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DEPARTMENT OF  
WATER RESOURCES

**Ed Squires**

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**From:** Ed Squires  
**Sent:** Thursday, December 31, 2015 10:19 AM  
**To:** Spackman, Gary  
**Subject:** 12-31-2015 Spring Valley Development Water Level Data Submittal for the 2nd Half of 2015  
**Attachments:** 12-17-2015 Spring Valley Ground Water Level Data Submittal for the Second Half of 2015.xls; 12-17-2015 Cd Cover for SV IDWR Submittal 2nd Half 2015.doc

Hydro Logic, Inc

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December 31, 2015

Mr. Gary Spackman, Director  
Idaho Department of Water Resources  
322 East Front Street  
PO Box 83720-0098

Subject: Spring Valley Ground Water Monitoring Data Submittal for the Second Half of 2015

Dear Gary:

On behalf of my client, M3 Companies, LLC, and the City of Eagle, Idaho, I write to submit the Spring Valley (formally M3 Eagle) water level monitoring data for the second half of 2015 that is being hand-delivered to your office today, Thursday December 31, 2015 on compact disc. The submitted data consist of hand-measured and digital pressure-transducer/data-logger water level measurements acquired between 06/01/2015 and 11/30/2015. The Idaho Department of Water Resources issued a Second Amended Final Order for Water Right No. 63-32573 in the name of the City of Eagle on March 9, 2012. One of the conditions of approval for the water right requires the permittee to monitor the ground water resource in the area according to a monitoring and reporting plan developed by Hydro Logic, Inc.

Hydro Logic, Inc. is under contract with the M3 Companies, LLC, under agreement with the City of Eagle, to perform the Spring Valley ground water monitoring and reporting requirements. Pursuant to the monitoring plan approved by the Department, Hydro Logic, Inc. submits these raw uncorrected data in compliance with the water right requirement. To date, there has been no ground water diverted under Permit No. 63-32573 so there are no water diversion volumes to report. Until such time that ground water production begins under this permit, there are also no requirements for data synthesis or an interpretive report of the data.

In one monitored well during the last monitoring period, Test Well #4 Zone 3, the pressure-transducer/data-logger instrument failed on 03/31/2015. The defective instrument was replaced with a used Schlumberger Micro-Diver unit (20m SN-H2425) on 04/24/2015 and a new Schlumberger Micro-Diver was ordered to replace it on the next monitoring loop. On 6/8/2015 the replacement logger (20m SN-H2425) was also unable to communicate and was replaced with a new Schlumberger Micro-Diver unit (20m SN-T2059). The instrument (20m SN-H2425) was sent to the manufacturer for possible data retrieval. Schlumberger was only able retrieve usable data from 4/27/2015 to 5/16/2015 and these data are included in this submittal. The missing three weeks of data from this one depth zone for the second half of 2015 did not coincide with either the annual water level high or water level low during this period and we did secure an interim hand measurement. In other words, no critical data were lost due to the instrument failure. Also on 6/8/2015, as recommended

by Hydro Logic, Inc. and allotted by our client, all older Solinst loggers were replaced with new Schlumberger (now called Van Essen) Micro-Diver loggers to help prevent future loss of data. A table of each monitored zone and installed logger has been added to the water level monitoring data spreadsheets.

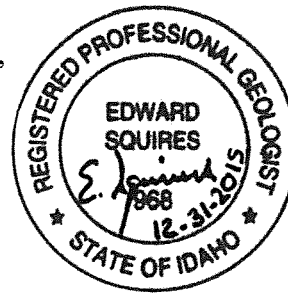
As mentioned in previous submittals, the SVR #7 Well digital water level measurements have drifted slightly from our hand-measured water level measurements. We had tentatively attributed this to potential leakage of mineral oil from the pump motor interfering with the electric sounding tape but our most recent measurement shows the two measurements to be in agreement? In any case, the discrepancy is less than 4 –inches and within the maximum accuracy range of this pumping well data-logger (100 meter).

Other than those very minor divergences, all of the instrumentation worked well and a complete water level record is intact for this monitoring network.

Please consider this e-mail as your transmittal letter.

Respectfully,

Ed Squires



c: Bill Brownlee, M3 Eagle, LLC  
Ken Acuff, City of Eagle

Ed Squires

**Hydro Logic, Inc.**

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