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Water Resources

January 27, 2014

Mr. Shelly Keen
Idaho Department of Water Resources
322 East Front Street
P. O. Box 83720
Boise, Idaho 83720-0098

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DEPARTMENT OF
WATER RESOURCES

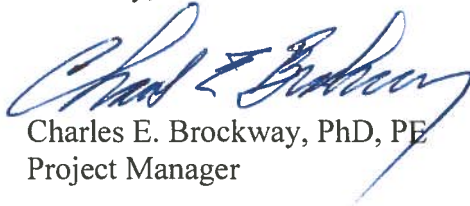
RE: Annual Report: Aquifer Recharge and Pumping Report for the 2011 and 2012 Years, Dry Lot LLC, Permit 37-22252

Dear Mr. Keen,

Please see the attached yearly report outlining Dry Lot LLC's activities on the aquifer recharge and pumping project for 2013 at the Valley Club HOA recharge site north of Hailey, Idaho. This report is submitted to comply with the reporting conditions required under Permit No. 37-22522 and Transfer 74449 in the name of Dry Lot LLC.

Please review this report at your convenience. If you have any questions or comments, please do not hesitate to contact me at (208) 736-8543.

Sincerely,



Charles E. Brockway, PhD, PE
Project Manager

CHARLES E.
BROCKWAY,
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Cc: Woody Friedlander, President Valley Club HOA
Barry Beavers-The Valley Club
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CONCLUSIONS AND RECOMMENDATIONS

1. Construction on the infiltration basins for the project commenced in early December 2012 and was completed in mid-May 2012.
2. In 2013, approximately 51.7 total acres were irrigated on forty-seven lots, 23.5 acres of which were covered under domestic exemption and 1.0 acre under private water right 37-4F.
3. Irrigation in 2013 is assumed to be similar to 2012 irrigation as the number of residences has not changed and irrigation on those lots likely has not changed.
4. In 2013, 51.7 total acres were irrigated on 47 lots, 27.5 acres under permit 37-22252, 23.5 under domestic exemption, and 1.0 acre under 37-4F on private lot 57, leaving 0.3 excess acres un-irrigated.
5. In 2013, the total volume pumped from the Valley Club HOA wells for domestic and irrigation uses was 241.2 acre-feet.
6. The total volume associated with irrigation on forty-seven lots (irrigation not associated with a domestic exemption or a private irrigation water right) under 37-22252 is 75.4 acre-feet. In 2013, less than 30 acre-feet were recharged before June 1st and 78.4 acre-feet of water was recharged through July 23rd in the two Dry Lot Basins, leaving an excess of 3.0 acre-feet infiltrated.
7. The volume recharged in 2013 was adequate under existing Dry Lot LLC water rights 37-22313, 37-22318, and 37-22323 for the irrigation of 27.5 acres as authorized under 37-22252.
8. The volume recharged in 2013 was not dependent on infiltration design as 275 gpm was put into both basins with no rise in observed water levels in basin piezometers.
9. Filter screen replacement in September 2012 has allowed adequate infiltration volume in 2013 under 37-22252.
10. Facilities are designed to accommodate Valley Club proposed recharge volumes pending approval of the Valley Club application for permit.

**AQUIFER RECHARGE AND PUMPING
DRY LOT LLC
REPORT- 2013
January 2014**

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EXECUTIVE SUMMARY

This report documents activities and performance for the reporting year of 2013 at the Dry Lot LLC aquifer recharge site located at the Valley Club north of Hailey, Idaho (Figure 1). This report is prepared to comply with condition number nine of Dry Lot LLC water right permit No. 37-22252 and condition number five of Dry Lot LLC water rights 37-22313, 37-22318, and 37-22323 issued by the Idaho Department of Water Resources (IDWR).

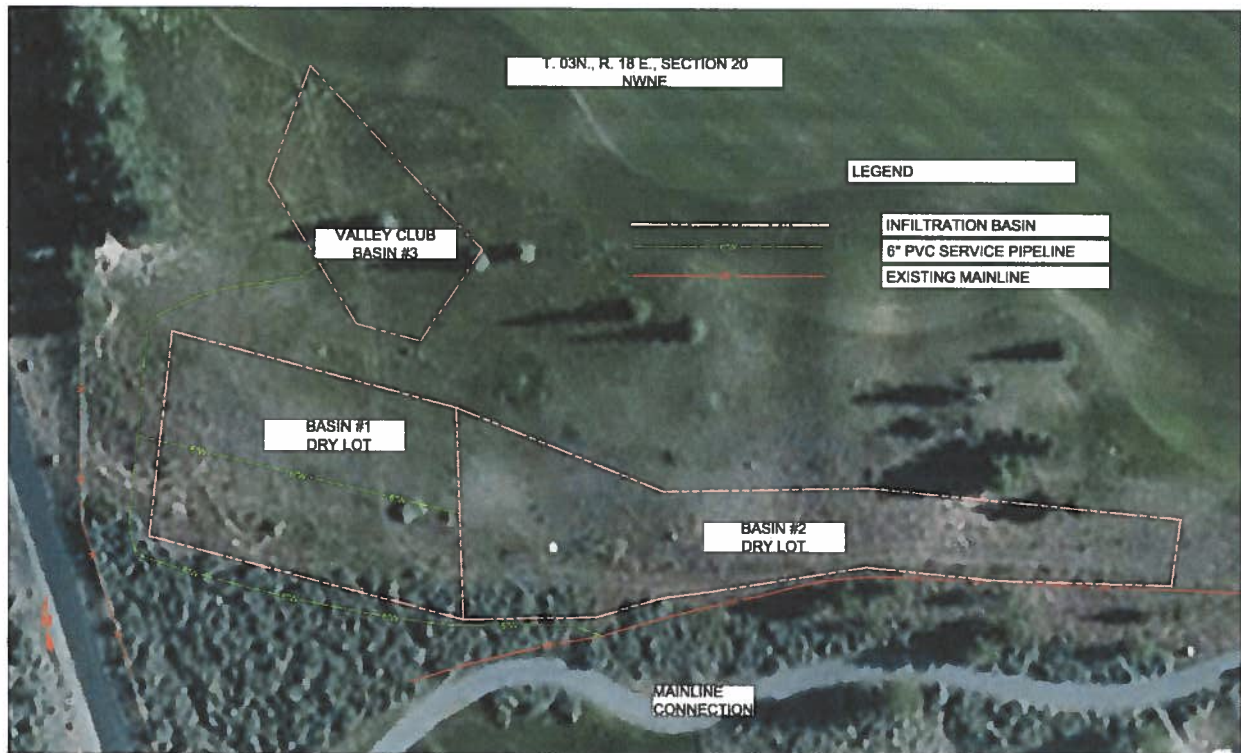


Figure 1: Locations of Dry Lot LLC and Valley Club Infiltration Basins.

Under the Dry Lot LLC permit, it is proposed to recharge up to a maximum of 75.4 acre-feet of water from the Big Wood River through the adjacent Hiawatha Canal and Valley Club golf course irrigation system and to extract irrigation water from the existing Valley Club HOA wells in T.03N R.18E SEC.20 SW $\frac{1}{4}$ NE $\frac{1}{4}$ and SE $\frac{1}{4}$ NW $\frac{1}{4}$ to irrigate up to 27.5 acres of turf grass anywhere within ninety-nine currently platted subdivision lots. The Valley Club proposes to recharge up to 15 acre feet of water from the same source and extract the same for supplemental irrigation from an existing well in the T.03N R.18E SEC.20 NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$. The permit for the Valley Club has not been secured; however, the recharge basin is completed.

IDWR Permit No. 37-22252 was approved on August 8, 2010 authorizing limits of 75.4

acre-feet to be recharged for 27.5 acres of irrigation. Planning and design of the infiltration system was coordinated with the Valley Club Golf Club and the design of the system was revised to add an additional recharge volume to accommodate a proposed project by the Valley Club for enhanced golf course irrigation. The permit application by the Valley Club is pending approval by IDWR.

This report includes the following information: location of facilities; flow volumes of recharge water applied to the site; compliance summary; and conclusions and recommendations.

LOCATION OF FACILITIES

Facilities associated with the Dry Lot LLC and Valley Club infiltration basins are located in T.03N R.18E SEC.20 NWSE. Infiltration basin recharge water is diverted from the Valley Club irrigation system, flows through a 6" delivery line into an Orival OR-04-PE 100 micron mesh filter, and can enter either of the two Dry Lot LLC, or one Valley Club infiltration basins. Basin layout was done during construction to meet the required area for infiltration, as well as to meet physical constraints such as accommodating for existing irrigation piping and golf course irrigation facilities. An infiltration basin facility overview is shown in Appendix A.

BASIN RECHARGE

Reporting condition nine of the Dry Lot LLC permit requires submittal of an annual report by January 31, of each year to include the following:

- a) The volume of water diverted from the authorized points of diversion for each month of the prior calendar year,
- b) The number and location (by subdivision lot number) of the acres of land irrigated in connection with this right during the prior calendar year and,
- c) The number and location (by subdivision lot number) of the homes served domestic water from the authorized points of diversion pursuant to other water rights during the prior calendar year.

Table 1 shows the flow meter readings and diversion volumes from the Valley Club HOA wells during 2013. Table 2 shows the subdivision lots served from Valley Club Homeowners Association wells with both domestic water and irrigation water under permit 37-22252 in 2013.

In 2013, 241.2 acre-feet (a decrease of 12.7 AF over 2012) of water was pumped from the Valley club HOA wells for domestic and irrigation uses for 47 residences. At ½ acre of domestic exemption per lot (23.5 acres on 47 lots) plus 1.0 acre of private irrigation under water right 37-4F on lot 57, total irrigation was in excess of the exempted acreage by 27.2 acres as total irrigation at this time was 51.7 acres.

Between April 16th and May 31st 2013, 28.2 acre feet were recharged in Dry Lot LLC basins 1 and 2. Between June 1st and July 23rd 2013, 50.2 acre feet were recharged in Dry Lot LLC basins 1 and 2 for a total of 78.4 acre feet recharged in 2013. A recharge volume not to exceed 30 acre-feet before June 1st is authorized under 37-22313, 37-22318, and 37-22323. Additionally, a recharge volume of 75.4 acre-feet is authorized under 37-22252 when all of the 27.5 acres are irrigated under 37-22252. On the forty-seven lots, 27.5 acres was irrigated under 37-22252, requiring 75.4 acre-feet to be recharged.

The difference between the 75.4 acre-feet of infiltration authorized and the 78.4 acre-feet actually infiltrated in 2013 is an excess of 3.0 acre-feet infiltrated. The excess infiltration volume is attributed to fluxuations in flow rates into the Dry Lot LLC basins, which made it difficult to forecast the time at which the infiltration volume limit of 75.4 acre feet would be reached.

COMPLIANCE SUMMARY

In 2013 forty-seven residences were present within the Valley Club subdivision and a total of 51.7 acres were irrigated. 27.5 total acres are authorized to be irrigated under permit 37-22252, 23.5 acres are authorized under domestic exemptions, and 1.0 acre is authorized under private water right 37-4F.

78.4 acre feet of water was infiltrated into the Dry Lot LLC basins in 2013. Irrigation of 27.5 acres under permit 37-22252 requires 75.4 acre-feet required to be infiltrated. Infiltration basin system design and completion of construction in 2012 allowed irrigation under 37-22252 to occur based on the infiltration of 78.4 acre-feet of water into Dry Lot LLC Basins 1 and 2 during 2013.

2013				
	<i>East Well</i>	<i>East Well</i>	<i>West Well</i>	<i>West Well</i>
	<i>in Pump House</i>	<i>in Pump House</i>	<i>Across Road</i>	<i>Across Road</i>
	PUMP #1 METER	Total	PUMP #2 METER	Total
DATE:	TOTALIZER (GAL):	Usage (AFA):	TOTALIZER (GAL):	Usage (AFA):
1/2/2013	68,707,400	0.0	88,250,900	0.0
1/23/2013	68,879,800	0.5	88,421,600	0.5
2/20/2013	69,173,300	1.4	88,756,800	1.6
3/20/2013	69,578,700	2.7	89,131,300	2.7
4/25/2013	70,318,000	4.9	89,785,200	4.7
5/22/2013	74,077,700	16.5	93,421,100	15.9
6/26/2013	81,930,000	40.6	101,776,400	41.5
7/30/2013	91,930,000	71.3	111,004,700	69.8
8/27/2013	99,699,100	95.1	119,174,800	94.9
9/27/2013	105,419,300	112.7	125,555,200	114.5
10/30/2013	106,922,400	117.3	126,692,800	118.0
11/27/2013	107,209,900	118.2	127,011,000	119.0
12/23/13	107,697,900	119.7	127,484,100	120.4
01/02/14	107,885,500	120.2	127,669,200	121.0
TOTALS PER WELL:		120.2 Acre-Feet		121.0 Acre-Feet
TOTAL FOR BOTH WELLS:		241.2 Acre-Feet		

Table 1: Valley Club Homeowners Well Diversion Volumes for 2013.

2013			
Lot # Served by			
Valley Club HOA Wells:			
5	35	53	78
6	36	54	80
7	37	57	83
9	41	58	85
10	43	61	88
13	44	64	92
15	46	65	95
16	48	66	96
22	49	67	97
29	50	68	98
32	51	70	99
34	52	77	
TOTAL:	47.0		

Table 2: Lots Served by Valley Club Homeowners Wells' in 2013.

APPENDIX A:



AQUIFER RECHARGE AND PUMPING DRY LOT LLC REPORT – 2013 January 2014

