

MEMORANDUM

Date: November 27, 2017
To: Water Right File 45-13513
From: Michele Edl
Re: license review

POD

I created the POD shapes based on available GPS d spatial data points assigned to well tags A0007816 and A0007817. Both wells divert cold water and both are located in the subdivision well lot which is SESW government lot 2 (SESW) section 30, township 10 South, range 24 East. These wells also serve rights 45-7697 and 45-7375. The three rights share a common diversion and distribution system. Combined use limits will apply.

POU

IDWR does not have a stub-in policy for heating and cooling uses. I am recommending this license be issued for heating and cooling use to 8 homes which were confirmed to have heat pump systems at the time of the exam. Three additional lots were recommended but based on stub-ins only and will not be included in the POU for this license. I created the POU shape based on the 8 homes identified by the examiner as having heat pumps.

Some development has continued in the subdivision. Of the three vacant, but stubbed-in lots found by the examiner in 2004, one now has a home. The other two lots remain vacant.

Water Use

This is a non-consumptive use of water in an open loop system. The points-of-diversion are existing wells which are drilled in close proximity to the Snake River. The river is the destination for the spent heating/cooling water.

Rate

In 2002, as part of an evaluation prior to Application for Permit 45-13513, Jeffery S. Rau, P.E. measured the Springdale Acres system at 163 gpm or 0.36 cfs. Mr. Jeffery Rau was also the field examiner who confirmed and reported the beneficial heating/cooling use for this license. In his report, he does not mention any changes to the diversion system which would increase system rate or capacity.

If the examiner's rate recommendation of 0.23 cfs, is simply added to the rates already authorized under 45-73750 (0.12 cfs) and 45-7697 (0.31 cfs), then the total authorized rate for the system (0.66 cfs) will likely exceed the system capacity. WMIS records for 401770 (both wells are on a single meter) indicate that the system can divert ~0.56 cfs. (See 10/11/2001 flow meter calibration). And in the review of WR# 45-7697, the system capacity was estimated at approximately 0.59 cfs.

I recommend that the combined rate be limited to ~0.56 cfs consistent with the WMIS record.

Volume

The examiner collected records of the heat pump use from August 2003 to November 2004. He used averages of real data in his calculations and in his extrapolated volume recommendation. He did not consider more extreme weather years.

2003 was an average weather year (HDD = 6113; CDD = 540.5 at Burley FAA AP, station 101303) and during that year, the eight existing heat pumps used an average of 1,130,498.8 gallons or 3.47 AF each. I used a Degree-Day-based calculation to calculate a volume based on the most extreme heating year within the most recent 50 years. For the Burley area, that extreme year was 1985. (See the attached spreadsheet for my calculations.)

I recommend a volume of 4.42 AFA per lot or 35.33 AFA total, for heating and cooling purposes within the 8-lot place-of-use.

WR #45-13513		Springdale Acres HOA			calculated by Michele Edl on 11/27/2017					
Heating/cooling volume calculations										
		totalizer data	date		comment					
	A	9043990	gallons/ that period		total gallons for 8 units 8/1/2003 to 8/1/2004					
	B	6518	HDD/that period		Burley airport data from weather underground				6929	total DD
	C	411	CDD/that period							
	A/(B+C)	1305.237408	gal / DD that period							
		gal/AF=	325851.4319		conversion factor					
	D	8821	long-term max DD		WRCC data 1985	385.5	=CDD	8435.5	=HDD	8821 total DD
	A/B x D	11513499.18	gal / max yr							
		198.578	convert gal to af							
		35.3	AF for 8 heating & cooling uses in max HDD yr with that yr's CDD							
		4.4167	or ~4.4 AF per heat pump unit							
		35.334	AF for 8 heat pumps							
reality check of system										
	WMIS	109	2008 vol (start & end date not known)							
45	7375	26.4	decreed							
45	7697	30.8	licensed							
45	13513	35.33	proposed							
		92.53	total volume							

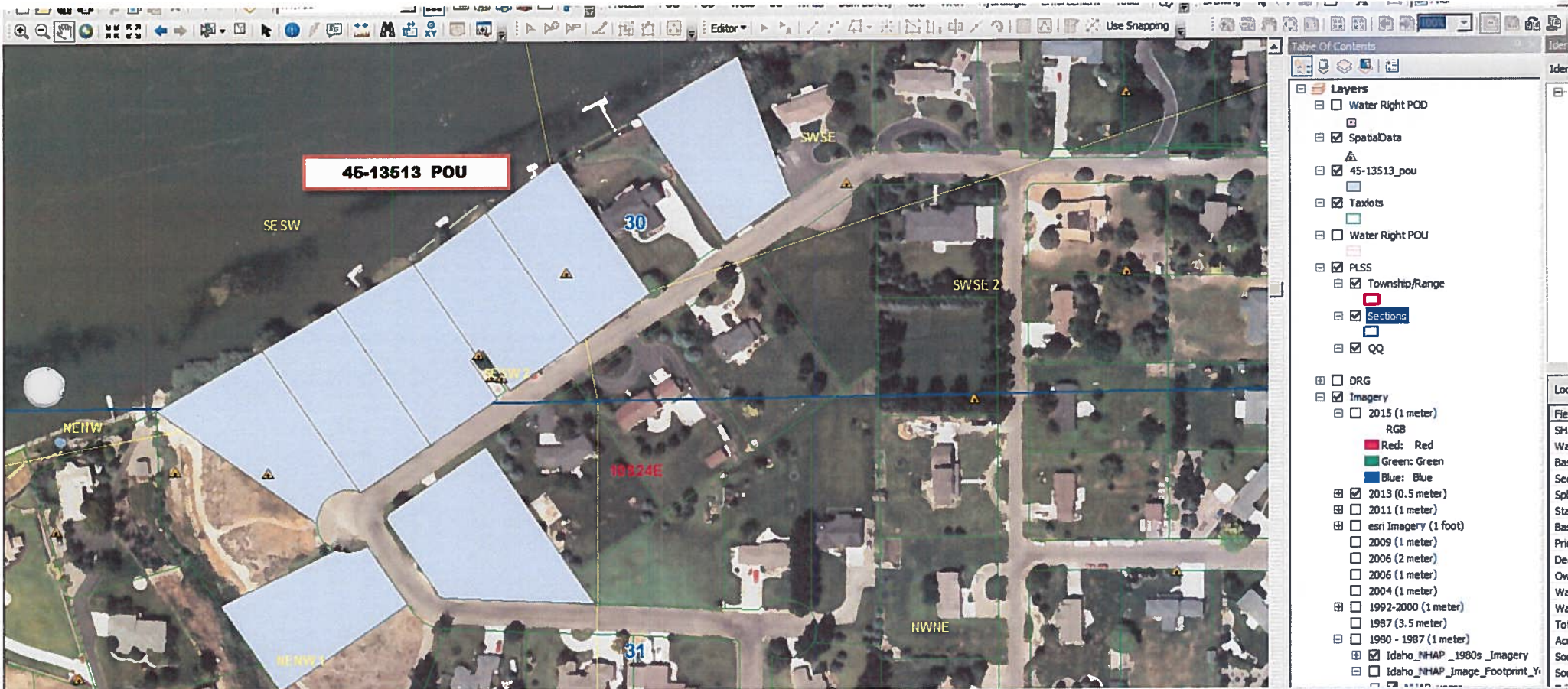


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45-13513_pou

OWNER	ADDRESS1	ADDRESS2	CITY	STATE	ZIPCODE	P_ADDRESS	P_ZIPCODE	SUB_NAME	LEGAL1	LEGAL2	LEGAL3	LEGAL4	LEGAL5	LEGAL6	ACRES	COU
ERSEN, ALAN H, ETUX TRSTE	488 RIVERSIDE DRIVE		BURLE	ID	83318	488 RIVERSIDE DR	83318	SPRINGDALE ACRES SUB	SPRINGDALE ACRES SUB	LOT 10 BLK 1					0.8	Cass
ERT, JERRY E	482 RIVERSIDE DR		BURLE	ID	83318	492 RIVERSIDE DR	83318	SPRINGDALE ACRES SUB	SPRINGDALE ACRES SUB .80 RF	LOT 8 BLK 1					0.9	Cass
STONE, RANDOLPH C, ETUX	494 RIVERSIDE DRIVE		BURLE	ID	83318	494 E RIVERSIDE DR	83318	SPRINGDALE ACRES SUB	SPRINGDALE ACRES SUB .83 RF	LOT 7 BLK 1					0.8	Cass
LYNCH, SCOTT B	P.O. BOX 790		BURLE	ID	83318	496 RIVERSIDE DR	83318	SPRINGDALE ACRES SUB	SPRINGDALE ACRES SUB	LOT 6 BLK 1					0.8	Cass
STOKES, JOHN	498 RIVERSIDE DRIVE		BURLE	ID	83318	498 RIVERSIDE DR	83318	SPRINGDALE ACRES SUB	SPRINGDALE ACRES SUB .84 RF	LOT 5 BLK 1					0.8	Cass
HUSRIH, ABDUL, TRUSTEE	5800 BEECHWOOD ST		PARKE	TX	75002	500 E RIVERSIDE DR	83318	SPRINGDALE ACRES SUB	SPRINGDALE ACRES SUB .84 RF	LOT 4 BLK 1					0.8	Cass
ZARYBNISKY REV LIVING TRUST	504 RIVERSIDE DR		BURLE	ID	83318	504 RIVERSIDE DR	83318	SPRINGDALE ACRES SUB	SPRINGDALE ACRES .84 RF	LOT 2 BLK 1					0.9	Cass
KIRK, JEFFREY ALLEN	497 RIVERSIDE DRIVE		BURLE	ID	83318	497 RIVERSIDE DR	83318	SPRINGDALE ACRES SUB	SPRINGDALE ACRES SUB	LOT 5 BLK 2, T 5561 IN LOT 6	BLK 2				1	Cass

WR 45-13513 Heat pump meter readings									
Home Owner		Zarybnisky	Smith	Spelius	Christianson	Stone	Vegwert	White	Kirk
start	8/1/2003	37,030.00	142,940.00	74,440.00	153,600.00	144,630.00	71,340.00	64,940.00	38,480.00
end	8/1/2004	284,150.00	1,151,270.00	2,124,940.00	1,598,510.00	2,271,790.00	704,240.00	1,411,980.00	224,510.00
sum gal =	9,043,990.00	247,120.00	1,008,330.00	2,050,500.00	1,444,910.00	2,127,160.00	632,900.00	1,347,040.00	186,030.00
sum AF =	27.755	0.758	3.094	6.293	4.434	6.528	1.942	4.134	0.571
avg gal =	1,130,498.75								
avg AF=	3.469								
calculations by Michele D Edl 11/22/2017								325851.4319	gal/af

BURLEY MUNI AP, IDAHO**Monthly Total Cooling Degree Days****(101303)****Base Temperature = 65 F**

File last updated on Apr 4, 2013

*** Note *** Provisional Data *** After Year/Month 201303

a = 1 day missing, b = 2 days missing, c = 3 days, ..etc.,

z = 26 or more days missing, A = Accumulations present

Long-term means based on columns; thus, the monthly row may not
sum (or average) to the long-term annual value.

Months with 5 missing days or less use mean for missing day(s)

Individual Months not used for annual or monthly statistics if more than 5 days are missing.

Individual Years not used for annual statistics if any month in that year has more than 5 days missing.

YEAR (S)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1948	0.00 z	0.00 z	0.00 z	0.00 z	0.00 z	0.00 z	0.00 z	115.96 d	13.00	0.00	0.00	0.00	128.96
1949	0.00	0.00	0.00	0.00	0.00	43.50	137.50 i	174.00	35.00	0.00	0.00	0.00	252.50
1950	0.00	0.00	0.00	0.00	0.00	29.00	155.00	91.00	50.00	0.00	0.00	0.00	325.00
1951	0.00	0.00	0.00	0.00	5.00	18.50	243.50	129.50	7.50	0.00	0.00	0.00	404.00
1952	0.00	0.00	0.00	0.00	2.50	33.00	160.50	162.50	19.00	0.00	0.00	0.00	377.50
1953	0.00	0.00	0.00	0.00	0.00	8.00	240.00	146.50	39.50	0.00	0.00	0.00	434.00
1954	0.00	0.00	0.00	0.00	23.50	57.00	259.00	111.00	19.50	0.00	0.00	0.00	470.00
1955	0.00	0.00	0.00	0.00	0.00	47.50	182.00	218.50	39.00	0.00	0.00	0.00	487.00
1956	0.00	0.00	0.00	0.00	12.50	49.00	210.50	85.00	13.00	0.00	0.00	0.00	370.00
1957	0.00	0.00	0.00	0.00	0.50	66.50	199.50	132.50	16.00	0.00	0.00	0.00	415.00
1958	0.00	0.00	0.00	0.00	58.00	81.00	155.00	219.00	27.50	0.00	0.00	0.00	540.50
1959	0.00	0.00	0.00	0.00	3.50	117.00	233.00	123.00	33.00	0.00	0.00	0.00	509.50
1960	0.00	0.00	0.00	0.00	11.50	87.50	289.00	109.50	21.50	0.00	0.00 a	0.00	519.00
1961	0.00	0.00	0.00	0.00	15.00	134.00	219.00	234.00	0.50	0.00	0.00	0.00	602.50
1962	0.00	0.00	0.00	3.00	0.00	70.50	117.50	133.00	17.50	5.00	0.00	0.00	346.50
1963	0.00	0.00	0.00	0.00	4.00	13.00	114.50	125.50	42.50	2.00	0.00	0.00	301.50
1964	0.00	0.00	0.00	0.00	5.50	20.50	194.78 a	109.50	2.00	0.00 z	0.00	0.00	332.28
1965	0.00	0.00	0.00	0.00	1.50	18.00	117.00	72.00	0.00	1.50	0.00	0.00	210.00
1966	0.00	0.00	0.00	0.00	8.50	52.50	168.50	116.00	36.00	0.00	0.00	0.00	381.50
1967	0.00	0.00	0.00	0.00	6.00	37.50	249.00	205.50	46.00	0.00	0.00	0.00	544.00
1968	0.00	0.00	0.00	0.00	1.00	64.00	209.50	84.50	11.00	0.00	0.00	0.00	370.00
1969	0.00	0.00	0.00	0.50	15.50	43.50	184.00	171.50	27.00	0.00	0.00	0.00	442.00
1970	0.00	0.00	0.00	0.00	5.00	76.00	178.50	181.50	3.50	0.00	0.00	0.00	444.50
1971	0.00	0.00	0.00	0.00	1.00	27.50	166.00	208.50	6.50	0.00	0.00	0.00	409.50
1972	0.00	0.00	0.00	0.00	5.00	45.00	114.50	134.50	14.00	0.00	0.00	0.00	313.00
1973	0.00	0.00	0.00	0.00	9.00	85.50	176.00	146.00	16.50	4.00	0.00	0.00	437.00
1974	0.00	0.00	0.00	0.00	5.00	143.00	183.50	64.50	4.50	0.00	0.00	0.00	400.50
1975	0.00	0.00	0.00	0.00	0.00	23.50	245.00	43.50	5.00	2.50	0.00	0.00	319.50
1976	0.00	0.00	0.00	0.00	0.00	27.00	143.50	45.50	19.50	0.00	0.00	0.00	235.50

1977	0.00	0.00	0.00	0.00	0.50	105.00	138.00	163.00	22.50	0.00	0.00	0.00	429.00
1978	0.00	0.00	0.00	0.00	2.50	19.50	149.00	109.50	28.00	0.00	0.00	0.00	308.50
1979	0.00	0.00	0.00	0.00	5.00	85.50	183.00	119.00	36.50	0.00	0.00	0.00	429.00
1980	0.00	0.00	0.00	6.00	3.00	29.00	133.00	50.00	9.50	0.00	0.00	0.00	230.50
1981	0.00	0.00	0.00	0.00	1.00	46.00	203.00	255.00	36.50	0.00	0.00	0.00	541.50
1982	0.00	0.00	0.00	0.00	0.00	42.00	81.50	92.00	4.50	0.00	0.00	0.00	220.00
1983	0.00	0.00	0.00	0.00	9.00	9.00	58.00	156.50	10.50	0.00	0.00	0.00	243.00
1984	0.00 f	0.00	0.00	0.00	3.50	28.50	137.50	143.50	8.50	0.00	0.00	0.00	321.50
1985	0.00	0.00	0.00	0.00	4.00	46.50	275.00	60.00	0.00	0.00	0.00	0.00	385.50
1986	0.00	0.00	0.00	0.00	20.50	101.00	80.00	160.50	3.00	0.00	0.00	0.00	365.00
1987	0.00	0.00	0.00	3.00	22.50	82.50	146.00	119.00	35.00	0.00	0.00	0.00	408.00
1988	0.00	0.00	0.00	0.00	20.50	194.00	282.00	166.00	32.50	1.00	0.00	0.00	696.00
1989	0.00	0.00	0.00	0.00	7.00	76.00	297.00	130.50	26.50	0.00	0.00	0.00	537.00
1990	0.00	0.00	0.00	1.00	0.00	106.00	249.50	160.50	112.00	1.50	0.00	0.00	630.50
1991	0.00	0.00	0.00	0.00	0.00	32.50	260.50	265.00	43.50	2.50	0.00	0.00	604.00
1992	0.00	0.00	0.00	1.00	32.50	124.50	161.50	220.00	29.50	9.50	0.00	0.00	578.50
1993	0.00	0.00	0.00	0.00	46.50	45.00	48.00	121.50	30.00	0.50	0.00	0.00	291.50
1994	0.00	0.00 a	0.00	13.50	21.70 a	168.00	289.50	292.00	49.00	0.00	0.00	0.00	833.70
1995	0.00	0.00	0.00 a	0.00	0.50	50.00	195.00	208.00	58.50	3.00	0.00	0.00	515.00
1996	0.00	0.00	0.00	0.00	1.00	93.00	262.00	198.00	31.50	1.00	0.00	0.00	586.50
1997	0.00	0.00	0.00	0.00	30.00	57.00	180.50	243.50	98.50	10.50	0.00	0.00	620.00
1998	0.00	0.00	0.00	0.00	0.00	16.00	319.50	256.50	116.50	0.00	0.00	0.00	708.50
1999	0.00	0.00	0.00	0.00	26.00	106.00	234.50	270.50	27.50	0.00	0.00	0.00	664.50
2000	0.00	0.00 z	0.00	0.00	17.00	91.00	299.00	295.00	21.00	0.00	0.00	0.00	723.00
2001	0.00	0.00	0.00	0.00	13.00	55.50	142.00	176.00	36.00	0.00	0.00	0.00	422.50
2002	0.00	0.00	0.00	0.00	17.50	82.50	239.00	37.50	18.00	0.00	0.00	0.00	394.50
2003	0.00	0.00	0.00	0.00	33.00	41.50	248.50	192.00	24.50	1.00	0.00	0.00	540.50
2004	0.00	0.00	0.00	0.00	2.50	35.50	138.50	87.50	5.50	0.00	0.00	0.00	269.50
2005	0.00	0.00	0.00	0.00	0.00	21.00	183.50	122.00	10.50	0.00	0.00	0.00	337.00
2006	0.00	0.00	0.00	0.00	13.00	54.00	261.00	100.00	16.50	0.00	0.00	0.00	444.50
2007	0.00	0.00	0.00	0.00	4.50	62.00	294.00	138.50	31.50	0.00	0.00	0.00	530.50
2008	0.00	0.00	0.00	0.00	3.00	50.50	148.50	122.00	1.50	0.00	0.00	0.00	325.50
2009	0.00	0.00	0.00	0.00	15.00	29.50	183.00	110.00	29.50	0.00	0.00	0.00 b	367.00
2010	0.00	0.00	0.00	0.00	0.00	33.50	140.00	126.50	2.00	4.50	0.00	0.00	306.50
2011	0.00	0.00	0.00	0.00	0.00	25.00	146.50	182.50	12.00	5.50	0.00	0.00	371.50
2012	0.00	0.00	0.00	2.50	0.50	46.50	273.50	192.00	9.00	0.00	0.00	0.00	524.00
2013	0.00	0.00	0.00	0.00 z	0.00 z	0.00 z	0.00 z	0.00 z	0.00 z	0.00 z	0.00 z	0.00 z	0.00

Period of Record Statistics

MEAN	0.00	0.00	0.00	0.48	8.99	59.52	193.15	149.77	25.43	0.87	0.00	0.00	437.80
S.D.	0.00	0.00	0.00	1.91	11.92	39.01	64.07	62.29	23.47	2.10	0.00	0.00	132.93
SKEW	0.00	0.00	0.00	5.52	1.95	1.23	-0.04	0.43	2.07	3.08	0.00	0.00	0.55
MAX	0.00	0.00	0.00	13.50	58.00	194.00	319.50	295.00	116.50	10.50	0.00	0.00	833.70
MIN	0.00	0.00	0.00	0.00	0.00	8.00	48.00	37.50	0.00	0.00	0.00	0.00	210.00
NO YRS	64	64	65	64	64	64	63	65	65	64	65	65	60

BURLEY MUNI AP, IDAHO**Monthly Total Heating Degree Days****(101303)****Base Temperature = 65 F**

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YEAR (S)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1948	0.00z	0.00z	0.00z	0.00z	0.00z	0.00z	0.00z	37.31d	235.00	507.50	897.50	1332.00	3009.31
1949	1896.00	1088.00	813.00	448.00	223.50	113.50	5.00i	0.50	115.50	661.00	650.00	1115.00	7124.00
1950	1304.50	905.50	847.00	629.50	408.00	172.00	15.00	22.50	227.50	374.00	739.00	929.50	6574.00
1951	1226.50	862.00	958.00	531.00	315.00	181.00	7.50	49.00	166.50	610.00	877.50	1258.00	7042.00
1952	1302.50	1152.00	998.00	477.50	265.00	128.50	11.00	11.00	108.00	380.00	1085.00	1056.50	6975.00
1953	813.50	865.00	782.50	625.50	482.00	186.50	0.50	18.00	100.50	436.50	662.00	1077.00	6049.50
1954	1021.50	756.50	928.00	528.50	236.50	211.00	16.00	54.50	199.50	546.50	707.00	1196.00	6401.50
1955	1360.00	1108.50	1003.50	694.50	417.50	133.00	48.00	0.00	243.00	463.00	959.00	1009.00	7439.00
1956	1068.50	1213.00	819.00	538.00	278.50	110.50	16.00	54.00	148.00	547.50	931.50	1073.50	6798.00
1957	1370.00	892.50	778.00	574.50	290.00	108.00	2.50	11.50	161.50	537.50	945.50	992.50	6664.00
1958	1168.00	730.00	866.50	639.00	179.50	106.00	13.50	3.50	210.50	416.50	829.50	888.50	6051.00
1959	1017.00	881.00	836.50	509.00	469.50	72.00	15.50	29.50	262.50	514.00	852.50	1136.50	6595.50
1960	1342.50	1060.50	730.50	517.50	353.50	46.00	0.00	98.50	139.00	561.50	832.24a	1215.00	6896.74
1961	1169.50	859.50	823.00	599.50	307.00	35.00	1.50	0.00	345.50	614.00	923.50	1163.50	6841.50
1962	1454.00	1032.50	983.50	475.00	469.50	125.00	22.50	45.00	120.50	421.00	752.50	1057.50	6958.50
1963	1385.00	668.50	777.50	613.50	247.50	211.50	6.50	27.50	71.00	346.50	767.00	1223.50	6345.50
1964	1296.50	1207.50	1017.00	665.00	368.00	210.00	4.65a	86.00	274.50	0.00z	892.00	1045.00	7066.15
1965	1078.50	885.50	949.00	499.50	438.50	142.50	20.50	72.50	362.00	423.00	666.50	1173.50	6711.50
1966	1104.00	964.00	806.00	576.00	231.50	139.00	11.50	26.00	127.00	566.00	728.00	1122.50	6401.50
1967	944.50	783.00	787.50	715.50	321.50	155.50	0.00	3.00	104.00	510.00	801.50	1258.00	6384.00
1968	1178.50	826.00	721.50	649.50	340.50	123.50	5.00	140.00	238.50	540.50	857.00	1124.50	6745.00
1969	1067.00	991.00	924.00	520.00	205.00	129.00	16.50	28.50	128.00	677.50	841.00	1077.00	6604.50
1970	1026.00	749.50	858.00	728.50	332.00	142.50	6.00	4.00	339.50	652.00	804.00	1131.50	6773.50
1971	1063.00	912.00	880.00	620.50	328.00	166.50	29.50	11.50	321.50	629.50	862.00	1221.50	7045.50
1972	1199.00	957.50	665.00	608.50	304.50	68.00	24.50	11.50	304.50	523.00	892.50	1317.00	6875.50
1973	1263.50	923.00	858.50	596.00	278.50	139.00	9.00	23.50	212.50	487.00	825.00	995.00	6610.50
1974	1281.50	886.00	754.00	564.00	358.00	69.00	20.00	44.50	174.00	513.00	786.00	1138.00	6588.00
1975	1237.50	960.50	873.00	748.00	460.00	140.00	16.50	78.50	213.50	526.50	939.00	986.50	7179.50
1976	1128.50	970.00	982.00	600.00	257.00	175.50	12.00	65.50	162.50	551.50	816.50	1103.50	6824.50
1977	1318.50	893.50	900.00	435.00	427.50	26.50	11.00	45.50	222.50	475.00	844.50	958.50	6558.00
1978	976.50	850.50	652.00	566.50	419.50	123.00	24.50	69.00	246.00	475.50	951.00	1277.50	6631.50
1979	1587.00	934.00	782.50	554.00	275.00	121.50	2.50	15.50	71.50	432.00	1007.00	995.50	6778.00
1980	1223.50	816.00	811.50	465.00	341.00	170.50	3.00	60.00	163.00	528.00	841.50	960.00	6383.00
1981	1034.50	856.00	734.50	472.50	344.50	100.00	16.00	7.00	140.00	555.00	737.50	969.50	5967.00

1982	1319.00	1084.00	789.00	644.50	344.00	113.50	58.50	21.00	243.00	615.50	962.50	1206.00	7400.50
1983	1022.00	826.00	775.50	702.50	434.00	172.50	103.50	4.00	232.50	495.50	818.00	1298.00	6884.00
1984	992.00 f	1181.50	838.50	663.00	379.00	220.50	12.00	17.50	267.50	660.00	873.00	1332.00	6444.50
1985	1562.00	1235.50	1113.50	461.00	298.00	91.50	0.00	49.50	357.50	574.00	1142.00	1551.00	8435.50 Max
1986	1074.50	752.00	573.00	568.50	363.50	44.00	38.00	7.00	341.00	500.00	812.50	1150.50	6224.50
1987	1269.50	834.00	748.00	341.00	215.50	65.50	31.50	28.50	117.50	378.00	759.00	1122.50	5910.50
1988	1169.00	818.50	770.50	415.00	316.50	51.50	6.00	3.00	198.00	245.00	812.50	1190.00	5995.50
1989	1248.00	1117.50	743.00	397.00	287.00	59.50	0.00	46.00	128.50	504.00	763.50	1052.00	6346.00
1990	1055.50	925.00	669.00	350.50	324.00	105.00	6.00	20.50	25.50	462.50	746.00	1438.00	6127.50
1991	1210.50	682.50	773.00	580.00	369.00	101.50	0.00	0.00	114.00	454.00	881.50	1053.00	6219.00
1992	1051.00	691.50	553.50	362.00	108.50	75.00	12.00	46.00	148.50	348.00	969.00	1230.50	5595.50
1993	1350.50	1140.50	771.50	562.00	158.50	167.50	61.50	32.00	151.00	414.00	960.50	1040.50	6810.00
1994	922.00	878.89 a	631.50	414.00	128.13 a	57.00	8.00	1.00	66.00	482.50	1002.50	1090.00	5681.52
1995	980.00	679.00	699.05 a	530.00	305.00	147.50	11.00	12.00	116.00	468.50	618.00	964.50	5530.55
1996	1067.50	949.50	670.00	491.00	334.50	39.50	0.00	15.50	190.00	477.00	739.50	991.00	5965.00
1997	1049.50	848.50	665.50	567.50	167.00	45.50	22.50	0.00	107.50	499.00	765.00	1152.50	5890.00
1998	881.00	804.50	753.00	525.50	324.50	157.50	0.00	0.50	79.50	489.50	695.00	1131.00	5841.50
1999	960.50	821.00	706.00	588.50	327.50	95.50	5.00	10.00	124.50	369.00	576.00	1071.50	5655.00
2000	974.50	0.00 z	728.50	340.50	195.50	36.00	0.00	0.50	213.50	446.00	1114.00	1169.00	5218.00
2001	1307.50	998.00	704.50	582.00	240.00	132.50	10.50	0.50	120.00	470.00	735.00	1231.50	6532.00
2002	1188.50	1100.50	885.50	520.50	342.50	112.00	0.00	51.50	191.00	638.50	823.50	983.00	6837.00
2003	909.50	943.00	712.00	604.00	345.00	99.50	0.00	4.00	196.50	384.00	943.00	972.50	6113.00
2004	1287.50	1124.50	636.50	493.50	342.50	104.50	6.50	54.00	223.00	482.50	890.50	1028.50	6674.00
2005	1232.00	976.50	744.50	568.50	323.50	211.50	2.50	37.00	238.00	491.00	853.00	1226.00	6904.00
2006	996.50	991.50	871.50	528.00	279.00	57.50	0.00	38.00	245.00	576.50	790.00	1142.00	6515.50
2007	1292.00	810.00	677.50	514.50	266.00	96.50	0.00	10.00	235.00	566.00	819.50	1159.00	6446.00
2008	1272.00	993.00	897.50	702.50	372.50	166.50	4.00	22.00	204.00	550.50	709.50	1183.50	7077.50
2009	1121.50	946.00	842.00	588.00	291.50	144.00	13.00	51.50	120.50	630.00	861.50	1284.36 b	6893.86
2010	1026.50	914.50	800.50	604.00	512.00	142.00	24.50	55.50	154.50	434.00	899.50	990.50	6558.00
2011	1142.50	974.00	788.00	683.00	455.50	182.50	4.50	2.00	81.00	472.00	903.50	1184.50	6873.00
2012	1018.50	916.00	686.50	457.50	331.00	125.50	0.00	2.00	97.00	485.00	689.00	1054.50	5862.50
2013	1504.00	907.00	731.50	18.00 z	0.00 z	0.00 z	0.00 z	0.00 z	0.00 z	0.00 z	0.00 z	47.50 z	3142.50

Period of Record Statistics

MEAN	1177.69	926.64	797.69	552.10	319.59	120.34	13.49	29.18	184.40	501.00	837.40	1126.94	6541.52
S.D.	189.99	137.54	111.89	96.41	87.14	50.30	17.69	28.36	79.19	87.28	113.60	126.81	511.51
SKEW	0.93	0.33	0.37	-0.24	-0.10	0.02	2.81	1.32	0.44	-0.16	0.27	0.68	0.51
MAX	1896.00	1235.50	1113.50	748.00	512.00	220.50	103.50	140.00	362.00	677.50	1142.00	1551.00	8435.50
MIN	813.50	668.50	553.50	340.50	108.50	26.50	0.00	0.00	25.50	245.00	576.00	888.50	5530.55
NO YRS	64	64	65	64	64	64	63	65	65	64	65	65	60

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Burley, ID 🏠

Burley Municipal

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Weather History for KBYI - August, 2003

From:

August

1

2003

To:

August

1

2004

Get History

Daily	Weekly	Monthly	Custom				
				Max	Avg	Min	Sum
Temperature							
Max Temperature				99 °F	60 °F	17 °F	
Mean Temperature				80 °F	48 °F	8 °F	
Min Temperature				64 °F	37 °F	-4 °F	
Degree Days							
Heating Degree Days (base 65)				58	18	0	6518
Cooling Degree Days (base 65)				15	1	0	411
Growing Degree Days (base 50)				30	6	0	2353
Dew Point							
Dew Point				67 °F	34 °F	-9 °F	
Precipitation							
Precipitation				0.66 in	0.02 in	0.00 in	9.14 in
Snowdepth							
Wind							
Wind				38 mph	8 mph	0 mph	
Gust Wind				51 mph	24 mph	16 mph	
Sea Level Pressure							
Sea Level Pressure				30.68 in	30.02 in	29.39 in	

Custom Weather History Graph

Idaho Department of Water Resources

WMIS

Water Management Information System

Quick Search:

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Search Method:

WMIS Number

WMIS Number

401770

[Point Of Diversion](#)
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[Flow Meter](#)
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[Alternate](#)
[Contacts](#)
[Data Summary](#)
[Other](#)
[Logout](#)
Flow Meter Calibrations

You are viewing 401770; A0007817

Calibration Date/Time:		06/27/2012	Factor:		1.01		
Installed Meter Data:			Standard Meter Data:				
Installed Meter Flow:	48.20	Standard Meter Flow:	48.60				
Rate Unit:	GPM	Rate Unit:	GPM				
Rate Multiplier:	1.0000	Pipe Material:	PVC				
Volume Multiplier:	100.0000	Outside Diameter (inches):	4.54				
Volume Unit:	GAL	Wall Thickness (inches):	0.36				
Location:		Downstream Distance (feet):					
Comments:	Difficult to be consistent with time because totalizer is moving so slow.						
	Upstream Distance (feet):						
	Calibration Confidence:						
	EXCL						
Installed Meter Information:							
Manufacturer:	MCCROMETER	Installation Date:					
Model Number:		Serial Number:					
Meter Type:		Other Well:	A0007816				
Calibration Date/Time:		10/11/2001	Factor:		1.00		
Installed Meter Data:			Standard Meter Data:				
Installed Meter Flow:	56.10	Standard Meter Flow:	55.90				
Rate Unit:	GPM	Rate Unit:	GPM				
Rate Multiplier:	1.0000	Pipe Material:	PVC				
Volume Multiplier:	100.0000	Outside Diameter (inches):	4.50				
Volume Unit:	GAL	Wall Thickness (inches):	0.25				
Location:	GOOD	Downstream Distance (feet):	10.00				
Comments:							
	Upstream Distance (feet):						
	Calibration Confidence:						
	EXCL						
Installed Meter Information:							
Manufacturer:	MCCROMETER	Installation Date:					
Model Number:		Serial Number:	978151				
Meter Type:	PROPELLER	Other Well:	METER READINGS HERE				
Calibration Date/Time:		07/16/1998	Factor:		1.04		
Installed Meter Data:			Standard Meter Data:				
Installed Meter Flow:		Standard Meter Flow:					
Rate Unit:	GPM	Rate Unit:					
Rate Multiplier:	1.0000	Pipe Material:					