

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12399

Exam Date: Oct. 15, 2014

1. Current Owner: J R SIMPLOT CO
C/O TERRY UHLING
999 MAIN ST STE 1300
BOISE ID 83707
(208)336-2110

2. Accompanied by: Vic Conrad
Phone No: (208) 389-7359
Address: PO Box 27; Boise, ID 83707
Relationship to Permit Holder: JR Simplot Representative

Accompanied by: Larry Woodington

Phone No: (208) 368-1152

Address: 8000 S. Federal Way; PO Box 6; Boise, ID 83707

Relationship to Permit Holder: Micron Representative (Pump Station Attendant)

Accompanied by: Merlyn Ferrar (Irrigation Management Co. for Columbia Village)

Phone No: (208) 570-2895

- | 3. <u>SOURCE</u> | <u>TRIBUTARY</u> |
|------------------|------------------|
| BOISE RIVER | SNAKE RIVER |

B. OVERLAP REVIEW

1. Other water rights with the same place of use: United Water Idaho (many rights), Boise Valley Irrigation Ditch Company (63-31832; 63-147B; 63-2360; 63-3198; 63-147D; 63-31883).
2. Other water rights with the same point of diversion: Nampa & Meridian Irrigation District (63-198AJ; 63-199B; 63-200B; 63-30181; 63-198Q), Surprise Valley HOA (63-161BN), United Water Idaho (63-31871; Permit 63-31409), Micron Technology (Permit 63-12420)

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

BOISE RIVER L6 NW1/4NE1/4 Sec. 4, Twp 02N, Rge 03E, B.M. ADA County

Method of Determination: GPS and Visual Inspection

2. PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
02N	02E	1	3.1 L 1															3.1	
02N	03E	4					0.7 L 4											0.7	
02N	03E	5	0.9 L 1	1.0 L 2														1.9	
02N	03E	6		8.5 L 2		13.0 L 3	9.6 L 4	0.1 L 5	0.8									32.0	
03N	02E	36															1.3	1.3	
03N	03E	31				0.1				12.0	10.0 L 3	23.0 L 4	35.0	4.6	3.2	23.0	2.2	113.1	
03N	03E	32						0.9		2.5	4.5	1.5	2.4		1.0	3.8	1.4	18.0	
Total Acres:			170.1																

Method of Determination: Visual Inspection and GIS

3. Yes Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- Yes Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- Yes Aerial Photo Attached (required for irrigation of 10+ acres).
- Yes Photo of Diversion and System Attached

4.

Well or Diversion Identification No.	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Pump A	US Electrical Motors	200	A07-A3040406-GT	Vertiline	8G7-04960
Pump B	US Electrical Motors	200	A04-A3040419-GT	Vertiline	8G7-04961
Pump C	US Electrical Motors	400	9338-A07A112R002M-2	Vertiline	8G7-04932-2
Pump D	US Electrical Motors	400	9338-A07A112R002M-2	Vertiline	8G7-04932-1

D. FLOW MEASUREMENTS

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calibration Date
Pump Stn. Flow Meter	magnetic	Marsh Multi-Mag	284	MS070125	30 inch	Weekly
Columbia Village diversion #1	magnetic	Marsh Multi-Mag	not accessible	not accessible		unknown
Columbia Village diversion #2	propeller	McCrometer	MT	not accessible	8 inch	unknown
Recharge Well Flow Meter	ultrasonic	Poly-sonics	DCT-1088	47948		Weekly

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method:

Irrigation Maximum Allowable: (170.1 acres irrigated) x (0.02 allowable cfs per acre) = 3.40 allowable cfs

Measurement by flow measurement device (Diversion 1): Not Available at Field Exam

Measurement by flow measurement device (Diversion 2): Observed at 165 gpm, or 0.37 cfs

Maximum Calculated from Measurement Records (Instantaneous) = 7.18 cfs

Average Calculated from Measurement Records = 1.37 cfs

Permit Allowed = 15.00 cfs

IRRIGATION: License recommended for 3.40 cfs. The pump system's flow measurement device shows that the owner's system is capable of producing more than 15.00 cfs with all pumps running at their design speeds. The manufacturer's pump curve was used to confirm. Because the irrigated land is approximately 170 acres, the flow rate is reduced to 3.40 cfs.

GROUND WATER RECHARGE: If this type of Ground Water Recharge development were allowed, I would recommend the License for 0.17 cfs. This value represents 5% of Micron's Ground Water Recharge diversion rate associated with 63-12420. In order to utilize any amount of this, Simplot would be required to establish a subsequent use agreement with Micron Technology.

After consulting with the Water Rights Permits Section Manager, Water Allocations Bureau Chief, and the Deputy Director, the unanimous decision was that Simplot did not develop Ground Water Recharge as a beneficial use; (Micron developed this beneficial use). Therefore, the Ground Water Recharge beneficial use cannot be licensed to 63-12399.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{N/A}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \text{N/A}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \text{N/A for irrigation from stream/river}$$

2. Volume Calculations for Other Uses: Ground Water Recharge

In early 2001, Micron and Simplot entered into an agreement in which Simplot allowed a pipeline easement in exchange for the right to claim 5% of Micron's annual recharge for a period of 5 years.

The following ground water recharge summary was provided to me by Vic Conrad via email on October 23, 2014. I have verified these values with other compliance data reported directly to IDWR by Micron Technology; the variance between the values below and the compliance data submitted in association with Microns 63-31183 is 0.05%. I would attribute the difference to numeric truncation.

JR Simplot Co 5% Credit from Micron Technology Inc Groundwater Recharge			
5 Year Term Commencing April 17, 2001 through April 16, 2006			
Date	Micron Total (GAL)	JR Simplot 5%	JR Simplot Annual Cumulative Total
2001	127,906,224	6,395,311	6,395,311
2002	148,711,175	7,435,559	13,830,870
2003	255,809,155	12,790,458	26,621,328
2004	198,143,864	9,907,193	36,528,521
2005	136,103,648	6,805,182	43,333,703
2006	62,130,042	3,106,502	46,440,205

It is assumed that the water beneficially used for Ground Water Recharge is equal to the volume of water recharged. If this type of development were considered permissible, then Simplot's volume limit for Ground Water Recharge would be 142.5 AFA.

I was not able to obtain acknowledgement of this agreement's existence from Micron. In addition, IDWR does not consider this proof that JR Simplot Company developed Ground Water Recharge as a beneficial use; all ground water recharge infrastructure was built, owned and operated by Micron Technology. **Therefore, the Ground Water Recharge beneficial use cannot be licensed to 63-12399.**

G. NARRATIVE/REMARKS/COMMENTS

At 8:00 AM on October 15, 2014, Dan Nelson and I met Vic Conrad, a Simplot employee and water right representative on the northerly side of the New York Canal, where the Canal crosses under Healey Road, which soon turns into Amity Road. Soon after, a gentleman named Larry Woodington from Micron arrived to allow us access down the canal road, to the pump station. Located just north of State Highway 21 bridge, which crosses the Boise River, the pump station is shared by JR Simplot Company, Micron Technology and United Water. Each of these corporations has various agreements with nearby water users to supply them with a portion of the River water pumped. This report and field examination focuses on JR Simplot's use pursuant to WR 63-12399.

At the pump station, our discussions centered on Simplot's pumping facilities—two 200 horsepower pumps and two 400 horsepower pumps. During our visit, all pumps were on, with the exception of one 400 horsepower pump. We viewed the rotating bar screen, the wetwell, the intake from the Boise River, and the top of the 30-inch transporter pipe from the pump station to the water users. The system does not use boosters at the top of the bench. The pumps are intended to maintain 185 lbs of pressure at the Boise River, in order to arrive at the Micron campus with 40 to 50 lbs of pressure. The pumps pump from a low elevation of 2781 feet to a high point of 3071 feet, and elevation head of 290 feet.

We learned that Simplot's irrigation water is used at the JR Simplot Sports Complex in Columbia Village Subdivision, and it is also used to irrigate a few small parks, as well as much of the roadside landscaping throughout the Subdivision. On our way the next point of interest (the Columbia Village diversion points from the main transport pipe), we passed the Surprise Valley diversion, pointed out Vic and Larry. We did not stop here, as Simplot water is not used in Surprise Valley Subdivision.

There are two diversions to Columbia Village Subdivision from the main 30" supply line. Vic and Larry directed Dan and I to each of these—both at various locations along State Highway 21. At the first diversion, I did not have access to the flow meter output, but I was able to read the flow meter at the second diversion station. During the time between viewing each of the Columbia Village diversions, we also drove past the secondary diversion stations to each of the community schools (Boise School District; Trail Wind Elementary and Les Bois Junior High School); these sites are not supplied with Simplot water.

After this, Larry led us to the injection well on the Micron campus, which was suspected shared by Micron and JR Simplot for a period of 5 years. Vic claimed to vaguely remember the terms of the agreement between Micron Technology and JR Simplot, which exchanged a pipeline easement for filtration and injection of some of Simplot's river water supply. Vic requested more time to look into this, in order to find out how much volume Micron had injected on behalf of Simplot during the permit development period of 63-12399.

Later in the day, at 2 PM, Dan and I met a gentleman named Merlyn Ferrar—the contractor hired to run Columbia Village's irrigation system. In our brief meeting, he helped Dan and I to map out which portion of the subdivision receive JR Simplot water supply. This meeting ended our field exam for permit 63-12399.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	3/15 to 11/15	3.40 CFS	

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☒ Change P.U. as reflected above ☒ Add P.U. as reflected above ☐ Other

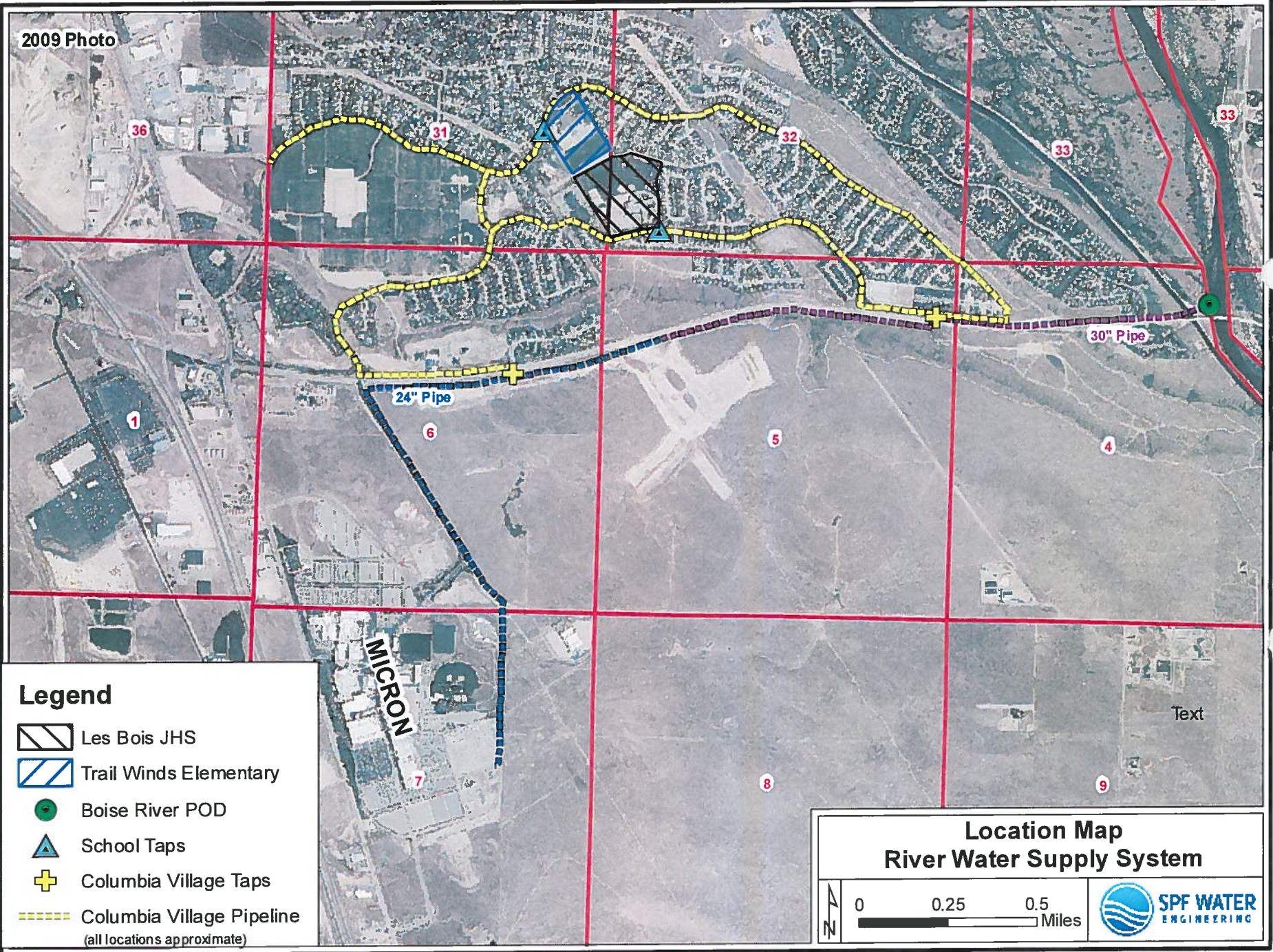
I. AUTHENTICATION

Ashley Newbry, Engineer Associate

Field Examiner's Name Ashley Newbry Date 11/4/2014

Reviewer _____ Date _____

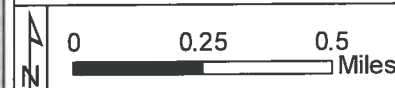
2009 Photo



Legend

-  Les Bois JHS
-  Trail Winds Elementary
-  Boise River POD
-  School Taps
-  Columbia Village Taps
-  Columbia Village Pipeline
(all locations approximate)

Location Map River Water Supply System



Columbia Village Calculated Flows and Volumes

DATA GIVEN	Daily Volume Pumped (MG)	CALC'D: Columbia Village Volume (GAL)	CALC'D: Columbia Village % of Total	Average Flow Rate (CFS)	CALC'D: Average Columbia Village Flow Rate (CFS)
5/31/2000	2.118	1,007,508.33	48%	3.14	1.49
6/1/2000	1.977	1,007,508.33	51%	3.15	1.61
6/2/2000	1.827	1,007,508.33	55%	2.85	1.57
6/3/2000	2.062	1,007,508.33	49%	3.17	1.55
6/4/2000	2.076	1,007,508.33	49%	3.21	1.56
6/5/2000	2.189	1,007,508.33	46%	3.57	1.64
6/6/2000	1.621	1,248,570.00	77%	2.41	1.86
6/7/2000	2.296	1,248,570.00	54%	3.6	1.96
6/8/2000	2.341	1,248,570.00	53%	3.55	1.89
6/9/2000	2.168	1,248,570.00	58%	3.37	1.94
6/10/2000	2.16	1,248,570.00	58%	3.32	1.92
6/11/2000	2.986	1,248,570.00	42%	4.62	1.93
6/6/2003	3.884			5.7	
6/7/2003	4.403			5.77	
6/8/2003	3.178			6	
6/9/2003	3.178			4.85	
6/10/2003	3.569	1,253,281.67	35%	5.6	1.97
6/11/2003	4.205	1,253,281.67	30%	5.23	1.56
6/12/2003	2.177	1,253,281.67	58%	4.35	2.50
1/20/2006	CV system off				
1/21/2006	CV system off				
1/22/2006	CV system off				
1/23/2006	CV system off				
1/24/2006	CV system off				
1/25/2006	CV system off				
1/26/2006	CV system off				
1/27/2006	CV system off				
1/28/2006	CV system off				
1/29/2006	CV system off				
1/30/2006	CV system off				
1/31/2006	CV system off				
2/1/2006	CV system off				
2/2/2006	CV system off				
2/3/2006	CV system off				
2/4/2006	CV system off				
2/5/2006	CV system off				
2/6/2006	CV system off				
2/7/2006	CV system off				
2/8/2006	CV system off				
2/9/2006	CV system off				
2/10/2006	CV system off				
2/11/2006	CV system off				
2/12/2006	CV system off				
2/13/2006	CV system off				
2/14/2006	CV system off				
2/15/2006	CV system off				
2/16/2006	CV system off				

2/17/2006	CV system off				
2/18/2006	CV system off				
2/19/2006	CV system off				
2/20/2006	CV system off				
2/21/2006	CV system off				
2/22/2006	CV system off				
2/23/2006	CV system off				
2/24/2006	CV system off				
2/25/2006	CV system off				
2/26/2006	CV system off				
2/27/2006	CV system off				
2/28/2006	CV system off				
3/1/2006	CV system off				
3/2/2006	CV system off				
3/3/2006	CV system off				
3/4/2006	CV system off				
3/5/2006	CV system off				
3/6/2006	CV system off				
3/7/2006	CV system off				
3/8/2006	CV system off				
3/9/2006	CV system off				
3/10/2006	CV system off				
3/11/2006	CV system off				
3/12/2006	CV system off				
3/13/2006	CV system off				
3/14/2006	CV system off				
3/15/2006	CV system off				
3/16/2006	CV system off				
3/17/2006	CV system off				
3/18/2006	CV system off				
3/19/2006	CV system off				
3/20/2006	CV system off				
3/21/2006	CV system off				
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3/24/2006	CV system off				
3/25/2006	CV system off				
3/26/2006	CV system off				
3/27/2006	CV system off				
3/28/2006	CV system off				
3/29/2006	CV system off				
3/30/2006	CV system off				
3/31/2006	CV system off				
4/1/2006	CV system off				
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4/3/2006	CV system off				
4/4/2006	CV system off				
4/5/2006	CV system off				
4/6/2006	CV system off				
4/7/2006	CV system off				

4/8/2006	CV system off				
4/9/2006	CV system off				
4/10/2006	CV system off				
4/11/2006	CV system off				
4/12/2006	CV system off				
4/13/2006	CV system off				
4/14/2006	1.3	63,914.29	5%	2.01	0.10
4/15/2006	1.643	63,914.29	4%	2.54	0.10
4/16/2006	1.256	63,914.29	5%	1.94	0.10
4/17/2006	1.256	63,914.29	5%	1.94	0.10
4/18/2006	1.256	63,914.29	5%	1.94	0.10
4/19/2006	1.143	63,914.29	6%	1.77	0.10
4/20/2006	1.143	63,914.29	6%	1.77	0.10
4/21/2006	0.956	62,806.14	7%	1.48	0.10
4/22/2006	1.28	62,806.14	5%	1.98	0.10
4/23/2006	1.206	62,806.14	5%	1.87	0.10
4/24/2006	1.206	62,806.14	5%	1.87	0.10
4/25/2006	1.206	62,806.14	5%	1.87	0.10
4/26/2006	1.227	62,806.14	5%	1.9	0.10
4/27/2006	4.227	62,806.14	1%	1.9	0.03
4/28/2006	1.227	336,081.00	27%	1.9	0.52
4/29/2006	2.053	336,081.00	16%	3.18	0.52
4/30/2006	1.826	336,081.00	18%	2.83	0.52
5/1/2006	1.826	336,081.00	18%	2.83	0.52
5/2/2006	1.826	336,081.00	18%	2.83	0.52
5/3/2006	2.516	336,081.00	13%	3.89	0.52
5/4/2006	2.516	336,081.00	13%	3.89	0.52
5/5/2006	2.792	900,684.29	32%	4.32	1.39
5/6/2006	3.401	900,684.29	26%	5.26	1.39
5/7/2006	2.303	900,684.29	39%	3.56	1.39
5/8/2006	2.303	900,684.29	39%	3.56	1.39
5/9/2006	2.303	900,684.29	39%	3.56	1.39
5/10/2006	2.273	900,684.29	40%	3.52	1.39
5/11/2006	2.273	900,684.29	40%	3.52	1.39
5/12/2006	2.523	795,351.43	32%	3.9	1.23
5/13/2006	2.758	795,351.43	29%	4.27	1.23
5/14/2006	2.672	795,351.43	30%	4.13	1.23
5/15/2006	2.672	795,351.43	30%	4.13	1.23
5/16/2006	2.672	795,351.43	30%	4.13	1.23
5/17/2006	2.974	795,351.43	27%	4.6	1.23
5/18/2006	2.974	795,351.43	27%	4.6	1.23
5/19/2006	1.697	1,203,635.71	71%	2.63	1.87
5/20/2006	4.115	1,203,635.71	29%	6.37	1.86
5/21/2006	3.122	1,203,635.71	39%	4.83	1.86
5/22/2006	3.122	1,203,635.71	39%	4.83	1.86
5/23/2006	3.122	1,203,635.71	39%	4.83	1.86
5/24/2006	3.301	1,203,635.71	36%	5.11	1.86
5/25/2006	3.301	1,203,635.71	36%	5.11	1.86
5/26/2006	2.531	767,830.00	30%	3.92	1.19
5/27/2006	2.838	767,830.00	27%	4.39	1.19

5/28/2006	2.837	767,830.00	27%	4.39	1.19
5/29/2006	2.837	767,830.00	27%	4.39	1.19
5/30/2006	2.838	767,830.00	27%	4.39	1.19
5/31/2006	3.293	767,830.00	23%	5.1	1.19
6/1/2006	3.293	767,830.00	23%	5.1	1.19
6/2/2006	4.103	1,570,700.00	38%	6.35	2.43
6/3/2006	3.825	1,570,700.00	41%	5.92	2.43
6/4/2006	3.825	1,570,700.00	41%	5.92	2.43
6/5/2006	3.825	1,570,700.00	41%	5.92	2.43
6/6/2006	3.825	1,570,700.00	41%	5.92	2.43
6/7/2006	3.825	1,570,700.00	41%	5.92	2.43
6/8/2006	2.515	1,570,700.00	62%	3.89	2.43
6/9/2006	3.147	1,219,337.14	39%	4.87	1.89
6/10/2006	3.147	1,219,337.14	39%	4.87	1.89
6/11/2006	3.147	1,219,337.14	39%	4.87	1.89
6/12/2006	3.147	1,219,337.14	39%	4.87	1.89
6/13/2006	3.147	1,219,337.14	39%	4.87	1.89
6/14/2006	2.964	1,219,337.14	41%	4.59	1.89
6/15/2006	2.964	1,219,337.14	41%	4.59	1.89
6/16/2006	2.391	898,184.71	38%	3.7	1.39
6/17/2006	2.39	898,184.71	38%	3.7	1.39
6/18/2006	2.834	898,184.71	32%	4.38	1.39
6/19/2006	2.834	898,184.71	32%	4.38	1.39
6/20/2006	2.834	898,184.71	32%	4.38	1.39
6/21/2006	2.815	898,184.71	32%	4.35	1.39
6/22/2006	2.815	898,184.71	32%	4.35	1.39
6/23/2006	2.815	1,069,551.17	38%	4.35	1.65
6/24/2006	3.861	1,069,551.17	28%	5.97	1.65
6/25/2006	3.496	1,069,551.17	31%	5.41	1.66
6/26/2006	3.496	1,069,551.17	31%	5.41	1.66
6/27/2006	3.496	1,069,551.17	31%	5.41	1.66
6/28/2006	3.496	1,069,551.17	31%	5.49	1.68
5/9/2008	2.781			4.3	
5/10/2008	2.166			3.35	
5/11/2008	2.166			3.35	
5/12/2008	2.166			3.35	
5/13/2008	2.165	2,791,149.00	129%	3.35	4.32
5/14/2008	2.472	2,791,149.00	113%	3.82	4.31
5/15/2008	1.978	2,791,149.00	141%	3.06	4.32
5/16/2008	2.552	1,218,971.43	48%	3.95	1.89
5/17/2008	2.59	1,218,971.43	47%	4.01	1.89
5/18/2008	2.59	1,218,971.43	47%	4.01	1.89
5/19/2008	2.589	1,218,971.43	47%	4.01	1.89
5/20/2008	2.59	1,218,971.43	47%	4.01	1.89
5/21/2008	2.921	1,218,971.43	42%	4.52	1.89
5/22/2008	1.985	1,218,971.43	61%	3.07	1.89
5/23/2008	1.879	1,782,824.00	95%	2.91	2.76
5/24/2008	1.879	1,782,824.00	95%	2.91	2.76
5/25/2008	1.879	1,782,824.00	95%	2.91	2.76

5/26/2008	1.879	1,782,824.00	95%	2.91	2.76
5/27/2008	1.879	1,782,824.00	95%	2.91	2.76
5/28/2008	1.475			2.23	
5/29/2008	1.341			2.07	
5/30/2008	1.491			2.31	
5/31/2008	1.785			2.76	
6/1/2008	1.786			2.76	
6/2/2008	1.785			2.76	
6/3/2008	1.785			2.76	
6/4/2008	1.785	4,635,655.00	260%	2.76	7.17
6/5/2008	2.286	4,635,655.00	203%	3.54	7.18
6/6/2008	2.085	1,087,798.57	52%	3.23	1.69
6/7/2008	2.084	1,087,798.57	52%	3.22	1.68
6/8/2008	2.085	1,087,798.57	52%	3.23	1.69
6/9/2008	2.084	1,087,798.57	52%	3.22	1.68
6/10/2008	2.085	1,087,798.57	52%	3.23	1.69
6/11/2008	1.93	1,087,798.57	56%	2.99	1.69
6/12/2008	2.07	1,087,798.57	53%	3.2	1.68
6/13/2008	1.953	3,429,826.67	176%	3.02	5.30
6/14/2008	1.952	3,429,826.67	176%	3.02	5.31
6/15/2008	1.953	3,429,826.67	176%	3.02	5.30
6/16/2008	1.953			3.02	
6/17/2008	1.953			3.02	
6/18/2008	1.783			2.76	
6/19/2008	1.784			2.76	
5/8/2009	2.272			3.52	
5/9/2009	2.422			3.75	
5/10/2009	2.474			3.33	
5/11/2009	2.449			3.79	
5/12/2009	2.494			3.36	
5/13/2009	2.480	670,128.00	27%	3.84	1.04
5/14/2009	3.426	670,128.00	20%	5.30	1.04
5/22/2009	4.06	1,054,827.14	26%	6.29	1.63
5/23/2009	3.41	1,054,827.14	31%	5.28	1.63
5/24/2009	3.45	1,054,827.14	31%	5.34	1.63
5/25/2009	3.42	1,054,827.14	31%	5.29	1.63
5/26/2009	3.48	1,054,827.14	30%	5.38	1.63
5/27/2009	3.45	1,054,827.14	31%	5.33	1.63
5/28/2009	3.00	1,054,827.14	35%	4.65	1.63
5/29/2009	4.192	1,197,610.67	29%	6.49	1.85
5/30/2009	3.938	1,197,610.67	30%	6.09	1.85
5/31/2009	3.940	1,197,610.67	30%	6.10	1.85
6/1/2009	3.882	1,199,929.50	31%	6.01	1.86
6/2/2009	3.957	1,199,929.50	30%	6.12	1.86
6/3/2009	3.509	1,199,929.50	34%	5.43	1.86
6/4/2009	3.349	1,199,929.50	36%	5.18	1.86
6/5/2009	4.061	1,305,287.14	32%	6.28	2.02
6/6/2009	3.843	1,305,287.14	34%	5.95	2.02
6/7/2009	3.742	1,305,287.14	35%	5.79	2.02

6/8/2009	3.162	1,305,287.14	41%	4.89	2.02
6/9/2009	3.463	1,305,287.14	38%	5.36	2.02
6/10/2009	3.729	1,305,287.14	35%	5.77	2.02
6/11/2009	4.099	1,305,287.14	32%	6.34	2.02
6/12/2009	4.117	1,303,902.86	32%	6.37	2.02
6/13/2009	3.711	1,303,902.86	35%	5.74	2.02
6/14/2009	3.874	1,303,902.86	34%	5.99	2.02
6/15/2009	3.672	1,303,902.86	36%	5.68	2.02
6/16/2009	3.637	1,303,902.86	36%	5.63	2.02
6/17/2009	3.005	1,303,902.86	43%	4.65	2.02
6/18/2009	3.093	1,303,902.86	42%	4.79	2.02
6/19/2009	3.416	1,362,638.00	40%	5.29	2.11
6/20/2009	3.826	1,362,638.00	36%	5.92	2.11
6/21/2009	3.778	1,362,638.00	36%	5.84	2.11
6/22/2009	4.148	1,362,638.00	33%	6.42	2.11
6/23/2009	4.114	1,362,638.00	33%	6.37	2.11
6/24/2009	4.027			6.23	
6/25/2009	3.791			5.87	
6/4/2010	2.112			3.24	
6/5/2010	1.952			3.00	
6/6/2010	1.970			3.03	
6/7/2010	1.968			3.03	
6/8/2010	2.062	842,608.67	41%	3.17	1.30
6/9/2010	1.950	842,608.67	43%	3.11	1.35
6/10/2010	2.094	842,608.67	40%	3.29	1.32
6/11/2010	2.272	931,978.57	41%	3.35	1.38
6/12/2010	2.245	931,978.57	42%	3.60	1.49
6/13/2010	2.265	931,978.57	41%	3.63	1.49
6/14/2010	2.380	931,978.57	39%	3.82	1.49
6/15/2010	2.536	931,978.57	37%	4.07	1.49
6/16/2010	2.944	931,978.57	32%	4.09	1.29
6/17/2010	2.918	931,978.57	32%	4.53	1.45
6/18/2010	3.465	1,115,080.86	32%	4.22	1.36
6/19/2010	2.833	1,115,080.86	39%	4.55	1.79
6/20/2010	2.921	1,115,080.86	38%	4.69	1.79
6/21/2010	2.760	1,115,080.86	40%	4.43	1.79
6/22/2010	2.727	1,115,080.86	41%	4.38	1.79
6/23/2010	2.684	1,115,080.86	42%	4.45	1.85
6/24/2010	3.074	1,115,080.86	36%	4.74	1.72
6/25/2010	2.958	927,226.67	31%	4.57	1.43
6/26/2010	2.964	927,226.67	31%	4.64	1.45
6/27/2010	3.014	927,226.67	31%	4.71	1.45
6/28/2010	2.876	927,226.67	32%	4.50	1.45
6/29/2010	2.789	927,226.67	33%	4.36	1.45
6/30/2010	2.904	927,226.67	32%	4.57	1.46
7/1/2010	3.561	1,248,550.00	35%	5.47	1.92
4/1/2011	CV System Off				
4/2/2011	CV System Off				

4/3/2011	CV System Off					
4/4/2011	CV System Off					
4/5/2011	CV System Off					
4/6/2011	CV System Off					
4/7/2011	CV System Off					
4/8/2011	CV System Off					
4/9/2011	CV System Off					
4/10/2011	CV System Off					
4/11/2011	CV System Off					
4/12/2011	CV System Off					
4/13/2011	CV System Off					
4/14/2011	CV System Off					
4/15/2011	1.266	3,437.14	0%	1.92	0.01	
4/16/2011	1.352	3,437.14	0%	2.03	0.01	
4/17/2011	1.376	3,437.14	0%	2.07	0.01	
4/18/2011	1.326	3,437.14	0%	1.99	0.01	
4/19/2011	1.298	3,437.14	0%	1.95	0.01	
4/20/2011	1.348	3,437.14	0%	2.39	0.01	
4/21/2011	1.293	3,437.14	0%	1.97	0.01	
4/22/2011	1.335	60,942.86	5%	2.03	0.09	
4/23/2011	1.344	60,942.86	5%	2.09	0.09	
4/24/2011	1.389	60,942.86	4%	2.16	0.09	
4/25/2011	0.713	60,942.86	9%	1.11	0.09	
4/26/2011	1.396	60,942.86	4%	2.17	0.09	
4/27/2011	0.929	60,942.86	7%	1.49	0.10	
4/28/2011	1.180	60,942.86	5%	1.80	0.09	
4/29/2011	1.358	2,295.00	0%	2.06	0.00	
4/30/2011	1.287	2,295.00	0%	2.00	0.00	
5/1/2011	1.508	10,038.00	1%	2.35	0.02	
5/2/2011	1.556	10,038.00	1%	2.42	0.02	
5/3/2011	1.578	10,038.00	1%	2.45	0.02	
5/4/2011	1.707	10,038.00	1%	2.63	0.02	
5/5/2011	1.914	10,038.00	1%	2.97	0.02	
5/6/2011	2.010	125,787.14	6%	3.10	0.19	
5/7/2011	1.948	125,787.14	6%	3.01	0.19	
5/8/2011	1.754	125,787.14	7%	2.71	0.19	
5/9/2011	1.757	125,787.14	7%	2.71	0.19	
5/10/2011	1.693	125,787.14	7%	2.61	0.19	
5/11/2011	1.933	125,787.14	7%	2.99	0.19	
5/12/2011	2.578	125,787.14	5%	3.83	0.19	
5/13/2011	2.567	661,757.14	26%	4.19	1.08	
5/14/2011	2.490	661,757.14	27%	3.87	1.03	
5/15/2011	2.604	661,757.14	25%	4.05	1.03	
5/16/2011	2.472	661,757.14	27%	3.84	1.03	
5/17/2011	2.373	661,757.14	28%	3.69	1.03	
5/18/2011	2.439	661,757.14	27%	3.62	0.98	
5/19/2011	2.322	661,757.14	29%	3.61	1.03	
5/20/2011	2.524	680,687.14	27%	3.85	1.04	
5/21/2011	2.611	680,687.14	26%	4.06	1.06	
5/22/2011	2.687	680,687.14	25%	4.18	1.06	

5/23/2011	2.699	680,687.14	25%	4.19	1.06
5/24/2011	2.618	680,687.14	26%	4.07	1.06
5/25/2011	3.074	680,687.14	22%	3.92	0.87
5/26/2011	1.880	680,687.14	36%	3.68	1.33
5/27/2011	0.943	648,838.00	69%	1.52	1.04
5/28/2011	2.437	648,838.00	27%	3.73	0.99
5/29/2011	2.481	648,838.00	26%	3.80	0.99
5/30/2011	2.410	648,838.00	27%	3.69	0.99
5/31/2011	2.549	648,838.00	25%	3.90	0.99
6/1/2011	2.655	849,555.00	32%	4.24	1.36
6/2/2011	2.908	849,555.00	29%	4.45	1.30
6/3/2011	2.656	786,550.00	30%	4.12	1.22
6/4/2011	2.911	786,550.00	27%	4.49	1.21
6/5/2011	3.053	786,550.00	26%	4.71	1.21
6/6/2011	3.001	786,550.00	26%	4.63	1.21
6/7/2011	3.011	786,550.00	26%	4.65	1.21
6/8/2011	2.828	786,550.00	28%	4.52	1.26
6/9/2011	2.491	786,550.00	32%	3.87	1.22
6/10/2011	2.399	870,562.86	36%	3.71	1.35
6/11/2011	2.886	870,562.86	30%	4.44	1.34
6/12/2011	3.078	870,562.86	28%	4.74	1.34
6/13/2011	3.019	870,562.86	29%	4.65	1.34
6/14/2011	2.230	870,562.86	39%	3.43	1.34
6/15/2011	3.142	870,562.86	28%	4.78	1.32
6/16/2011	2.816	870,562.86	31%	3.98	1.23
6/17/2011	3.315	830,106.57	25%	5.79	1.45
6/18/2011	3.111	830,106.57	27%	4.82	1.29
6/19/2011	3.295	830,106.57	25%	5.11	1.29
6/20/2011	3.093	830,106.57	27%	4.79	1.29
6/21/2011	3.260	830,106.57	25%	5.05	1.29
6/22/2011	4.351	830,106.57	19%	6.12	1.17
6/23/2011	3.277	830,106.57	25%	5.60	1.42
6/24/2011	3.614	945,895.29	26%	5.57	1.46
6/25/2011	3.709	945,895.29	26%	5.71	1.46
6/26/2011	3.760	945,895.29	25%	5.79	1.46
6/27/2011	3.651	945,895.29	26%	5.62	1.46
6/28/2011	3.778	945,895.29	25%	5.82	1.46
6/29/2011	4.134	945,895.29	23%	6.53	1.49
6/30/2011	4.552	945,895.29	21%	6.99	1.45
7/1/2011	4.446	1,359,337.57	31%	6.76	2.07
7/2/2011	4.325	1,359,337.57	31%	6.69	2.10
7/3/2011	4.332	1,359,337.57	31%	6.70	2.10
7/4/2011	4.254	1,359,337.57	32%	6.58	2.10
7/5/2011	4.364	1,359,337.57	31%	6.75	2.10
7/6/2011	4.949	1,359,337.57	27%	7.82	2.15
7/7/2011	4.924	1,359,337.57	28%	7.36	2.03
7/8/2011	4.384	1,274,233.43	29%	5.78	1.68
7/9/2011	4.017	1,274,233.43	32%	6.52	2.07
7/10/2011	4.117	1,274,233.43	31%	6.68	2.07
7/11/2011	4.180	1,274,233.43	30%	6.79	2.07

7/12/2011	4.368	1,274,233.43	29%	7.09	2.07
7/13/2011	4.885	1,274,233.43	26%	7.89	2.06
7/14/2011	5.176	1,274,233.43	25%	7.54	1.86
2/10/2012	CV System Off				
2/11/2012	CV System Off				
2/12/2012	CV System Off				
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4/1/2012	CV System Off				
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4/4/2012	CV System Off				
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4/7/2012	CV System Off				
4/8/2012	CV System Off				
4/9/2012	CV System Off				
4/10/2012	CV System Off				
4/11/2012	CV System Off				
4/12/2012	CV System Off				
4/13/2012	1.521	16,250.00	1%	2.35	0.03
4/14/2012	1.761	16,250.00	1%	2.72	0.03
4/15/2012	1.739	16,250.00	1%	2.69	0.03
4/16/2012	1.724	16,250.00	1%	2.67	0.03
4/17/2012	1.763	16,250.00	1%	2.73	0.03
4/18/2012	1.589	16,250.00	1%	2.46	0.03
4/19/2012	1.448	16,250.00	1%	2.24	0.03
4/20/2012	1.760	140,216.29	8%	2.72	0.22
4/21/2012	1.992	140,216.29	7%	3.08	0.22
4/22/2012	1.850	140,216.29	8%	2.86	0.22
4/23/2012	1.772	140,216.29	8%	2.74	0.22
4/24/2012	1.914	140,216.29	7%	2.96	0.22
4/25/2012	2.678	140,216.29	5%	4.14	0.22
4/26/2012	2.208	140,216.29	6%	3.42	0.22
4/27/2012	2.014	120,148.25	6%	3.12	0.19
4/28/2012	1.595	120,148.25	8%	2.47	0.19
4/29/2012	1.469	120,148.25	8%	2.27	0.19
4/30/2012	1.531	120,148.25	8%	2.37	0.19
5/1/2012	1.549	97,729.33	6%	2.40	0.15
5/2/2012	1.998	97,729.33	5%	3.09	0.15
5/3/2012	1.883	97,729.33	5%	2.91	0.15
5/4/2012	1.859	154,608.57	8%	2.88	0.24
5/5/2012	1.604	154,608.57	10%	2.48	0.24
5/6/2012	1.756	154,608.57	9%	2.72	0.24
5/7/2012	1.709	154,608.57	9%	2.64	0.24
5/8/2012	1.856	154,608.57	8%	2.87	0.24
5/9/2012	2.382	154,608.57	6%	3.69	0.24
5/10/2012	2.508	154,608.57	6%	3.88	0.24
5/11/2012	2.729	714,170.00	26%	4.22	1.11
5/12/2012	2.865	714,170.00	25%	4.43	1.11
5/13/2012	3.144	714,170.00	23%	4.86	1.11
5/14/2012	3.241	714,170.00	22%	5.02	1.11
5/15/2012	2.512	714,170.00	28%	3.89	1.11

5/16/2012	3.070	714,170.00	23%	4.75	1.11
5/17/2012	3.124	714,170.00	23%	4.83	1.11
5/18/2012	3.213	800,901.43	25%	4.97	1.24
5/19/2012	3.146	800,901.43	25%	4.87	1.24
5/20/2012	3.104	800,901.43	26%	4.80	1.24
5/21/2012	3.016	800,901.43	27%	4.67	1.24
5/22/2012	3.110	800,901.43	26%	4.81	1.24
5/23/2012	3.610	800,901.43	22%	5.59	1.24
5/24/2012	3.566	800,901.43	22%	5.52	1.24
5/25/2012	3.356	849,188.57	25%	5.19	1.31
5/26/2012	3.015	849,188.57	28%	4.67	1.31
5/27/2012	2.817	849,188.57	30%	4.36	1.31
5/28/2012	2.753	849,188.57	31%	4.26	1.31
5/29/2012	2.934	849,188.57	29%	4.54	1.31
5/30/2012	3.446	849,188.57	25%	5.33	1.31
5/31/2012	3.162	849,188.57	27%	4.89	1.31
6/1/2012	3.117	826,721.43	27%	4.82	1.28
6/2/2012	3.212	826,721.43	26%	4.97	1.28
6/3/2012	3.259	826,721.43	25%	5.04	1.28
6/4/2012	3.174	826,721.43	26%	4.91	1.28
6/5/2012	3.203	826,721.43	26%	4.96	1.28
6/6/2012	3.456	826,721.43	24%	5.35	1.28
6/7/2012	3.219	826,721.43	26%	4.98	1.28
6/8/2012	3.291	976,075.71	30%	5.09	1.51
6/9/2012	3.527	976,075.71	28%	5.46	1.51
6/10/2012	3.489	976,075.71	28%	5.40	1.51
6/11/2012	3.102	976,075.71	31%	4.80	1.51
6/12/2012	3.226	976,075.71	30%	4.99	1.51
6/13/2012	3.852	976,075.71	25%	5.96	1.51
6/14/2012	3.567	976,075.71	27%	5.52	1.51
6/15/2012	4.012	1,174,812.86	29%	6.21	1.82
6/16/2012	3.856	1,174,812.86	30%	5.97	1.82
6/17/2012	3.860	1,174,812.86	30%	5.97	1.82
6/18/2012	3.718	1,174,812.86	32%	5.75	1.82
6/19/2012	3.779	1,174,812.86	31%	5.85	1.82
6/20/2012	3.710	1,174,812.86	32%	5.74	1.82
6/21/2012	3.965	1,174,812.86	30%	6.14	1.82
6/22/2012	4.495	1,421,636.00	32%	6.96	2.20
6/23/2012	4.386	1,421,636.00	32%	6.79	2.20
6/24/2012	4.429	1,421,636.00	32%	6.85	2.20
6/25/2012	4.316	1,421,636.00	33%	6.68	2.20
6/26/2012	4.343	1,421,636.00	33%	6.72	2.20
6/27/2012	4.005			6.20	
6/28/2012	3.928			6.08	
				MAX	7.18
				AVG	1.37



PUMP DATA SHEET
VERTI-LINE

CURVE: 9PC-119434

Catalog: V-L60 v. 1.1

TYPE - SPEED: VERT. TURBINE - 1800

FLUID: Water tmp: 60 °F

PUMP Size: 14RL; - 6 stages

SG: 1

vsc: 1.122 cP

vapor: 0.2568 psi

atm: 14.7 psi

Speed: 1770 rpm

Imp dia: 10.625 in

Max Temperature: - °F

Max Pressure: - psi_g

NPSHa: - ft

Max Sphere Size: - in

PIPING Pressure: - psi

Suction elev: - ft

size: - in

Discharge size: - in

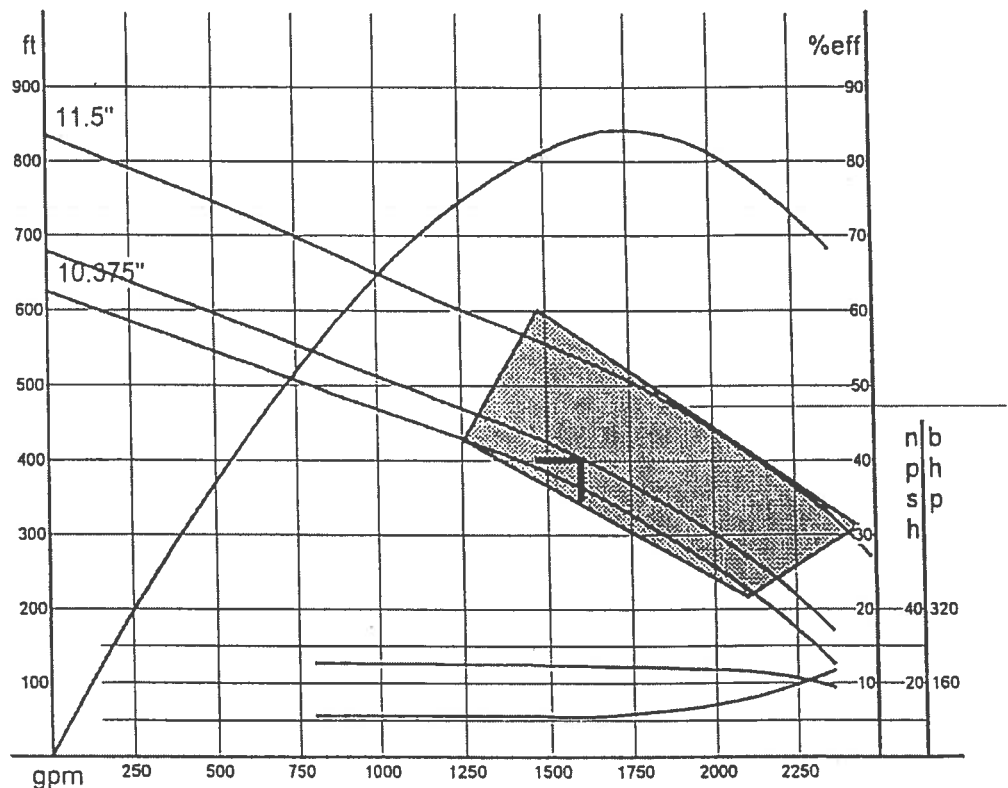
Specific Speed N_s: -

Suction N_{ss}: -

Suction size: - in

Discharge size: - in

DESIGN POINT
Flow: 1600 gpm
Head: 400 ft
DATA POINT
Flow: 1600 gpm
Head: 402 ft
Eff: 83 %
Power: 196 bhp
NPSHr: 11.0 ft
DESIGN CURVE
Shutoff Head: 678 ft
Pressure: 294 psi _g
Min Flow: - gpm
BEP: 84 %eff @ 1680
Max: 240 bhp @ 160
MAX DIAMETER
Max: 273 bhp @ 1423



PERFORMANCE EVALUATION

Flow gpm	Speed rpm	Head ft	Pump %eff	Power bhp	NPSHr ft	Motor %eff	Power kW	Hrs/yr	Cost
1920	1770	323	83	189	13.1				
1600	1770	402	83	196	11.0				
280	1770	463	75	200	11.0				
960	1770	518	62	203	11.0				
640	Flow Rate is Out of Range for this Pump								

Pump 2

H2Optimize ver: 5.03

File: (untitled)

Aug 28, 1997

PUMP DATA SHEET VERTI-LINE

Catalog: V-L60 v. 1.1

CURVE: 9PC-119436

TYPE - SPEED: VERT. TURBINE - 1800

ELUID Water tmp: 60 °F

PUMP Size: 14RM; - 5 stages

SG: 1

Speed: 1770 rpm

vsc: 1.122 cP

Imp dia: 10.6875 in

vapor: 0.2568 psi

atm: 14.7 psi

Max Temperature: - °F

NPSHa: - ft

Max Pressure: - psi_g

Max Sphere Size: - in

PIPING Pressure: - psi

Specific Speed Ns: -

Suction elev: - ft

Suction Nss: -

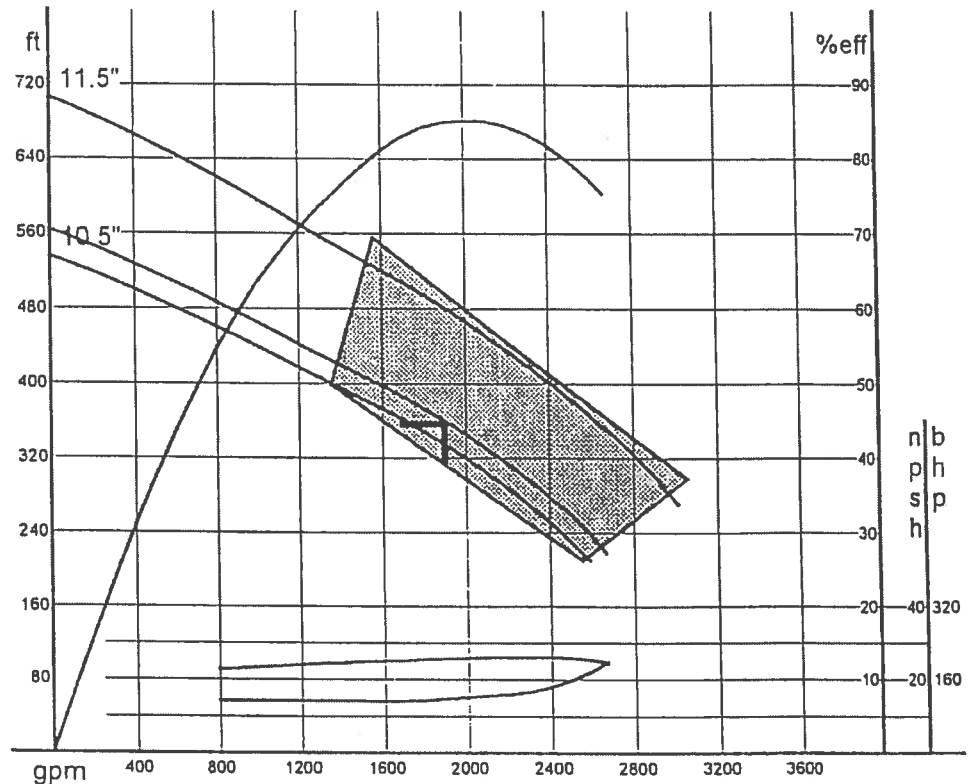
size: - in

Suction size: - in

Discharge size: - in

Discharge size: - in

DESIGN POINT
Flow: 1900 gpm
Head: 356 ft
DATA POINT
Flow: 1900 gpm
Head: 359 ft
Eff: 84 %/86%
Power: 205 bhp/200 bhp
NPSHr: 14.6 ft
DESIGN CURVE
Shutoff Head: 563 ft
Pressure: 244 psi _g
Min Flow: - gpm
BEP: 85 %eff @ 2003
Max: 208 bhp @ 2337
MAX DIAMETER
Max: 290 bhp @ 2525



PERFORMANCE EVALUATION

Flow gpm	Speed rpm	Head ft	Pump %eff	Power bhp	NPSHr ft	Motor %eff	Power kW	Hrs/yr	Cost
2280	1770	300	83/85	208/203	16.2				
1900	1770	359	84/86	205/200	14.6				
1520	1770	405	79/81	197/192	14.0				
1140	1770	448	67/69	193/187	14.0				
760									

Flow Rate is Out of Range for this Pump

VERTI LINE HAS STATED WHEN THEY TEST THIS PUMP, EFFICIENCY WILL 86%. PREVIOUS TESTS HAVE SHOWN BOOK CURVES TO BE LOW.

Verify with Factory performance test and supply data to Engineer

Pumps 5 & 6

H2Optir e ver: 5.03
File: (untitled)
July 8, 1997

PUMP DATA SHEET VERTI-LINE

Catalog: V-L60 v. 1.1

IRVE: 18-177

TYPE - SPEED: VERT. TURBINE - 1800

FLUID: Water tmp: 60 °F

PUMP Size: 16AWM - 4 stages

SG: 1

vsc: 1.122 cP

vapor: 0.2568 psi

atm: 14.7 psi

Speed: 1770 rpm

Imp dia: 12.6875 in

Max Temperature: - °F

Max Pressure: - psi_g

Max Sphere Size: - in

NPSHa: - ft

Specific Speed Ns: -

Suction Nss: -

PIPING Pressure: - psi

Suction elev: - ft

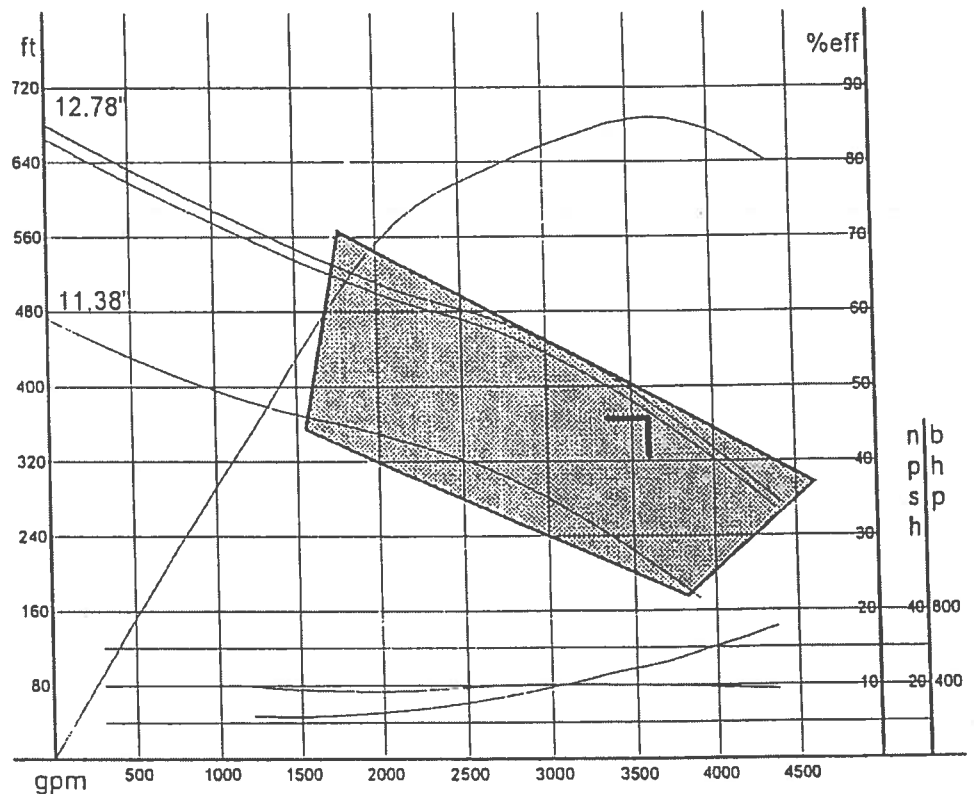
size: - in

Discharge size: - in

Suction size: 17.2 in

Discharge size: 12 in

DESIGN POINT
~ Flow: 3600 gpm
Head: 365 ft
DATA POINT
Flow: 3600 gpm
Head: 372 ft
Eff: 86 %
Power: 393 bhp
NPSHr: 25.3 ft
DESIGN CURVE
Shutoff Head: 665 ft
Pressure: 288 psi _g
Min Flow: - gpm
BEP: 86 %eff @ 3675
Max: 403 bhp @ 3040
MAX DIAMETER
Max: 415 bhp @ 2960

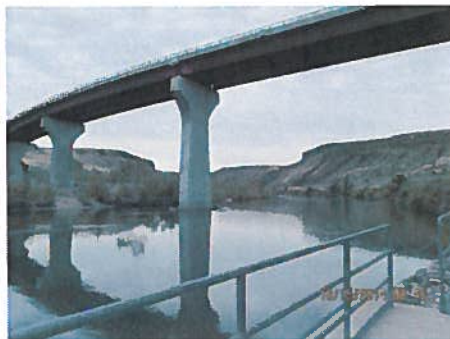
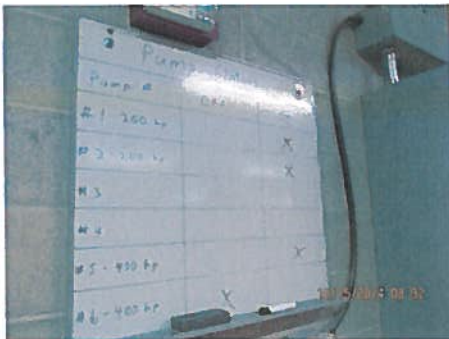


PERFORMANCE EVALUATION

Flow gpm	Speed rpm	Head ft	Pump %eff	Power bhp	NPSHr ft	Motor %eff	Power kW	Hrs/yr	Cost
4320	1770	277	81	373	34.8				
3600	1770	372	86	393	25.3				
2880	1770	445	81	400	18.2				
2160	1770	490	72	371	13.4				
1440	1770	541	51	386	12.1				

PHOTOGRAPHER AND DATE OF PHOTOS ASHLEY NEWBRY • October 15, 2014

FILE NUMBER 63-12399



Upper Left: A view of the pumping station from New York Canal road.

Upper Center: Larry Woodington of Micron Technology is speaking about the two 200 Hp pumps. (He is standing between them.)

Upper Right: These 400 Hp pumps are shared by Micron Technology, JR Simplot, and Surprise Valley HOA.

Middle Left: The white board displays which pumps are currently running.

Middle Center: The floor level port gives access to the wetwell/water intake.

Middle Right: The south half of the building is the property of United Water Idaho.

Lower Left: This is a view of the Boise River below the Highway 21 Bridge. (The photo was captured atop the intake structure.)

Lower Center: This is the manhole access to the flow meter at the 30" mainline transport pipe.

Lower Right: The flow meter at the 30" mainline transport pipe is shown.



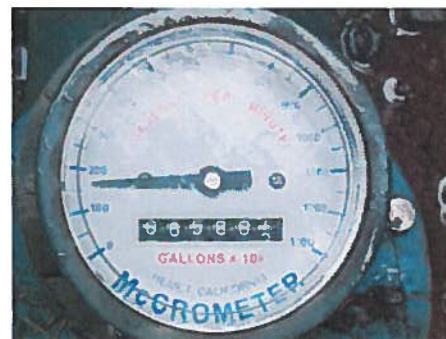
Upper Left & Right: The diversion system at the Columbia Village tap #1 from the main transport pipeline.



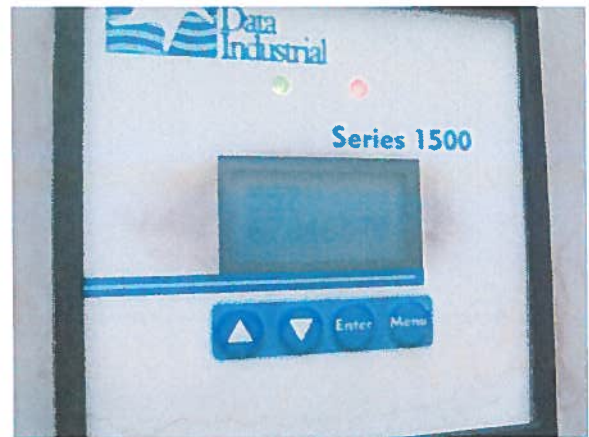
Lower Left & Right: Manhole access to the flow meter at the Columbia Village tap #1.



Upper Left & Right: The diversion system and irrigated landscaping at the Columbia Village tap #2 from the main transport pipeline.



Lower Left & Right: Manhole access to the flow meter at the Columbia Village tap #2.



Top Left, Center, and Right: These are “banks” of membranes for ultra filtration. Some of the water which passes through these is used for groundwater recharge and other water is used for Micron’s industrial purposes. The two uses do not become co-mingled during use. During the field exam, JR Simplot claimed that they executed an agreement with Micron Technology to recharge groundwater through their own facilities on behalf of JR Simplot Co.

Lower Left: This is a Micron Technology injection well; Boise River water is cleaned and recharged here.

Lower Right: The injection well uses a Data Industrial Series 1500 read-out panel.