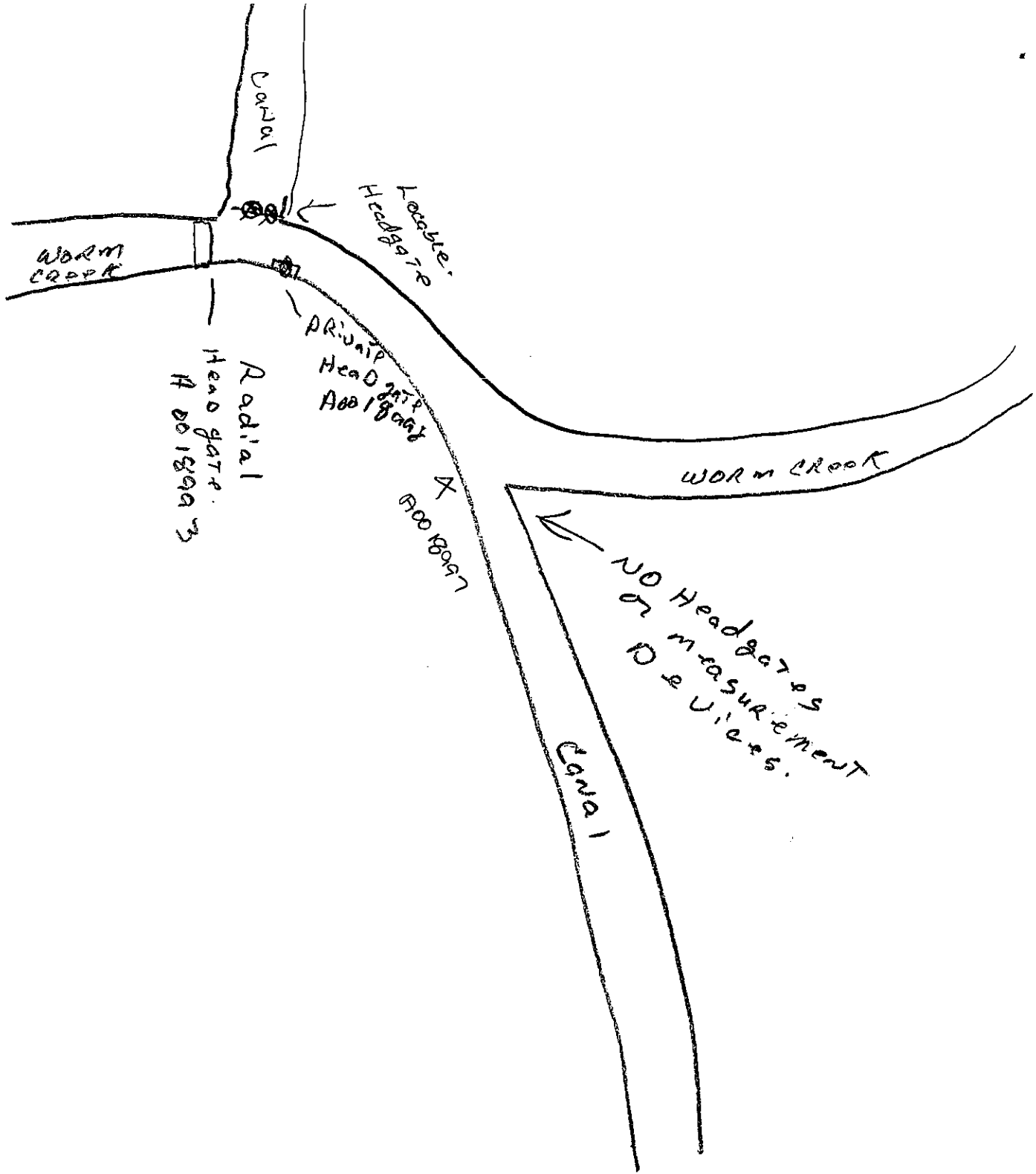
Measurement

Staff Gage Reading: _____	Table Used: _____
Weir/Flume Reading: _____	
<input type="checkbox"/> Flow Measurement Form Attached	
Q = _____	

Daniel A. Mohr
Examiner

5-7-09
Date

Time



Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No.: 13A

General Information

Source/Tributary:	<u>WORM CREEK</u>	tributary to	<u>CUB RIVER</u>
Diversion Name:	<u>DIVERSION OF CANAL OUT OF WORM CREEK</u>		
Point of Diversion:	Twp. <u>16S</u>	Rng. <u>39E</u>	Sec <u>1</u> QQ <u>SFSW</u>
USGS Map:	Name _____	No. _____	
Water Right Nos.:	_____		
	See attached <input type="checkbox"/>		
Access:	<u>WALK IN 1/2 mile FROM</u>		

Diversion Information

GPS Site Tag No.:	<u>A 0018992</u>	GPS File Name:	<u>A0018992</u>
GPS Tag Location:	<u>ON Radial Headgate</u>		
Photo? <input type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____		
Description of diversion:	<u>THIS IS THE POINT WHERE THE</u> <u>CANAL & WORM CREEK SPLIT THE HEADGATE TO</u> <u>WORM CREEK IS A RADIAL HEADGATE. THE</u> <u>DIVERSION TO CANAL HAS 2 WHEELED SLIDE</u> <u>HEAD GATES.</u>		

Headgate and Measuring Device Description

Existing Headgate? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable Headgate? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Description of Headgate: <u>2-ADJUSTABLE SLIDE HEADGATES</u> <u>INTO CANAL - AND A RADIAL HEADGATE</u> <u>INTO WORM CREEK.</u>	
Existing Measuring Device? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Measuring Device Type: _____	Size: _____
Description of Measuring Device: _____	

☒ Diversion sketch on reverse

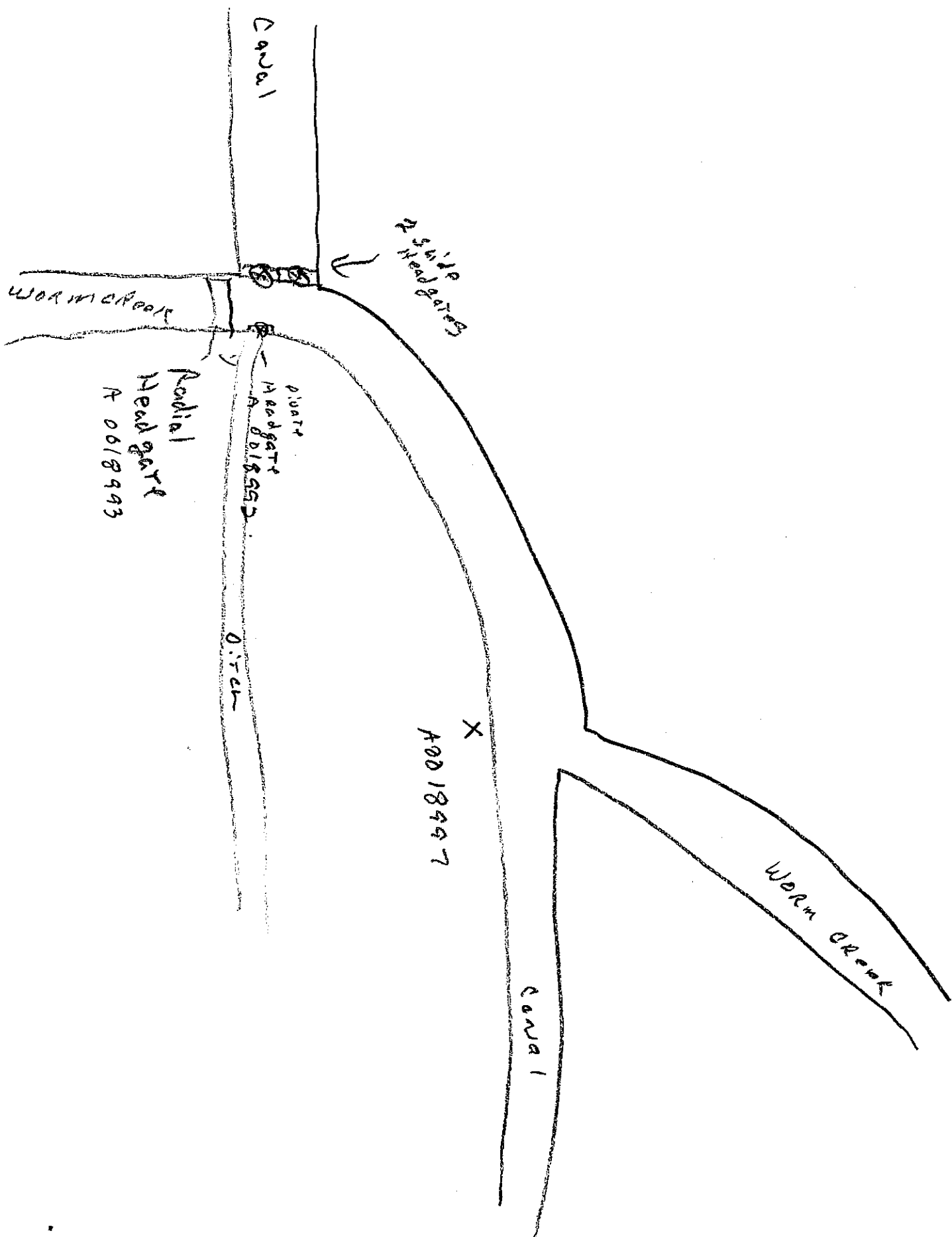
Measurement

Staff Gage Reading: _____	Table Used: _____
Weir/Flume Reading: _____	
<input type="checkbox"/> Flow Measurement Form Attached	
Q = _____	

David A. Miller
Examiner

5-7-09
Date

Time



Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No.: 13A

General Information

Source/Tributary: Worm Creek Canal tributary to Cub River.
Diversion Name: UNKNOWN.
Point of Diversion: Twp. _____ Rng. _____ Sec. _____ QQ _____
USGS Map: Name _____ No. _____
Water Right Nos.: _____
See attached ☐
Access: WALK IN FROM ROAD 1/2 mile.

Diversion Information

GPS Site Tag No.: A0018993 GPS File Name: A0018993.
GPS Tag Location: ON Headgate
Photo? ☐ Yes ☐ No Photo File Name: _____
Description of diversion: THIS DIVERSION IS JUST
UP STREAM OF THE Radial Headgate.

Headgate and Measuring Device Description

Existing Headgate? ☒ Yes ☐ No Lockable Headgate? ☒ Yes ☐ No
Description of Headgate: Adjustable Slide Headgate
INTO a DITCH
Existing Measuring Device? ☐ Yes ☒ No
Measuring Device Type: _____ Size: _____
Description of Measuring Device: _____

☒ Diversion sketch on reverse

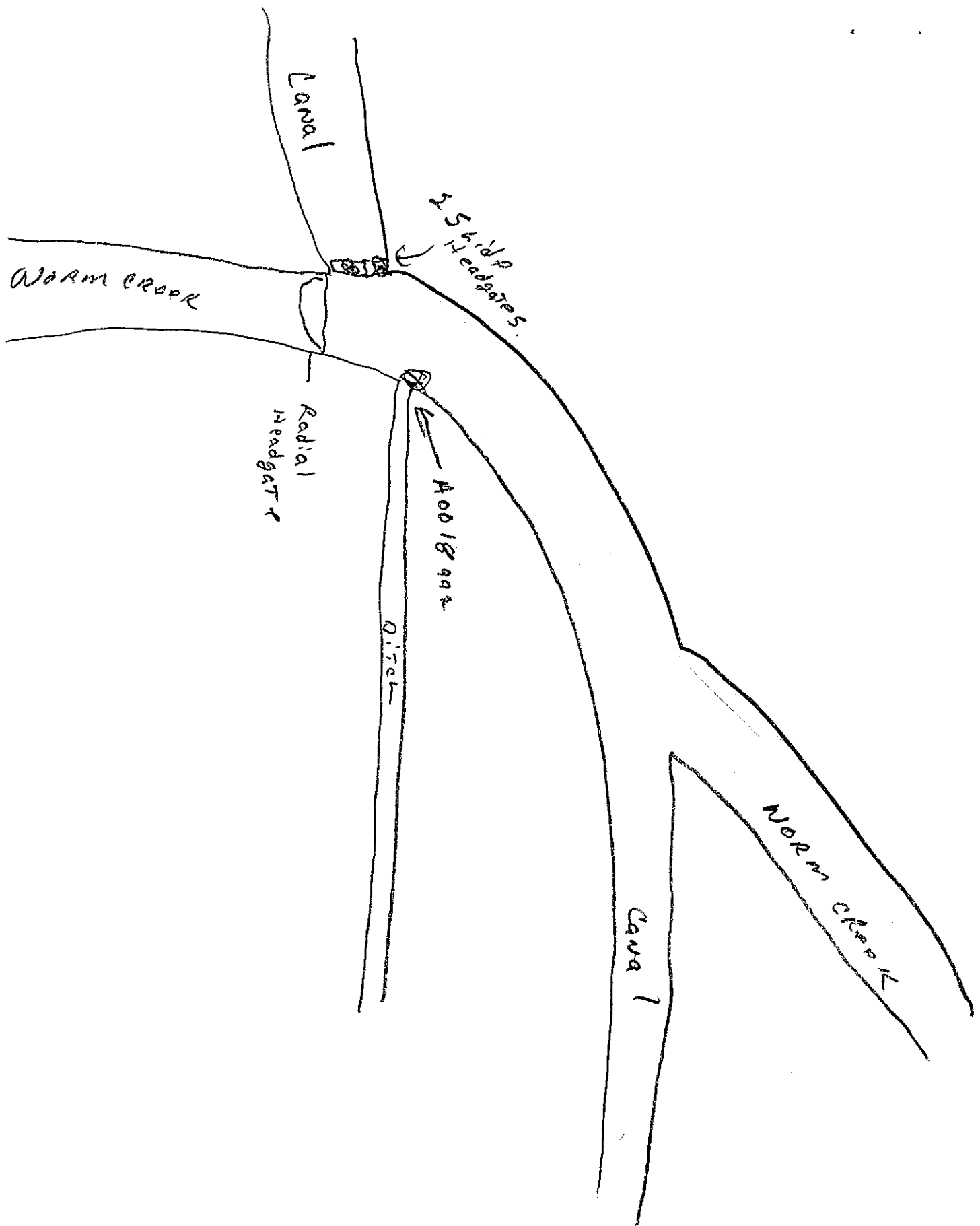
Measurement

Staff Gage Reading: _____
Weir/Flume Reading: _____ Table Used: _____
☐ Flow Measurement Form Attached
Q = _____

Daniel A. Nelson
Examiner

5-7-09
Date

Time



Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No.: 13A

MERLIN GILBERT

General Information

Source/Tributary: WORM CREEK tributary to Cub River
Diversion Name: UNKNOWN
Point of Diversion: Twp. 16S Rng. 39E Sec 13 QQ NW NW
USGS Map: Name _____ No. _____
Water Right Nos.: 13-64 13-66 13-68
13-65 13-67
See attached ☐
Access: 10 FT OFF ROAD

Diversion Information

GPS Site Tag No.: A 0018985 GPS File Name: A0018985
GPS Tag Location: ON STAND PIPE NEXT TO HEADGATE
Photo? ☐ Yes ☐ No Photo File Name: _____
Description of diversion: CEMENT DAM IN CREEK
WITH HEAD GATE TO PIPE THAT TRAVELS
UNDER THE ROAD AND OPEN DISCHARGES
INTO DITCH

Headgate and Measuring Device Description

Existing Headgate? ☒ Yes ☐ No Lockable Headgate? ☒ Yes ☐ No
Description of Headgate: ADJUSTABLE SLIDE HEADGATE
Existing Measuring Device? ☐ Yes ☒ No
Measuring Device Type: _____ Size: _____
Description of Measuring Device: _____

☒ Diversion sketch on reverse

Measurement

Staff Gage Reading: _____
Weir/Flume Reading: _____ Table Used: _____
☐ Flow Measurement Form Attached
Q = _____

Daniel A Nelson
Examiner

5-7-09
Date

Time

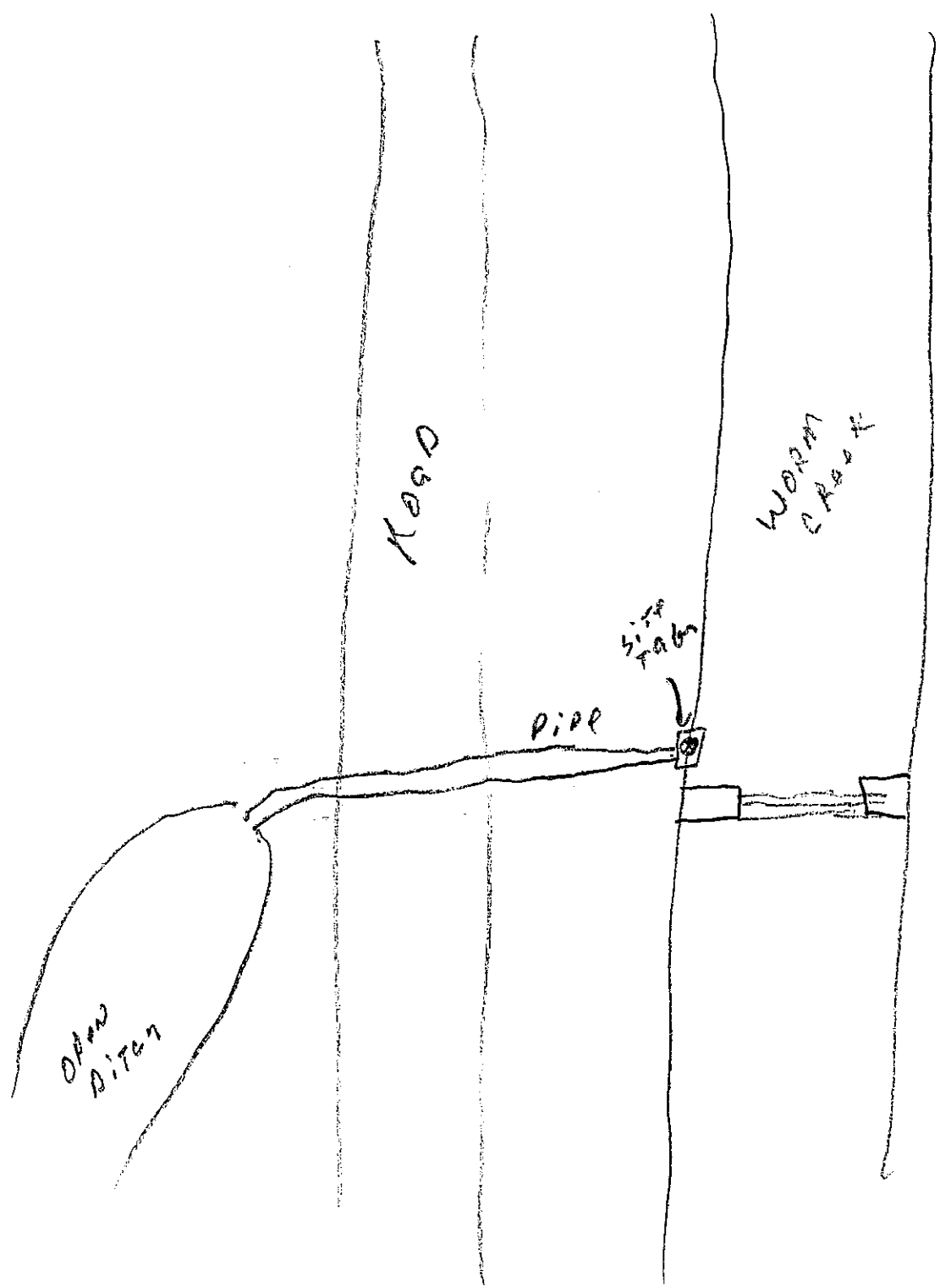
ROAD

WORM
CREEK

5.14
TAB

PIPE

ORAN
DITCH



Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No.: 13A

General Information

MELVIN GILBERT-
Source/Tributary: WORM CREEK tributary to CUB RIVER
Diversion Name: UNKNOWN
Point of Diversion: Twp. 16S Rng. 39E Sec 23 QQ 54SE
USGS Map: Name _____ No. _____
Water Right Nos.: 13-63
13-263
See attached ☐
Access: 1/4 mile WALK IN FROM ROAD

Diversion Information

GPS Site Tag No.: A0018990 GPS File Name: A0018990
GPS Tag Location: ON PUMP Discharge Pipe.
Photo? ☐ Yes ☒ No Photo File Name: _____
Description of diversion: Pump in Creek.

Headgate and Measuring Device Description

Existing Headgate? ☒ Yes ☐ No Lockable Headgate? ☒ Yes ☐ No
Description of Headgate: CONTROL VALVE ON PUMP.
Existing Measuring Device? ☐ Yes ☒ No
Measuring Device Type: _____ Size: _____
Description of Measuring Device: _____

☐ Diversion sketch on reverse

Measurement

Staff Gage Reading: _____
Weir/Flume Reading: _____ Table Used: _____
☐ Flow Measurement Form Attached
Q = _____

Daniel A. Nelson
Examiner

5-7-09
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No.: 13A

General Information

BURTIS HILL

Source/Tributary:	<u>WORM CREEK</u>	tributary to	<u>CUB RIVER</u>
Diversion Name:	<u>UNKNOWN</u>		
Point of Diversion:	Twp. <u>16S</u>	Rng. <u>39E</u>	Sec. <u>23</u> QQ <u>SESE</u>
USGS Map:	Name	No.	
Water Right Nos.:	<u>13-324</u>		
	<u>13-294</u>		
	See attached <input type="checkbox"/>		
Access:	<u>10 FT WEST OF ROAD.</u>		

Diversion Information

GPS Site Tag No.:	<u>A0018981</u>	GPS File Name:	<u>A0018981</u>
GPS Tag Location:	<u>ON DISCHARGE PIPE OF PUMP</u>		
Photo? <input type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____		
Description of diversion:	<u>small pond with</u>		
	<u>pump diverting out water.</u>		

Headgate and Measuring Device Description

Existing Headgate? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable Headgate? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Description of Headgate: <u>CONTROL VALVE ON PUMP.</u>	
<u>DISCHARGE PIPE.</u>	
Existing Measuring Device? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Measuring Device Type: _____	Size: _____
Description of Measuring Device: _____	

☐ Diversion sketch on reverse

Measurement

Staff Gage Reading: _____	Table Used: _____
Weir/Flume Reading: _____	
<input type="checkbox"/> Flow Measurement Form Attached	
Q = _____	

Daniel A. Nelson

Examiner

5-7-09

Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No.: 13 A

General Information

Source/Tributary:	<u>WORM CREEK</u> tributary to <u>CUB RIVER</u>		
Diversion Name:	<u>UNKNOWN</u>		
Point of Diversion:	Twp. <u>16S</u>	Rng. <u>39E</u>	Sec <u>25</u> <u>QQ SENW</u>
USGS Map:	Name _____	No. _____	
Water Right Nos.:	<u>13-314</u> <u>13-2161</u>		
	<u>13-227</u>		
	See attached <input type="checkbox"/>		
Access:	<u>1/4 mile walk in from Road.</u>		

Diversion Information

GPS Site Tag No.:	<u>A 0018989</u>	GPS File Name:	<u>A 0018989</u>
GPS Tag Location:	<u>ON Pump Discharge.</u>		
Photo? <input type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____		
Description of diversion:	<u>PUMP OUT OF POND</u>		

Headgate and Measuring Device Description

Existing Headgate? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable Headgate? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Description of Headgate: <u>CONTROL VALVE ON PUMP.</u>	
Existing Measuring Device? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Measuring Device Type: _____	Size: _____
Description of Measuring Device: _____	

☐ Diversion sketch on reverse

Measurement

Staff Gage Reading: _____	Table Used: _____
Weir/Flume Reading: _____	
<input type="checkbox"/> Flow Measurement Form Attached	
Q = _____	

Daniel A. Melan
Examiner

5-7-09
Date

Time



Figure 1: Preston Whitney Irr Co. Eastside Ditch headgate (ditch abandoned)



Figure 2: Diversion 5 - Worm Creek (blw Glendale Res)



Figure 3: Diversion 6/A0012037 (Porter), check structure & head gate

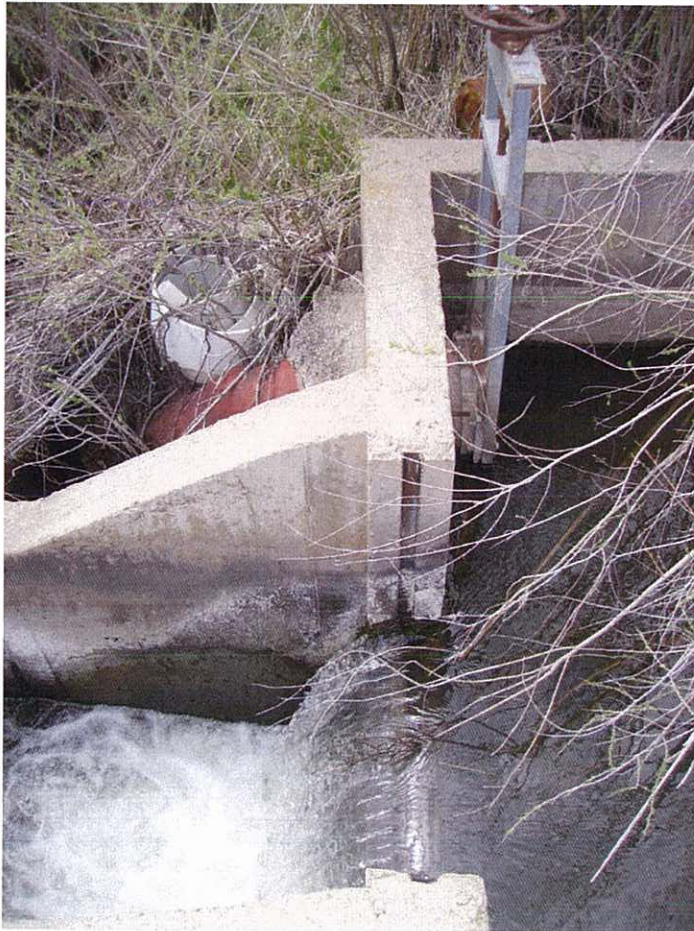


Figure 4: Diversion 6/A0012037, check structure & head gate to pipe and CMP well with pressurized irr pump



Figure 5: diversion 7/A0012034 (Beckstead-Tanner Ditch). Head gate to ditch, creek flow thru CMP on right



Figure 6: Diversion 8/A0012034, Canal gate to CMP crosses 4th St. Check structure to left, foreground

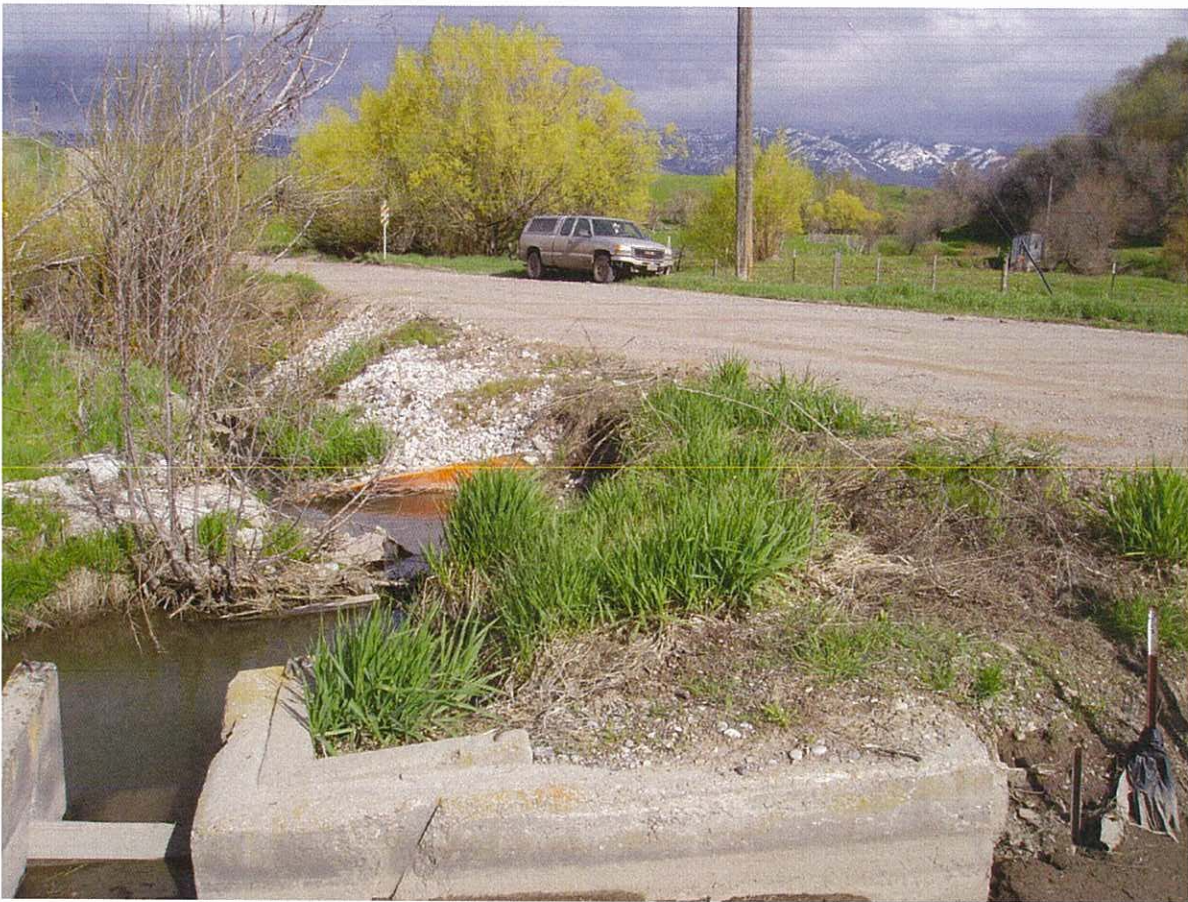


Figure 7: Check structure in ditch/channel that checks water to canal gate & CMP across 4th St. to pond and pump (did not verify status of pump).

Note: Photos are missing for any additional downstream diversions. Refer to table for list of downstream diversions.

Inventory Forms and Photos for
Spring Creek

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Spring Creek</u>		tributary to: <u>Worm Creek</u>	
Diversion Name: <u>Beckstead-Dunkley Ditch (Abandoned Ditch)</u>			
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>39E</u>	
	SEC: <u>25</u>	QQ: <u>SESE</u>	
USGS Map:	Name: _____	No. _____	
Water Right No's.: <u>13-210 & 13-239</u>			
See Attached <input type="checkbox"/>			
Access: <u>Northside of 800 E Rd where road crosses Spring Creek,</u> <u>abandoned ditch heading on west side of creek.</u>			

Diversion Information

GPS Site Tag No.: <u>none</u>	GPS File Name: <u>Beckstd-Dunn</u>
GPS Tag Location: <u>no HG or structure to attach tag</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Former ditch channel appears to be elevated above</u> <u>creek channel, no flow enters channel</u> <u>Visited right owner Lin Beckstead on 5/25/10 who confirmed this ditch</u> <u>is no longer used.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>ditch abandoned, no structure</u>	
Existing Measuring Device: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: _____	Size: _____
Desc. Of Measuring Device: _____	

Measurement

Staff Gauge Reading: _____	Table Used: _____
Weir/Flume Reading: _____	
Q = _____	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: Also searched for Baker diversion/right 13-247 in this same QQ and
and NESE but did not locate. Watermaster Troy Foster and Mr. Beckstead were not
aware of any diversion on creek by Baker family or others.

Tim Luke
Examiner

5/25/2010
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Spring Creek</u>		tributary to: <u>Worm Creek</u>
Diversion Name: <u>Gib Hull Diversion</u>		
Point of Diversion:	TWNP: <u>15S</u>	RNG: <u>39E</u>
	SEC: <u>36</u>	QQ: <u>SENE</u>
USGS Map:	Name: _____	No. _____
Water Right No's.: <u>13-311 (Robert & Gib Hull)</u>		
See Attached <input type="checkbox"/>		
Access: <u>About 0.4 mi north of LDS Church on 1600 S Rd. Must walk about 600 ft west thru field to ditch heading.</u>		

Diversion Information

GPS Site Tag No.: <u>none</u>	GPS File Name: <u>Hull Sp Ck Div</u>
GPS Tag Location: <u>no HG or structure to attach tag</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Diversion from creek is 24 inch culvert with plastic tarp dam and stakes for closure or control. Control is inadequate and requires lockable head gate.</u>	

<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Lockable HG? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Desc. Of Headgate: <u>Steel Waterman type screw gate in wing wall of concrete check div structure. HG to buried culvert that opens near 1600 S Rd & goes into pipe & open ditch south along 1600S, flumed across Cub R canal</u>	
Existing Measuring Device: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: <u>Parshall Flume</u>	Size: <u>1 ft</u>
Desc. Of Measuring Device: <u>flume installed downstream in pasture lot north of church. Flume installed on bend in ditch, advised watermaster to have flume moved closer to ditch heading and install controlling HG.</u>	

Measurement

Staff Guage Reading: <u>no diversion/flow at time of visit</u>	
Weir/Flume Reading: _____	Table Used: _____
Q = _____	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: _____

Tim Luke
Examiner

5/25/2010
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Spring Creek</u>		tributary to: <u>Worm Creek</u>
Diversion Name: <u>Golightly diversion at Hulls Crossing</u>		
Point of Diversion:	TWNP: <u>16S</u>	RNG: <u>40E</u>
	SEC: <u>6</u>	QQ: <u>SWNWNW</u>
USGS Map:	Name: _____	No. _____
Water Right No's.: <u>13-62, 216 (Golightly) 60A, 61A, 237, 273 (Rallison)</u>		
<u>13-258 (Chadwick), 144 (Moser), 274 (Sharp)</u>		
See Attached <input type="checkbox"/>		
Access: <u>Near southeast corner of Highway 91 and 1600 S (aks Hulls Crossing). Park in vacant lot near corrals.</u>		

Diversion Information

GPS Site Tag No.: <u>A0012016</u>	GPS File Name: <u>Golightly Sp Ck Div</u>
GPS Tag Location: <u>Epoxyed to concrete diversion structure</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Concrete check structure in creek with wood stop logs checks water to Golightly head gate on right bank looking upstream, and bypass box on left bank. Bypass box has a submerged orifice for measurement of bypass flow to creek downstream for other rights (Rallison, M</u>	

<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>Steel Waterman type screw gate in wing wall of concrete check div structure. HG to buried culvert that opens near 1600 S Rd & goes into pipe & open ditch south along 1600S, flumed across Cub R canal</u>	
Existing Measuring Device: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Measuring Device Type: _____	Size: _____
Desc. Of Measuring Device: _____	

Measurement

Staff Gauge Reading: _____	
Weir/Flume Reading: _____	Table Used: _____
Q = _____	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: Golightly has HG from Cub River Canal on other side of 1600 S where his Cub River Canal Co shares are delivered, shares not mixed w/Spring Ck until further down system near POU. Meas device should be installed in open ditch along Rd.

Tim Luke
Examiner

5/25/2010
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Unnamed Drain</u>		tributary to: <u>Kirby Pond</u>
Diversion Name: _____		
Point of Diversion:	TWNP: <u>16S</u>	RNG: <u>40E</u>
	SEC: <u>7</u>	QQ: <u>SESWNW</u>
USGS Map:	Name: _____	No. _____
Water Right No's.: <u>13-217 (Golightly)</u>		
See Attached <input type="checkbox"/>		
Access: <u>East side of 1600 S, approx 1 mi south of Hwy 91 & 1600 S</u>		

Diversion Information

GPS Site Tag No.: <u>N/A</u>	GPS File Name: <u>Goltly Drain1</u>
GPS Tag Location: _____	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Drain channel appears to drain farm fields to north-east, channel crosses 1600 S via culvert that discharges to pvc pipe that picks up water from ditch and then enters series of 3 small ponds on very south end of Golightly property.</u>	
<u>Two other ponds further west on Golightly property appear to be on other ditch channel. No water rights cover use of ponds.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: <u>No diversion structure, just appears to be natural drain channel</u>	
Existing Measuring Device: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Measuring Device Type: _____	Size: _____
Desc. Of Measuring Device: _____	

Measurement

Staff Gauge Reading: _____	Table Used: _____
Weir/Flume Reading: _____	
Q = _____	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: Only minor flow in channel at time of visit. Mr. Golightly stated channel is often dry and/or flow very minor. Ponds likely rely more on water from private ditch that carries Golightly's Cub River Irr Co shares and any water from Sp Ck.

Tim Luke
Examiner

5/25/2010
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: Kirby Pond	tributary to: Worm Creek
Diversion Name: Kirby Pond	
Point of Diversion: TWNP: 16S	RNG: 40E
SEC: 7	QQ: SWSWSW
USGS Map: Name: _____	No. _____
Water Right No's.: _____	
See Attached <input type="checkbox"/>	
Access: On 3200 E Rd about 0.63 mi west of 1600 S (Parkinson Rd)	

Diversion Information

GPS Site Tag No.: A0001969	GPS File Name: KirbyPond-Whitly E HG
GPS Tag Location: On east head gate located on SE corner of pond along road	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: Approx 1 acre pond on unnamed stream or drain channel. Small berm several feet in height along road forms dam. Dam is about 180 ft in length. A head gate in middle of dam connected to outlet pipe controls water in pond and discharge from pond. West HG no longer used as per Seth Wheatley. East HG regulates flow to Gamble pond & Wheatley east irr pump. Mid HG controls flow to channel & Whitly west pump	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: All three HGs on pond are typical Watermand type turn screw gates set in steel frames. All three are lockable.	
Existing Measuring Device: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Measuring Device Type: _____	Size: _____
Desc. Of Measuring Device: _____	

Measurement

Staff Gauge Reading: _____	Table Used: _____
Weir/Flume Reading: _____	
Q = _____	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: _____

Tim Luke
Examiner

5/25/2010
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Unnamed Stream</u>		tributary to: <u>Worm Creek</u>
Diversion Name: <u>Gamble Pond/Wheatley East Irrigation Pump</u>		
Point of Diversion:	TWNP: <u>16S</u>	RNG: <u>39E</u>
	SEC: <u>13</u>	QQ: <u>NENESE</u>
USGS Map:	Name: _____	No. _____
Water Right No's.: <u>13-219 (Gamble)</u>		
See Attached <input type="checkbox"/>		
Access: <u>Turn south on service road off 3200 E Rd & 0.63 mi west of</u> <u>1600 S (Parkinson Rd), take service road just east along Wheatley dairy</u> <u>barns, follow service road to pond and pump</u>		

Diversion Information

GPS Site Tag No.: <u>none</u>	GPS File Name: <u>Gamble Pond</u>
GPS Tag Location: <u>On east head gate located on SE corner of pond along road</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Irrigation pump diverts from approx 2 acre shallow</u> <u>pond on unnamed stream channel. Pump powered by diesel motor on south</u> <u>west corner of pond. Water to pond can be provided by regulation of east</u> <u>Kirby Pond HG. Some natural flow in unnamed channel provides water for</u> <u>pond & pump, and unnamed drain from east may occasionally provide some</u> <u>flow.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: _____ _____	
Existing Measuring Device: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Size: _____
Measuring Device Type: _____	
Desc. Of Measuring Device: _____ _____ _____	

Measurement

Staff Gauge Reading: _____	Table Used: _____
Weir/Flume Reading: _____	
Q = _____	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: A water right transfer may be needed to correctly add or show this
pump diversion. Kirby Pond appears to be legal POD for 13-219.

Tim Luke
Examiner

5/25/2010
Date

Time

Idaho Dept. of Water Resources
GPS Field Data and Diversion Inventory
Water District No. 13-A

General Information

Source/Tributary: <u>Unnamed Stream</u>		tributary to: <u>Worm Creek</u>
Diversion Name: <u>Wheatley West Irrigation Pump</u>		
Point of Diversion:	TWNP: <u>16S</u>	RNG: <u>39E</u>
	SEC: <u>13</u>	QQ: <u>SWNE</u>
USGS Map:	Name: _____	No. _____
Water Right No's.: <u>Portion of pou 13-221 (Burnett) & 13-220 (Alder)</u>		
See Attached <input type="checkbox"/>		
Access: <u>Turn south on service road off 3200 E Rd & 0.63 mi west of 1600 S (Parkinson Rd), take service road just east along Wheatley dairy barns follow service road north of Gamble Pond, go west to pump</u>		

Diversion Information

GPS Site Tag No.: <u>none</u>	GPS File Name: <u>Whtly W Pump</u>
GPS Tag Location: <u>On east head gate located on SE corner of pond along road</u>	
Photo(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Photo File Name: _____
Description of Diversion: <u>Small shallow pond on unnamed stream channel that flows from/south of Kirby Pond. Irrigation pump powered by diesel motor.</u>	
<u>Kirby Pond appears to be legal POD for 13-221 & 220.</u>	
<input type="checkbox"/> Diversion Sketch Attached	

Headgate (HG) and Measuring Device Description

Existing Headgate: <input type="checkbox"/> Yes <input type="checkbox"/> No	Lockable HG? <input type="checkbox"/> Yes <input type="checkbox"/> No
Desc. Of Headgate: _____	
Existing Measuring Device: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Size: _____
Measuring Device Type: _____	
Desc. Of Measuring Device: _____	

Measurement

Staff Gauge Reading: _____	Table Used: _____
Weir/Flume Reading: _____	
Q = _____	
<input type="checkbox"/> Flow Measurement Form	

Additional Notes: Land irrig by pump is south of dairy and 3200 E Rd. Ground formerly flood irrigated using west HG on Kirby Pond as per Seth Wheatley. A water rt transfer may be needed to correctly add or show this pump diversion.

Tim Luke
Examiner

5/25/2010
Date

Time



Figure 1: Gib Hull headgate and ditch from Spring Creek



Figure 2: Control structure on Gib Hull Ditch, gate on right controls flow downstream to ditch, culvert is return flow to creek



Figure 3: Parshall flume in Hull Ditch (installed on ditch bend – advised watermaster to move upstream closer to heading)



Figure 4: Golightly/Wheatley Spring Ck Ditch diversion at Hulls Crossing (HG on right goes to Golightly, HG on left is bypass and meas device (orifice) to downstream Spring Creek users). Check structure in center.



Figure 5: Golightly Ditch flumed across Cub River Irr Co. Lower Ditch



Figure 6: Golightly HG from Cub River Lower Ditch (delivery of Cub River Irr Co shares) just downstream of Golightly Spring Ck flume across ditch



Figure

Figure 7: Drain to golightly Ditch and ponds



Figure 8: One of Golightly ditch channels along 1600 S Rd to pond at south end of Golightly property, drain enters ditch from across road (left of photo) where tarp is located. Two additional small ponds behind this one, & two larger ponds on separate ditch further west. Water rights do not authorize ponds.



Figure 8: Kirby Pond & Wheatley East head gate (controls water to Gamble pond and Wheatley east pump)



Figure 9: Kirby Pond middle head gate, controls flow down unnamed creek/drainage channel to Wheatley west pump



Figure 10: Wheatley east pump from Gamble Pond



Figure 11: Wheatley west pump in small pond on unnamed stream/drain out of Kirby Pond (from Kirby Pond Middle HG)



Figure 12: Whitney Nashville Water Works Co spring diversion pipe to underground storage reservoir (beneath cement pad). White PVC pipe is over flow to Spring Creek (rarely overflows). Shed houses flow meter and display. There is a lower overflow pipe from reservoir to Spring Ck located just below storage reservoir.



Figure 13: Whitney Nashville WWC flow meter display (flowing about 45 gpm). Note: Springs to this location are about 0.25 mile north near head of Spring Ck.