

**GROUNDWATER EXPLORATION PROGRAM
TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Prepared For:

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INTRODUCTION

Leggette, Brashears & Graham, Inc. (LBG) was retained by the Town of East Fishkill to complete a groundwater exploration program on the Cannon property located on Route 376 in the Town of East Fishkill, NY (figure 1). The groundwater exploration program was conducted to assess the yield potential of the stratified-drift (sand and gravel) and bedrock aquifers at the site. Exploratory well drilling was initiated in August 2012 and short-term yield testing conducted on successful test well locations. Stratified-drift test borings were drilled at 10 locations on the property to characterize the sand and gravel aquifer material underlying the site. Test wells were completed at six of the boring locations where suitable sand and gravel material was encountered. An 8-inch diameter bedrock test well, Bedrock Well 1, was also drilled on the property as part of the exploratory drilling program in December 2012.

A simultaneous aquifer test was conducted on Bedrock Well 1 and the two most productive sand and gravel test wells, TW-7 and TW-11, from January 8 through January 11, 2013. The 72-hour pumping test on Bedrock Well 1 was completed in accordance with the New York State Department of Environmental Conservation (NYSDEC) "Pump Test Procedures for Water Withdrawal Applications", January 2013. Test wells TW-7 and TW-11 were pumped for 48 hours during the 72-hour pumping test on Bedrock Well 1 to assess the combined yield potential of the stratified-drift and bedrock aquifers under simultaneous pumping conditions and to complete a safe yield assessment of the sand and gravel aquifer.

TEST WELL DRILLING

Four test borings were drilled along the Fishkill Creek at locations TW-1A, TW-4, TW-5 and TW-6 from August 27 through September 14, 2012 by the Stephen B. Church Company (Church). The locations of the test borings are shown on Plate 1 and copies of the geologic logs for these borings are included in Appendix I. The thickness of the stratified-drift deposits encountered in these borings ranged from 57 ft bg (feet below grade) at TW-1A to 102 ft bg at TW-6. The geology at these boring locations consisted of a bed of coarse sand with trace gravel

from approximately 10 ft bg to 20 ft bg and a very fine sand and silt layer which extended from approximately 20 ft bg to just above the top of bedrock. A fine to coarse sand with silt layer, ranging from approximately 5 ft (feet) to 9 ft thick, was present between the confining silt layer and bedrock in all of the borings.

Test wells were completed at boring locations TW-1A, TW-4 and TW-6 and test wells TW-1B and TW-4A were drilled adjacent to TW-1A and TW-4, respectively. The 2 ½-inch test wells were screened in the layer of fine to coarse silty sand encountered just above the bedrock. Subsequent well development and yield testing conducted on these test wells produced lower than anticipated yields of less than 10 gpm (gallons per minute) on TW-6, TW-1A and TW-4A and turbid water-quality conditions that did not clear were encountered in TW-4 and TW-1A when the wells were developed.

Additional test borings, TB-1C, TW-7, TB-8B, TB-9, TW-10 and TW-11, were drilled by the Layne Christensen Company (Layne) in November 2012. The locations of the test borings are shown on Plate 1 and copies of the geologic logs for these borings are included in Appendix I. Test wells were completed at boring locations TW-7, TW-10 and TW-11 where suitable aquifer material was encountered. An adjacent well, TW-7A, was drilled next to TW-7 for use in conducting short-term yield testing. The geology at TW-11 and TW-7/7A consisted of a layer of silty, fine to coarse sand and fine gravel which extended down to about 65 ft bg. Below this sand and gravel was very fine sand and silt down to the top of bedrock. The geology at TW-10 was more similar to the four borings along Fishkill Creek with a confining unit of very fine sand and silt and a fine to coarse silty sand layer between the confining layer and the top of bedrock.

In addition to the stratified-drift test borings, a bedrock test well (Bedrock Well 1), was drilled in December 2012 by Northern Drilling, Inc. (Plate 1). A copy of the well completion report for Bedrock Well 1 is included in Appendix II. The bedrock test well was completed with 22 feet of 12-inch outside diameter casing left in place and 85 ft of 8-inch diameter casing installed 10 ft into bedrock. The casing was grouted into place and an 8-inch diameter borehole was drilled to a total depth of 320 ft bg. Water-bearing fractures were encountered at 94, 110, 180 ft bg and 275 ft bg in the bedrock.

PRELIMINARY SHORT-TERM YIELD TEST

A short-term yield test was conducted on TW-7 on November 21, 2012. The test well was pumped for 5 hours and 40 minutes at a rate of 51.5 gpm. Water-level measurements were collected from the adjacent well TW-7A and from wells TW-1B and TW-4A during the test. Water-level drawdown stabilization was achieved in TW-7A and TW-1B during the test period and the wells demonstrated rapid water-level recovery following the shutdown of pumping. Water-level drawdown was also measured in TW-4A during the short-term test; however, the drawdown did not stabilize in this well during the test period and water-level recovery following shut down was slow.

Preliminary water-quality samples were collected from TW-7 during the November 2012 test. A copy of the laboratory report is included in Appendix VII. Iron and manganese concentrations were elevated in the test well at 4.68 mg/l (milligrams per liter) and 1.28 mg/l, respectively, which exceeded the New York State Department of Health (NSYDOH) drinking water standard maximum contaminant level (MCL) of 0.3 mg/l for both constituents. Dissolved iron and manganese analyses were subsequently completed on the samples; however, the filtration used to conduct the dissolved analysis was not successful in reducing the iron and manganese concentrations. The color value of 150 units was elevated and exceeded the MCL of 15 units. Turbidity was also elevated at 9.09 NTU (nephelometric turbidity units) which exceeds the MCL of 5 NTU. The calcium hardness reported for the well was 270 m/l, which is considered hard water.

A second short-term yield test was conducted on test well TW-4 on November 29, 2012 to assess the cause of the slow drawdown and recovery in TW-4A measured during the test on TW-7. At the start of the test, the water pumped from TW-4 was very turbid and the pumping rate of the well was fluctuating rapidly. The pumping rate was manually reduced to 5.5 gpm in an attempt to control the fluctuation. The discharge water from the well remained very turbid throughout the test period and the test was shut down after 3.5 hours of pumping when it was determined that the silt in the formation was likely clogging the well screen and interfering with the well's ability to pump at a steady rate.

AQUIFER TEST

An aquifer test was conducted on the Cannon property from January 8 through 11, 2013. The aquifer test included a 72-hour constant rate pumping test on Bedrock Well 1 and a simultaneous 48-hour pumping tests on TW-7 and TW-11. During the test period, water-level measurements were collected from Bedrock Well 1 and TW-7A to assess water-level drawdown and stabilization in the pumping wells. Water-level measurements were also collected from six other sand and gravel test wells (TW-1, TW-1A, TW-4, TW-4A, TW-6 and TW-10) completed during the drilling exploration program, three piezometers (PZ-1, PZ-2 and PZ-3) and one staff gage (SG-1) installed by LBG in surface-water features on the site, and 11 existing bedrock supply wells located near the Cannon property. The onsite and offsite water-level monitoring locations are shown on Plate 1 and figure 2. Hydrographs of the water-level measurements collected from the pumping wells and monitoring locations are included in Appendices III and IV.

At the start of the aquifer test period on January 8, a staggered pump startup schedule was conducted on Bedrock Well 1, TW-7 and TW-11 to assess the degree of mutual water-level interference between the wells under pumping conditions. Pumping was started as 10:03 in Bedrock Well 1, 11:18 in TW-7 and 12:54 in TW-11. The pumping of TW-7 and TW-11 ended at 12:55 on January 10, for a total of 48 hours and 1 minute of simultaneous pumping of the sand and gravel test wells. The pumping of Bedrock Well 1 ended at 11:03 on January 11 for total of 73 hours of pumping in the bedrock well.

The water from Bedrock Well 1, TW-7 and TW-11 was discharged near the bank of Fishkill Creek, downstream of PZ-2, to allow the discharge water to flow off the property and prevent recharge of the sand and gravel and bedrock aquifers during the test period. The discharge locations for the wells are shown on plate 1. During the test, the temperature and conductivity was measured in the discharge water of Bedrock Well 1, TW-7, TW-11 and Fishkill Creek for comparison as part of the assessment for potential groundwater under the influence of surface water (GWUDI). Graphs of the temperature and conductivity measurements collected are included in Appendix VIII.

Precipitation was monitored using a manual rain gage placed on the Cannon property during the test and also at a local rain gage station in nearby Wappinger, NY that publishes

hourly precipitation totals on the internet. Daily precipitation is shown on the hydrographs for the pumping wells and onsite monitoring locations for reference. During the background data collection period, 0.08 inch and 0.05 inch of precipitation were received on January 5 and 6, respectively. No precipitation was received during the 72-hour pumping test period. Following shut down of Bedrock Well 1 on January 11th, a rain event totaling 0.29 inch occurred which started at approximately 17:00, 5 hours after shut down of the pump in Bedrock Well 1. This rain event, which was accompanied by a rise in temperature, resulted in the melting of the regional snow cover and an increase in surface-water runoff. Precipitation was also received on January 12 and January 14. Both days precipitation totals were 0.04 inch. A summary table of the precipitation received during the aquifer test period is provided below.

Table: Summary of Precipitation Received During Aquifer Test Period, Wappinger, New York

Date	Approximate Duration of Precipitation Event	Total Precipitation (inches)
1/4/13	NA	0.00
1/5/13	11:00-14:00	0.08
1/6/13	11:00-11:30	0.05
1/7/13	NA	0.00
1/8/13	NA	0.00
1/9/13	NA	0.00
1/10/13	NA	0.00
1/11/13	17:00-21:00	0.29
1/12/13	2:00-3:00	0.04
1/13/13	5:00-6:00	0.04
1/14/13	NA	0.00

NA not applicable

Water-level monitoring equipment was installed in the onsite and offsite monitoring locations on or before January 4, 2013, prior to the start of the aquifer test, to collect background water-level information. Water levels were measured manually and with automated pressure transducers during the test period. The monitoring equipment was removed on January 14, 2013, at the end of the water-level recovery period following the end of the pumping tests.

Water samples were collected from Bedrock Well 1, TW-7 and TW-11 during the aquifer test. The samples were taken to Envirotest Laboratories, Inc. located in Newburgh, New York for analysis. Samples from Bedrock Well 1 were analyzed for all parameters required by the

NYSDOH Sanitary Code Part 5, Subpart 5-1. In addition, a microscopic particulate analysis (MPA) sample was collected as part of the assessment for potential GWUDI. Water samples collect from test wells TW-7 and TW-11 and analyzed for volatile organic compounds (VOCs) and a shortened list of the Part 5 parameters to conduct a preliminary assessment of the water quality of the sand and gravel aquifer and potential treatment requirements in the future.

Bedrock Well 1

The pumping in Bedrock Well 1 was started at 10:03 on January 8, 2013. The pumping rate at the start of the test was set at 200 gpm. Based on LBG's assessment of the water-level drawdown trend in the well, the rate was increased incrementally from 200 gpm to 350 gpm over the first hour of the test period. At 11:00 on January 8, the pumping rate of the well reached 350 gpm, which was the maximum capacity of the test pump installed in the well. Bedrock Well 1 was pumped at 350 gpm for the remaining 72 hours of the pumping test.

The static water level in Bedrock Well 1 was 4.29 ft btoc (feet below top of casing) prior to the start of pumping. At the end of test at 11:03 on January 11, the pumping water level in the well was 28.05 ft btoc, for a total water-level drawdown of 23.76 feet during the pumping test. Water-level drawdown in Bedrock Well 1 was stable for the last 70 hours of the test period. No change in water-level drawdown trend in Bedrock Well 1 was observed during the test period as a result of the start up or shut down of pumping in TW-7 and TW-11.

Rapid water-level recovery occurred in Bedrock Well 1 after shut down of the pumping test on January 11. Ninety (90) percent water-level recovery was reached 20 minutes after shut down of the pump. The rapid water-level recovery occurred prior to the start of the rain event at 17:00 on January 11. The water level in the well reached 100-percent recovery to the pre-test static level approximately 41 hours after shut down of the pump and continued to rise an additional 0.3 foot beyond the initial static level during the post-test data collection period. This increase in static water-level height compared to the pre-test period was likely the result of the regional groundwater recharge from the rain event and snow melt which occurred during the recovery period.

The hydrograph and a summary table of water-level measurements collected from Bedrock Well 1 during the aquifer test are included in Appendix III.

Test Well TW-7 and TW-11

Water-level measurements were collected from TW-7A to assess water-level drawdown and stabilization for the sand and gravel test well locations TW-7 and TW-11 during the pumping test. Suction lift pumps were used to pump TW-7 and TW- 11. The suction lift pumps thread into the top of the 2 ½-inch casing of the test wells which prevents the direct collection of water-level measurements from the pumping wells. The hydrograph and a summary table of water-level measurements collected from TW-7A during the aquifer test are included in Appendix III.

Prior to the start of pumping in Bedrock Well 1 on January 8, the static water level in TW-7A was 3.16 ft btoc. The pumping of Bedrock Well 1 caused 0.26 feet of drawdown in TW-7A before the pumping of TW-7 was started at 11:17 on January 8, 2013.

The initial pumping rate of TW-7 following startup of the suction-lift pump at 11:18 was 60.8 gpm. The pumping rate declined slightly during the first several hours of the test period and reached 55 gpm at 16:00 on January 8. The pumping rate in well TW-7 remained 55 gpm for the duration of the sand and gravel well test period.

The pumping of TW-11 was started at 12:54 on January 8, 2013. The pumping rate of TW-11 was 74 gpm for the duration of the test period. The pumps on TW-7 and TW-11 were shut down twice during the test period to conduct routine pump maintenance. The first shut down occurred at 16:19 on January 8 and the second shut down occurred at 4:05 on January 9. The pumps were off for less than five minutes during the maintenance periods and the shut downs did not affect the test data.

The final water level in TW-7A prior to the end of the 48-hour sand and gravel pumping test was 5.73 ft btoc. After shut down of TW-7 and TW-11, the water level in TW-7A recovered to a height of 3.76 ft btoc. Therefore, the total drawdown caused by the simultaneous pumping of TW-7 and TW-11 at a combined rate of 129 gpm was 1.97 feet.

A second water-level recovery occurred in TW-7A following shut down of the pump in Bedrock Well 1 on January 11. The drawdown in TW-7A at the end of the bedrock well test on January 11th was 0.6 feet. However, during the background monitoring period before the start of

pumping, a regional declining trend in the groundwater level in the sand and gravel wells was observed. This regional decline in groundwater level would likely have continued during the test period because no precipitation was received. Therefore, the static water level for TW-7A has been corrected to account for the regional decline in water level and the corrected drawdown in TW-7A as result of the pumping of bedrock Well 1 is 0.51 foot.

The water level in TW-7A recovered rapidly at the end of both the sand and gravel and bedrock well tests. Ninety (90) percent water-level recovery in TW-7A was reached before 17:00 on January 11, prior to the start of the post-test rain event. Once the precipitation event started on January 11, the rain and snow melt affected the groundwater level in the TW-7A which can be seen on the hydrograph.

MONITORING LOCATIONS

During the aquifer test, water-level measurements were collected from onsite and offsite monitoring locations to assess the potential for water-level drawdown interference from pumping of the sand and gravel and bedrock test wells on the Cannon property. Water-level measurements were collected manually and with pressure transducers from six onsite sand and gravel test wells, TW-1A, TW-1B, TW-4, TW-4A, TW-6 and TW-10, which were completed during the drilling exploration program.

Three piezometers and one staff gage were installed in surface-water features located on the Cannon property near the pumping wells (Plate 1). The piezometers were constructed from a 1-foot long, 1.25-inch diameter, stainless-steel, slotted well screen attached to a 5-foot long, 1.25-inch diameters section of galvanized steel pipe. The piezometer screens were installed a minimum of 2 ft bg. Groundwater level measurements were recorded from the interior of the piezometer and surface-water measurements, where surface water was present, was measured on the exterior of the piezometers.

Piezometer PZ-1 was installed in the wetland feature adjacent to test Wells TW-7/7A and TW-11. PZ-2 was installed in Fishkill Creek, upgradient of the discharge location for the wells during the test. PZ-3 was installed in a wetland area located between TW-10 and Bedrock Well 1. The staff gage, SG-1 was installed in the small pond located between TW-11 and Fishkill Creek.

Water-level data was also collected from eleven offsite bedrock supply wells during the aquifer test. The bedrock wells included domestic water-supply wells for nine residential properties, the supply well for the Wastewater Treatment Plant to the south of Bedrock Well 1 and the former water-supply well for the Town Library located on Route 376.

The onsite and offsite water-level monitoring locations are shown on Plate 1 and figure 2. Hydrographs of the water-level measurements collected from the monitoring locations are included in Appendix IV.

Onsite Sand and Gravel Monitoring Wells

Water-level drawdown was measured in all of the onsite wells during the aquifer test. Drawdown occurred from pumping of both the sand and gravel and bedrock aquifers. Water-level drawdown as a result of pumping TW-7 and TW-11 in the monitoring wells was evaluated based on the recovery that was observed on January 10 when the pumping of the sand and gravel wells ended. The drawdown caused by the pumping TW-7 and TW-11 and the distance to the pumping center in the sand and gravel aquifer is summarized in the table below. The drawdown decreases with increasing distance from the pumping center which is normal for a sand and gravel aquifer formation.

Table: Summary of Monitoring Well Distance to Sand and Gravel Pumping Center and Water-Level Drawdown Measured During 48-Hour Pumping Test on Sand and Gravel Wells

Well ID	Distance to Pumping Center of Sand and Gravel wells (feet)	Drawdown from Sand and Gravel Wells Pumping (feet)
TW-7A	24.2	1.97
TW-10	150	0.58
TW-1A	245	0.31
TW-1B	247	0.28
TW-4	580	ND
TW-4A	582	0.09
TW-6	1,360	ND

ND not discernible

A second water-level recovery event occurred in the monitoring wells following shut down of the pump in Bedrock Well 1 on January 11. As described for TW-7A above, the

drawdown values for the monitoring wells at the end of the bedrock well test were adjusted to account for the slight natural drawdown trend observed during the background monitoring period. The drawdown caused by the pumping of Bedrock Well 1 and the distance to the bedrock well is summarized in the table below.

Table: Summary of Monitoring Well Distance to Bedrock Well 1 and Water-Level Drawdown Measured During 72-Hour Pumping Test Conducted on Bedrock Well 1

Well ID	Distance to Bedrock Well 1 (feet)	Drawdown from Pumping of Bedrock Well 1(feet)
TW-10	275	1.06
TW-7A	440	0.51
TW-4	335	5.43
TW-4A	337	10.64
TW-1A	610	0.15
TW-1B	612	0.14
TW-6	960	3.07

Unlike the sand and gravel aquifer, the drawdown caused by the bedrock well pumping does not uniformly decrease with increasing distance from the pumping center. The largest amount of drawdown was observed in TW-4/4A and TW-6. These test wells were screened in the silty sand layer directly overlying the top of bedrock below a thick confining unit of fine sand and silt. For TW-7, TW-7A and TW-11, the confining unit of very fine sand and silt is below the sand and gravel layer where the wells are screened.

Onsite Piezometers and Staff Gage

Water-level measurements were collected from three piezometers during the aquifer test conducted on the Cannon property (Plate 1). Water-level measurement collection was also attempted using a staff gage in the small onsite pond located between TW-11 and the Fishkill Creek. However, the surface water in the pond was frozen for the duration of the test period. No hydrograph was created for SG-1 since no relevant data was collected during the pumping test period.

Piezometer PZ-1 was installed approximately 15 feet northwest of TW-7A. Groundwater level measurements were collected from the interior of PZ-1 during the test. No surface-water measurements are reported on the hydrograph during the pumping test period because surface-

water was frozen for the duration of the test. The groundwater in PZ-1 showed a slight naturally declining trend prior to the start of the pumping. No change in the water level trend was measured during the pumping test period. A slight rise in groundwater level was measured during the recovery period; however, the water level did not begin to rise until after the start of the precipitation event at 17:00 on January 11. Unfrozen surface water was measured on the exterior of the piezometer on the last day of the recovery period on January 14 as a result of the change in weather conditions. No groundwater level drawdown was discernible in PZ-1 as a result of pumping the onsite sand and gravel test wells and bedrock well.

Piezometer PZ-2 was installed in Fishkill Creek south of TW-4/4A. Groundwater level and surface-water level measurements were collected from the interior and exterior of PZ-2 during the test. The water level showed a slight natural declining trend prior to the start of the pumping which continued throughout the test period and for several hours following shut down of Bedrock Well 1 on January 11. If the groundwater level had been impacted as a result of pumping the onsite wells, a rise in water level would have been measured immediately upon shut down of the pumping wells, which did not occur in PZ-2. A rise in groundwater and surface-water levels was measured during the recovery period after the start of the precipitation event at 17:00 on January 11. No water-level drawdown was discernible in PZ-2 as a result of pumping the onsite sand and gravel test wells and bedrock well.

Piezometer PZ-3 was installed approximately 175 feet north of Bedrock Well 1. Groundwater level measurements were collected from the interior of PZ-3 during the test. No surface-water measurements are reported on the hydrograph during the pumping test period because surface-water was frozen for the duration of the test. The groundwater in PZ-3 showed a slight natural declining trend prior to the start of the pumping which continued throughout the test period and for several hours following shut down of Bedrock Well 1 on January 11. A slight rise in groundwater level was measured during the recovery period; however, the water level did not begin to rise until after the start of the precipitation event at 17:00 on January 11. Unfrozen surface water was measured on the last day of the recovery period on January 14. No groundwater level drawdown was discernible in PZ-3 as a result of pumping the onsite sand and gravel test wells and bedrock well.

Existing Bedrock Supply Wells

Water-level measurements were collected from eleven existing bedrock supply wells located near the Cannon property during the pumping test period. The bedrock wells that were monitored included domestic water-supply wells for nine residential properties, the supply well for the Wastewater Treatment Plant to the south of Bedrock Well 1 and the former water-supply well for the Town Library located on Route 376 (figure 2). No water-level drawdown was observed in any of the offsite bedrock wells monitored during the test period as a result of pumping on the Cannon property. Copies of the hydrographs for the offsite wells monitored are included in Appendix IV.

AQUIFER PARAMETER AND SUSTAINABLE YIELD

An analysis of the pumping test data was completed to calculate the transmissivity and storage coefficient for the aquifer and to estimate the potential safe yield of a full-sized sand and gravel production well drilled near TW-7 and TW-11. A distance versus drawdown analysis was completed using data from 180-day water-level drawdown projections for the onsite monitoring wells (Appendix V). The water-level projections were completed using the combined drawdown from the simultaneous pumping of TW-7, TW-11 and Bedrock Well 1. The resulting distance versus drawdown graph shows the theoretical drawdown at the production well site after 180 days of continuous pumping. The transmissivity value of the formation near TW-7 and TW-11 calculated from the analysis is 29,520 gpd/ft (gallons per day per foot) and the storage coefficient is 0.022.

Using the calculated transmissivity, a specific capacity for the aquifer can be estimated. The result of the specific capacity calculation is dependent on whether the aquifer is confined or unconfined. The geologic logs for TW-7 and TW-11 describe the formation in that area as unconfined. However, other borings at the site showed a significant confining unit of very fine sand and silt on the property. Therefore, a range for specific capacity at the location of TW-7/TW-11 has been calculated using both the confined and unconfined variables. The estimated specific capacity range is 14.76 gpm/ft (gallon per minute per foot) to 19.68 gpm/ft.

A theoretical yield estimate can be calculated by multiplying the specific capacity by the saturated thickness of the sand and gravel formation at the well site. The saturated thickness at

TW-7/TW-11 is approximately 48.4 feet from the top of the well screen to the water table. Subtracting 5 feet to allow for a margin of safety above the top of screen, the saturated thickness becomes 43.4 feet. Multiplying the specific capacity by the available saturated thickness provides the estimated yield values. To be conservative, the values are reduced by 25% to account for variables such as well efficiency that cause a reduction in flow as well yield increases. Based on the site-specific parameters for TW-7 and TW-11, the estimate yield for the sand and gravel formation at this location is 480 gpm to 640 gpm.

Sieve analyses conducted on the formation samples collected from TW-7 and TW-11 indicate that a well design consisting of a 10-foot, 14-inch diameter, 90-slot, high-velocity stainless steel well screen set from approximately 53 ft bg to 63 ft bg would be a suitable to obtain the yields estimated above from this location. However, sieve analysis of formation samples collected from the actual location of the new production well would need to be conducted to confirm the proposed well construction design is appropriate. A copy of the sieve data from the samples collected from TW-7 and TW-11 is included on Appendix VI.

The sustainable yield of 350 gpm for Bedrock Well 1 was demonstrated by the stabilized water-level drawdown which occurred during the 72-hour pumping test. Therefore, the combine estimated yield for the bedrock and sand and gravel aquifers based on the aquifer test conducted is 830 gpm to 990 gpm or 1.2 mgd (million gallons per day) to 1.4 mgd.

WATER QUALITY

Water samples were collected from Bedrock Well 1, TW-7 and TW-11 during the aquifer test on January 10, 2013. The samples were taken to Envirotest Laboratories, Inc. located in Newburgh, New York for analysis. Samples from Bedrock Well 1 were analyzed for all parameters required by the NYSDOH Sanitary Code Part 5, Subpart 5-1 and a MPA sample was collected for the assessment for potential GWUDI. Water samples collect from test wells TW-7 and TW-11 were analyzed for volatile organic compounds (VOCs) and a shortened list of the Part 5 parameters to conduct a preliminary assessment of the water quality of the sand and gravel aquifer and potential treatment requirements in the future.

Additional VOCs samples were collected from Bedrock Well 1, TW-7 and TW-11 on January 9, approximately 24 hours after the start of the test and from Bedrock Well 1 on

January 11 prior to the end of the bedrock well test. The additional VOC samples were collected to assess whether the pumping of large volumes of water could potentially mobilize VOC contaminants from offsite properties near the Cannon property. Copies of the laboratory reports for the samples collected are included in Appendix VII.

Bedrock Well 1

For the water-quality samples collected for the NYSDOH Part 5, Subpart 5-1 analysis, all parameters were reported to meet drinking water standards with the exception of iron, manganese and color. The iron concentration for Bedrock Well 1 was reported to be 0.523 mg/l which exceeds the NYSDOH MCL for iron of 0.3 mg/l. The manganese concentration of 0.285 mg/l does not exceed the individual MCL of 0.3 mg/l for manganese; however, it exceeds the combined iron and manganese MCL of 0.5 mg/l. The reported color for the water sample from Bedrock Well 1 was 20 units which exceeds the MCL of 15 units.

The turbidity concentration of 4.94 NTU in Bedrock Well 1 was also somewhat elevated. Although the turbidity concentration does not exceed the MCL of 5 NTU, the iron, manganese and color criteria exceedances in Bedrock Well 1 are likely related to elevated turbidity. Additional development by pumping of Bedrock Well 1 will likely decrease the turbidity level in the well and result in a reduction in the iron, manganese and color concentrations to below MCL criteria. If additional development is not successful in sufficiently reducing concentrations, treatment would be needed.

The sodium concentration in Bedrock Well 1 was 45 mg/l which exceeds the recommended NYSDOH limit of 20 mg/l for people on severely sodium restricted diets. Notification of water system customers is required, but no treatment is needed. The slightly elevated sodium of 45 mg/l and chloride concentration of 79.3 mg/l are higher than normal background concentrations but are typical of suburban areas with seasonal road salt application. The chloride concentration does not exceed the NYSDOH MCL of 250 mg/l.

The calcium hardness concentration for Bedrock Well 1 was 206 mg/l which is considered hard water. Treatment to reduce the hardness may be warranted.

Trace detections of methylene chloride were reported in the VOC samples collected on January 9 and January 11 from Bedrock Well 1. Methylene chloride was not detected in the Part 5 VOC sample collected on January 10. The concentrations of methylene chloride from the

January 9 sample and January 11 sample were 0.629 ug/l (microgram per liter) and 0.669 ug/l, just above the labs reporting limit of 0.5 ug/l. The reported concentrations do not exceed the NYSDOH MCL of 5 ug/l. Methylene chloride is a common laboratory contaminant and the trace concentrations reported in the samples are attributed to this considering the Part 5 VOC sample reported methylene chloride as not detected, the concentrations reported were very low and no other VOCs were detected in any of the samples collected.

The results of the MPA sample collected from Bedrock Well 1 reported low potential risk for GWUDI. The temperature and conductivity measurements collected from Fishkill Creek and the discharge water from Bedrock Well 1 show no correlation during the test period which also indicates a low potential risk. The temperature measurement collected from Bedrock Well 1 on the first day of the test was slightly lower than the data reported from the remainder of the test period. The lower temperature reading was likely the result of outside influence of the cold ambient air temperature on the well and discharge appurtenance. The temperature data from later in the test period is more representative of the groundwater conditions in the bedrock aquifer. Graphs for the temperature and conductivity measurements collected are included in Appendix VIII.

TW-7

Similar to the November 2012 samples collected from TW-7, the iron, manganese, calcium hardness, color and turbidity were elevated in TW-7 in the samples collected from TW-7 during the test period. The elevated turbidity of 50.9 NTU is significantly high and likely a contributing factor for the high concentrations reported for iron 4.34 mg/l, manganese 1.27 mg/l and color 100 units which exceed NYSDOH MCL criteria. Careful development of a properly designed and installed sand and gravel production well will likely reduce these concentrations; however, it is very likely that concentrations would remain above the MCL and treatment would be needed. The calcium hardness concentration was 202 mg/l which may also warrant treatment to reduce hardness.

All VOCs were reported as not detected in both the January 9th and January 10th samples collected. The temperature and conductivity measurements collected from Fishkill Creek and the discharge water from TW-7 show no correlation during the test period which indicate a low

potential risk for GWUDI. Graphs for the temperature and conductivity measurements collected are included in Appendix VIII.

TW-11

The concentrations of iron, manganese, calcium hardness, color and turbidity were also elevated in TW-11. The elevated turbidity of 50.8 NTU is significantly high and likely is a contributing factor for the high concentrations reported for iron 4.5 mg/l, manganese 0.9 mg/l and color 100 units. Careful development of a properly designed and installed sand and gravel production well will likely reduce these concentrations; however, it is very likely that concentrations would remain above the MCL and treatment would be needed. The calcium hardness concentration was 188 mg/l which may also warrant treatment to reduce hardness.

All VOCs were reported as not detected in both the January 9 and January 10 samples collected. The temperature and conductivity measurements collected from Fishkill Creek and the discharge water from TW-11 show no correlation during the test period which indicate a low potential risk for GWUDI. Graphs for the temperature and conductivity measurements collected are included in Appendix VIII.

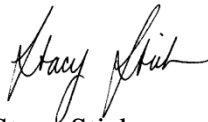
CONCLUSIONS

- Bedrock Well 1 demonstrated stabilized yield and water-level drawdown at a pumping rate of 350 gpm during the 72-hour aquifer test conducted.
- TW-7 and TW-11 were pumped at a combined rate of 129 gpm during the simultaneous aquifer test conducted. Stabilized water-level drawdown occurred in the adjacent monitoring well TW-7A during the test period.
- Water-level drawdown was measure in the onsite sand and gravel monitoring wells from pumping of bedrock Well 1 and sand and gravel test wells during the pumping test period. No water-level drawdown was measured in the onsite piezometers as a result of pumping in either aquifer and no water-level drawdown was measured in any of the offsite bedrock wells monitored during the test period.

- Using water-level drawdown information from the monitoring wells during simultaneous pumping in the bedrock and sand and gravel aquifers, 180-day drawdown projections were completed for the onsite monitoring wells. The projected drawdowns were used to create a distance versus drawdown analysis and calculated an aquifer transmissivity of 29,520 gpm/ft, a storage coefficient of 0.22 and an estimated specific capacity range of 14.76 gpm/ft to 19.19.68 gpm/ft for the sand and gravel formation at the location of TW-7/TW-11. Based the aquifer saturated thickness, the estimated yield for a full-size sand and gravel production well at the location of TW-7/11 is 480 gpm to 640 gpm.
- The iron, manganese and color concentrations in Bedrock Well 1 exceeded the NYSDOH MCL criteria. Additional development by pumping the well to waste to reduce turbidity would likely decrease these concentrations; however, treatment may be required. The sodium concentration of 45.0 mg/l exceeds the NYSDOH notification level for people on sodium restricted diets and the calcium hardness of 206 mg/l indicates hard water that may require treatment. Trace concentration of methylene chloride were reported in two of the three VOC samples collected. Methylene chloride is a common laboratory contaminant and the detections are attributed to this.
- The iron, manganese, color and turbidity concentrations in TW-7 and TW-11 exceeded the NYSDOH MCL criteria. Careful development of a properly designed and installed sand and gravel production well would likely reduce these concentrations; however, it is very likely that concentrations would remain above the MCL and treatment would be needed. The calcium hardness in TW-7 and TW-11 were also elevated and treatment may be needed to reduce hardness.
- Based on the bedrock aquifer test conducted at the site, with the approval of the NYSDOH, Dutchess County Department of Health, and the New York State Department of Environmental Conservation, Bedrock Well 1 could be converted to a production well yielding 350 gpm (504,000 gallons per day). Based on the available drawdown in Bedrock Well 1 at the end of the test period, it is likely that yields higher than 350 gpm from the bedrock aquifer are achievable.

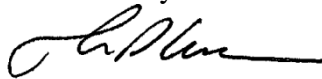
- The sand and gravel aquifer in the vicinity of TW-7 and TW-11 is also productive with an estimated yield capacity of 480 gpm to 640 gpm. A full-sized sand and gravel production well would need to be installed and a second aquifer test conducted to demonstrate stabilized yield and water-level drawdown before approval to bring the well into service could be pursued.
- Based on the aquifer testing conducted on the Cannon Property to date, the combined yield estimate of the bedrock and sand and gravel wells is 1.2 to 1.4 mgd.
- LBG recommends that groundwater resource development in the bedrock aquifer be pursued first on the Cannon property. The site affords adequate space for the drilling of additional high-yielding bedrock wells at favorable locations. The cost for bedrock well construction is significantly lower than sand and gravel production wells and the concentrations of iron and manganese were lower in the bedrock aquifer which would reduce potential treatment costs. Consideration should be given to completing a larger-diameter (10-inch) bedrock production wells to increase the maximum yield potential of the well(s).

LEGGETTE, BRASHEARS & GRAHAM, INC.



Stacy Stieber
Senior Hydrogeologist

Reviewed By:



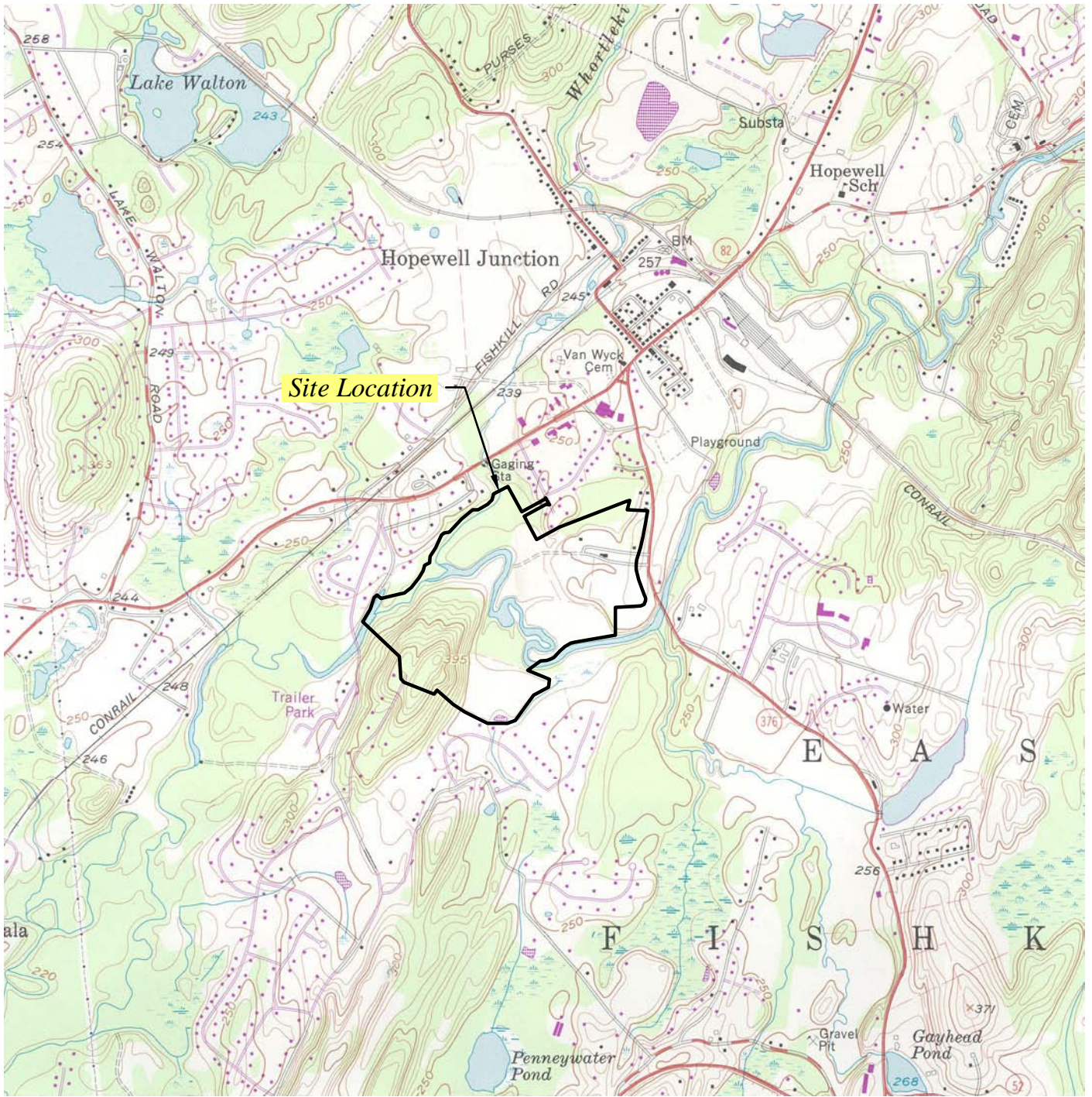
Thomas P. Cusack, CPG
Principal

cmm

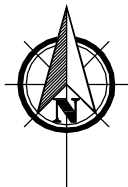
March 5, 2013

H:\East Fishkill (T)\2013\Pumping Test Report, Final.docx

FIGURES



SOURCE: USGS TOPOGRAPHIC QUADRANGLE HOPEWELL JUNCTION, NEW YORK (PHOTOREVISED 1981)



QUADRANGLE LOCATION

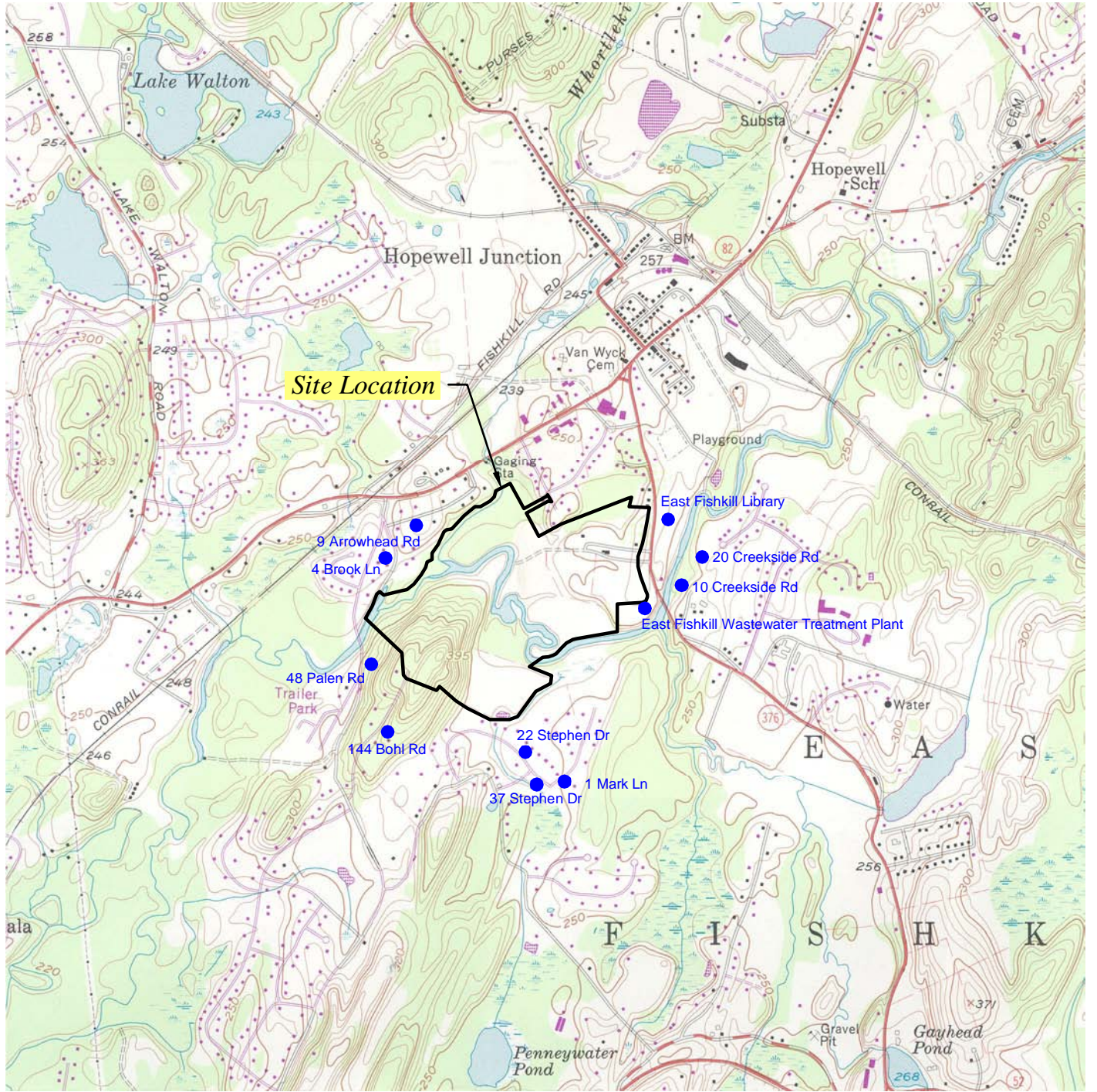


**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

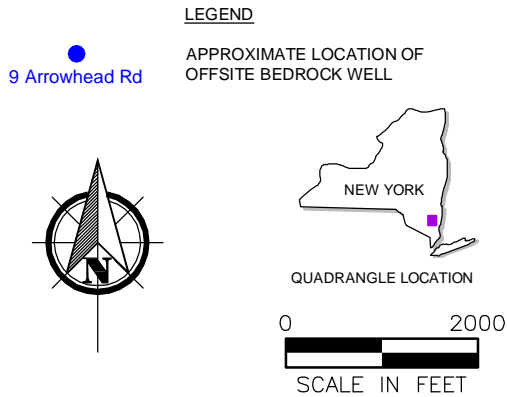
SITE LOCATION MAP

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Groundwater and Environmental Engineering Services
		4 Research Drive
		Suite 301
		Shelton, Connecticut 06484
		(203) 929-8555
DRAWN:	RAC	CHECKED: SS
		DATE: 02/22/13 FIGURE: 1





SOURCE: USGS TOPOGRAPHIC QUADRANGLE HOPEWELL JUNCTION, NEW YORK (PHOTOREVISED 1981)



TOWN OF EAST FISHKILL CANNON PROPERTY EAST FISHKILL, NEW YORK			
OFFSITE WELL MONITORING LOCATIONS			
DATE	REVISED	PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC.	
		Professional Groundwater and Environmental Engineering Services	
		4 Research Drive Suite 301 Shelton, Connecticut 06484 (203) 929-8555	
DRAWN:	RAC	CHECKED:	SS
		DATE:	02/22/13
		FIGURE:	2

APPENDIX I

Record of Test Drilling
THE STEPHEN B CHURCH COMPANY
 OXFORD, CT

Client E Fishkill Test well # 1A PAGE 1
 Date 8/27/2012 Driller Fred OF 1

Depth from Surface	Took water?	Resistance?	Hammer weight:	500 #	Drive shoe
From	Very good	Very very hard	Screens slot sizes from bottom:	4.67'	NA
0	Good	Very hard	Overall screen length:	0.020" (2)	NA
5'4"	Some	Hard	Bottom of screen fm top of casing:	11'00.020" (2)	1' 6"
10'8"	Poor	Good	2 1/2 inch pipe:	57'	1 1/2 hr
16'0"	None	Good	Brown silty clay	48'	40 gpm
21'4"	Some	Good	Brown clay, some with some coarser material		
26'8"	Some	Good	Gray very silty fine sand, some coarse sand		
32'0"	Some	Good	Same		
37'4"	Poor	Good	Gray silty fine to medium sand		
42'8"	Poor	Good	Gray very silty fine sand		
48'0"	Some	Good	Same		
53'4"	Some	Hard	Same		
57'2"	Some	Very hard	Gray-brown fine sand, coarser last two feet		
			Gray silty - clayey medium to coarse sand		
			Refusal		
			Set 0.020 inch slot screen from 47 to 57 feet, developed with air compressor,		
			pumped 40 gpm with centrifugal pump		
			Top of casing 1' 6" above grade		

Record of Test Drilling
THE STEPHEN B CHURCH COMPANY
 OXFORD, CT

Client E Fishkill Test well # 4 Driller Fred Hammer weight: 500# Drive shoe 1
 Date 8/30,31/12 Resistance? Very very hard Static water level fm top of casing: 4.55' Curb box/ protective casing NA
 Took water? Very good Screens slot sizes from bottom: 0.020" Bags of sakrete NA
 Overall screen length: 7'4" with riser Stickup above grade
 Bottom of screen fm top of casing: 2 1/2 inch pipe: 69' 4" Time of development 2 hrs
 Estimated yield 60

Depth from Surface	Took water?	Resistance?	Hammer weight:	500#	Drive shoe
From					
0	Very good	Very very hard	Static water level fm top of casing:	4.55'	Curb box/ protective casing
5'4"	Good	Very hard	Screens slot sizes from bottom:	0.020"	Bags of sakrete
10'8"	Some	Hard	Overall screen length:	7'4" with riser	Stickup above grade
16'0"	Poor	Good	Bottom of screen fm top of casing:		Time of development
21'4"	None	Good	2 1/2 inch pipe:	69' 4"	Estimated yield
26'8"	Some	Good	Brown clay with some medium sand		
32'0"	Some	Good	Same		
37'4"	Some	Good	Gray silty fine to medium sand		
42'8"	Some	Good	Gray silty fine to coarse sand and gravel		
48'0"	None	Good	Gray silty very fine sand		
53'4"	None	Good	Same		
58'8"	None	Good	Gray silty/clayey very fine sand		
64'0"	None	Hard	Gray clay, silt, very fine sand		
69'4"	None	Hard	Gray clay, silt, very fine sand		
	None	Hard	Gray clay, silt, very fine sand		
	None	Hard	Gray clay, silt, very fine sand		
	None	Hard	Gray clay, silt, very fine sand		
	Little	Very hard	Gray clay, silt, very fine sand		
	Little	Very hard	Gray silty fine to medium sand, some fine gravel		
			Set 0.020 inch slot screen from 69'8" TO 74'8", developed with air compressor, pumped 60 gpm with centrifugal pump, dirty		

Record of Test Drilling
THE STEPHEN B CHURCH COMPANY
 OXFORD, CT

Client E Fishkill Test well # 4A Driller Fred Hammer weight: 500# Drive shoe 1
 Date 9/8/2012 Static water level fm top of casing: 4.55' Curb box/ protective casing NA
 Screens slot sizes from bottom: 0.010" Bags of sakrete NA
 Overall screen length: 7'4" with riser Stickup above grade
 Bottom of screen fm top of casing: Time of development
 2 1/2 inch pipe: 69' 4" Estimated yield NA
 Log not recorded above 58'8"

Depth from Surface		Took water?	Resistance?	Hammer weight:	500#	Drive shoe
From	To	Very good	Very very hard	Static water level fm top of casing:	4.55'	Curb box/ protective casing
58'8"	64'0"	Good	Very hard	Screens slot sizes from bottom:	0.010"	Bags of sakrete
64'0"	69'4"	Some	Hard	Overall screen length:	7'4" with riser	Stickup above grade
69'4"	74'8"	Poor	Good	Bottom of screen fm top of casing:		Time of development
74'8"		None		2 1/2 inch pipe:	69' 4"	Estimated yield
		None		Log not recorded above 58'8"		
		None	Very hard	Gray clay, silt, very fine sand		
		None	Very hard	Gray clay, silt, very fine sand		
		Some	Very hard	Same to 71 feet, then gray clayey sand with fine to medium gravel		
				Refusal		
				Set 5 feet of .010 inch slot screen at bottom of well;		
				jacked and developed bottom 1 foot of screen; pumped zero		
				Jacked and developed bottom 2 feet of screen, blew very little water with compressor		
				Drove pipe over screen at TW 4 so that less screen was exposed; well pumped		
				15 gpm, but water was very dirty and did not clear up		

Record of Test Drilling
THE STEPHEN B CHURCH COMPANY
 OXFORD, CT

Client E Fishkill Test well # 5 Date 9/13/2012 Driller Joe Hammer weight: _____
 Resistance? _____
 Took water? _____
 Static water level fm top of casing: _____
 Screens slot sizes from bottom: _____
 Overall screen length: _____
 Bottom of screen fm top of casing: _____
 2 1/2 inch pipe: _____
 Topsoil, brown gray clay to 9'; then coarse sand and gravel to 10' 6"
 Gray silty sand and gravel
 Gray silty very fine sand
 Same
 Same
 Same
 Gray silty/ clayey very fine sand
 Gray silt and clay
 Same
 Same
 Same
 Same
 Same
 Same
 Same
 Same
 Same

Depth from Surface		Resistance?	Took water?	500#	Drive shoe
From	To				
0	10'8"	Very very hard	Very good	NA	Curb box/ protective casing
10'8"	16'0"	Very hard	Good	None	Bags of sakrete
16'0"	21'4"	Hard	Some	None	Stickup above grade
21'4"	26'8"	Good	Poor	NA	Time of development
26'8"	32'0"	Good	None	42'8" left	Estimated yield
32'0"	37'4"	Good	None		
37'4"	42'8"	Good	None		
42'8"	48'0"	Good	None		
48'0"	53'4"	Good	None		
53'4"	58'8"	Fair	None		
58'8"	64'0"	Fair	None		
64'0"	69'4"	Fair	None		
69'4"	74'8"	Fair	None		
74'8"	80'0"	Fair	None		
80'0"	85' 4"	Fair	None		

Record of Test Drilling
THE STEPHEN B CHURCH COMPANY
 OXFORD, CT

Client E Fishkill Test well # 6 Driller Fred Hammer weight: 500# Drive shoe Curb box/ protective casing
 Date 8/28,29/12 Resistance? Very very hard Static water level from top of casing: 0.020" Curb box/ protective casing
8/28,29/12 Took water? Very good Screens slot sizes from bottom: 7"4" with riser Bags of sakrete
8/28,29/12 Resistance? Very hard Overall screen length: 101'8" Stickup above grade
8/28,29/12 Resistance? Hard Bottom of screen fm top of casing: 96' Time of development
8/28,29/12 Resistance? Good 2 1/2 inch pipe Estimated yield
8/28,29/12 Resistance? Good Gray-brown clayey silty fine sand, some medium sand
8/28,29/12 Resistance? Good Same
8/28,29/12 Resistance? Good Gray brown silty fine to medium sand, some coarse sand
8/28,29/12 Resistance? Good Same
8/28,29/12 Resistance? Good Gray brown clayey/ silty fine sand
8/28,29/12 Resistance? Hard Gray clayey/ silty fine sand, slight medium sand
8/28,29/12 Resistance? Hard Gray clayey/ silty very fine sand
8/28,29/12 Resistance? Good Grey very silty very fine sand
8/28,29/12 Resistance? Hard Grey clayey/ silty very fine sand
8/28,29/12 Resistance? Hard Same
8/28,29/12 Resistance? Hard Same
8/28,29/12 Resistance? Hard Same
8/28,29/12 Resistance? Very hard Same
8/28,29/12 Resistance? Very hard Same
8/28,29/12 Resistance? Very hard Same
8/28,29/12 Resistance? Very very hard Same

Depth from Surface		Took water?	Resistance?	Hammer weight:	500#	Drive shoe
From	To					
0	5'4"	Poor	Good	Static water level from top of casing:		Curb box/ protective casing
5'4"	10'8"	Poor	Good	Screens slot sizes from bottom:	0.020"	Bags of sakrete
10'8"	16'0"	Little	Good	Overall screen length:	7'4" with riser	Stickup above grade
16'0"	21'4"	Little	Good	Bottom of screen fm top of casing:	101'8"	Time of development
21'4"	26'8"	Poor	Good	2 1/2 inch pipe	96'	Estimated yield
26'8"	32'0"	Little	Hard	Gray-brown clayey silty fine sand, some medium sand		
32'0"	37'4"	Poor	Hard	Same		
37'4"	42'8"	None	Good	Gray brown silty fine to medium sand, some coarse sand		
42'8"	48'0"	None	Hard	Same		
48'0"	53'4"	None	Hard	Gray brown clayey/ silty fine sand		
53'4"	58'8"	None	Hard	Gray clayey/ silty fine sand, slight medium sand		
58'8"	64'0"	None	Hard	Gray clayey/ silty very fine sand		
64'0"	69'4"	None	Very hard	Grey very silty very fine sand		
69'4"	74'8"	None	Very hard	Grey clayey/ silty very fine sand		
74'8"	80'0"	None	Very hard	Same		
80'0"	85'4"	None	Very very hard	Same		

Layne Christensen Company

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LOG OF WELL

Well No. _____ Job No. 20606 Test No. #1C
 Log of Well for (Owner) TOWN EAST FISHKILL NY
 Address _____
 Representatives, if any TOM CUDGAR
 Well Located at EAST FISHKILL in Dutchess County, State of NY
 Furnish sketch of location _____ Date Drilling started 11/5/12 Date Test Hole Completed _____
 Total Depth to bottom of Well _____ Diameter Test Hole _____ Elevation at Ground Level, if available 11/7/12
 Elevation at Ground Level, if available _____ Distance from where measurements were taken to ground level _____
 Water stands when not pumping _____ feet _____ inches from the surface of the ground
 All Measurements taken from Ground

THICKNESS OF STRATUM feet #	DEPTH TO BOTTOM OF STRATA	LENGTH OF CORE TAKEN	FORMATION FOUND EACH STRATUM	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATA	LENGTH OF CORE TAKEN	FORMATION FOUND EACH STRATUM
							DRINK WATER
1	5'2"		ORGANIC MATTER MEDIUM SANDS/SILT				
2	10'3"		GRAY MEDIUM SANDS SILT				
3	15'4"		GRAY MEDIUM SANDS SILT FINE GRAVEL				VERY LITTLE
4	20'5"		GRAY MEDIUM SANDS FINE GRAVEL/SILTS				VERY LITTLE
5	25'6"		GRAY MEDIUM SANDS FINES/SILTS				
6	30'7"		GRAY MEDIUM SANDS SILTS				
7	35'8"		GRAY MEDIUM SANDS FINE GRAVEL/SILTS				
8	40'9"		GRAY MEDIUM SANDS FINE GRAVEL				✓
9	45'10"		FINE SANDS SILT				—
10	50'11"		FINE SANDS SILT				—
11	52'6"		REFUSAL				—
Pulled out							

Remarks and opinion of Test

CHECK TYPE OF RIG USED { Reverse Rotary Cable Tool Wash Other?

Tom Cudgar
 Driller

Layne Christensen Company

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LOG OF WELL

Well No. _____ Job No. 20606 Test No. #7 & 7A SISTER
 Log of Well for (Owner) TOWN OF EASTFISHKILL NY
 Address _____
 Representatives, if any TOM CUSACK
 Well Located at EASTFISHKILL in Dutchess County, State of NY
 Furnish sketch of location _____ Date Drilling started 11/14 Date Test Hole Completed 11/15
 Total Depth to bottom of Well _____ Diameter Test Hole 2 1/2 Elevation at Ground Level, if available _____
 Elevation at Ground Level, if available _____ Distance from where measurements were taken to ground level _____
 Water stands when not pumping _____ feet _____ inches from the surface of the ground
 All Measurements taken from T.O.C.

THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATA	LENGTH OF CORE TAKEN	FORMATION FOUND EACH STRATUM	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATA	LENGTH OF CORE TAKEN	FORMATION FOUND EACH STRATUM
<u>Peice #</u>							
<u>1</u>	<u>5'2</u>						
<u>2</u>	<u>10'5</u>						
<u>3</u>	<u>15'9</u>						
<u>4</u>	<u>21'1</u>		<u>FINE GRAVEL FINE SAND / LITTLE SILT</u>				} <u>DRAWN good WATER</u>
<u>5</u>	<u>26'4</u>		<u>FINE GRAVEL FINE SAND / LITTLE SILT</u>				
<u>6</u>	<u>31'7</u>		<u>FINE GRAVEL FINE / MEDIUM SANDS</u>				
<u>7</u>	<u>37'</u>		<u>"</u>	<u>"</u>			
<u>8</u>	<u>42'3</u>		<u>"</u>	<u>"</u>			
<u>9</u>	<u>47'5</u>		<u>"</u>	<u>"</u>			
<u>10</u>	<u>52'8</u>		<u>"</u>	<u>"</u>			
<u>11</u>	<u>57'11</u>		<u>"</u>	<u>"</u>			
<u>12</u>	<u>63'8</u>		<u>"</u>	<u>"</u>			
<u>13</u>	<u>69</u>		<u>6'7" WENT BACK TO FINE SANDS / SILT</u>				
<u>14</u>	<u>74'4</u>						
<u>15</u>	<u>79'7</u>		<u>REFUSAL 75'3</u>				

SET SCREENS & RISERS. IN #7 SET SCREEN 53' 1" TO 63' 9". TWO 10 SLOT SCREENS

Remarks and opinion of Test FIVE FEET IN LENGTH AND ONE FIVE FOOT RISER. IN 7A SET SCREEN 53' 1" TO 65' 8". ONE 10 SLOT SCREEN AND ONE 20 SLOT SCREEN EACH FIVE FEET IN LENGTH AND ONE TEN FOOT RISER.

CHECK TYPE OF RIG USED { Reverse
 Rotary
 Cable Tool
 Wash
 Other?

[Signature]
 Driller

Layne Christensen Company

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LOG OF WELL

Well No. _____ Job. No. 20606 Test No. #88
 Log of Well for (Owner) TOWN OF EAST FISHKILL NY
 Address _____
 Representatives, if any TOM CUSACK
 Well Located at EAST FISHKILL in Dutchess County, State of NY
 Furnish sketch of location _____ Date Drilling started 11/8/12 Date Test Hole Completed 11/9/12
 Total Depth to bottom of Well _____ Diameter Test Hole 2 1/2 Elevation at Ground Level, if available _____
 Elevation at Ground Level, if available _____ Distance from where measurements were taken to ground level _____
 Water stands when not pumping _____ feet _____ inches from the surface of the ground
 All Measurements taken from Ground

THICKNESS OF STRATUM feet [#]	DEPTH TO BOTTOM OF STRATA	LENGTH OF CORE TAKEN	FORMATION FOUND EACH STRATUM	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATA	LENGTH OF CORE TAKEN	FORMATION FOUND EACH STRATUM
							DRANK WATER
1	5'2"		FILL				
2	10'3"		ORGANIC MATERIAL FINE GRAVEL / medium Sands / S.I.T				very little
3	15'4"		"				very little
4	20'5"		FINE SAND / GRAY SILT				very little
5	25'6"		FINE SANDS / GRAY SILT CLAY				VERY LITTLE
6	30'7"		FINE SANDS / GRAY S.I.T				-
7	35'8"						-
8	38'9"		REFUSAL	200' HITS LESS 1/2"			
Pulled out							

Remarks and opinion of Test

CHECK TYPE OF RIG USED { Reverse Rotary Cable Tool Wash Other?

James Hayer
Driller

Layne Christensen Company

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LOG OF WELL

Well No. _____ Job No. 20606 Test No. #9
 Log of Well for (Owner) TOWN OF EAST FISHKILL NY
 Address _____
 Representatives, if any TOM CUSACK
 Well Located at _____ in Dutchess County, State of NY
 Furnish sketch of location _____ Date Drilling started 11/8/12 Date Test Hole Completed 11/13/12
 Total Depth to bottom of Well _____ Diameter Test Hole 2 1/2 Elevation at Ground Level, if available _____
 Elevation at Ground Level, if available _____ Distance from where measurements were taken to ground level _____
 Water stands when not pumping _____ feet _____ inches from the surface of the ground
 All Measurements taken from TO

THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATA	LENGTH OF CORE TAKEN	FORMATION FOUND EACH STRATUM	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATA	LENGTH OF CORE TAKEN	FORMATION FOUND EACH STRATUM
Perce #							
1	5'2		FILL				DID NOT DRINK WATER
2	10'3		FINE SAND				
3	15'4		GRAY SILTS				
4	20'5		FINE GRAVEL SILTS, SANDS				
5	25'6		FINE SILTS, SANDS				
6	30'7		GRAY SILTS, FINE SANDS				
7	35'8						
8	40'9						
9	45'10						
10	50'11						
11	56'						
12	61'1						
13	68'2		GRAY SILTS, FINE SANDS				
14	74'						
15	79'3		70' REFUSAL				
Pulled out							

Remarks and opinion of Test

CHECK TYPE OF RIG USED { Reverse Rotary Cable Tool Wash Other?

[Signature]
 Driller

Layne Christensen Company

Route 30, P.O. Box 917 • Schoharie, New York 12157 • Phone (518) 295-8288 • Fax: (518) 295-8289



LOG OF WELL

Well No. _____ Job. No. 20606 Test No. #10
 Log of Well for (Owner) TOWN OF EAST FISHKILL NY
 Address _____
 Representatives, if any TOM RUSAK
 Well Located at EAST FISHKILL in DASHLESS County, State of NY
 Furnish sketch of location _____ Date Drilling started _____ Date Test Hole Completed _____
 Total Depth to bottom of Well _____ Diameter Test Hole _____ Elevation at Ground Level, if available _____
 Elevation at Ground Level, if available _____ Distance from where measurements were taken to ground level _____
 Water stands when not pumping _____ feet _____ inches from the surface of the ground
 All Measurements taken from Ground

THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATA	LENGTH OF CORE TAKEN	FORMATION FOUND EACH STRATUM	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATA	LENGTH OF CORE TAKEN	FORMATION FOUND EACH STRATUM
Piece #							
1	5'3"						
2	10'7"						
3	15'11"						
4	21'2"		FINE SAND, FINE GRAVEL Some silt DRANK LITTLE water				
5	26'6"		FINE GRAVEL FINE SANDS				DRANK good WATER
6	31'9"		FINE GRAVEL FINE SANDS				
7	37'		FINE GRAVEL FINE SANDS				
8	42'4"		FINE GRAVEL FINE SANDS	43' END OF FINE SANDS & GRAVEL			
9	47'8"		FINE SANDS SILTS, CLAY				
10	53'		FINE SANDS SILTS, CLAY				
11	58'4"		FINE SANDS SILTS, CLAY				
12	63'8"		FINE GRAVEL FINE SANDS, silt	DRANK LITTLE WATER			
13	69'		REFUSAL, 68'				
SET SCREEN RISE FROM 30' TO 37'6"							
31'9" PIPE IN GROUND 2 5/20 SLOT SCREENS 1-5' RIGOR							

Remarks and opinion of Test

CHECK TYPE OF RIG USED { Reverse
 Rotary
 Cable Tool
 Wash
 Other?

Driller

Layne Christensen Company

Route 30, P.O. Box 917 • Schoharie, New York 12157 • Phone (518) 295-8288 • Fax: (518) 295-8289



LOG OF WELL

Well No. _____ Job No. 20606 Test No. #11
 Log of Well for (Owner) TOWN OF EAST FISHKILL
 Address _____
 Representatives, if any TOM CUSACK
 Well Located at EAST FISHKILL in Dutchess County, State of: NY
 Furnish sketch of location _____ Date Drilling started _____ Date Test Hole Completed _____
 Total Depth to bottom of Well _____ Diameter Test Hole _____ Elevation at Ground Level, if available _____
 Elevation at Ground Level, if available _____ Distance from where measurements were taken to ground level _____
 Water stands when not pumping _____ feet _____ inches from the surface of the ground
 All Measurements taken from Ground

THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATA	LENGTH OF CORE TAKEN	FORMATION FOUND EACH STRATUM	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATA	LENGTH OF CORE TAKEN	FORMATION FOUND EACH STRATUM
<u>PRICE #</u>							
<u>1</u>	<u>5'4</u>						
<u>2</u>	<u>10'8</u>						
<u>3</u>	<u>16</u>						
<u>4</u>	<u>21'4</u>						
<u>5</u>	<u>26'8</u>		<u>FINE GRAVEL</u>				
<u>6</u>	<u>32</u>		<u>FINE TO COARSE SANDS</u>				
			<u>CLAY SILT, FINE SANDS</u>				
			<u>FINE GRAVEL</u>				
<u>7</u>	<u>37'4</u>		<u>FINE SAND, FINE GRAVEL</u>	<u>DRINK LITTLE WATER</u>			
<u>8</u>	<u>42'8</u>		<u>FINE SAND, COARSE SANDS</u>	<u>DRANK GOOD WATER</u>			
			<u>FINE GRAVEL</u>	<u>3'</u>			
<u>9</u>	<u>48</u>		<u>FINE GRAVEL</u>	<u>↑</u>			
			<u>COARSE SAND, FINE SAND</u>	<u>↓</u>			
<u>10</u>	<u>53'4</u>						
<u>11</u>	<u>58'7</u>		<u>↓</u>	<u>DRANK GOOD WATER</u>			
<u>12</u>	<u>63'11</u>		<u>FINE SANDS, CLAY, SILT</u>				
<u>13</u>	<u>69'3</u>		<u>FINE SANDS, CLAY, SILT</u>	<u>DRANK LITTLE WATER</u>			
			<u>GRAVEL</u>				
<u>14</u>	<u>74'7</u>						
<u>SET SCREEN RISERS 48' to 58'</u>							
<u>2-20 Slot Screen 15' Riser</u>							

Remarks and opinion of Test _____

CHECK TYPE OF RIG USED { Reverse Rotary Cable Tool Wash Other?

Driller _____

APPENDIX II

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION



(1) COUNTY _____

(3) DEC Well Number

(2) TOWN Fishkill

WATER WELL COMPLETION REPORT

(4) OWNER <u>CANNON PARCEL TOWN OFFISHKILL</u>		(48) WELL LOG
(5) ADDRESS <u>ROUTE 376 E. FISHKILL, NY</u>		Depth to Bedrock <u>74'</u> (ft. below land surface)
(6) LOCATION OF WELL (See instructions On Reverse) (Check here <input type="checkbox"/> if address is same as above)		Ground Elevation <u>336'</u> (ft. above sea level)
(7) LATITUDE/LONGITUDE AND METHOD USED <u>41°34' 32" N 87°3' 42" W</u>		Top of Casing <u>2'</u> (ft. above (+) or below (-) land surface)
(8) TAX MAP NO.	(9) DEPTH OF WELL BELOW LAND SURFACE (feet) <u>320'</u>	(10) DEPTH TO GROUNDWATER (feet) <u>10'</u> DATE MEASURED <u>12-7-12</u>
CASINGS		
(11) DIAMETER <u>12" in. 8" in.</u>	TOP OF WELL <u>0'</u>	
(12) LENGTH <u>22' ft. 85' ft.</u>		
(13) GROUT TYPE / SEALING <u>BEN SEAL</u>	(14) GROUT / SEALING INTERVAL (feet) FROM <u>0'</u> TO <u>85'</u>	<u>22'</u>
SCREENS		
(15) MAKE & MATERIAL	(16) OPENINGS	<u>18" DRIVE 72'</u>
(17) DIAMETER in. in. in. in.		
(18) LENGTH ft. ft. ft. in.		<u>85'</u>
(19) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet)		
YIELD TEST		
(20) DATE <u>12-6-12</u>	(21) DURATION OF TEST <u>6 HR</u>	
(22) LIFT METHOD <input type="checkbox"/> Pump <input type="checkbox"/> Air Lift <input type="checkbox"/> Bailer	(23) STABILIZED DISCHARGE (GPM) <u>190'</u>	<u>94'</u>
(24) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(25) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)	
(26) RECOVERY (Time in hours/minutes)	(27) Was the water produced during the test discharged away from immediate area? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
PUMP INSTALLATION		
(28) PUMP INSTALLED? YES <input type="checkbox"/> NO <input type="checkbox"/>	(29) DATE	(30) PUMP INSTALLER
(31) TYPE	(32) MAKE	(33) MODEL
(34) MAXIMUM CAPACITY (GPM)	(35) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)	
DRILLER INFORMATION		
(36) METHOD OF DRILLING <input type="checkbox"/> Rotary <input type="checkbox"/> Cable Tool <input checked="" type="checkbox"/> Other <u>Hammer</u>	(37) USE OF WATER (See instructions for choices)	
(38) DATE DRILLING WORK STARTED <u>12-4-12</u>	(39) DATE DRILLING WORK COMPLETED <u>12-7-12</u>	<u>100'</u>
(40) DATE REPORT FILED <u>12-4-12</u>	(41) REGISTERED COMPANY <u>NORTHERN DRILLING INC</u>	(42) DEC REGISTRATION NO. <u>NYRD 10111</u>
(43) CERTIFIED DRILLER (Print name) <u>MICHAEL TIMMONS</u>	(44) CERTIFIED DRILLER SIGNATURE <u>Michael Timmons</u>	
* By signing this document I hereby affirm that: (1) I am certified to supervise water well drilling activities as defined by Environmental Conservation Law 15-1502; (2) this water well was constructed in accordance with water well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury the information provided in this Well Completion Report is true, accurate and complete, and I understand that any false statement made herein is punishable as a Class A Misdemeanor under Penal Law §210.45.		
		BOTTOM OF HOLE <u>336'</u>
		NYSDEC

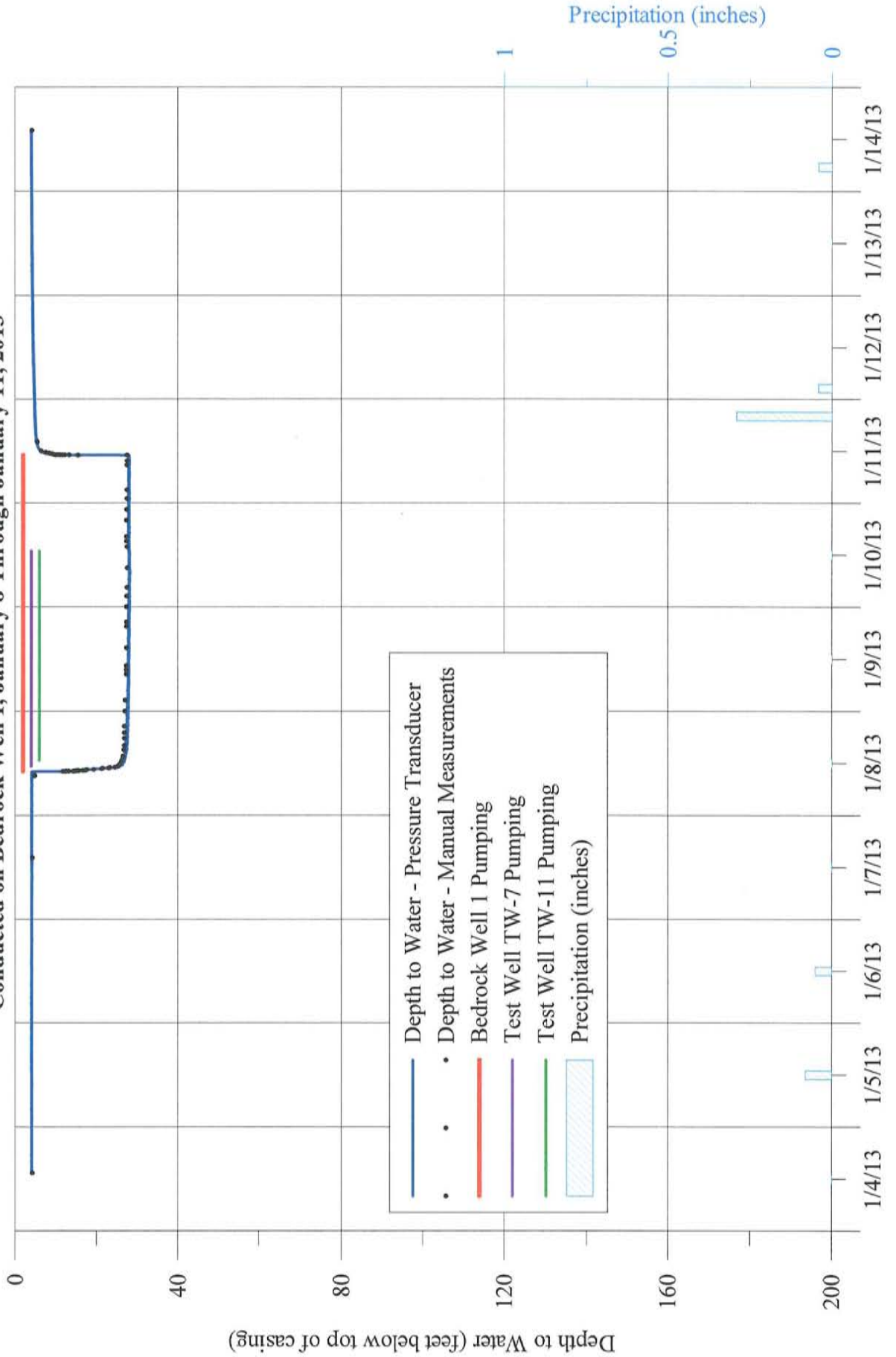
LOCATION SKETCH - Indicate north

APPENDIX III

BEDROCK WELL 1

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK**

**Hydrograph of Water-Level Measurements Collected from Bedrock Well 1 During 72-Hour Pumping Test
Conducted on Bedrock Well 1, January 8 Through January 11, 2013**



**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/4/2013	14:00	4.22	Transducer installed in well to collect background water-level measurements.
1/4/2013	15:00	4.16	
1/4/2013	16:00	4.16	
1/4/2013	17:00	4.21	
1/4/2013	18:00	4.16	
1/4/2013	19:00	4.18	
1/4/2013	20:00	4.17	
1/4/2013	21:00	4.17	
1/4/2013	22:00	4.20	
1/4/2013	23:00	4.16	
1/5/2013	0:00	4.18	
1/5/2013	1:00	4.26	
1/5/2013	2:00	4.20	
1/5/2013	3:00	4.20	
1/5/2013	4:00	4.20	
1/5/2013	5:00	4.22	
1/5/2013	6:00	4.20	
1/5/2013	7:00	4.19	
1/5/2013	8:00	4.19	
1/5/2013	9:00	4.22	
1/5/2013	10:00	4.24	Transducer removed to install temporary well pump.
1/5/2013	13:00	4.15	Transducer reinstalled in well.
1/5/2013	14:00	4.18	
1/5/2013	15:00	4.16	
1/5/2013	16:00	4.17	
1/5/2013	17:00	4.16	
1/5/2013	18:00	4.14	
1/5/2013	19:00	4.18	
1/5/2013	20:00	4.18	
1/5/2013	21:00	4.21	
1/5/2013	22:00	4.20	
1/5/2013	23:00	4.20	
1/6/2013	0:00	4.16	
1/6/2013	1:00	4.21	
1/6/2013	2:00	4.19	
1/6/2013	3:00	4.22	
1/6/2013	4:00	4.15	
1/6/2013	5:00	4.18	
1/6/2013	6:00	4.22	
1/6/2013	7:00	4.17	
1/6/2013	8:00	4.18	
1/6/2013	9:00	4.17	
1/6/2013	10:00	4.16	
1/6/2013	11:00	4.19	
1/6/2013	12:00	4.19	
1/6/2013	13:00	4.16	
1/6/2013	14:00	4.23	
1/6/2013	15:00	4.21	
1/6/2013	16:00	4.17	
1/6/2013	17:00	4.22	
1/6/2013	18:00	4.20	
1/6/2013	19:00	4.24	
1/6/2013	20:00	4.20	

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/6/2013	21:00	4.19	
1/6/2013	22:00	4.21	
1/6/2013	23:00	4.21	
1/7/2013	0:00	4.21	
1/7/2013	1:00	4.19	
1/7/2013	2:00	4.22	
1/7/2013	3:00	4.20	
1/7/2013	4:00	4.24	
1/7/2013	5:00	4.21	
1/7/2013	6:00	4.25	
1/7/2013	7:00	4.22	
1/7/2013	8:00	4.21	
1/7/2013	9:00	4.21	
1/7/2013	10:00	4.24	
1/7/2013	11:00	4.20	
1/7/2013	12:00	4.22	
1/7/2013	13:00	4.25	
1/7/2013	14:00	4.20	
1/7/2013	15:00	4.23	
1/7/2013	16:00	4.17	
1/7/2013	17:00	4.18	
1/7/2013	18:00	4.19	
1/7/2013	19:00	4.17	
1/7/2013	20:00	4.16	
1/7/2013	21:00	4.16	
1/7/2013	22:00	4.21	
1/7/2013	23:00	4.17	
1/8/2013	0:00	4.21	
1/8/2013	1:00	4.20	
1/8/2013	2:00	4.17	
1/8/2013	3:00	4.19	
1/8/2013	4:00	4.23	
1/8/2013	5:00	4.19	
1/8/2013	6:00	4.18	
1/8/2013	7:00	4.19	
1/8/2013	8:00	4.19	
1/8/2013	9:00	4.21	
1/8/2013	10:00	4.28	
1/8/2013	10:01	4.22	
1/8/2013	10:02	4.29	
1/8/2013	10:03	6.24	Pump in Bedrock Well 1 started.
1/8/2013	10:04	14.21	Pumping rate set at 200 gpm.
1/8/2013	10:05	12.62	
1/8/2013	10:06	12.13	
1/8/2013	10:07	12.35	
1/8/2013	10:08	13.01	
1/8/2013	10:09	13.00	
1/8/2013	10:10	14.30	Bedrock Well 1 pumping 200 gpm.
1/8/2013	10:11	15.14	Pumping rate of Bedrock Well 1 manually increased to 236 gpm.
1/8/2013	10:12	14.71	
1/8/2013	10:13	15.22	
1/8/2013	10:14	15.50	
1/8/2013	10:15	15.11	Bedrock Well 1 pumping 236 gpm.

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/8/2013	10:16	15.93	Bedrock Well 1 pumping 236 gpm.
1/8/2013	10:17	15.52	
1/8/2013	10:18	16.61	
1/8/2013	10:19	16.76	Pumping rate of Bedrock Well 1 manually increased to 262 gpm.
1/8/2013	10:20	17.06	
1/8/2013	10:21	17.54	
1/8/2013	10:22	17.68	
1/8/2013	10:23	17.62	
1/8/2013	10:24	17.36	
1/8/2013	10:25	17.65	
1/8/2013	10:26	17.74	
1/8/2013	10:27	17.87	
1/8/2013	10:28	17.91	Bedrock Well 1 pumping 262 gpm.
1/8/2013	10:29	17.94	Pumping rate of Bedrock Well 1 manually increased to 285 gpm.
1/8/2013	10:30	18.87	
1/8/2013	10:31	19.43	
1/8/2013	10:32	19.53	
1/8/2013	10:33	19.35	
1/8/2013	10:34	19.26	
1/8/2013	10:35	19.71	
1/8/2013	10:36	19.36	
1/8/2013	10:37	19.43	
1/8/2013	10:38	19.58	
1/8/2013	10:39	19.82	Bedrock Well 1 pumping 285 gpm.
1/8/2013	10:40	20.89	Pumping rate of Bedrock Well 1 manually increased to 308 gpm.
1/8/2013	10:41	21.15	
1/8/2013	10:42	21.42	
1/8/2013	10:43	21.54	
1/8/2013	10:44	21.75	
1/8/2013	10:45	21.47	
1/8/2013	10:46	21.67	
1/8/2013	10:47	21.77	
1/8/2013	10:48	21.80	
1/8/2013	10:49	21.76	Bedrock Well 1 pumping 308 gpm.
1/8/2013	10:50	22.48	Pumping rate of Bedrock Well 1 increased to 330 gpm.
1/8/2013	10:51	22.68	
1/8/2013	10:52	23.25	
1/8/2013	10:53	23.38	
1/8/2013	10:54	23.44	
1/8/2013	10:55	23.53	
1/8/2013	10:56	23.62	
1/8/2013	10:57	23.97	
1/8/2013	10:58	23.77	
1/8/2013	10:59	23.73	Bedrock Well 1 pumping 330 gpm.
1/8/2013	11:00	24.29	Pumping rate of Bedrock Well 1 manually increased to 330 gpm.
1/8/2013	11:01	24.22	
1/8/2013	11:02	24.97	
1/8/2013	11:03	25.21	
1/8/2013	11:30	26.15	Pumping of TW-7 started at 11:18.
1/8/2013	12:00	26.47	
1/8/2013	12:30	26.77	
1/8/2013	13:00	27.00	Pumping in TW-11 started at 12:54.
1/8/2013	14:00	27.11	Bedrock Well 1 pumping 350 gpm.

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/8/2013	15:00	27.40	Bedrock Well 1 pumping 350 gpm.
1/8/2013	16:00	27.54	
1/8/2013	17:00	27.41	
1/8/2013	18:00	27.80	
1/8/2013	19:00	27.63	
1/8/2013	20:00	27.65	
1/8/2013	21:00	27.48	
1/8/2013	22:00	27.61	
1/8/2013	23:00	27.79	
1/9/2013	0:00	27.74	
1/9/2013	1:00	27.89	
1/9/2013	2:00	27.72	
1/9/2013	3:00	27.85	
1/9/2013	4:00	28.05	
1/9/2013	5:00	27.85	
1/9/2013	6:00	28.01	
1/9/2013	7:00	27.98	
1/9/2013	8:00	28.05	Bedrock Well 1 pumping 350 gpm.
1/9/2013	9:00	28.09	
1/9/2013	10:00	27.92	
1/9/2013	11:00	27.98	
1/9/2013	12:00	27.98	
1/9/2013	13:00	28.01	
1/9/2013	14:00	28.04	
1/9/2013	15:00	28.01	
1/9/2013	16:00	28.01	Bedrock Well 1 pumping 350 gpm.
1/9/2013	17:00	28.02	
1/9/2013	18:00	28.15	
1/9/2013	19:00	28.14	
1/9/2013	20:00	28.02	
1/9/2013	21:00	28.10	
1/9/2013	22:00	28.11	
1/9/2013	23:00	28.03	
1/10/2013	0:00	28.17	
1/10/2013	1:00	28.13	
1/10/2013	2:00	28.13	
1/10/2013	3:00	28.12	
1/10/2013	4:00	28.09	
1/10/2013	5:00	28.19	
1/10/2013	6:00	28.29	
1/10/2013	7:00	28.22	
1/10/2013	8:00	28.23	Bedrock Well 1 pumping 350 gpm.
1/10/2013	9:00	28.13	
1/10/2013	10:00	28.21	
1/10/2013	11:00	28.05	
1/10/2013	12:00	28.12	
1/10/2013	13:00	28.16	Pumping of TW-7 and TW-11 stopped.
1/10/2013	14:00	28.03	
1/10/2013	15:00	28.00	
1/10/2013	16:00	28.05	
1/10/2013	17:00	27.99	
1/10/2013	18:00	28.16	
1/10/2013	19:00	28.11	Bedrock Well 1 pumping 350 gpm.

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/10/2013	20:00	28.08	Bedrock Well 1 pumping 350 gpm.
1/10/2013	21:00	28.02	
1/10/2013	22:00	28.12	
1/10/2013	23:00	28.07	
1/11/2013	0:00	28.04	
1/11/2013	1:00	28.13	
1/11/2013	2:00	28.01	
1/11/2013	3:00	28.19	
1/11/2013	4:00	28.14	
1/11/2013	5:00	28.07	
1/11/2013	6:00	28.29	
1/11/2013	7:00	28.09	
1/11/2013	8:00	28.15	Bedrock Well 1 pumping 350 gpm.
1/11/2013	9:00	28.06	
1/11/2013	10:00	28.12	
1/11/2013	11:00	28.09	
1/11/2013	11:01	28.03	
1/11/2013	11:02	28.05	Bedrock Well 1 pumping 350 gpm.
1/11/2013	11:03	23.35	Pump in Bedrock Well 1 shut down.
1/11/2013	11:04	14.13	
1/11/2013	11:05	12.55	
1/11/2013	11:06	11.66	
1/11/2013	11:07	11.07	
1/11/2013	11:08	10.62	
1/11/2013	11:09	10.31	
1/11/2013	11:10	9.94	
1/11/2013	11:11	9.63	
1/11/2013	11:12	9.40	
1/11/2013	11:13	9.19	
1/11/2013	11:14	9.08	
1/11/2013	11:15	8.88	
1/11/2013	11:16	8.71	
1/11/2013	11:17	8.61	
1/11/2013	11:18	8.46	
1/11/2013	11:19	8.30	
1/11/2013	11:20	8.24	
1/11/2013	11:21	8.11	
1/11/2013	11:22	8.06	
1/11/2013	11:23	7.90	
1/11/2013	11:24	7.85	
1/11/2013	11:25	7.75	
1/11/2013	11:26	7.71	
1/11/2013	11:27	7.64	
1/11/2013	11:28	7.51	
1/11/2013	11:29	7.48	
1/11/2013	11:30	7.46	
1/11/2013	11:31	7.41	
1/11/2013	11:32	7.39	
1/11/2013	11:33	7.27	
1/11/2013	11:34	7.26	
1/11/2013	11:35	7.15	
1/11/2013	11:36	7.15	
1/11/2013	11:37	7.06	

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/11/2013	11:38	6.97	
1/11/2013	11:39	7.00	
1/11/2013	11:40	6.99	
1/11/2013	11:41	6.93	
1/11/2013	11:42	6.87	
1/11/2013	11:43	6.83	
1/11/2013	11:44	6.81	
1/11/2013	11:45	6.77	
1/11/2013	11:46	6.73	
1/11/2013	11:47	6.72	
1/11/2013	11:48	6.71	
1/11/2013	11:49	6.62	90% water-level recovery to pre-test static level.
1/11/2013	11:50	6.61	
1/11/2013	11:51	6.61	
1/11/2013	11:52	6.55	
1/11/2013	11:53	6.54	
1/11/2013	11:54	6.53	
1/11/2013	11:55	6.49	
1/11/2013	11:56	6.46	
1/11/2013	11:57	6.45	
1/11/2013	11:58	6.43	
1/11/2013	11:59	6.39	
1/11/2013	12:00	6.34	
1/11/2013	12:01	6.37	
1/11/2013	12:02	6.31	
1/11/2013	12:03	6.31	
1/11/2013	13:00	5.69	
1/11/2013	14:00	5.42	
1/11/2013	15:00	5.25	
1/11/2013	16:00	5.15	Water-level 96% recovered to pre-test static level.
1/11/2013	17:00	5.04	Approximate start time of precipitation event.
1/11/2013	18:00	5.05	
1/11/2013	19:00	4.98	
1/11/2013	20:00	4.94	
1/11/2013	21:00	4.91	
1/11/2013	22:00	4.91	
1/11/2013	23:00	4.90	
1/12/2013	0:00	4.80	
1/12/2013	1:00	4.82	
1/12/2013	2:00	4.81	
1/12/2013	3:00	4.71	
1/12/2013	4:00	4.71	
1/12/2013	5:00	4.64	
1/12/2013	6:00	4.62	
1/12/2013	7:00	4.68	
1/12/2013	8:00	4.62	
1/12/2013	9:00	4.58	
1/12/2013	10:00	4.61	
1/12/2013	11:00	4.54	
1/12/2013	12:00	4.52	
1/12/2013	13:00	4.47	
1/12/2013	14:00	4.56	
1/12/2013	15:00	4.46	

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

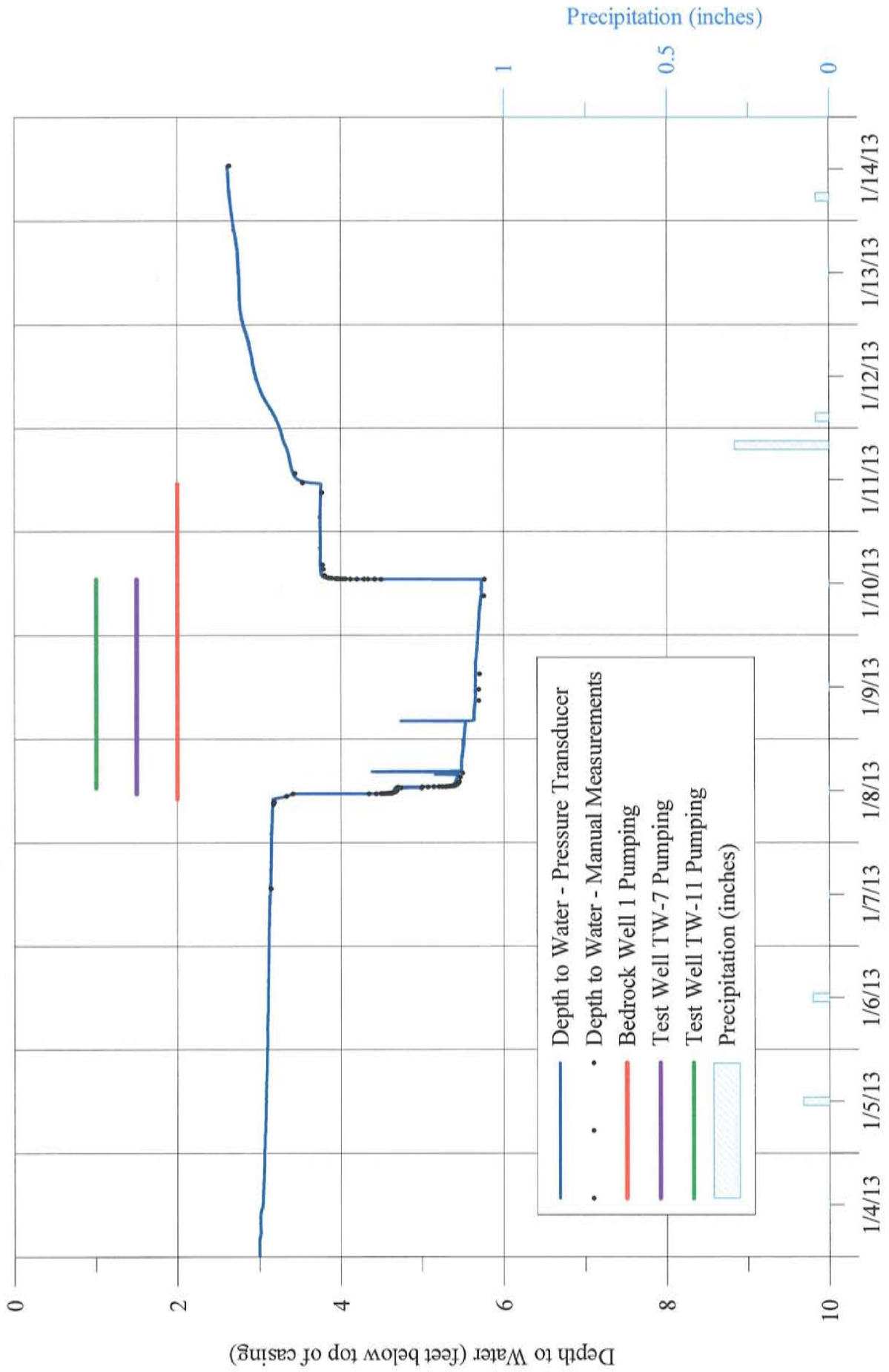
Date	Time	Depth to Water (ft btoc)	Comments
1/12/2013	16:00	4.47	
1/12/2013	17:00	4.44	
1/12/2013	18:00	4.39	
1/12/2013	19:00	4.42	
1/12/2013	20:00	4.39	
1/12/2013	21:00	4.40	
1/12/2013	22:00	4.38	
1/12/2013	23:00	4.40	
1/13/2013	0:00	4.34	
1/13/2013	1:00	4.32	
1/13/2013	2:00	4.30	
1/13/2013	3:00	4.26	
1/13/2013	4:00	4.27	
1/13/2013	5:00	4.30	
1/13/2013	6:00	4.30	
1/13/2013	7:00	4.25	
1/13/2013	8:00	4.30	
1/13/2013	9:00	4.27	
1/13/2013	10:00	4.27	
1/13/2013	11:00	4.23	
1/13/2013	12:00	4.25	
1/13/2013	13:00	4.22	
1/13/2013	14:00	4.23	
1/13/2013	15:00	4.23	
1/13/2013	16:00	4.19	
1/13/2013	17:00	4.16	
1/13/2013	18:00	4.16	
1/13/2013	19:00	4.15	
1/13/2013	20:00	4.18	
1/13/2013	21:00	4.17	
1/13/2013	22:00	4.13	
1/13/2013	23:00	4.16	
1/14/2013	0:00	4.11	
1/14/2013	1:00	4.09	
1/14/2013	2:00	4.10	
1/14/2013	3:00	4.08	
1/14/2013	4:00	4.12	
1/14/2013	5:00	4.10	
1/14/2013	6:00	4.05	
1/14/2013	7:00	4.08	
1/14/2013	8:00	4.09	
1/14/2013	9:00	4.08	
1/14/2013	10:00	4.04	
1/14/2013	11:00	4.02	
1/14/2013	12:00	3.99	
1/14/2013	13:00	4.04	
1/14/2013	14:00	4.01	Transducer removed from well.

ft btoc feet below top of casing
gpm gallons per minute

TW-7A

TOWN OF EAST FISHKILL
 CANNON PROPERTY
 EAST FISHKILL, NEW YORK YORK

Hydrograph of Water-Level Measurements Collected from TW-7A During 72-Hour Pumping Test Conducted on Bedrock Well 1 and Short-Term Pumping Test on Test Wells TW-7 and TW-11, January 8 Through January 11, 2013



**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/4/2013	0:05	3.00	
1/4/2013	1:05	3.00	
1/4/2013	2:05	2.99	
1/4/2013	3:05	2.99	
1/4/2013	4:05	3.00	
1/4/2013	5:05	3.01	
1/4/2013	6:05	3.01	
1/4/2013	7:05	3.01	
1/4/2013	8:05	3.01	
1/4/2013	9:05	3.01	
1/4/2013	10:05	3.01	
1/4/2013	11:05	3.02	
1/4/2013	12:05	3.03	
1/4/2013	13:05	3.04	
1/4/2013	14:05	3.04	
1/4/2013	15:05	3.04	
1/4/2013	16:05	3.05	
1/4/2013	17:05	3.05	
1/4/2013	18:05	3.05	
1/4/2013	19:05	3.05	
1/4/2013	20:05	3.06	
1/4/2013	21:05	3.06	
1/4/2013	22:05	3.06	
1/4/2013	23:05	3.06	
1/5/2013	0:05	3.06	
1/5/2013	1:05	3.06	
1/5/2013	2:05	3.06	
1/5/2013	3:05	3.06	
1/5/2013	4:05	3.06	
1/5/2013	5:05	3.07	
1/5/2013	6:05	3.07	
1/5/2013	7:05	3.07	
1/5/2013	8:05	3.07	
1/5/2013	9:05	3.07	
1/5/2013	10:05	3.08	
1/5/2013	11:05	3.08	
1/5/2013	12:05	3.08	
1/5/2013	13:05	3.08	
1/5/2013	14:05	3.08	
1/5/2013	15:05	3.08	
1/5/2013	16:05	3.08	
1/5/2013	17:05	3.09	
1/5/2013	18:05	3.09	
1/5/2013	19:05	3.09	
1/5/2013	20:05	3.09	
1/5/2013	21:05	3.09	
1/5/2013	22:05	3.09	
1/5/2013	23:05	3.09	
1/6/2013	0:05	3.10	
1/6/2013	1:05	3.10	
1/6/2013	2:05	3.10	
1/6/2013	3:05	3.10	
1/6/2013	4:05	3.10	

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/6/2013	5:05	3.09	
1/6/2013	6:05	3.10	
1/6/2013	7:05	3.10	
1/6/2013	8:05	3.10	
1/6/2013	9:05	3.10	
1/6/2013	10:05	3.10	
1/6/2013	11:05	3.10	
1/6/2013	12:05	3.11	
1/6/2013	13:05	3.10	
1/6/2013	14:05	3.11	
1/6/2013	15:05	3.11	
1/6/2013	16:05	3.11	
1/6/2013	17:05	3.11	
1/6/2013	18:05	3.11	
1/6/2013	19:05	3.11	
1/6/2013	20:05	3.11	
1/6/2013	21:05	3.11	
1/6/2013	22:05	3.11	
1/6/2013	23:05	3.11	
1/7/2013	0:05	3.11	
1/7/2013	1:05	3.11	
1/7/2013	2:05	3.11	
1/7/2013	3:05	3.11	
1/7/2013	4:05	3.11	
1/7/2013	5:05	3.12	
1/7/2013	6:05	3.12	
1/7/2013	7:05	3.12	
1/7/2013	8:05	3.12	
1/7/2013	9:05	3.12	
1/7/2013	10:05	3.13	
1/7/2013	11:05	3.13	
1/7/2013	12:05	3.13	
1/7/2013	13:05	3.13	
1/7/2013	14:00	3.13	
1/7/2013	15:00	3.13	
1/7/2013	16:00	3.13	
1/7/2013	17:00	3.13	
1/7/2013	18:00	3.14	
1/7/2013	19:00	3.14	
1/7/2013	20:00	3.15	
1/7/2013	21:00	3.14	
1/7/2013	22:00	3.14	
1/7/2013	23:00	3.14	
1/8/2013	0:00	3.15	
1/8/2013	1:00	3.15	
1/8/2013	2:00	3.15	
1/8/2013	3:00	3.15	
1/8/2013	4:00	3.15	
1/8/2013	5:00	3.15	
1/8/2013	6:00	3.15	
1/8/2013	7:00	3.16	
1/8/2013	8:00	3.16	
1/8/2013	9:00	3.16	

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/8/2013	10:00	3.16	
1/8/2013	10:01	3.16	
1/8/2013	10:02	3.16	
1/8/2013	10:03	3.17	Pump started in Bedrock Well 1.
1/8/2013	10:04	3.16	
1/8/2013	10:05	3.17	
1/8/2013	10:06	3.17	
1/8/2013	10:07	3.17	
1/8/2013	10:08	3.19	
1/8/2013	10:09	3.19	
1/8/2013	10:10	3.19	
1/8/2013	11:00	3.37	
1/8/2013	11:15	3.41	
1/8/2013	11:16	3.41	
1/8/2013	11:17	3.42	
1/8/2013	11:18	4.29	Pumping of TW-7 started.
1/8/2013	11:19	4.42	Pumping rate of TW-7 60.8 gpm
1/8/2013	11:20	4.48	
1/8/2013	11:21	4.51	
1/8/2013	11:22	4.54	
1/8/2013	11:23	4.56	
1/8/2013	11:24	4.57	
1/8/2013	11:25	4.57	
1/8/2013	11:26	4.57	
1/8/2013	11:27	4.58	
1/8/2013	11:28	4.58	
1/8/2013	11:29	4.60	
1/8/2013	11:30	4.60	
1/8/2013	11:31	4.60	
1/8/2013	11:32	4.61	
1/8/2013	11:33	4.61	
1/8/2013	11:34	4.61	
1/8/2013	11:35	4.61	Pumping rate of TW-7 58.2 gpm
1/8/2013	11:36	4.62	
1/8/2013	11:37	4.62	
1/8/2013	11:38	4.62	
1/8/2013	11:39	4.62	
1/8/2013	11:40	4.63	
1/8/2013	11:41	4.63	
1/8/2013	11:42	4.63	
1/8/2013	11:43	4.63	
1/8/2013	11:44	4.64	
1/8/2013	11:45	4.64	
1/8/2013	11:46	4.64	
1/8/2013	11:47	4.64	
1/8/2013	11:48	4.64	
1/8/2013	11:49	4.64	
1/8/2013	11:50	4.64	
1/8/2013	11:51	4.64	
1/8/2013	11:52	4.65	
1/8/2013	11:53	4.64	
1/8/2013	11:54	4.65	
1/8/2013	11:55	4.65	Pumping rate of TW-7 58.2 gpm

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/8/2013	11:56	4.65	Pumping rate of TW-7 58.2 gpm
1/8/2013	11:57	4.65	
1/8/2013	11:58	4.65	
1/8/2013	11:59	4.65	
1/8/2013	12:00	4.65	
1/8/2013	12:01	4.65	
1/8/2013	12:02	4.65	
1/8/2013	12:03	4.65	
1/8/2013	12:04	4.65	
1/8/2013	12:05	4.65	
1/8/2013	12:06	4.65	
1/8/2013	12:07	4.65	
1/8/2013	12:08	4.65	
1/8/2013	12:09	4.65	
1/8/2013	12:10	4.65	
1/8/2013	12:11	4.65	
1/8/2013	12:12	4.65	
1/8/2013	12:13	4.65	
1/8/2013	12:14	4.65	
1/8/2013	12:15	4.66	
1/8/2013	12:16	4.66	
1/8/2013	12:17	4.66	
1/8/2013	12:18	4.65	
1/8/2013	12:19	4.66	
1/8/2013	12:20	4.66	
1/8/2013	12:21	4.66	
1/8/2013	12:22	4.66	
1/8/2013	12:23	4.66	
1/8/2013	12:24	4.66	
1/8/2013	12:25	4.66	
1/8/2013	12:26	4.66	
1/8/2013	12:27	4.66	
1/8/2013	12:28	4.66	
1/8/2013	12:29	4.66	
1/8/2013	12:30	4.66	
1/8/2013	12:31	4.66	
1/8/2013	12:32	4.66	
1/8/2013	12:33	4.66	
1/8/2013	12:34	4.66	
1/8/2013	12:35	4.68	
1/8/2013	12:36	4.70	
1/8/2013	12:37	4.68	Pumping rate of TW-7 58.2 gpm
1/8/2013	12:38	4.68	
1/8/2013	12:39	5.00	Pumping of TW-11 started.
1/8/2013	12:40	4.78	TW-11 shut down due to problem with discharge hose.
1/8/2013	12:41	4.73	
1/8/2013	12:42	4.71	
1/8/2013	12:43	4.70	
1/8/2013	12:44	4.69	
1/8/2013	12:45	4.69	
1/8/2013	12:46	4.68	
1/8/2013	12:47	4.68	
1/8/2013	12:48	4.68	Pumping rate of TW-7 58.2 gpm

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/8/2013	12:49	4.68	Pumping rate of TW-7 58.2 gpm
1/8/2013	12:50	4.68	
1/8/2013	12:51	4.68	
1/8/2013	12:52	4.68	
1/8/2013	12:53	4.68	
1/8/2013	12:54	4.89	Pumping of TW-11 restarted.
1/8/2013	12:55	5.08	Pumping rate of TW-11 74 gpm
1/8/2013	12:56	5.16	
1/8/2013	12:57	5.21	
1/8/2013	12:58	5.24	
1/8/2013	12:59	5.27	
1/8/2013	13:00	5.29	
1/8/2013	13:01	5.30	
1/8/2013	13:02	5.31	
1/8/2013	13:03	5.32	
1/8/2013	13:04	5.33	
1/8/2013	13:05	5.33	
1/8/2013	13:06	5.34	
1/8/2013	13:07	5.35	
1/8/2013	13:08	5.35	
1/8/2013	13:09	5.36	
1/8/2013	13:10	5.36	
1/8/2013	13:11	5.36	
1/8/2013	13:12	5.36	
1/8/2013	13:13	5.36	
1/8/2013	13:14	5.37	
1/8/2013	13:15	5.37	
1/8/2013	13:16	5.37	
1/8/2013	13:17	5.38	
1/8/2013	13:18	5.38	
1/8/2013	13:19	5.38	
1/8/2013	13:20	5.38	
1/8/2013	13:21	5.38	
1/8/2013	13:22	5.38	
1/8/2013	13:23	5.39	
1/8/2013	13:24	5.39	
1/8/2013	13:25	5.39	
1/8/2013	13:26	5.39	
1/8/2013	13:27	5.39	
1/8/2013	13:28	5.39	
1/8/2013	13:29	5.39	
1/8/2013	13:30	5.39	
1/8/2013	14:00	5.42	
1/8/2013	15:00	5.43	
1/8/2013	16:00	5.45	Pumping rate of TW-7 55 gpm
1/8/2013	17:00	5.49	
1/8/2013	18:00	5.49	
1/8/2013	19:00	5.49	
1/8/2013	20:00	5.49	
1/8/2013	21:00	5.50	
1/8/2013	22:00	5.51	
1/8/2013	23:00	5.51	Pumping rate of TW-7 55 gpm
1/9/2013	0:00	5.52	Pumping rate of TW-11 74 gpm

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/9/2013	1:00	5.52	Pumping rate of TW-7 55 gpm
1/9/2013	2:00	5.52	Pumping rate of TW-11 74 gpm
1/9/2013	3:00	5.53	
1/9/2013	4:00	5.53	
1/9/2013	5:00	5.64	
1/9/2013	6:00	5.64	
1/9/2013	7:00	5.64	
1/9/2013	8:00	5.65	
1/9/2013	9:00	5.65	Pumping rate of TW-7 55 gpm
1/9/2013	10:00	5.65	Pumping rate of TW-11 74 gpm
1/9/2013	11:00	5.65	
1/9/2013	12:00	5.65	
1/9/2013	13:00	5.65	
1/9/2013	14:00	5.65	
1/9/2013	15:00	5.65	
1/9/2013	16:00	5.65	
1/9/2013	17:00	5.65	Pumping rate of TW-7 55 gpm
1/9/2013	18:00	5.66	Pumping rate of TW-11 74 gpm
1/9/2013	19:00	5.67	
1/9/2013	20:00	5.67	
1/9/2013	21:00	5.68	
1/9/2013	22:00	5.68	
1/9/2013	23:00	5.68	
1/10/2013	0:00	5.68	
1/10/2013	1:00	5.69	
1/10/2013	2:00	5.69	
1/10/2013	3:00	5.70	
1/10/2013	4:00	5.70	
1/10/2013	5:00	5.71	
1/10/2013	6:00	5.71	
1/10/2013	7:00	5.72	
1/10/2013	8:00	5.72	Pumping rate of TW-7 55 gpm
1/10/2013	9:00	5.72	Pumping rate of TW-11 74 gpm
1/10/2013	10:00	5.73	
1/10/2013	11:00	5.73	
1/10/2013	12:00	5.73	
1/10/2013	12:50	5.73	
1/10/2013	12:51	5.73	
1/10/2013	12:52	5.73	
1/10/2013	12:53	5.73	Pumping rate of TW-7 55 gpm
1/10/2013	12:54	5.73	Pumping rate of TW-11 74 gpm
1/10/2013	12:55	5.73	Pumping of TW-7 and TW-11 stopped.
1/10/2013	12:56	4.49	
1/10/2013	12:57	4.28	
1/10/2013	12:58	4.16	
1/10/2013	12:59	4.09	
1/10/2013	13:00	4.04	
1/10/2013	13:01	4.00	
1/10/2013	13:02	3.97	
1/10/2013	13:03	3.94	
1/10/2013	13:04	3.93	
1/10/2013	13:05	3.91	
1/10/2013	13:06	3.90	

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/10/2013	13:07	3.89	
1/10/2013	13:08	3.88	
1/10/2013	13:09	3.86	
1/10/2013	13:10	3.86	
1/10/2013	13:11	3.85	
1/10/2013	13:12	3.85	
1/10/2013	13:13	3.84	
1/10/2013	13:14	3.83	
1/10/2013	13:15	3.83	
1/10/2013	13:16	3.82	
1/10/2013	13:17	3.82	
1/10/2013	13:18	3.82	
1/10/2013	13:19	3.81	
1/10/2013	13:20	3.81	
1/10/2013	13:21	3.81	
1/10/2013	13:22	3.80	
1/10/2013	13:23	3.80	
1/10/2013	13:24	3.80	
1/10/2013	13:25	3.80	
1/10/2013	13:26	3.79	
1/10/2013	13:27	3.79	
1/10/2013	13:28	3.79	
1/10/2013	13:29	3.79	
1/10/2013	13:30	3.79	
1/10/2013	13:31	3.78	
1/10/2013	13:32	3.78	
1/10/2013	13:33	3.78	
1/10/2013	13:34	3.78	
1/10/2013	13:35	3.78	
1/10/2013	13:36	3.78	
1/10/2013	13:37	3.78	
1/10/2013	13:38	3.77	
1/10/2013	13:39	3.78	
1/10/2013	13:40	3.77	
1/10/2013	13:41	3.77	
1/10/2013	13:42	3.77	
1/10/2013	13:43	3.77	
1/10/2013	13:44	3.77	
1/10/2013	13:45	3.77	
1/10/2013	13:46	3.77	
1/10/2013	13:47	3.77	
1/10/2013	13:48	3.77	
1/10/2013	13:49	3.77	
1/10/2013	13:50	3.77	
1/10/2013	13:51	3.77	
1/10/2013	13:52	3.77	
1/10/2013	13:53	3.77	
1/10/2013	13:54	3.77	
1/10/2013	13:55	3.77	
1/10/2013	14:00	3.76	
1/10/2013	15:00	3.75	
1/10/2013	16:00	3.75	
1/10/2013	17:00	3.75	

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/10/2013	18:00	3.75	
1/10/2013	19:00	3.75	
1/10/2013	20:00	3.75	
1/10/2013	21:00	3.75	
1/10/2013	22:00	3.75	
1/10/2013	23:00	3.74	
1/11/2013	0:00	3.74	
1/11/2013	1:00	3.74	
1/11/2013	2:00	3.74	
1/11/2013	3:00	3.74	
1/11/2013	4:00	3.74	
1/11/2013	5:00	3.75	
1/11/2013	6:00	3.74	
1/11/2013	7:00	3.75	
1/11/2013	8:00	3.75	
1/11/2013	9:00	3.76	
1/11/2013	10:00	3.76	
1/11/2013	11:00	3.76	
1/11/2013	11:01	3.76	
1/11/2013	11:02	3.76	
1/11/2013	11:03	3.76	Pump in Bedrock Well 1 shut down.
1/11/2013	11:04	3.76	
1/11/2013	11:05	3.76	
1/11/2013	11:06	3.74	
1/11/2013	11:07	3.74	
1/11/2013	11:08	3.73	
1/11/2013	11:09	3.72	
1/11/2013	11:10	3.70	
1/11/2013	11:11	3.69	
1/11/2013	11:12	3.68	
1/11/2013	11:13	3.67	
1/11/2013	11:14	3.66	
1/11/2013	11:15	3.65	
1/11/2013	11:16	3.64	
1/11/2013	11:17	3.64	
1/11/2013	11:18	3.63	
1/11/2013	11:19	3.62	
1/11/2013	11:20	3.61	
1/11/2013	11:21	3.61	
1/11/2013	11:22	3.60	
1/11/2013	11:23	3.60	
1/11/2013	11:24	3.59	
1/11/2013	11:25	3.59	
1/11/2013	11:26	3.58	
1/11/2013	11:27	3.57	
1/11/2013	11:28	3.57	
1/11/2013	11:29	3.57	
1/11/2013	11:30	3.56	
1/11/2013	11:31	3.56	
1/11/2013	11:32	3.55	
1/11/2013	11:33	3.55	
1/11/2013	11:34	3.55	
1/11/2013	11:35	3.54	

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/11/2013	11:36	3.54	
1/11/2013	11:37	3.53	
1/11/2013	11:38	3.53	
1/11/2013	11:39	3.53	
1/11/2013	11:40	3.52	
1/11/2013	11:41	3.52	
1/11/2013	11:42	3.52	
1/11/2013	11:43	3.52	
1/11/2013	11:44	3.52	
1/11/2013	11:45	3.52	
1/11/2013	11:46	3.51	
1/11/2013	11:47	3.51	
1/11/2013	11:48	3.51	
1/11/2013	11:49	3.51	
1/11/2013	11:50	3.50	
1/11/2013	11:51	3.50	
1/11/2013	11:52	3.49	
1/11/2013	11:53	3.49	
1/11/2013	11:54	3.49	
1/11/2013	11:55	3.49	
1/11/2013	11:56	3.49	
1/11/2013	11:57	3.49	
1/11/2013	11:58	3.49	
1/11/2013	11:59	3.48	
1/11/2013	12:00	3.48	
1/11/2013	13:00	3.43	
1/11/2013	14:00	3.41	90% water-level recovery to pre-test static level.
1/11/2013	15:00	3.39	
1/11/2013	16:00	3.38	
1/11/2013	17:00	3.37	Approximate start time of precipitation event.
1/11/2013	18:00	3.36	
1/11/2013	19:00	3.34	
1/11/2013	20:00	3.32	
1/11/2013	21:00	3.30	
1/11/2013	22:00	3.28	
1/11/2013	23:00	3.27	
1/12/2013	0:00	3.25	
1/12/2013	1:00	3.23	
1/12/2013	2:00	3.20	
1/12/2013	3:00	3.18	
1/12/2013	4:00	3.15	
1/12/2013	5:00	3.12	
1/12/2013	6:00	3.08	
1/12/2013	7:00	3.05	
1/12/2013	8:00	3.03	
1/12/2013	9:00	3.01	
1/12/2013	10:00	2.99	
1/12/2013	11:00	2.97	
1/12/2013	12:00	2.95	
1/12/2013	13:00	2.94	
1/12/2013	14:00	2.93	
1/12/2013	15:00	2.92	
1/12/2013	16:00	2.91	

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

Summary of Water-Level Measurements Collected from Bedrock Well 1 During Pumping Test
Conducted January 8 Through January 11, 2013

Date	Time	Depth to Water (ft btoc)	Comments
1/12/2013	17:00	2.90	
1/12/2013	18:00	2.89	
1/12/2013	19:00	2.88	
1/12/2013	20:00	2.87	
1/12/2013	21:00	2.85	
1/12/2013	22:00	2.84	
1/12/2013	23:00	2.82	
1/13/2013	0:00	2.81	
1/13/2013	1:00	2.79	
1/13/2013	2:00	2.78	
1/13/2013	3:00	2.78	
1/13/2013	4:00	2.77	
1/13/2013	5:00	2.77	
1/13/2013	6:00	2.77	
1/13/2013	7:00	2.76	
1/13/2013	8:00	2.76	
1/13/2013	9:00	2.76	
1/13/2013	10:00	2.76	
1/13/2013	11:00	2.76	
1/13/2013	12:00	2.76	
1/13/2013	13:00	2.76	
1/13/2013	14:00	2.75	
1/13/2013	15:00	2.74	
1/13/2013	16:00	2.74	
1/13/2013	17:00	2.74	
1/13/2013	18:00	2.73	
1/13/2013	19:00	2.73	
1/13/2013	20:00	2.72	
1/13/2013	21:00	2.71	
1/13/2013	22:00	2.70	
1/13/2013	23:00	2.69	
1/14/2013	0:00	2.68	
1/14/2013	1:00	2.68	
1/14/2013	2:00	2.66	
1/14/2013	3:00	2.66	
1/14/2013	4:00	2.65	
1/14/2013	5:00	2.65	
1/14/2013	6:00	2.64	
1/14/2013	7:00	2.64	
1/14/2013	8:00	2.63	
1/14/2013	9:00	2.63	
1/14/2013	10:00	2.62	
1/14/2013	11:00	2.62	
1/14/2013	12:00	2.62	Transducer removed from well.

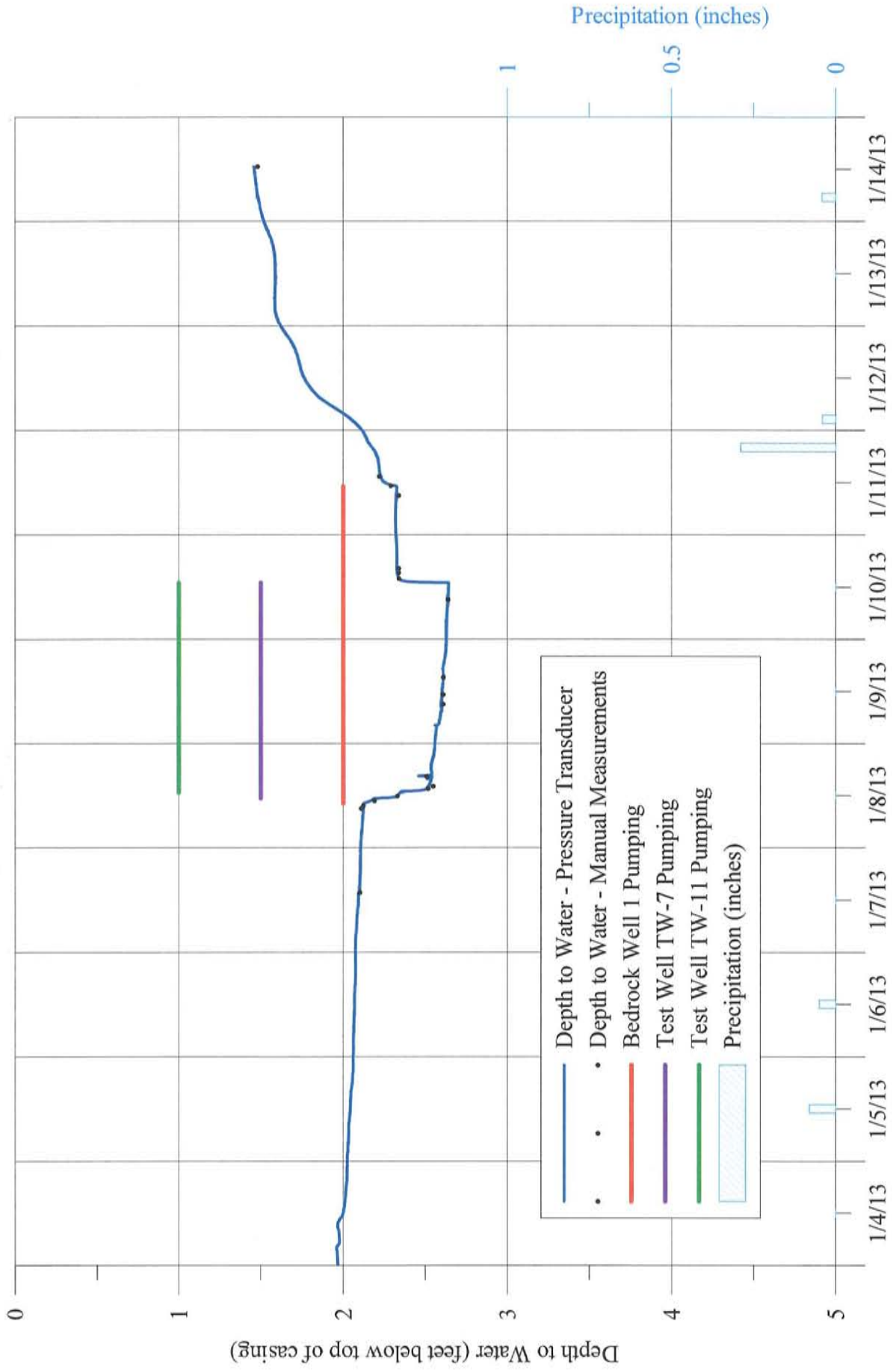
ft btoc feet below top of casing
gpm gallons per minute

APPENDIX IV

ONSITE MONITORING WELLS

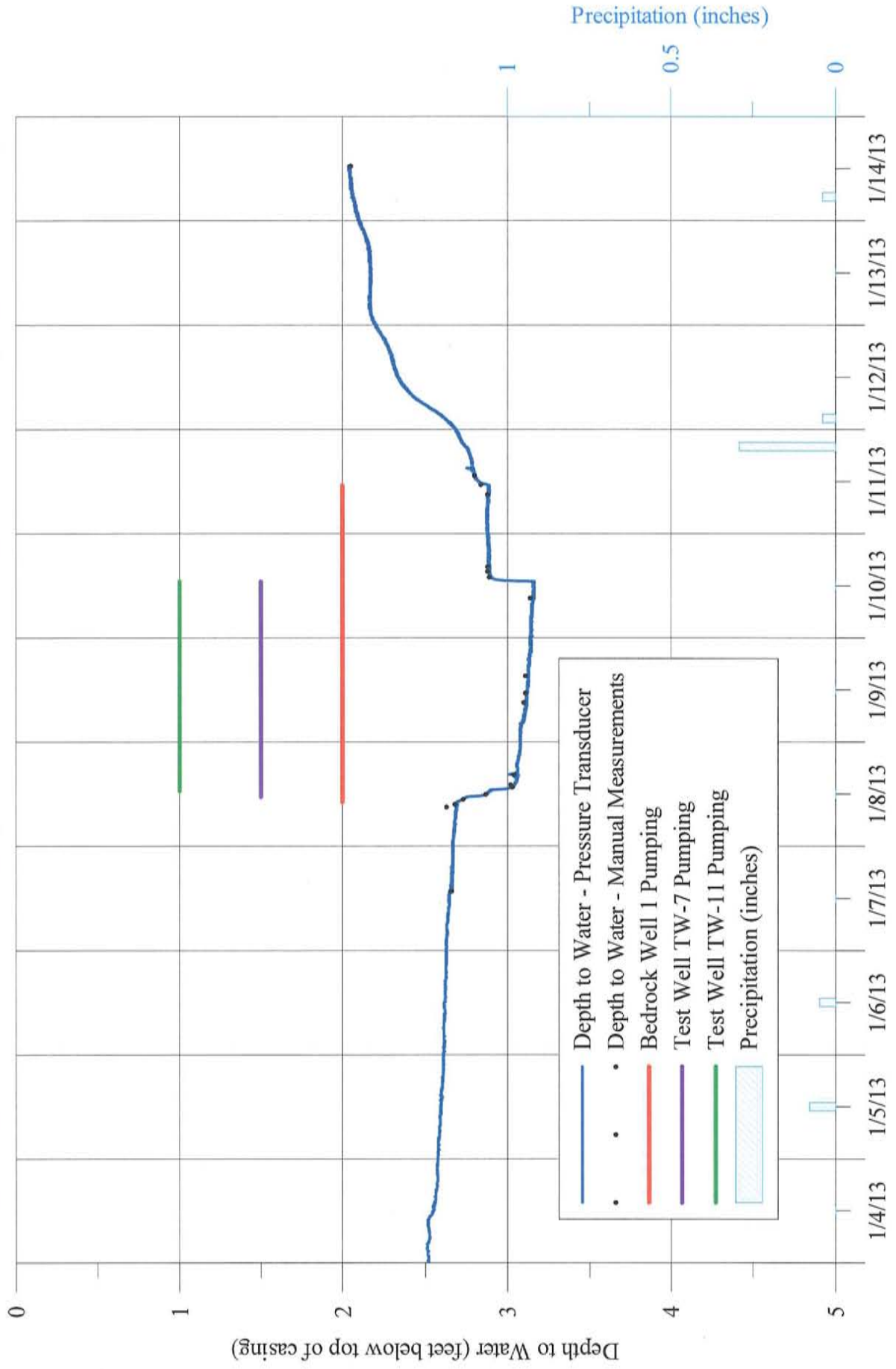
TOWN OF EAST FISHKILL
 CANNON PROPERTY
 EAST FISHKILL, NEW YORK YORK

Hydrograph of Water-Level Measurements Collected from TW-1A During 72-Hour Pumping Test Conducted on Bedrock Well 1 and Short-Term Pumping Test on Test Wells TW-7 and TW-11, January 8 Through January 11, 2013



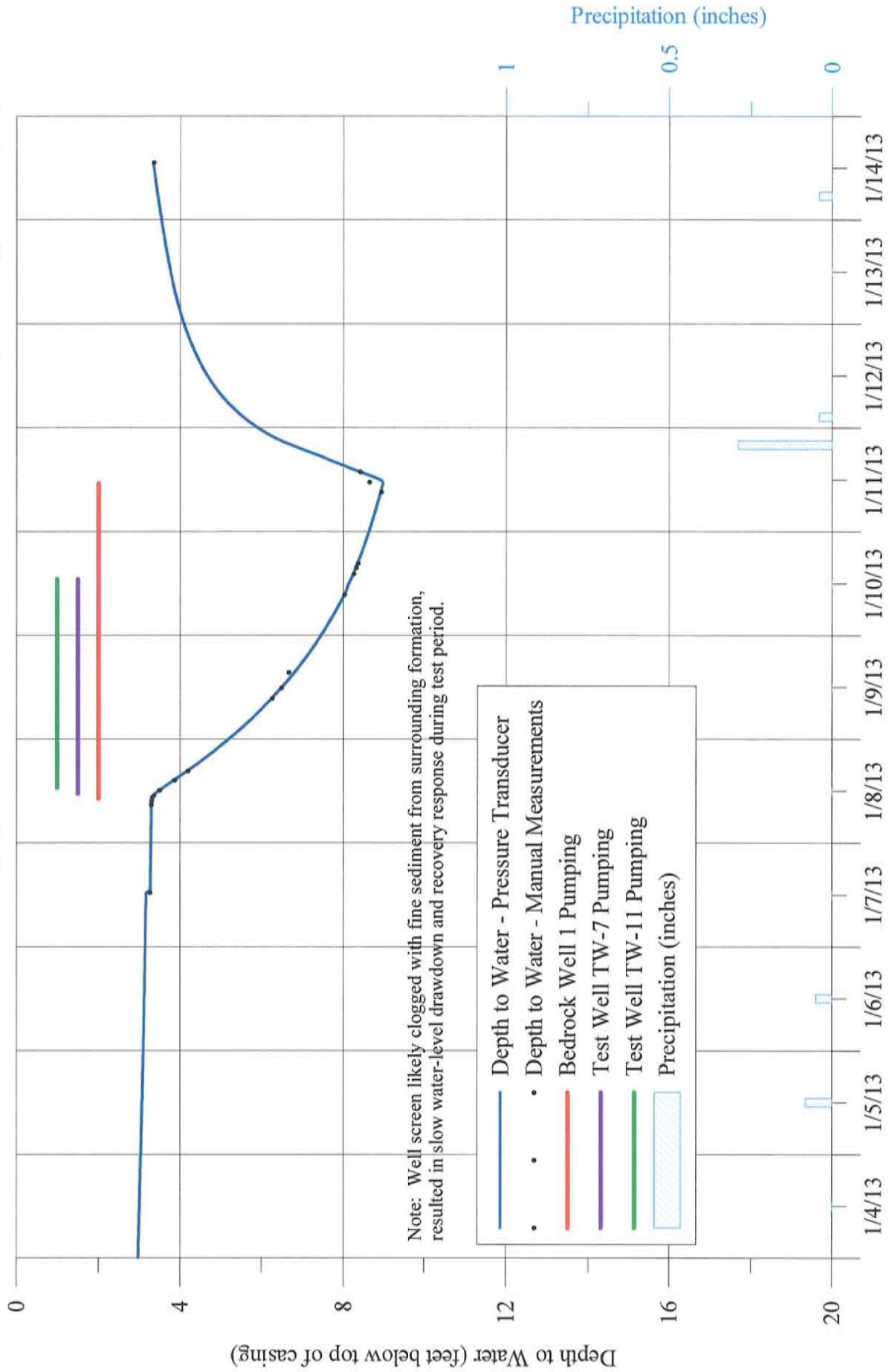
TOWN OF EAST FISHKILL
 CANNON PROPERTY
 EAST FISHKILL, NEW YORK YORK

Hydrograph of Water-Level Measurements Collected from TW-1B During 72-Hour Pumping Test Conducted on Bedrock Well 1 and Short-Term Pumping Test on Test Wells TW-7 and TW-11, January 8 Through January 11, 2013



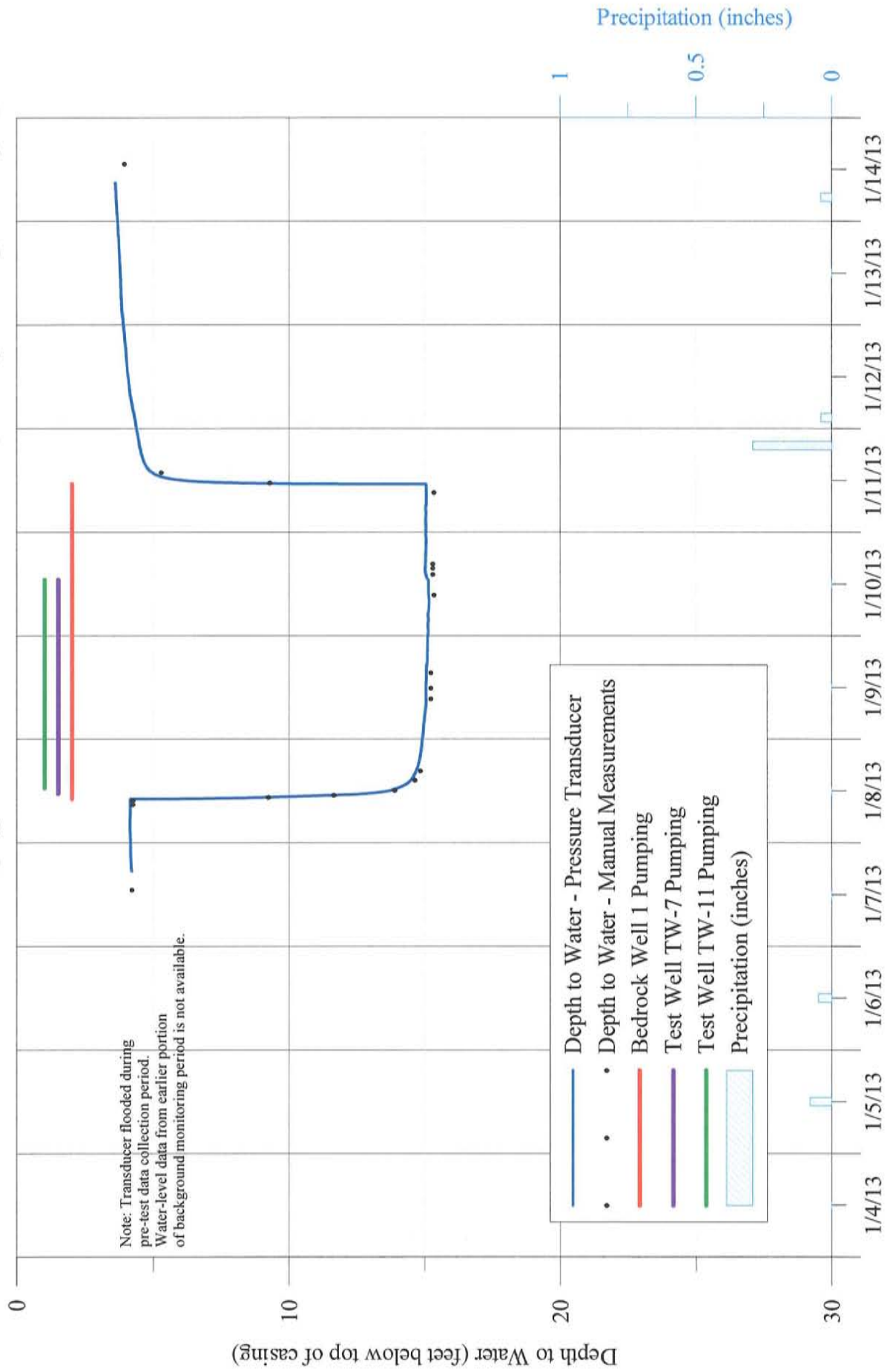
TOWN OF EAST FISHKILL
 CANNON PROPERTY
 EAST FISHKILL, NEW YORK YORK

Hydrograph of Water-Level Measurements Collected from TW-4 During 72-Hour Pumping Test Conducted on Bedrock Well 1 and Short-Term Pumping Test on Test Wells TW-7 and TW-11, January 8 Through January 11, 2013



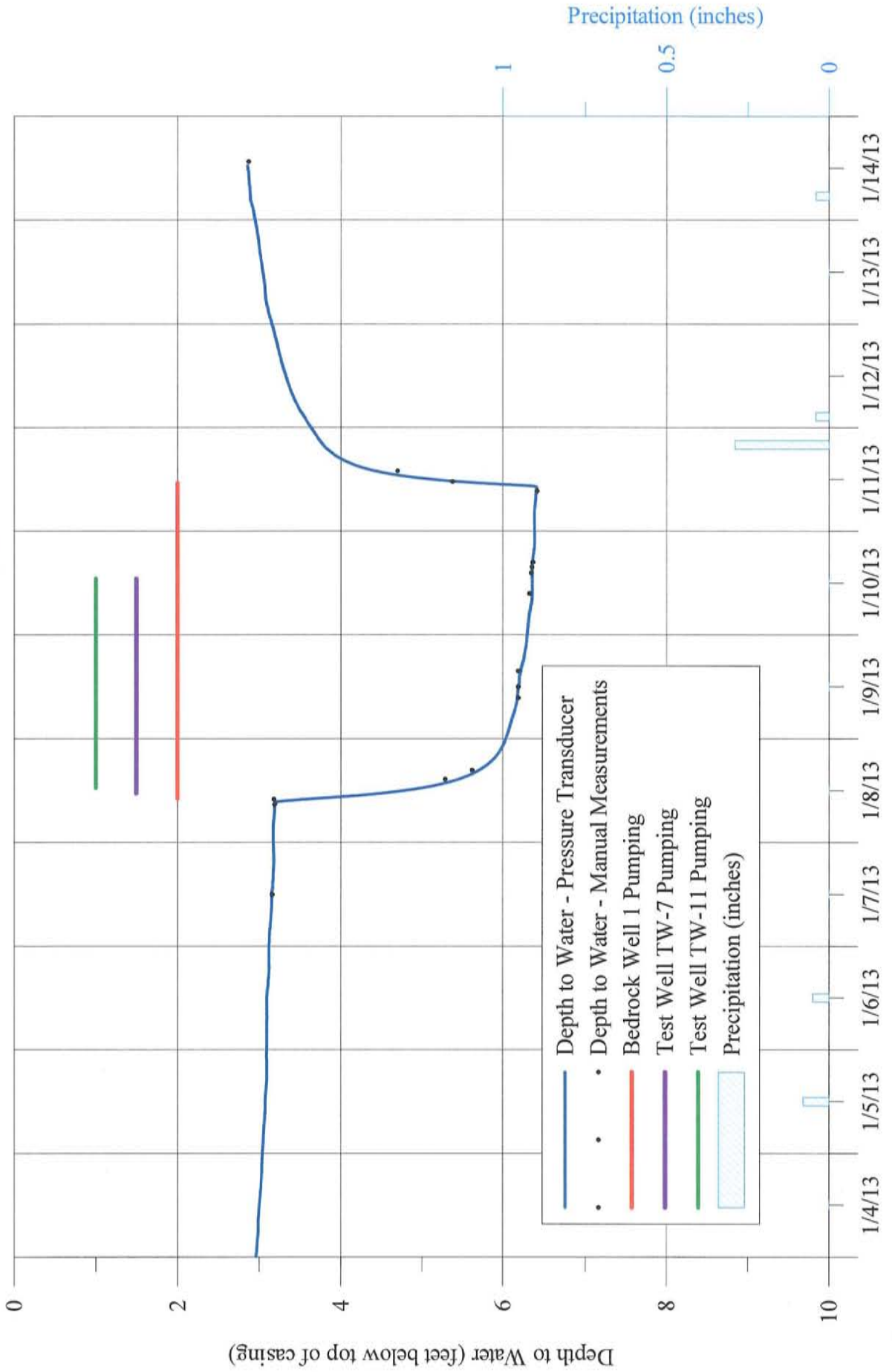
TOWN OF EAST FISHKILL
 CANNON PROPERTY
 EAST FISHKILL, NEW YORK YORK

Hydrograph of Water-Level Measurements Collected from TW-4A During 72-Hour Pumping Test Conducted on Bedrock Well 1 and Short-Term Pumping Test on Test Wells TW-7 and TW-11, January 8 Through January 11, 2013



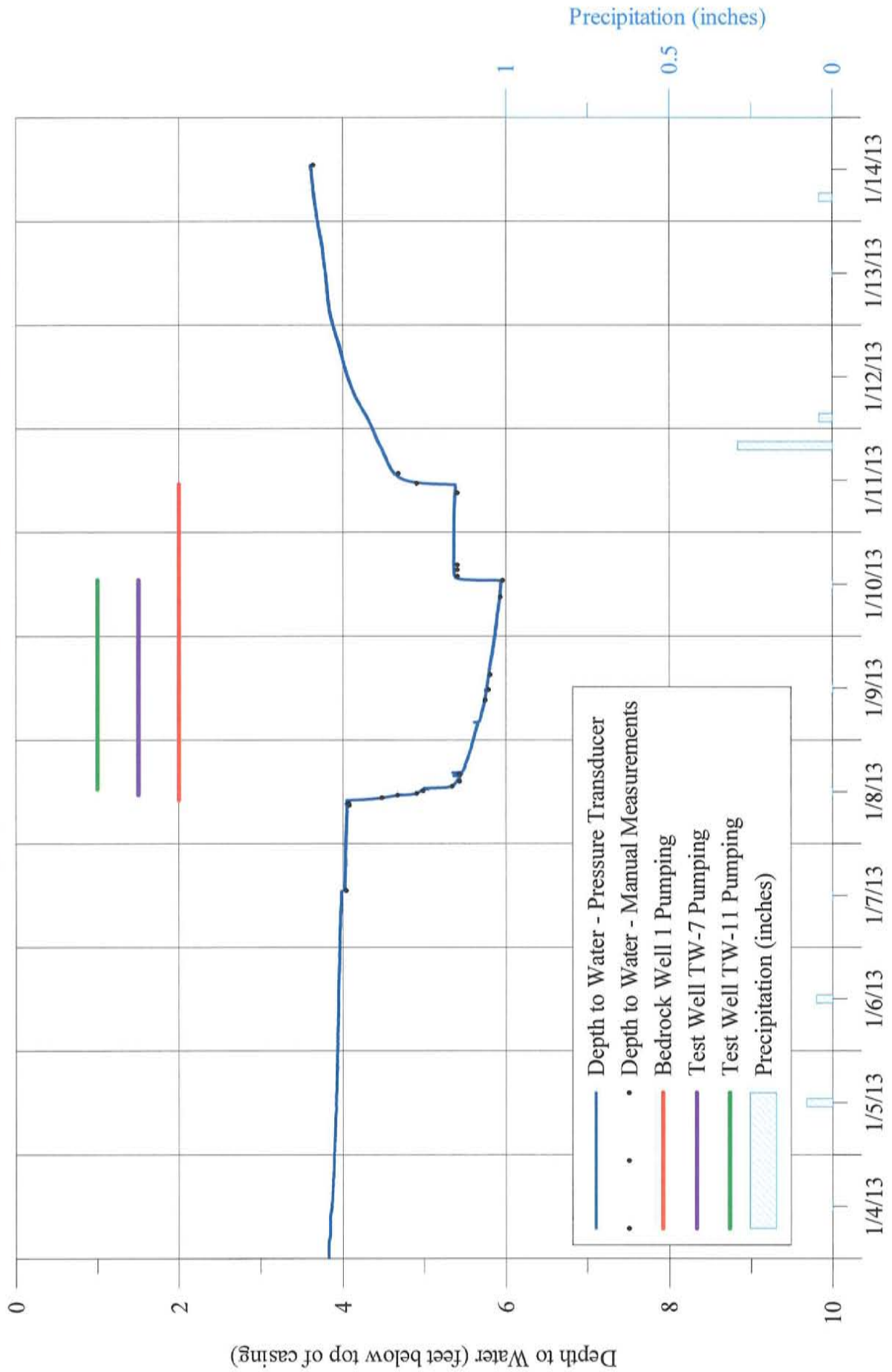
TOWN OF EAST FISHKILL
 CANNON PROPERTY
 EAST FISHKILL, NEW YORK YORK

Hydrograph of Water-Level Measurements Collected from TW-6 During 72-Hour Pumping Test Conducted on Bedrock Well 1 and Short-Term Pumping Test on Test Wells TW-7 and TW-11, January 8 Through January 11, 2013



TOWN OF EAST FISHKILL
 CANNON PROPERTY
 EAST FISHKILL, NEW YORK YORK

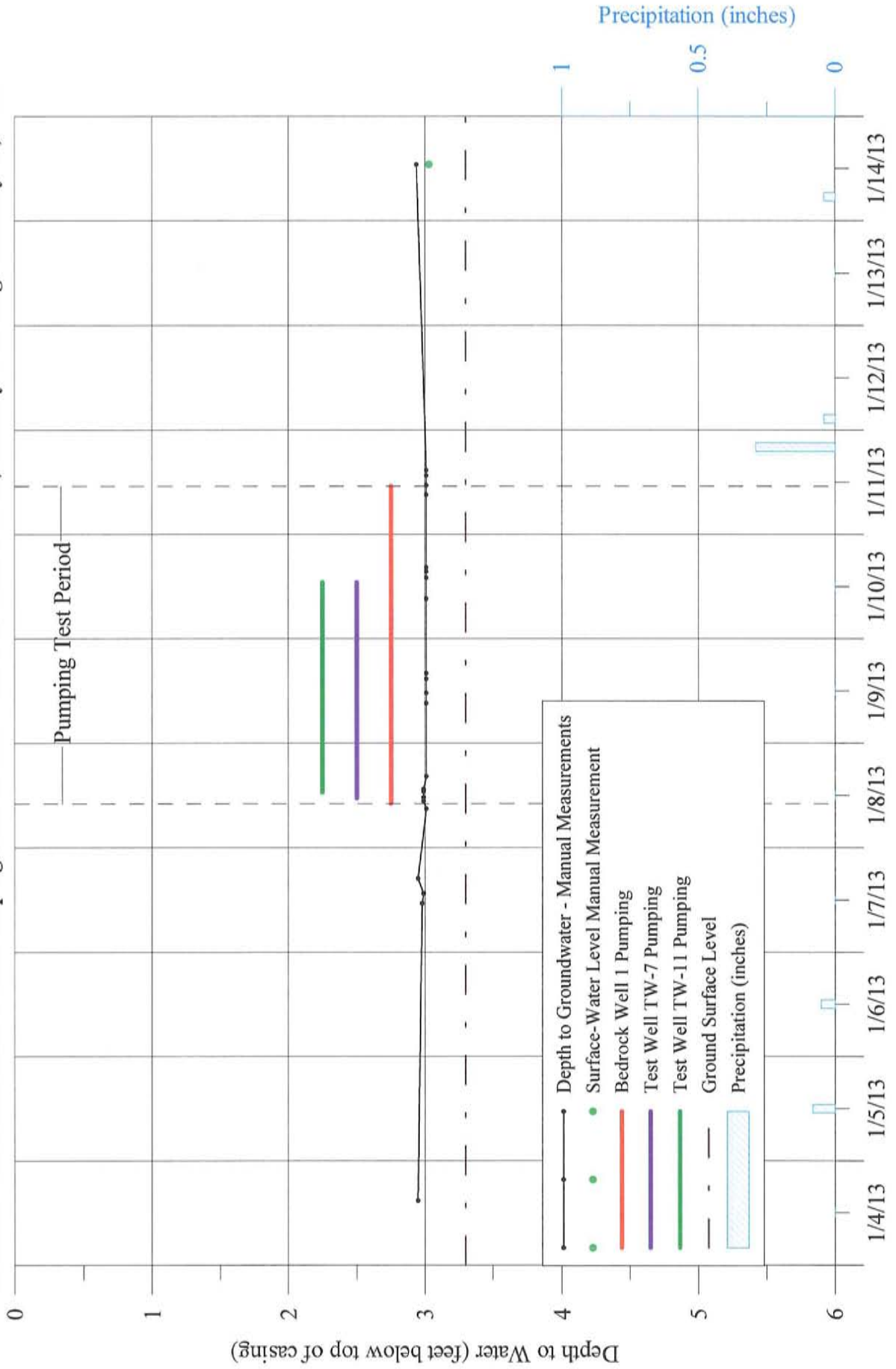
Hydrograph of Water-Level Measurements Collected from TW-10 During 72-Hour Pumping Test Conducted on Bedrock Well 1 and Short-Term Pumping Test on Test Wells TW-7 and TW-11, January 8 Through January 11, 2013



ONSITE PIEZOMETERS

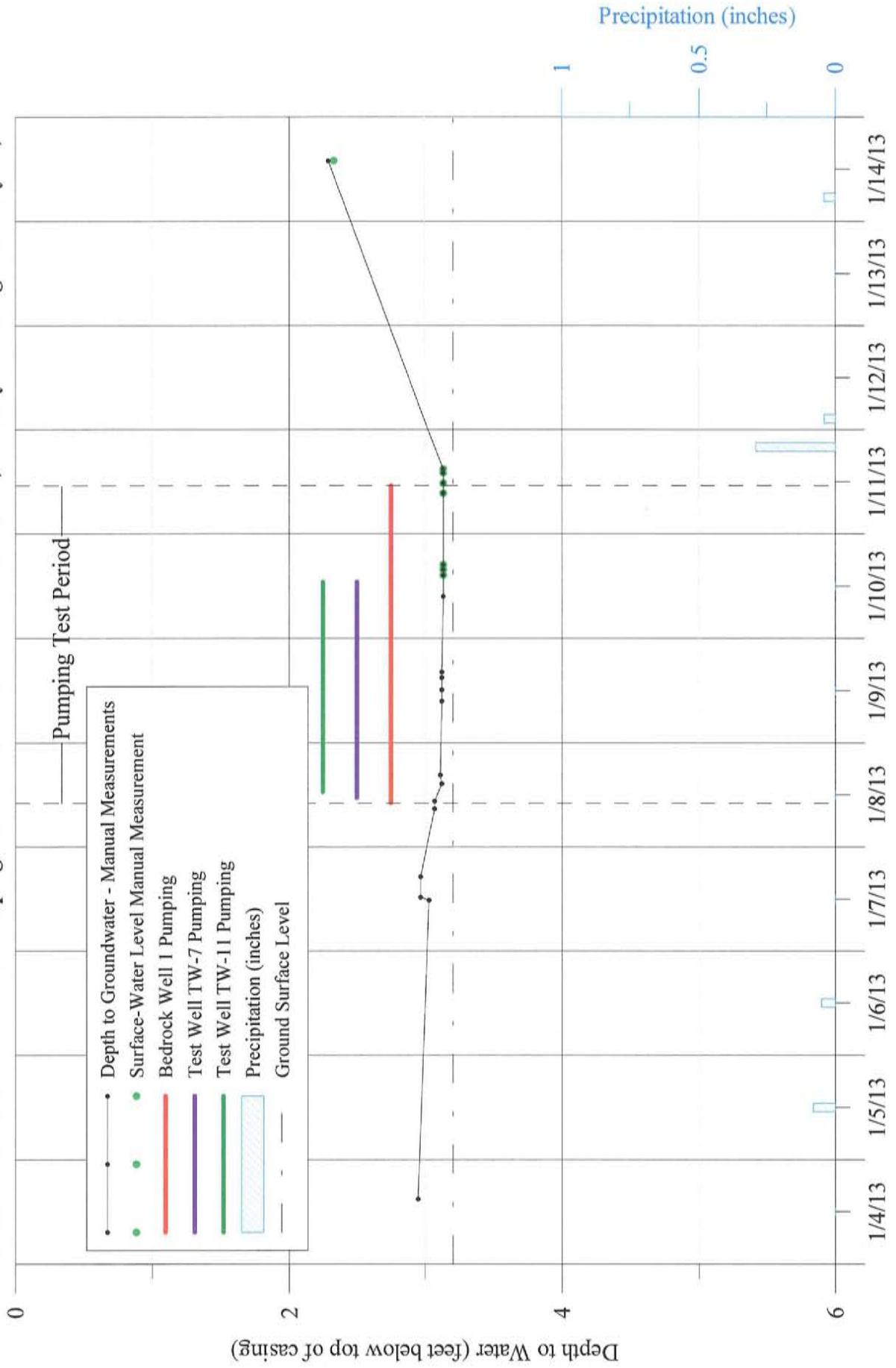
**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK**

Hydrograph of Water-Level Measurements Collected from Piezometer PZ-1 During 72-Hour Pumping Test Conducted on Bedrock Well 1 and Short-Term Pumping Test on Test Wells TW-7 and TW-11, January 8 Through January 11, 2013



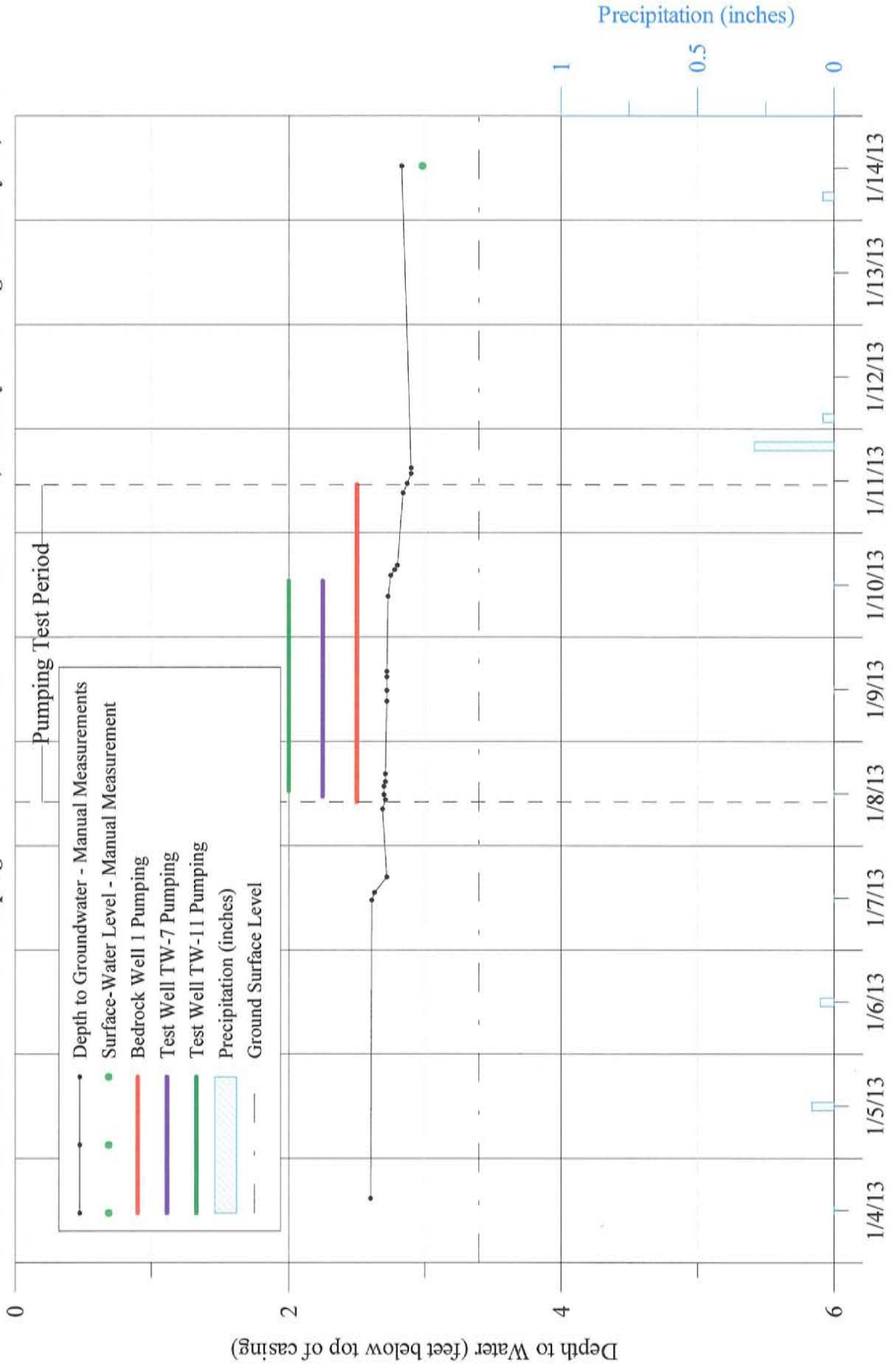
**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK**

Hydrograph of Water-Level Measurements Collected from Piezometer PZ-2 During 72-Hour Pumping Test Conducted on Bedrock Well 1 and Short-Term Pumping Test on Test Wells TW-7 and TW-11, January 8 Through January 11, 2013



**TOWN OF EAST FISHKILL
CANNON PROPERTY
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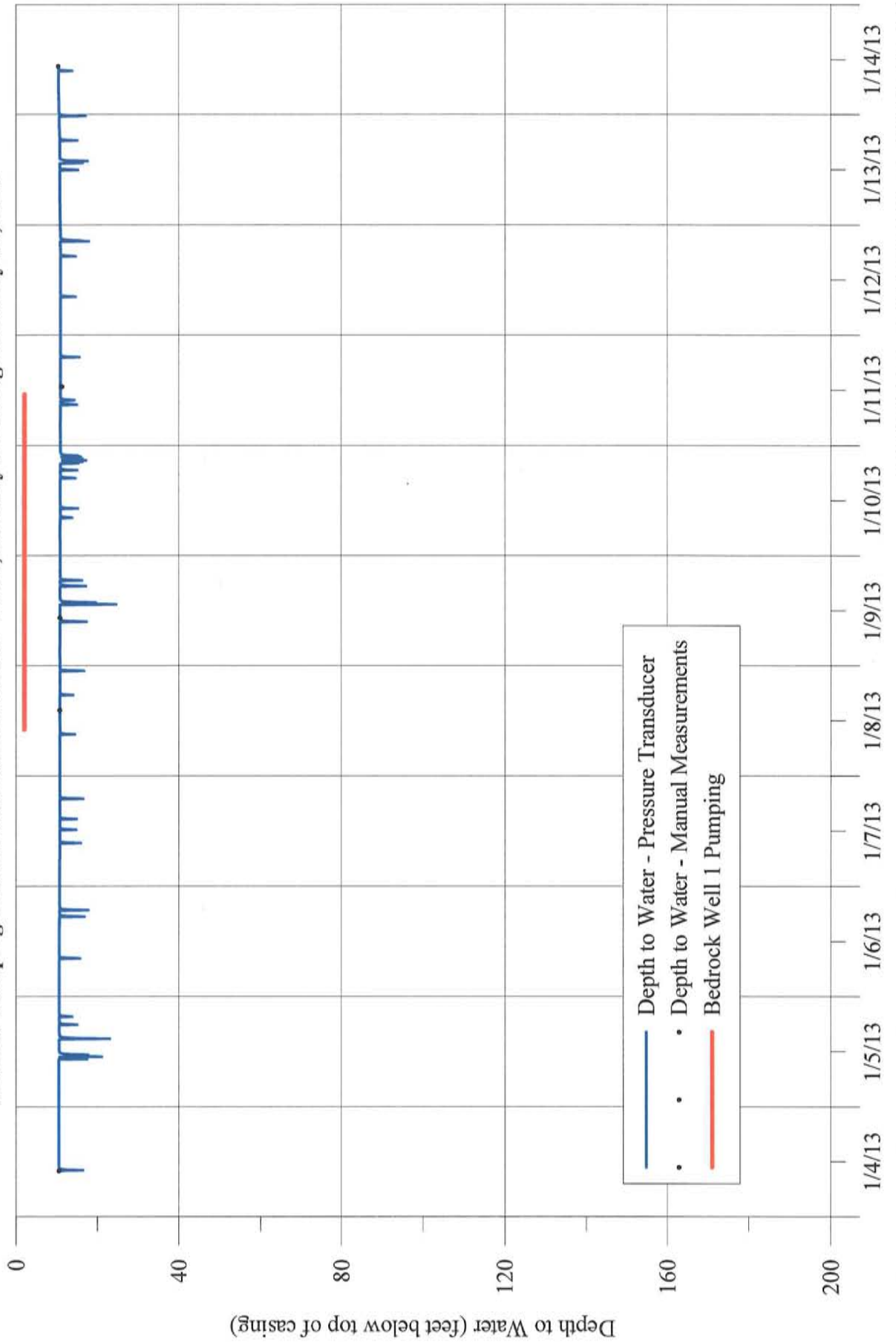
Hydrograph of Water-Level Measurements Collected from Piezometer PZ-3 During 72-Hour Pumping Test Conducted on Bedrock Well 1 and Short-Term Pumping Test on Test Wells TW-7 and TW-11, January 8 Through January 11, 2013



OFFSITE BEDROCK WELLS MONITORED

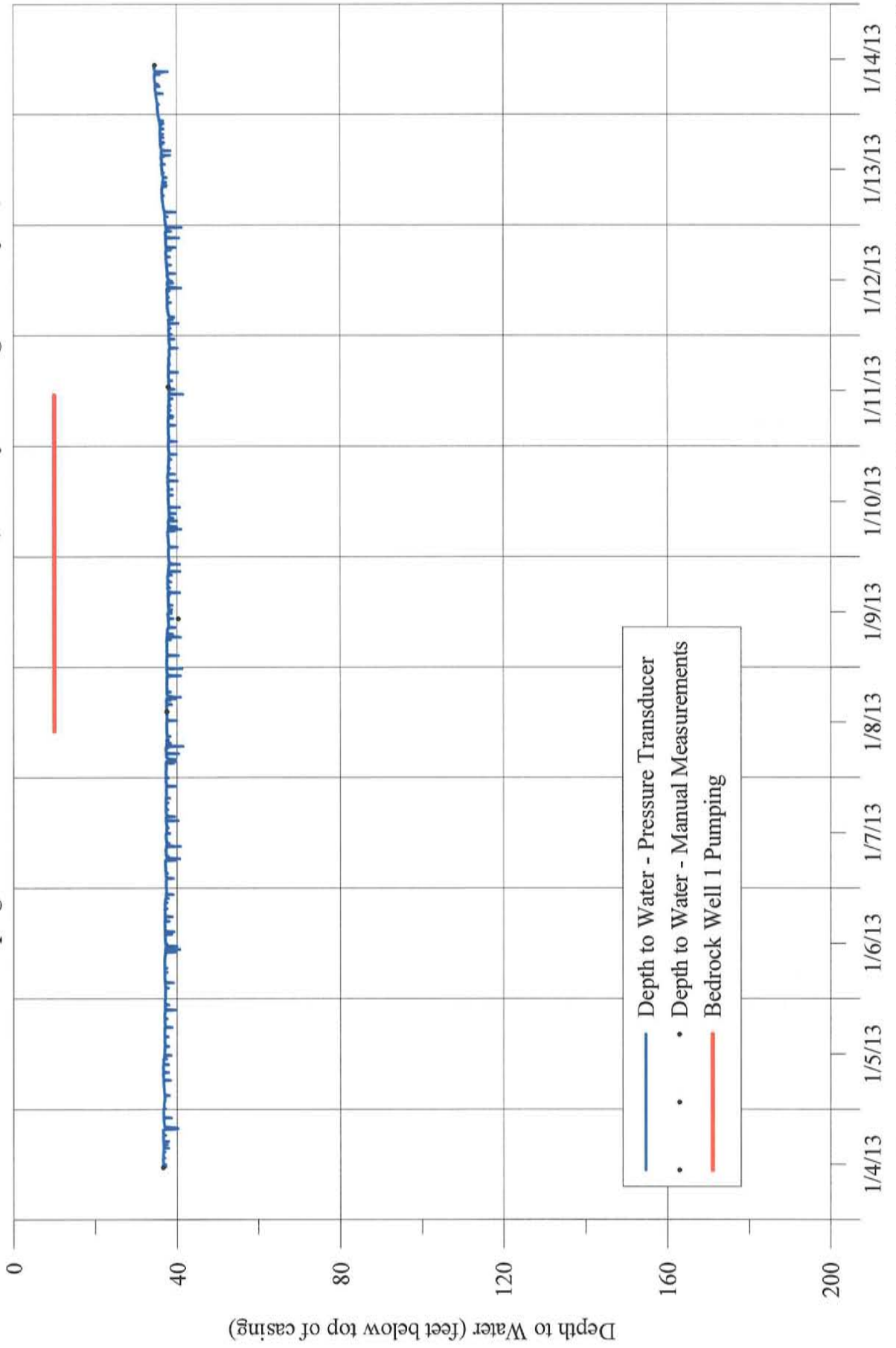
TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK

Hydrograph of Water-Level Measurements Collected from Well Located at 4 Brook Lane During
72-Hour Pumping Test Conducted on Bedrock Well 1, January 8 Through January 11, 2013



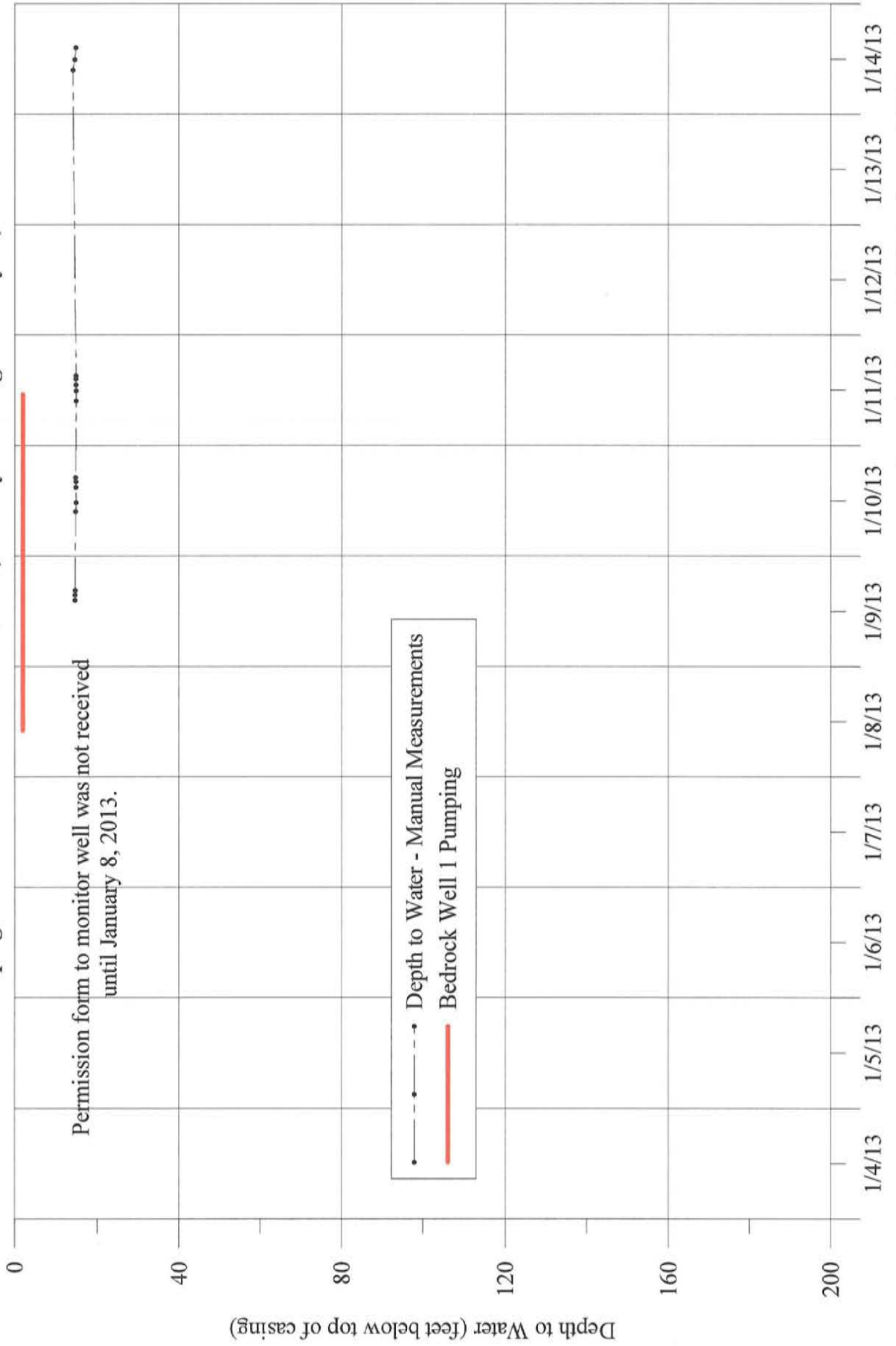
TOWN OF EAST FISHKILL
 CANNON PROPERTY
 EAST FISHKILL, NEW YORK YORK

Hydrograph of Water-Level Measurements Collected from Well Located at 9 Arrowhead Road During 72-Hour Pumping Test Conducted on Bedrock Well 1, January 8 Through January 11, 2013



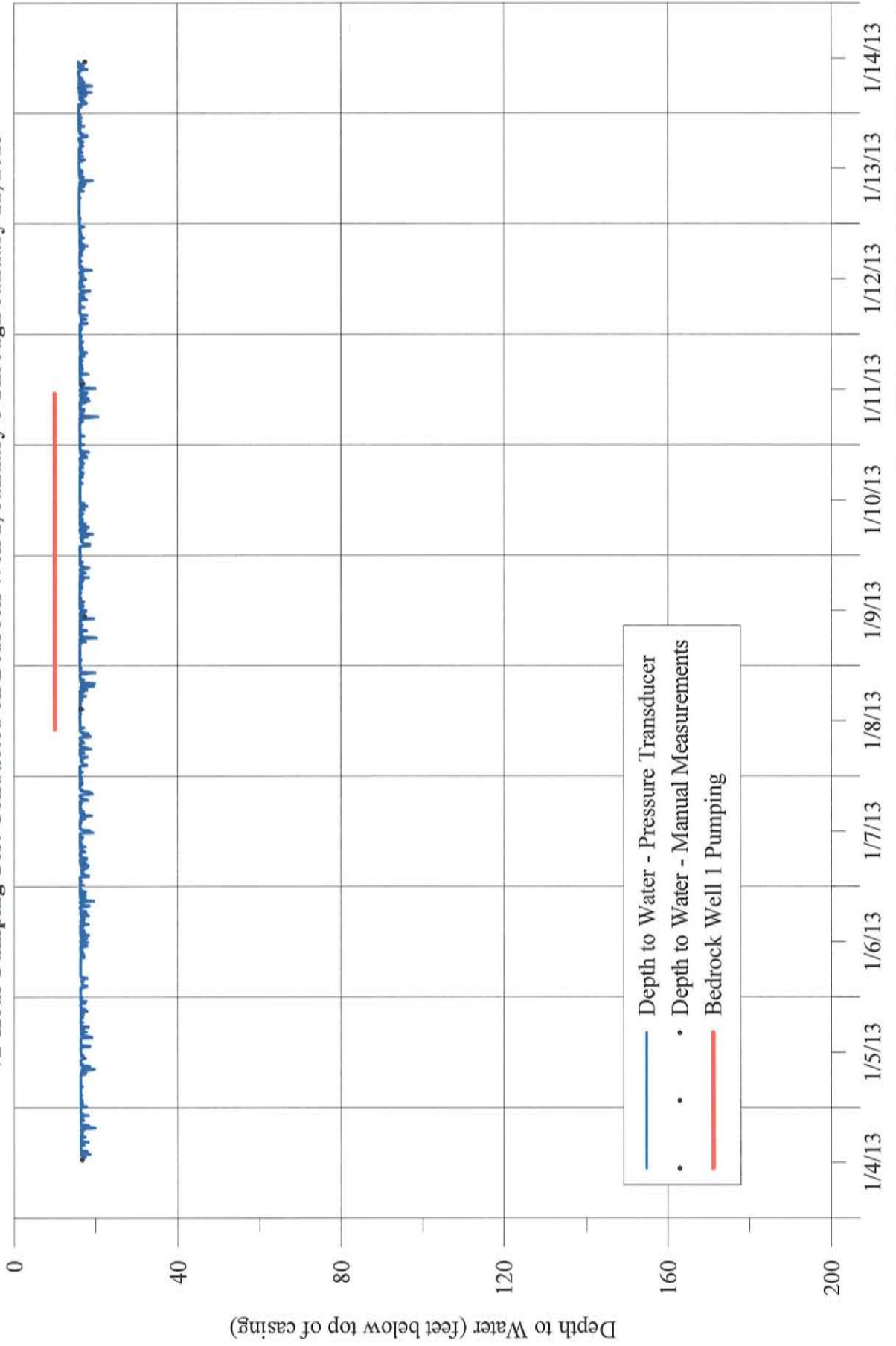
**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK**

**Hydrograph of Water-Level Measurements Collected from Well Located at 1 Mark Lane During
72-Hour Pumping Test Conducted on Bedrock Well 1, January 8 Through January 11, 2013**



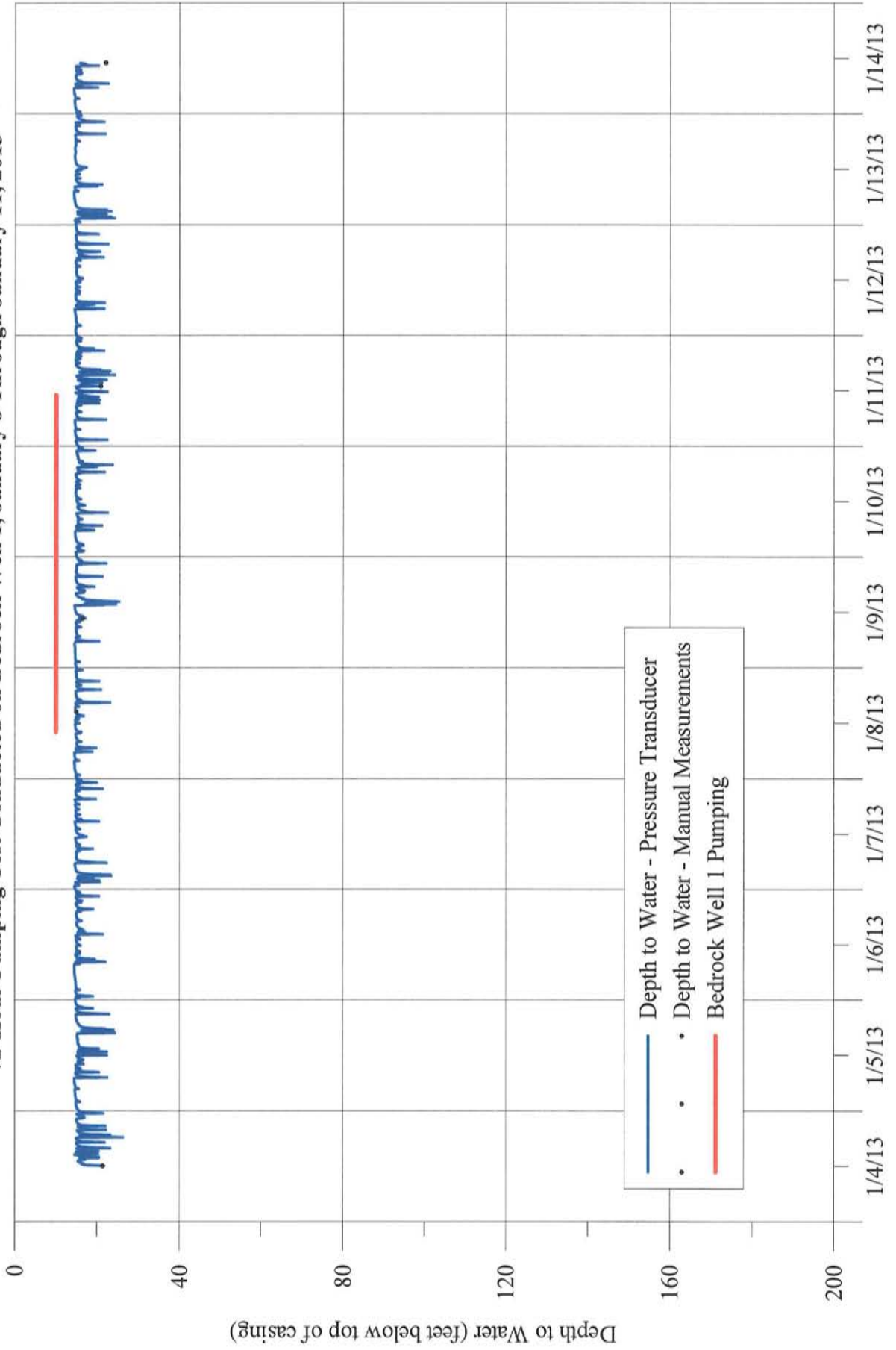
**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK**

**Hydrograph of Water-Level Measurements Collected from Well Located at 10 Creekside Road During
72-Hour Pumping Test Conducted on Bedrock Well 1, January 8 Through January 11, 2013**



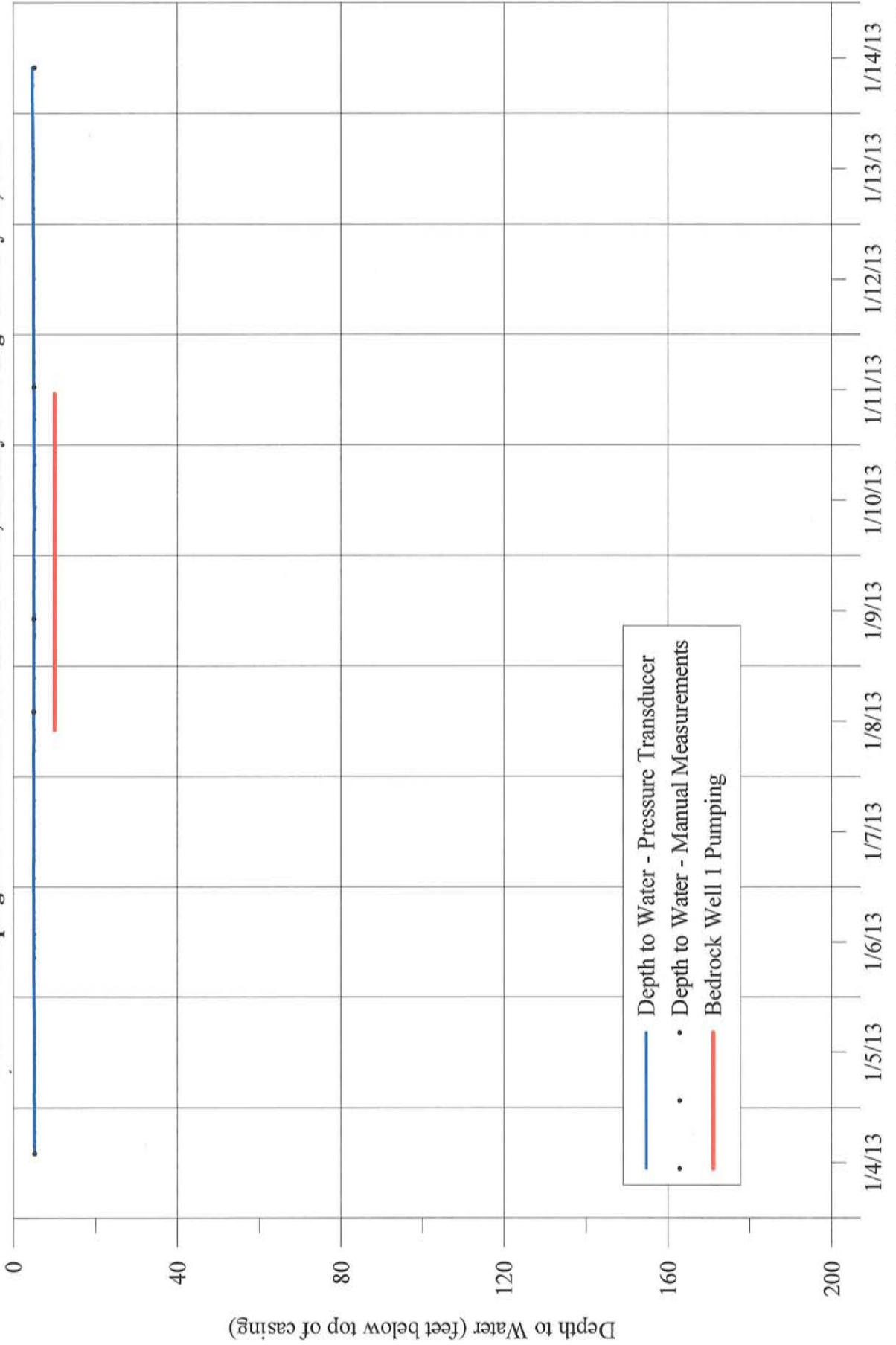
TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK

Hydrograph of Water-Level Measurements Collected from Well Located at 20 Creekside Road During
72-Hour Pumping Test Conducted on Bedrock Well 1, January 8 Through January 11, 2013



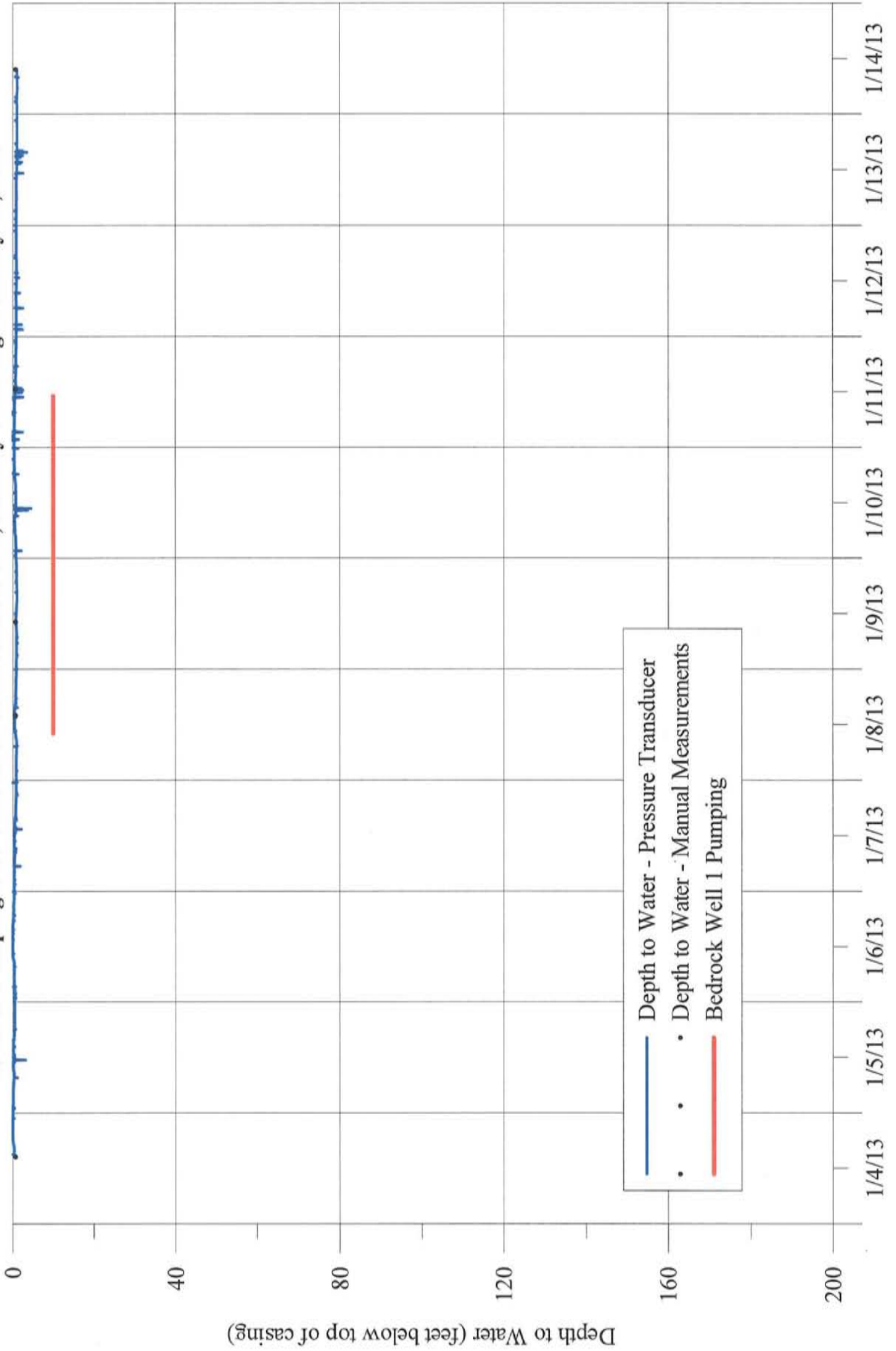
**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK**

**Hydrograph of Water-Level Measurements Collected from Well Located at 22 Stephen Drive During
72-Hour Pumping Test Conducted on Bedrock Well 1, January 8 Through January 11, 2013**



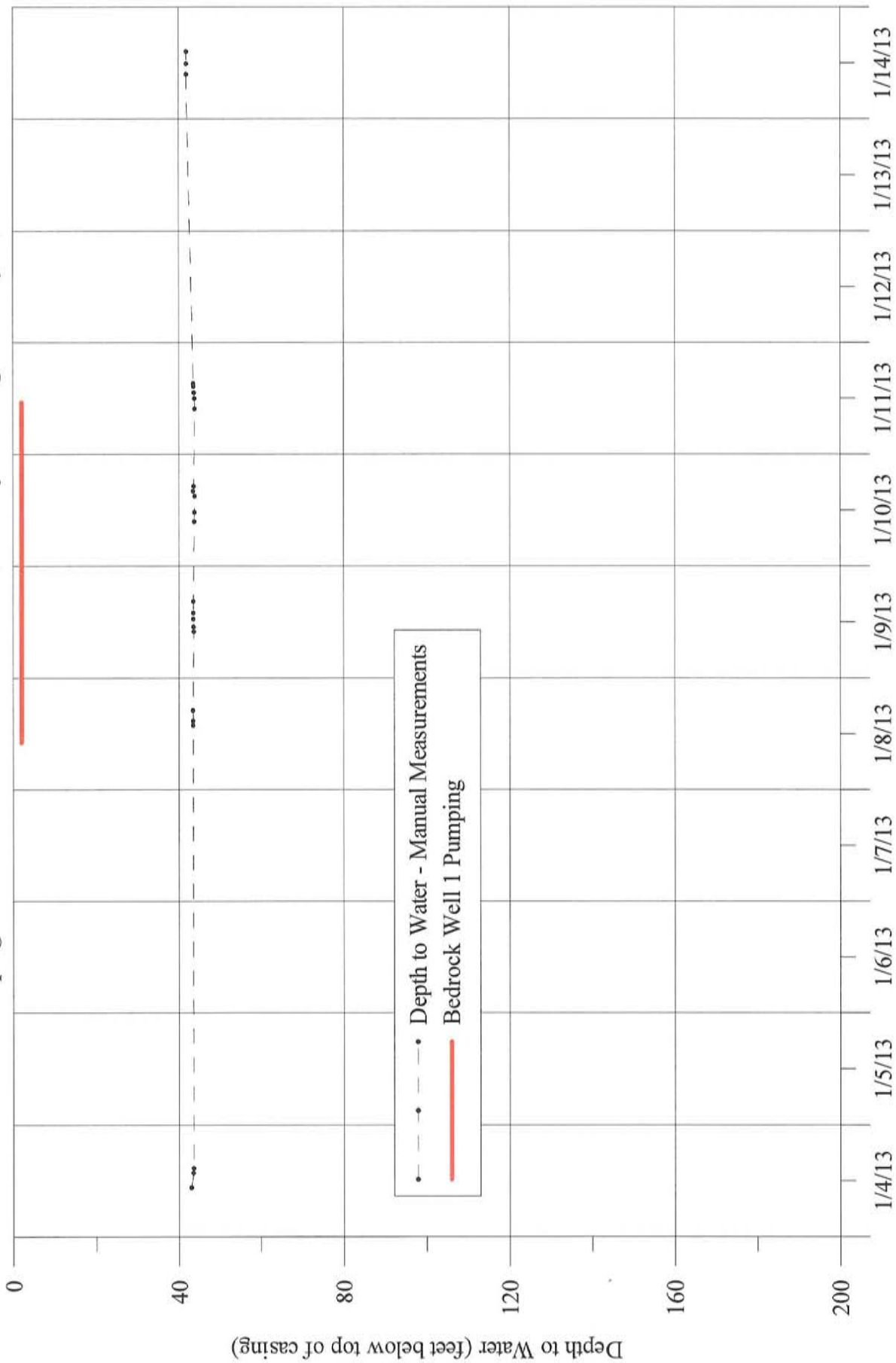
**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK**

**Hydrograph of Water-Level Measurements Collected from Well Located at 37 Stephen Drive During
72-Hour Pumping Test Conducted on Bedrock Well 1, January 8 Through January 11, 2013**



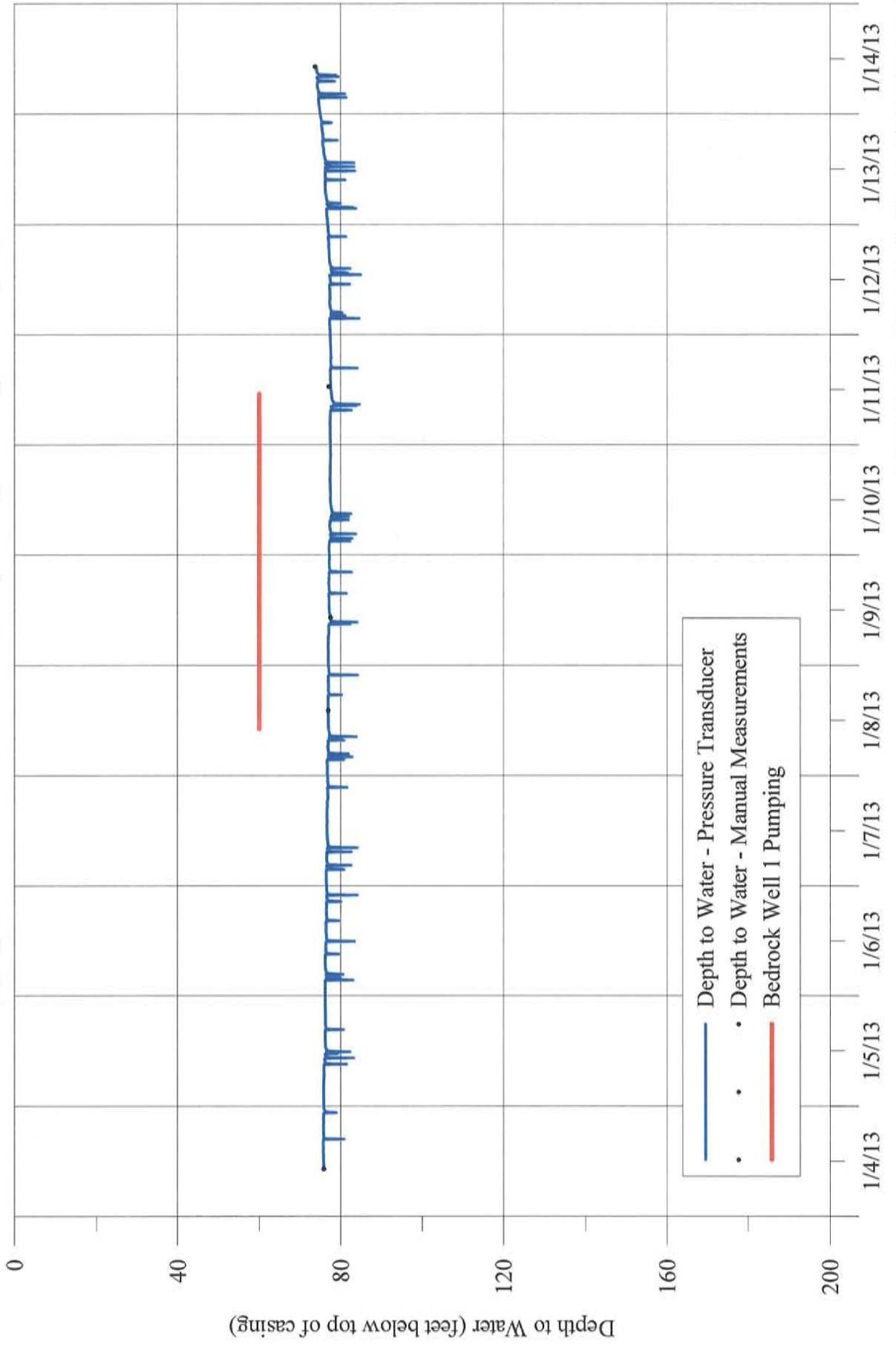
TOWN OF EAST FISHKILL
 CANNON PROPERTY
 EAST FISHKILL, NEW YORK YORK

Hydrograph of Water-Level Measurements Collected from Well Located at 48 Palen Road During
 72-Hour Pumping Test Conducted on Bedrock Well 1, January 8 Through January 11, 2013



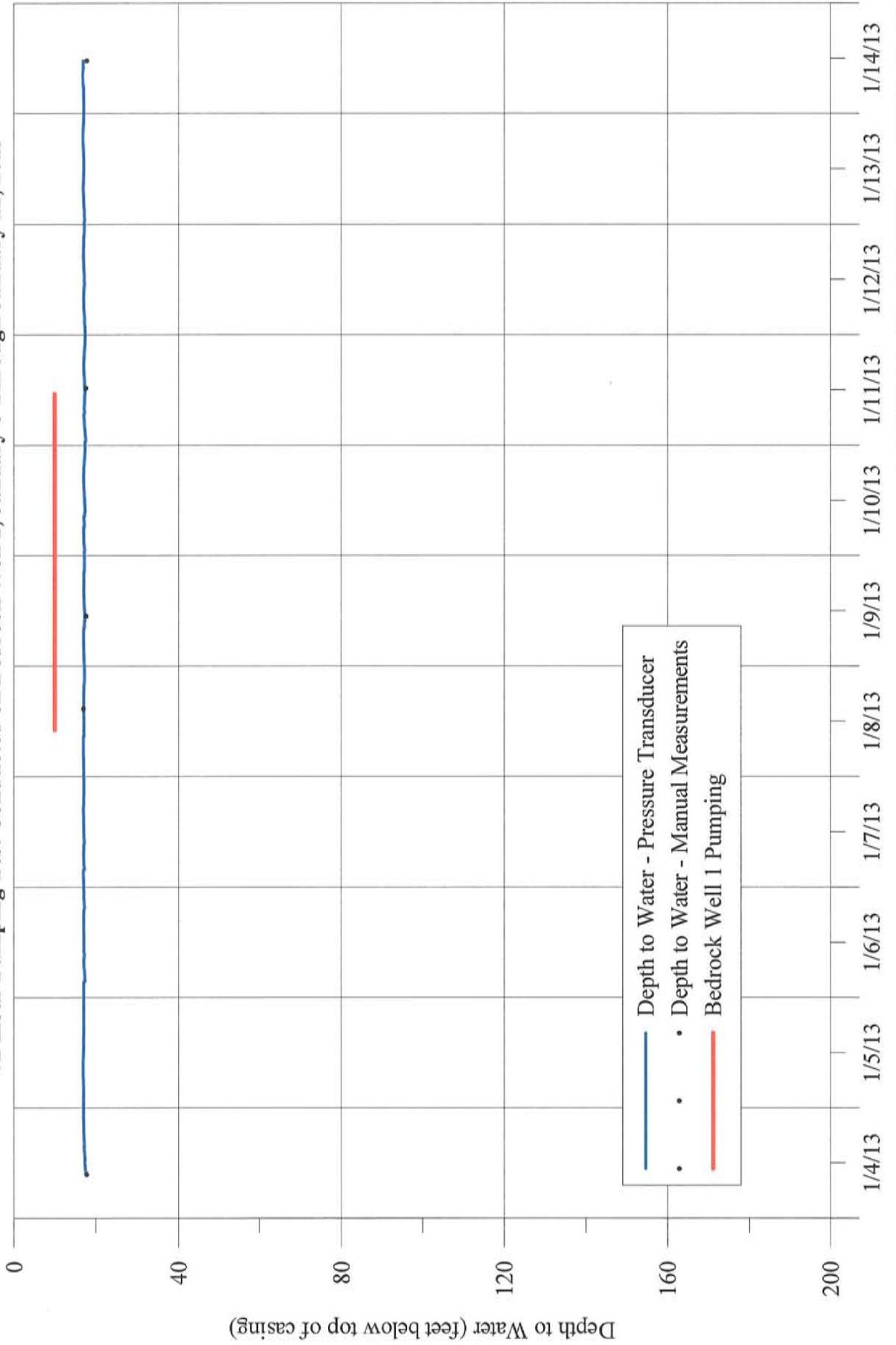
TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK

Hydrograph of Water-Level Measurements Collected from Well Located at 144 Bohl Road During 72-Hour Pumping Test Conducted on Bedrock Well 1, January 8 Through January 11, 2013



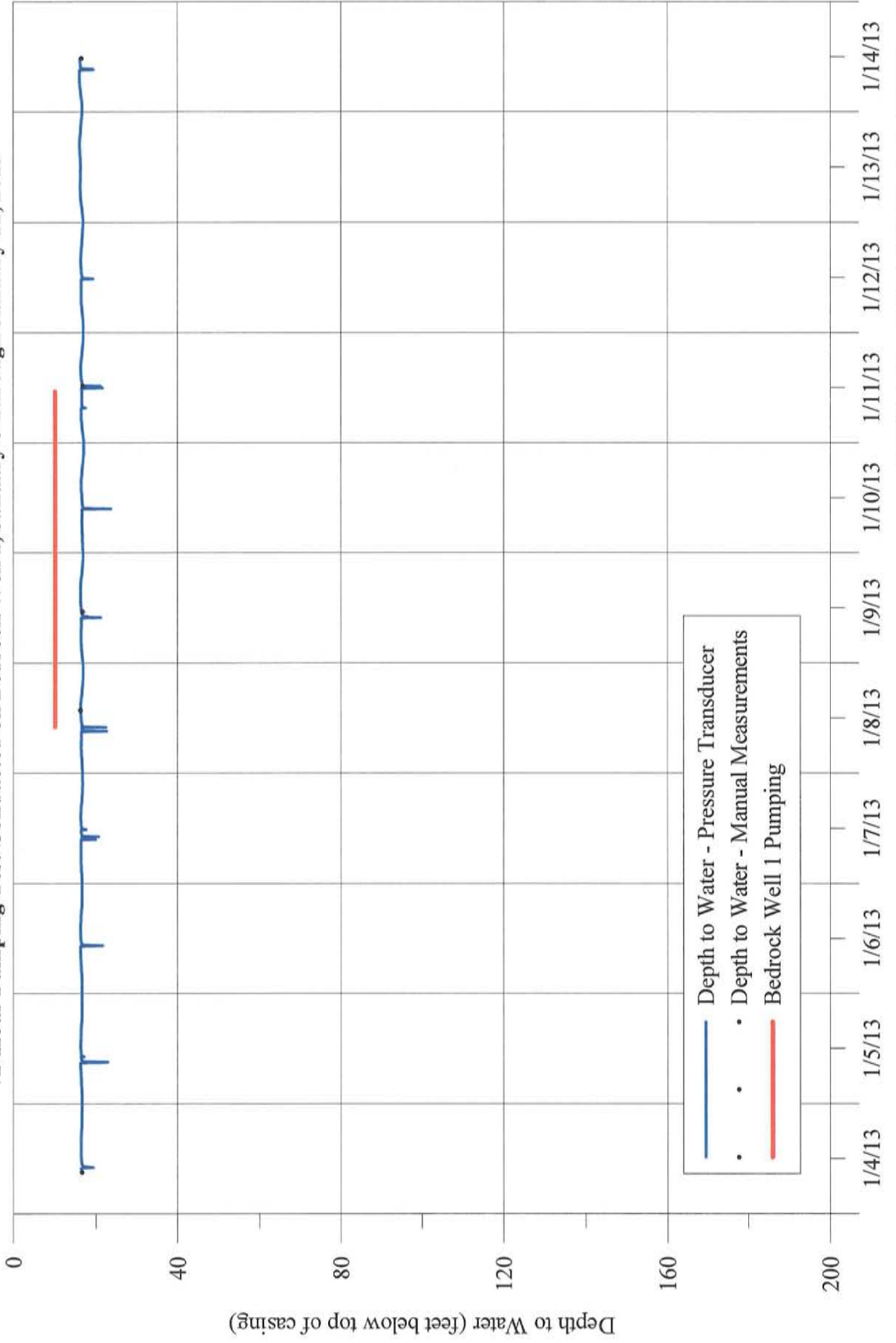
**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK**

**Hydrograph of Water-Level Measurements Collected from Well Located at Town Library During
72-Hour Pumping Test Conducted on Bedrock Well 1, January 8 Through January 11, 2013**



**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK**

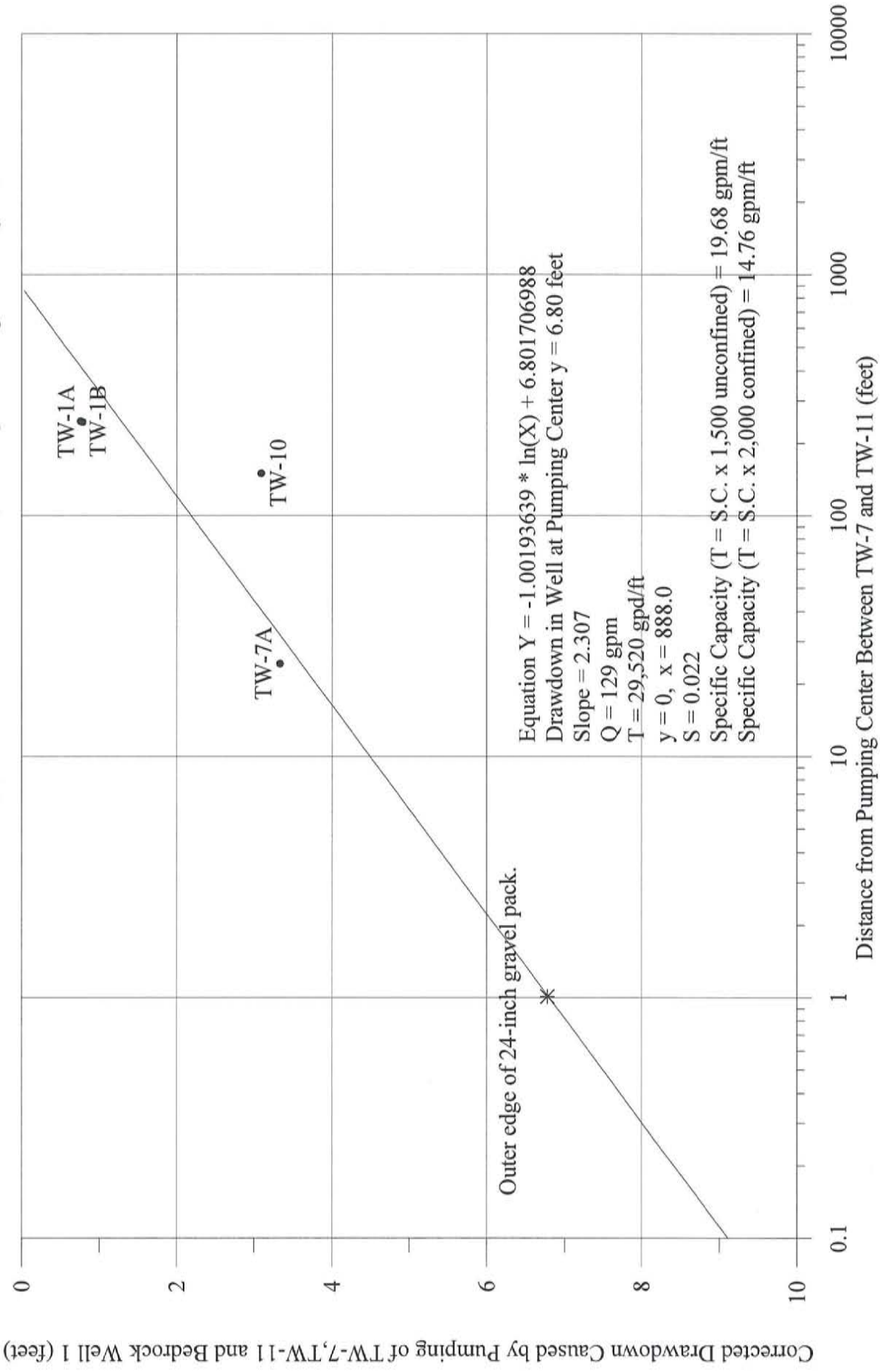
**Hydrograph of Water-Level Measurements Collected from Well Located at Wastewater Treatment Plant During
72-Hour Pumping Test Conducted on Bedrock Well 1, January 8 Through January 11, 2013**



APPENDIX V

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK**

**Graph of Distance Versus 180 Day Water-Level Drawdown Projection for Sand and Gravel Monitoring Well Locations
for Yield Test Conducted on TW-7, TW-11 and Bedrock Well 1, January 8 Through January 10, 2012**



APPENDIX VI



SIEVE ANALYSIS REPORT

Name East Fish Kill Test Number 20606 #7
 Date 11-26-13 Sample 20'-40'
 Weight 433

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
	HEAVIES		0		
1/4	6.35	.250	0		
6	3.32	.131	8		
12	1.70	.0661	11		
20	.85	.0331	15		
40	.425	.0165	50		
70	.212	.0083	138		
100	.150	.0059	80		
200	.075	.0029	36		
	PAN		95		
	TOTAL		433		



SIEVE ANALYSIS REPORT

Name East Fish Kill Test Number 20602 #7
 Date 11-26-12 Sample 48-S2
 Weight 454

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
		HEAVIES	40 83		
1/4	6.35	.250	44		
6	3.32	.131	83		
12	1.70	.0661	97		
20	.85	.0331	78		
40	.425	.0165	65		
70	.212	.0083	25		
100	.150	.0059	4		
200	.075	.0029	2		
	PAN		16		
	TOTAL		414		



SIEVE ANALYSIS REPORT

Name East Fishkill Test Number 20606 #7
 Date 11-26-12 Sample 52-57
 Weight 463

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
	HEAVIES		10		
1/4	6.35	.250	22		
6	3.32	.131	75		
12	1.70	.0661	105		
20	.85	.0331	102		
40	.425	.0165	90		
70	.212	.0083	36		
100	.150	.0059	5		
200	.075	.0029	4		
	PAN		14		
	TOTAL		453		



SIEVE ANALYSIS REPORT

Name East Fish Kill Test Number 20602 #7
 Date 11-26-12 Sample 40'-48'
 Weight 44

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
	HEAVIES		28		
1/4	6.35	.250	24		
6	3.32	.131	51		
12	1.70	.0661	68		
20	.85	.0331	71		
40	.425	.0165	85		
70	.212	.0083	57		
100	.150	.0059	8		
200	.075	.0029	8		
	PAN		11		
	TOTAL		383		



SIEVE ANALYSIS REPORT

Name East Fishkill Test Number 20606
 Date 11-26-12 Sample 57-63 #7
 Weight 467

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
	HEAVIES		27		
1/4	6.35	.250	37		
6	3.32	.131	90		
12	1.70	.0661	110		
20	.85	.0331	89		
40	.425	.0165	67		
70	.212	.0083	32		
100	.150	.0059	4		
200	.075	.0029	4		
	PAN		7		
	TOTAL		440		



SIEVE ANALYSIS REPORT

Name East Fishkill Test Number 63-67
 Date 11-26-12 Sample 20602 #7
 Weight 434

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
	HEAVIES		4		
1/4	6.35	.250	21		
6	3.32	.131	49		
12	1.70	.0661	89		
20	.85	.0331	101		
40	.425	.0165	93		
70	.212	.0083	50		
100	.150	.0059	10		
200	.075	.0029	9		
	PAN		7		
	TOTAL		429		



SIEVE ANALYSIS REPORT

Name East Fishkill Test Number 67-75
 Date 11-26-12 Sample 20602 #7
 Weight 405

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
	HEAVIES		0		
1/4	6.35	.250	0		
6	3.32	.131	4		
12	1.70	.0661	4		
20	.85	.0331	3		
40	.425	.0165	29		
70	.212	.0083	273		
100	.150	.0059	59		
200	.075	.0029	21		
	PAN		12		
	TOTAL		405		



SIEVE ANALYSIS REPORT

Name East Fishkill Test Number 20606
 Date 12-5-12 Sample 26-32 #11
 Weight 430

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
	HEAVIES		4		
1/4	6.35	.250	2		
6	3.32	.131	13		
12	1.70	.0661	22		
20	.85	.0331	47		
40	.425	.0165	86		
70	.212	.0083	168		
100	.150	.0059	57		
200	.075	.0029	2		
	PAN		31		
	TOTAL		428		



SIEVE ANALYSIS REPORT

Name East Fishkill N.Y. Test Number 20606
 Date 12-5-12 Sample 32-37 #11
 Weight 464

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
	HEAVIES		12		
1/4	6.35	.250	28		
6	3.32	.131	48		
12	1.70	.0661	65		
20	.85	.0331	74		
40	.425	.0165	96		
70	.212	.0083	86		
100	.150	.0059	29		
200	.075	.0029	5		
	PAN		21		
	TOTAL		452		



SIEVE ANALYSIS REPORT

Name East Fishkill Test Number 20606
 Date 12-5-12 Sample 37-42 #11
 Weight 446

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
		HEAVIES	8		
1/4	6.35	.250	25		
6	3.32	.131	65		
12	1.70	.0661	92		
20	.85	.0331	94		
40	.425	.0165	96		
70	.212	.0083	49		
100	.150	.0059	6		
200	.075	.0029	5		
	PAN		6		
	TOTAL		438		



SIEVE ANALYSIS REPORT

Name East Fish Kill Test Number 20606
 Date 12-5-12 Sample 42-47 #11
 Weight 509

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
	HEAVIES		12		
1/4	6.35	.250	21		
6	3.32	.131	78		
12	1.70	.0661	115		
20	.85	.0331	102		
40	.425	.0165	89		
70	.212	.0083	57		
100	.150	.0059	12		
200	.075	.0029	10		
	PAN		13		
	TOTAL		497		



SIEVE ANALYSIS REPORT

Name East Fishkill
 Date 12-5-12
 Weight 458

Test Number 20606
 Sample 47-52 #1

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
	HEAVIES		20		
1/4	6.35	.250	26		
6	3.32	.131	98		
12	1.70	.0661	111		
20	.85	.0331	75		
40	.425	.0165	73		
70	.212	.0083	39		
100	.150	.0059	5		
200	.075	.0029	5		
	PAN		6		
	TOTAL		438		



SIEVE ANALYSIS REPORT

Name East Fish Kill Test Number 20606
 Date 12-8-12 Sample 52-57 #11
 Weight 571

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	<u>M.M.</u>	<u>INCHES</u>			
	HEAVIES		16		
1/4	6.35	.250	15		
6	3.32	.131	38		
12	1.70	.0661	80		
20	.85	.0331	131		
40	.425	.0165	136		
70	.212	.0083	114		
100	.150	.0059	23		
200	.075	.0029	4		
	PAN		14		
	TOTAL		555		



SIEVE ANALYSIS REPORT

Name East Fishkill Test Number 20606
 Date 12-5-12 Sample S7-62 #11
 Weight 422

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
		HEAVIES	10		
1/4	6.35	.250	19		
6	3.32	.131	26		
12	1.70	.0661	22		
20	.85	.0331	22		
40	.425	.0165	32		
70	.212	.0083	127		
100	.150	.0059	84		
200	.075	.0029	34		
	PAN		46		
	TOTAL		412		



SIEVE ANALYSIS REPORT

Name East Fish Kill Test Number 20606
 Date 12-5-12 Sample 30-37 #10
 Weight 477

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
	HEAVIES		77		
1/4	6.35	.250	42		
6	3.32	.131	83		
12	1.70	.0661	93		
20	.85	.0331	81		
40	.425	.0165	62		
70	.212	.0083	28		
100	.150	.0059	4		
200	.075	.0029	4		
	PAN		3		
	TOTAL		400		



SIEVE ANALYSIS REPORT

Name East Fish Kill Test Number 20606
 Date 12-5-12 Sample 37-42 #10
 Weight 486

SIEVE NUMBER	OPENING IN:		GRAMS	PERCENT	PERCENT PASSING
	M.M.	INCHES			
	HEAVIES		57		
1/4	6.35	.250	32		
6	3.32	.131	69		
12	1.70	.0661	84		
20	.85	.0331	84		
40	.425	.0165	75		
70	.212	.0083	47		
100	.150	.0059	20		
200	.075	.0029	13		
	PAN		5		
	TOTAL		429		

APPENDIX VII

TW-7

NOVEMBER 21, 2012

ANALYTICAL REPORT

Job Number: 420-61231-1

Job Description: LBG, Inc.

For:
Leggette, Brashears & Graham, Inc.
4 Research Drive
Shelton, CT 06464

Attention: Stacy Stieber



Debra Bayer
Customer Service Manager
dbayer@envirotestlaboratories.com
12/10/2012

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NELAP Accredited, NYSDOH 10142, NJDEP NY015, CTDOH PH-0554, EPA NY00049.

METHOD SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-61231-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
ICP Metals by 200.7	EnvTest	EPA 200.7 Rev 4.4	
200 Series Drinking Water Prep Determination Step	EnvTest		EPA 200
Sample Filtration	EnvTest		FILTRATION
ICPMS Metals by 200.8	EnvTest	EPA 200.8	
200 Series Drinking Water Prep Determination Step	EnvTest		EPA 200
Sample Filtration	EnvTest		FILTRATION
Apparent Color	EnvTest	SM21 2120B	
Anions by Ion Chromatography	EnvTest	MCAWW 300.0	
Anions by Ion Chromatography	EnvTest	MCAWW 300.0	
Turbidity	EnvTest	SM20 SM 2130B	
Odor, Threshold Test	EnvTest	SM20 SM 2150B	
Hardness by Calculation	EnvTest	SM20 SM 2340B	

Lab References:

EnvTest = EnviroTest

Method References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

SM21 = "Standard Methods For The Examination Of Water And Wastewater", 21st Edition

METHOD / ANALYST SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-61231-1

Method	Analyst	Analyst ID
EPA 200.7 Rev 4.4	El Sayed, Tamer A	TAE
EPA 200.8	El Sayed, Tamer A	TAE
SM20 SM 2340B	El Sayed, Tamer A	TAE
SM21 2120B	Cusack, Renee	RC
MCAWW 300.0	Sutcliffe, Bethany L	BLS
SM20 SM 2130B	Cusack, Renee	RC
SM20 SM 2150B	Harmon, Kelly	KH

SAMPLE SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-61231-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-61231-1	PW 7	Water	11/21/2012 1200	11/21/2012 1235

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-61231-1

Client Sample ID: PW 7Lab Sample ID: 420-61231-1
Client Matrix: WaterDate Sampled: 11/21/2012 1200
Date Received: 11/21/2012 1235**200.7 Rev 4.4 ICP Metals by 200.7**

Method:	200.7 Rev 4.4	Analysis Batch: 420-61480	Instrument ID:	None
Preparation:	200	Prep Batch: 420-61436	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	11/26/2012 1852		Final Weight/Volume:	50 mL
Date Prepared:	11/26/2012 1213			

Analyte	Result (ug/L)	Qualifier	RL
Iron	4680		60.0
Calcium	73800		5000
Magnesium	20900		5000
Sodium	16300		200

200.7 Rev 4.4 ICP Metals by 200.7-Dissolved

Method:	200.7 Rev 4.4	Analysis Batch: 420-61762	Instrument ID:	None
Preparation:	N/A		Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	
Date Analyzed:	12/05/2012 1742		Final Weight/Volume:	mL
Date Prepared:	N/A			

Analyte	Result (ug/L)	Qualifier	RL
Iron	4690		60.0

200.8 ICPMS Metals by 200.8

Method:	200.8	Analysis Batch: 420-61465	Instrument ID:	Perkin Elmer ELAN
Preparation:	200	Prep Batch: 420-61436	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	11/26/2012 1621		Final Weight/Volume:	50 mL
Date Prepared:	11/26/2012 1213			

Analyte	Result (ug/L)	Qualifier	RL
Manganese	1280		1.00

200.8 ICPMS Metals by 200.8-Dissolved

Method:	200.8	Analysis Batch: 420-61771	Instrument ID:	Perkin Elmer ELAN
Preparation:	N/A		Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	
Date Analyzed:	12/06/2012 1317		Final Weight/Volume:	mL
Date Prepared:	N/A			

Analyte	Result (ug/L)	Qualifier	RL
Manganese	1250		1.00

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-61231-1

Client Sample ID: PW 7

Lab Sample ID: 420-61231-1

Date Sampled: 11/21/2012 1200

Client Matrix: Water

Date Received: 11/21/2012 1235

SM 2340B Hardness by Calculation

Method: SM 2340B

Analysis Batch: 420-61483

Instrument ID: None

Preparation: N/A

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume:

Date Analyzed: 11/26/2012 1725

Final Weight/Volume:

Date Prepared: N/A

Analyte	Result (mg/L)	Qualifier	RL
Total Hardness (as CaCO3)	270		3.30

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-61231-1

General Chemistry**Client Sample ID: PW 7**Lab Sample ID: 420-61231-1
Client Matrix: WaterDate Sampled: 11/21/2012 1200
Date Received: 11/21/2012 1235

Analyte	Result	Qual	Units	RL	Dil	Method
Chloride	88.3		mg/L	30.0	20	300.0
	Anly Batch: 420-61538	Date Analyzed	11/28/2012 1833			
Nitrate as N	0.370		mg/L	0.250	1.0	300.0
	Anly Batch: 420-61421	Date Analyzed	11/21/2012 2152			
Apparent Color	150		Color Units	2.50	1.0	2120B
	Anly Batch: 420-61410	Date Analyzed	11/21/2012 1543			
Turbidity	9.09		NTU	0.100	1.0	SM 2130B
	Anly Batch: 420-61409	Date Analyzed	11/21/2012 1341			
Odor	2.00		T.O.N.	1.00	1.0	SM 2150B
	Anly Batch: 420-61485	Date Analyzed	11/21/2012 1341			
Temp @ Odor Measurement	60.0		Degrees C	5.00	1.0	SM 2150B
	Anly Batch: 420-61485	Date Analyzed	11/21/2012 1341			

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Definitions and Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-61231-1

Login Number: 61231

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	9.8 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	False	
If false, was sample received on ice within 6 hours of collection.	True	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

BEDROCK WELL 1, TW-7 AND TW-11

JANUARY 9, 2013

ANALYTICAL REPORT

Job Number: 420-62580-1
SDG Number: East Fishkill, NY
Job Description: LBG, Inc.

For:
Leggette, Brashears & Graham, Inc.
4 Research Drive
Shelton, CT 06464

Attention: Stacy Stieber



Debra Bayer
Customer Service Manager
dbayer@envirotestlaboratories.com
01/11/2013

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NELAP Accredited, NYSDOH 10142, NJDEP NY015, CTDOH PH-0554, EPA NY00049.

METHOD SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62580-1
Sdg Number: East Fishkill, NY

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Purgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2	

Lab References:

EnvTest = EnviroTest

Method References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

METHOD / ANALYST SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62580-1
Sdg Number: East Fishkill, NY

Method	Analyst	Analyst ID
EPA-DW 524.2	Andersen, Eric C	ECA

SAMPLE SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62580-1
Sdg Number: East Fishkill, NY

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-62580-1	BDRX Well 1	Drinking Water	01/09/2013 1005	01/09/2013 1325
420-62580-2	TW- 7	Drinking Water	01/09/2013 1120	01/09/2013 1325
420-62580-3	TW- 11	Drinking Water	01/09/2013 1230	01/09/2013 1325

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62580-1
Sdg Number: East Fishkill, NY

Client Sample ID: BDRX Well 1

Lab Sample ID: 420-62580-1
Client Matrix: Drinking Water

Date Sampled: 01/09/2013 1005

Date Received: 01/09/2013 1325

524.2 Purgeable Organic Compounds in Water by GC/MS

Method:	524.2	Analysis Batch:	420-62543	Instrument ID:	Agilent 7890A/5975C
Preparation:	N/A			Lab File ID:	X010918.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	01/09/2013 1903			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	<0.500		0.500
1,1,1-Trichloroethane	<0.500		0.500
1,1,2,2-Tetrachloroethane	<0.500		0.500
1,1,2-Trichloroethane	<0.500		0.500
1,1-Dichloroethane	<0.500		0.500
1,1-Dichloroethene	<0.500		0.500
1,1-Dichloropropene	<0.500		0.500
1,2,3-Trichlorobenzene	<0.500		0.500
1,2,3-Trichloropropane	<0.500		0.500
1,2,4-Trichlorobenzene	<0.500		0.500
1,2,4-Trimethylbenzene	<0.500		0.500
1,2-Dichloroethane	<0.500		0.500
1,2-Dichlorobenzene	<0.500		0.500
1,2-Dichloropropane	<0.500		0.500
1,3-Dichloropropane	<0.500		0.500
1,4-Dichlorobenzene	<0.500		0.500
2,2-Dichloropropane	<0.500		0.500
Benzene	<0.500		0.500
Bromobenzene	<0.500		0.500
Bromochloromethane	<0.500		0.500
Bromomethane	<0.500		0.500
n-Butylbenzene	<0.500		0.500
cis-1,2-Dichloroethene	<0.500		0.500
cis-1,3-Dichloropropene	<0.500		0.500
Carbon tetrachloride	<0.500		0.500
Chlorobenzene	<0.500		0.500
Chloroethane	<0.500		0.500
Chloromethane	<0.500		0.500
Dibromomethane	<0.500		0.500
Ethylbenzene	<0.500		0.500
Dichlorodifluoromethane	<0.500		0.500
Hexachlorobutadiene	<0.500		0.500
Isopropylbenzene	<0.500		0.500
p-Isopropyltoluene	<0.500		0.500
Methylene Chloride	0.629		0.500
m-Xylene & p-Xylene	<0.500		0.500
Methyl tert-butyl ether	<0.500		0.500
o-Xylene	<0.500		0.500
Tetrachloroethene	<0.500		0.500
Toluene	<0.500		0.500
trans-1,2-Dichloroethene	<0.500		0.500
trans-1,3-Dichloropropene	<0.500		0.500
Trichloroethene	<0.500		0.500
tert-Butylbenzene	<0.500		0.500

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62580-1
Sdg Number: East Fishkill, NY

Client Sample ID: BDRX Well 1

Lab Sample ID: 420-62580-1
Client Matrix: Drinking Water

Date Sampled: 01/09/2013 1005
Date Received: 01/09/2013 1325

524.2 Purgeable Organic Compounds in Water by GC/MS

Method:	524.2	Analysis Batch: 420-62543	Instrument ID:	Agilent 7890A/5975C
Preparation:	N/A		Lab File ID:	X010918.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	01/09/2013 1903		Final Weight/Volume:	5 mL
Date Prepared:	N/A			

Analyte	Result (ug/L)	Qualifier	RL
Trichlorofluoromethane	<0.500		0.500
Vinyl chloride	<0.500		0.500
Xylenes, Total	<0.500		0.500
Styrene	<0.500		0.500
sec-Butylbenzene	<0.500		0.500
1,3,5-Trimethylbenzene	<0.500		0.500
N-Propylbenzene	<0.500		0.500
1,3-Dichlorobenzene	<0.500		0.500
2-Chlorotoluene	<0.500		0.500
4-Chlorotoluene	<0.500		0.500

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	71 - 112
Toluene-d8 (Surr)	112	79 - 121
1,2-Dichloroethane-d4 (Surr)	111	70 - 128

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62580-1
Sdg Number: East Fishkill, NY

Client Sample ID: TW- 7

Lab Sample ID: 420-62580-2
Client Matrix: Drinking WaterDate Sampled: 01/09/2013 1120
Date Received: 01/09/2013 1325**524.2 Purgeable Organic Compounds in Water by GC/MS**

Method:	524.2	Analysis Batch: 420-62543	Instrument ID: Agilent 7890A/5975C
Preparation:	N/A		Lab File ID: X010919.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	01/09/2013 1931		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	<0.500		0.500
1,1,1-Trichloroethane	<0.500		0.500
1,1,2,2-Tetrachloroethane	<0.500		0.500
1,1,2-Trichloroethane	<0.500		0.500
1,1-Dichloroethane	<0.500		0.500
1,1-Dichloroethene	<0.500		0.500
1,1-Dichloropropene	<0.500		0.500
1,2,3-Trichlorobenzene	<0.500		0.500
1,2,3-Trichloropropane	<0.500		0.500
1,2,4-Trichlorobenzene	<0.500		0.500
1,2,4-Trimethylbenzene	<0.500		0.500
1,2-Dichloroethane	<0.500		0.500
1,2-Dichlorobenzene	<0.500		0.500
1,2-Dichloropropane	<0.500		0.500
1,3-Dichloropropane	<0.500		0.500
1,4-Dichlorobenzene	<0.500		0.500
2,2-Dichloropropane	<0.500		0.500
Benzene	<0.500		0.500
Bromobenzene	<0.500		0.500
Bromochloromethane	<0.500		0.500
Bromomethane	<0.500		0.500
n-Butylbenzene	<0.500		0.500
cis-1,2-Dichloroethene	<0.500		0.500
cis-1,3-Dichloropropene	<0.500		0.500
Carbon tetrachloride	<0.500		0.500
Chlorobenzene	<0.500		0.500
Chloroethane	<0.500		0.500
Chloromethane	<0.500		0.500
Dibromomethane	<0.500		0.500
Ethylbenzene	<0.500		0.500
Dichlorodifluoromethane	<0.500		0.500
Hexachlorobutadiene	<0.500		0.500
Isopropylbenzene	<0.500		0.500
p-Isopropyltoluene	<0.500		0.500
Methylene Chloride	<0.500		0.500
m-Xylene & p-Xylene	<0.500		0.500
Methyl tert-butyl ether	<0.500		0.500
o-Xylene	<0.500		0.500
Tetrachloroethene	<0.500		0.500
Toluene	<0.500		0.500
trans-1,2-Dichloroethene	<0.500		0.500
trans-1,3-Dichloropropene	<0.500		0.500
Trichloroethene	<0.500		0.500
tert-Butylbenzene	<0.500		0.500

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62580-1
Sdg Number: East Fishkill, NY

Client Sample ID: TW- 7

Lab Sample ID: 420-62580-2
Client Matrix: Drinking WaterDate Sampled: 01/09/2013 1120
Date Received: 01/09/2013 1325**524.2 Purgeable Organic Compounds in Water by GC/MS**

Method:	524.2	Analysis Batch:	420-62543	Instrument ID:	Agilent 7890A/5975C
Preparation:	N/A			Lab File ID:	X010919.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	01/09/2013 1931			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

Analyte	Result (ug/L)	Qualifier	RL
Trichlorofluoromethane	<0.500		0.500
Vinyl chloride	<0.500		0.500
Xylenes, Total	<0.500		0.500
Styrene	<0.500		0.500
sec-Butylbenzene	<0.500		0.500
1,3,5-Trimethylbenzene	<0.500		0.500
N-Propylbenzene	<0.500		0.500
1,3-Dichlorobenzene	<0.500		0.500
2-Chlorotoluene	<0.500		0.500
4-Chlorotoluene	<0.500		0.500

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	71 - 112
Toluene-d8 (Surr)	110	79 - 121
1,2-Dichloroethane-d4 (Surr)	117	70 - 128

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62580-1
Sdg Number: East Fishkill, NY

Client Sample ID: TW- 11

Lab Sample ID: 420-62580-3
Client Matrix: Drinking Water

Date Sampled: 01/09/2013 1230
Date Received: 01/09/2013 1325

524.2 Purgeable Organic Compounds in Water by GC/MS

Method:	524.2	Analysis Batch: 420-62543	Instrument ID: Agilent 7890A/5975C
Preparation:	N/A		Lab File ID: X010920.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	01/09/2013 1959		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	<0.500		0.500
1,1,1-Trichloroethane	<0.500		0.500
1,1,1,2-Tetrachloroethane	<0.500		0.500
1,1,2-Trichloroethane	<0.500		0.500
1,1-Dichloroethane	<0.500		0.500
1,1-Dichloroethene	<0.500		0.500
1,1-Dichloropropene	<0.500		0.500
1,2,3-Trichlorobenzene	<0.500		0.500
1,2,3-Trichloropropane	<0.500		0.500
1,2,4-Trichlorobenzene	<0.500		0.500
1,2,4-Trimethylbenzene	<0.500		0.500
1,2-Dichloroethane	<0.500		0.500
1,2-Dichlorobenzene	<0.500		0.500
1,2-Dichloropropane	<0.500		0.500
1,3-Dichloropropane	<0.500		0.500
1,4-Dichlorobenzene	<0.500		0.500
2,2-Dichloropropane	<0.500		0.500
Benzene	<0.500		0.500
Bromobenzene	<0.500		0.500
Bromochloromethane	<0.500		0.500
Bromomethane	<0.500		0.500
n-Butylbenzene	<0.500		0.500
cis-1,2-Dichloroethene	<0.500		0.500
cis-1,3-Dichloropropene	<0.500		0.500
Carbon tetrachloride	<0.500		0.500
Chlorobenzene	<0.500		0.500
Chloroethane	<0.500		0.500
Chloromethane	<0.500		0.500
Dibromomethane	<0.500		0.500
Ethylbenzene	<0.500		0.500
Dichlorodifluoromethane	<0.500		0.500
Hexachlorobutadiene	<0.500		0.500
Isopropylbenzene	<0.500		0.500
p-Isopropyltoluene	<0.500		0.500
Methylene Chloride	<0.500		0.500
m-Xylene & p-Xylene	<0.500		0.500
Methyl tert-butyl ether	<0.500		0.500
o-Xylene	<0.500		0.500
Tetrachloroethene	<0.500		0.500
Toluene	<0.500		0.500
trans-1,2-Dichloroethene	<0.500		0.500
trans-1,3-Dichloropropene	<0.500		0.500
Trichloroethene	<0.500		0.500
tert-Butylbenzene	<0.500		0.500

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62580-1
Sdg Number: East Fishkill, NY

Client Sample ID: TW- 11

Lab Sample ID: 420-62580-3

Date Sampled: 01/09/2013 1230

Client Matrix: Drinking Water

Date Received: 01/09/2013 1325

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2

Analysis Batch: 420-62543

Instrument ID: Agilent 7890A/5975C

Preparation: N/A

Lab File ID: X010920.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 01/09/2013 1959

Final Weight/Volume: 5 mL

Date Prepared: N/A

Analyte	Result (ug/L)	Qualifier	RL
Trichlorofluoromethane	<0.500		0.500
Vinyl chloride	<0.500		0.500
Xylenes, Total	<0.500		0.500
Styrene	<0.500		0.500
sec-Butylbenzene	<0.500		0.500
1,3,5-Trimethylbenzene	<0.500		0.500
N-Propylbenzene	<0.500		0.500
1,3-Dichlorobenzene	<0.500		0.500
2-Chlorotoluene	<0.500		0.500
4-Chlorotoluene	<0.500		0.500

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	71 - 112
Toluene-d8 (Surr)	110	79 - 121
1,2-Dichloroethane-d4 (Surr)	116	70 - 128

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Definitions and Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62580-1
Sdg Number: East Fishkill, NY

Login Number: 62580

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	9.9 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

BEDROCK WELL 1

JANUARY 10, 2013

PART V ANALYSIS

ANALYTICAL REPORT

Job Number: 420-62631-1
SDG Number: Town of East Fishkill
Job Description: LBG, Inc.

For:
Leggette, Brashears & Graham, Inc.
4 Research Drive
Shelton, CT 06464

Attention: Stacy Stieber



Debra Bayer
Customer Service Manager
dbayer@envirotestlaboratories.com
02/04/2013

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NELAP Accredited, NYSDOH 10142, NJDEP NY015, CTDOH PH-0554, EPA NY00049.

Job Narrative
420-J62631-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method 524.2: The laboratory control standard (LCS) for batch # 62736 exceeded control limits for the analytes indicated by an asterisk (*) on the results form. These compounds were low, but not detected in the corresponding samples so the data is determined to be valid. Also all other QC was within reportable limits for these compounds.

No other analytical or quality issues were noted.

Metals

Method 200.8: The initial calibration verification (ICV) for analytical batch 62666 recovered above the upper control limit for Tl. The data have been qualified and reported. This compound was flagged with a carrot (^) on the sample result sheet. The samples associated with this ICV were non-detects for the affected analytes; therefore, the data have been reported with high confidence of no false negatives.

No other analytical or quality issues were noted.

General Chemistry

Method SM 4500 H+ B: The holding time for pH is 15 minutes, the samples were received outside of the holding time.

No other analytical or quality issues were noted.

Biology

No analytical or quality issues were noted.

METHOD SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill

Description	Lab Location	Method	Preparation Method
Matrix: Water			
ICP Metals by 200.7	EnvTest	EPA 200.7 Rev 4.4	
200 Series Drinking Water Prep Determination Step	EnvTest		EPA 200
ICPMS Metals by 200.8	EnvTest	EPA 200.8	
200 Series Drinking Water Prep Determination Step	EnvTest		EPA 200
Apparent Color	EnvTest	SM21 2120B	
Mercury in Water by CVAA	EnvTest	EPA 245.1	
Digestion for CVAA Mercury in Waters	EnvTest		EPA 245.1
Anions by Ion Chromatography	EnvTest	MCAWW 300.0	
Anions by Ion Chromatography	EnvTest	MCAWW 300.0	
EPA 504.1 EDB		EPA 504.1	
EPA 505 Pesticide/PCB		EPA 505	
EPA 515 Chlorinated Acids		EPA 515	
Purgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2	
EPA 525.2 Semivolatile Organics		EPA 525.2	
EPA 531.1 Carbamate Pesticides in Drinki		EPA 531.1	
EPA 900 Series GA/GB/RA226/RA228/Gamma	S.E.T.	EPA 900	
Uranium	S.E.T.	STL-STL EPA	
Heterotropic Plate Count	EnvTest	IDEXX SIMPLATE	
Turbidity	EnvTest	SM20 SM 2130B	
Odor, Threshold Test	EnvTest	SM20 SM 2150B	
Alkalinity, Titration Method	EnvTest	SM18 SM 2320B	
Corrosivity LSI Calculation	EnvTest	SM20 SM 2330B	
Hardness by Calculation	EnvTest	SM20 SM 2340B	
Total Dissolved Solids (Dried at 180 °C)	EnvTest	SM18 SM 2540C	
Cyanide, Total: Colorimetric Method	EnvTest	SM18 SM 4500 CN E	
Cyanide: Distillation	EnvTest		SM18 SM 4500 CN C
pH	EnvTest	SM19 SM 4500 H+ B	
Nitrite by Colormetric	EnvTest	SM20 SM 4500B	
Total Coliform and Escherichia coli by Colilert - Presence/Absence	EnvTest	SMWW SM 9223	
General Sub Contract Method		Subcontract	
General Sub Contract Method	Env.Assoc.	Subcontract	

METHOD SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill

Description	Lab Location	Method	Preparation Method
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Lab References:

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Env.Assoc. = Environmental Associates

EnvTest = EnviroTest

S.E.T. = Summit Environmental Technologies, Inc.

Method References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

IDEXX =

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SM19 = "Standard Methods For The Examination Of Water And Wastewater", 19Th Edition, 1995."

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

SM21 = "Standard Methods For The Examination Of Water And Wastewater", 21st Edition

SMWW = "Standard Methods for the Examination of Water and Wastewater"

STL-STL = Severn Trent Laboratories, St. Louis, Facility Standard Operating Procedure.

METHOD / ANALYST SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill

Method	Analyst	Analyst ID
EPA-DW 524.2	Andersen, Eric C	ECA
EPA 200.7 Rev 4.4	El Sayed, Tamer A	TAE
EPA 200.8	Palentino, Gus J	GJP
EPA 245.1	McPhillips, Julie	JM
SM20 SM 2340B	El Sayed, Tamer A	TAE
SM21 2120B	Harmon, Kelly	KH
MCAWW 300.0	Sutcliffe, Bethany L	BLS
IDEXX SIMPLATE	Harmon, Kelly	KH
SM20 SM 2130B	Harmon, Kelly	KH
SM20 SM 2150B	Harmon, Kelly	KH
SM18 SM 2320B	Sutcliffe, Bethany L	BLS
SM20 SM 2330B	Pistole, Maria	MP
SM18 SM 2540C	Harmon, Kelly	KH
SM18 SM 4500 CN E	Sutcliffe, Bethany L	BLS
SM19 SM 4500 H+ B	Harmon, Kelly	KH
SM20 SM 4500B	Sutcliffe, Bethany L	BLS
SMWW SM 9223	Harmon, Kelly	KH

SAMPLE SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-62631-1	BDRX Well 1	Drinking Water	01/10/2013 1100	01/10/2013 1210

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill

Client Sample ID: BDRX Well 1

Lab Sample ID: 420-62631-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1100
Date Received: 01/10/2013 1210

524.2 Purgeable Organic Compounds in Water by GC/MS

Method:	524.2	Analysis Batch: 420-62736	Instrument ID: Agilent 7890A/5975C
Preparation:	N/A		Lab File ID: X011606.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	01/16/2013 1300		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	<0.500		0.500
1,1,1-Trichloroethane	<0.500		0.500
1,1,2,2-Tetrachloroethane	<0.500		0.500
1,1,2-Trichloroethane	<0.500		0.500
1,1-Dichloroethane	<0.500		0.500
1,1-Dichloroethene	<0.500		0.500
1,1-Dichloropropene	<0.500		0.500
1,2,3-Trichlorobenzene	<0.500		0.500
1,2,3-Trichloropropane	<0.500		0.500
1,2,4-Trichlorobenzene	<0.500		0.500
1,2,4-Trimethylbenzene	<0.500		0.500
1,2-Dichloroethane	<0.500		0.500
1,2-Dichlorobenzene	<0.500		0.500
1,2-Dichloropropane	<0.500		0.500
1,3-Dichloropropane	<0.500		0.500
1,4-Dichlorobenzene	<0.500		0.500
2,2-Dichloropropane	<0.500		0.500
Benzene	<0.500		0.500
Bromobenzene	<0.500		0.500
Bromochloromethane	<0.500		0.500
Bromomethane	<0.500		0.500
n-Butylbenzene	<0.500		0.500
cis-1,2-Dichloroethene	<0.500		0.500
cis-1,3-Dichloropropene	<0.500		0.500
Carbon tetrachloride	<0.500		0.500
Chlorobenzene	<0.500		0.500
Chloroethane	<0.500		0.500
Chloromethane	<0.500		0.500
Dibromomethane	<0.500		0.500
Ethylbenzene	<0.500		0.500
Dichlorodifluoromethane	<0.500	*	0.500
Hexachlorobutadiene	<0.500		0.500
Isopropylbenzene	<0.500		0.500
p-Isopropyltoluene	<0.500		0.500
Methylene Chloride	<0.500		0.500
m-Xylene & p-Xylene	<0.500		0.500
Methyl tert-butyl ether	<0.500		0.500
o-Xylene	<0.500		0.500
Tetrachloroethene	<0.500		0.500
Toluene	<0.500		0.500
trans-1,2-Dichloroethene	<0.500		0.500
trans-1,3-Dichloropropene	<0.500		0.500
Trichloroethene	<0.500		0.500
tert-Butylbenzene	<0.500		0.500

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill

Client Sample ID: BDRX Well 1

Lab Sample ID: 420-62631-1

Date Sampled: 01/10/2013 1100

Client Matrix: Drinking Water

Date Received: 01/10/2013 1210

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2

Analysis Batch: 420-62736

Instrument ID: Agilent 7890A/5975C

Preparation: N/A

Lab File ID: X011606.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 01/16/2013 1300

Final Weight/Volume: 5 mL

Date Prepared: N/A

Analyte	Result (ug/L)	Qualifier	RL
Trichlorofluoromethane	<0.500		0.500
Vinyl chloride	<0.500		0.500
Xylenes, Total	<0.500		0.500
Styrene	<0.500		0.500
sec-Butylbenzene	<0.500		0.500
1,3,5-Trimethylbenzene	<0.500		0.500
N-Propylbenzene	<0.500		0.500
1,3-Dichlorobenzene	<0.500		0.500
2-Chlorotoluene	<0.500		0.500
4-Chlorotoluene	<0.500		0.500
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	104		71 - 112
Toluene-d8 (Surr)	115		79 - 121
1,2-Dichloroethane-d4 (Surr)	120		70 - 128

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill**Client Sample ID: BDRX Well 1**Lab Sample ID: 420-62631-1
Client Matrix: Drinking WaterDate Sampled: 01/10/2013 1100
Date Received: 01/10/2013 1210**200.7 Rev 4.4 ICP Metals by 200.7**

Method:	200.7 Rev 4.4	Analysis Batch: 420-62709	Instrument ID:	None
Preparation:	200	Prep Batch: 420-62637	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	mL
Date Analyzed:	01/15/2013 1709		Final Weight/Volume:	50 mL
Date Prepared:	01/14/2013 1051			

Analyte	Result (ug/L)	Qualifier	RL
Iron	523	g	60.0
Manganese	285		10.0
Sodium	45000		200
Zinc	<20.0		20.0

200.8 ICPMS Metals by 200.8

Method:	200.8	Analysis Batch: 420-62666	Instrument ID:	Perkin Elmer ELAN
Preparation:	200	Prep Batch: 420-62637	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	mL
Date Analyzed:	01/14/2013 1507		Final Weight/Volume:	50 mL
Date Prepared:	01/14/2013 1051			

Analyte	Result (ug/L)	Qualifier	RL
Pb	2.33		1.00
Arsenic	1.52		1.40
Beryllium	<0.300		0.300
Cadmium	<1.00		1.00
Chromium	<7.00		7.00
Nickel	1.61		0.500
Antimony	<0.400		0.400
Thallium	<0.300	*	0.300
Barium	73.4		2.00
Selenium	<2.00		2.00

245.1 Mercury in Water by CVAA

Method:	245.1	Analysis Batch: 420-62768	Instrument ID:	Perkin Elmer FIMS
Preparation:	245.1	Prep Batch: 420-62740	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	25 mL
Date Analyzed:	01/17/2013 1441		Final Weight/Volume:	25 mL
Date Prepared:	01/17/2013 0955			

Analyte	Result (ug/L)	Qualifier	RL
Hg	<0.200		0.200

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill

Client Sample ID: **BDRX Well 1**

Lab Sample ID: 420-62631-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1100
Date Received: 01/10/2013 1210

SM 2340B Hardness by Calculation

Method:	SM 2340B	Analysis Batch: 420-62714	Instrument ID:	None
Preparation:	N/A		Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	
Date Analyzed:	01/15/2013 1709		Final Weight/Volume:	
Date Prepared:	N/A			

Analyte	Result (mg/L)	Qualifier	RL
Calcium hardness as calcium carbonate	206		1.25

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill

Biology

Client Sample ID: BDRX Well 1

Lab Sample ID: 420-62631-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1100
Date Received: 01/10/2013 1210

Analyte	Result	Qual	Units	Dil	Method
Coliform, Total	Absent		CFU/100mL	1.0	SM 9223
	Anly Batch: 420-62581	Date Analyzed	01/10/2013 1647		
Escherichia coli	Absent		CFU/100mL	1.0	SM 9223
	Anly Batch: 420-62581	Date Analyzed	01/10/2013 1647		

Analyte	Result	Qual	Units	RL	Dil	Method
Heterotrophic Plate Count	6.00		CFU/mL	2.00	1.0	SIMPLATE
	Anly Batch: 420-62593	Date Analyzed	01/10/2013 1615			

General Chemistry

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill

General Chemistry

Client Sample ID: BDRX Well 1

Lab Sample ID: 420-62631-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1100
Date Received: 01/10/2013 1210

Analyte	Result	Qual	Units	Dil	Method
Apparent Color	20.0		Color Units	1.0	2120B
	Anly Batch: 420-62606	Date Analyzed	01/11/2013 1044		
Langelier Index	-0.100		NONE	1.0	SM 2330B
	Anly Batch: 420-62807	Date Analyzed	01/18/2013 1637		

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill

General Chemistry

Client Sample ID: BDRX Well 1

Lab Sample ID: 420-62631-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1100
Date Received: 01/10/2013 1210

Analyte	Result	Qual	Units	RL	Dil	Method
Alkalinity	247		mg/L	5.00	1.0	SM 2320B
	Anly Batch: 420-62799	Date Analyzed	01/18/2013 1224			
Total Dissolved Solids	404		mg/L	5.00	1.0	SM 2540C
	Anly Batch: 420-62645	Date Analyzed	01/14/2013 1530			
Fluoride	<0.500		mg/L	0.500	1.0	300.0
	Anly Batch: 420-62584	Date Analyzed	01/10/2013 1843			
Sulfate	46.4		mg/L	10.0	2.0	300.0
	Anly Batch: 420-62648	Date Analyzed	01/11/2013 1745			
Chloride	79.3		mg/L	30.0	20	300.0
	Anly Batch: 420-62648	Date Analyzed	01/11/2013 1759			
Nitrate as N	<0.250		mg/L	0.250	1.0	300.0
	Anly Batch: 420-62584	Date Analyzed	01/10/2013 1843			
Cyanide, Total	<0.00500		mg/L	0.00500	1.0	SM 4500 CN E
	Anly Batch: 420-62744	Date Analyzed	01/16/2013 1415			
	Prep Batch: 420-62635	Date Prepared:	01/11/2013 1000			
Turbidity	4.94		NTU	0.100	1.0	SM 2130B
	Anly Batch: 420-62605	Date Analyzed	01/11/2013 1144			
Odor	1.00		T.O.N.	1.00	1.0	SM 2150B
	Anly Batch: 420-62628	Date Analyzed	01/11/2013 1542			
Temp @ Odor Measurement	60.0		Degrees C	5.00	1.0	SM 2150B
	Anly Batch: 420-62628	Date Analyzed	01/11/2013 1542			
pH	7.45	H	SU	0.200	1.0	SM 4500 H+ B
	Anly Batch: 420-62597	Date Analyzed	01/10/2013 1632			
Temp @ pH Measurement	19.3		Degrees C	5.00	1.0	SM 4500 H+ B
	Anly Batch: 420-62597	Date Analyzed	01/10/2013 1632			
Nitrite as N	<0.0100		mg/L	0.0100	1.0	SM 4500B
	Anly Batch: 420-62633	Date Analyzed	01/11/2013 1400			

DATA REPORTING QUALIFIERS

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill

<u>Lab Section</u>	<u>Qualifier</u>	<u>Description</u>
GC/MS VOA	*	LCS or LCSD exceeds the control limits
Metals	*	LCS or LCSD exceeds the control limits
	g	Result fails applicable NYS drinking water standards
General Chemistry	H	Sample was prepped or analyzed beyond the specified holding time

Definitions and Glossary

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1

Sdg Number: Town of East Fishkill

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

CHAIN OF CUSTODY

REPORT# (Lab Use Only)

PROJECT REFERENCE: Eda 513K-11		PROJECT NO.	PROJECT LOCATION	MATRIX TYPE		REQUIRED ANALYSES										PAGE 1 of 1														
ENVIROTEST PROJECT MANAGER: Debra Bayer		P.O. NUMBER	TOWN	COMPOSITE (C) OR GRAB (G) INDICATE		Bladder		40ml Vials HCL		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		60ml Mon/Sod.Thio(liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		TURNAROUND TIME
CLIENT (SITE) PIN: LBG, Inc.		CLIENT PHONE: 203-929-8555	CLIENT FAX	AQUEOUS (WATER)		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		60ml Mon/Sod.Thio(liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		QUICK				
CLIENT NAME: Stacey Steiber		CLIENT ADDRESS: 4 Research Drive, Suite 301, Shelton, CT 06484		D (Drinking Water) or W (Waste Water) Indicate		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		60ml Mon/Sod.Thio(liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		VERBAL				
COMPANY CONTRACTING THIS WORK (if applicable):		DATE		SOLID OR SEMISOLID		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		60ml Mon/Sod.Thio(liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		REMARKS				
SAMPLE TIME: 11/06/13		SAMPLE IDENTIFICATION: TD02X Well 1		OTHER Specify		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		60ml Mon/Sod.Thio(liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		Metals I (As,Ba,Cd,Cr,Hg,Se)				
DATE: 11/06/13		TIME: 11:00		NUMBER OF CONTAINERS SUBMITTED		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		60ml Mon/Sod.Thio(liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		Metals II (Sb,Be,Mn,Tl)				
RELINQUISHED BY: (SIGNATURE)		COMPANY: LBG		DATE: 11/06/13		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		60ml Mon/Sod.Thio(liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		Cr, F, Sulfate, 524.2 (POC,MTBE, Vinyl Chloride)				
SAMPLER BY: (SIGNATURE)		COMPANY: LBG		DATE: 11/06/13		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		60ml Mon/Sod.Thio(liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		SOCs (604, 605, 515, 525, 531)				
RELINQUISHED BY: (SIGNATURE)		COMPANY: LBG		DATE: 11/06/13		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		60ml Mon/Sod.Thio(liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		Additional Tests (Total coliform thru Zinc)				
SUBCONTACT: SOC - H2M; Radio - Summit; MPA - Env. Con		DATE: 11/0		TIME: 1210		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		60ml Mon/Sod.Thio(liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		Radon, Gross A/Beta,				
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE: 11/0		TIME: 1210		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		60ml Mon/Sod.Thio(liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		Radium 226/228, Total Uranium				
LABORATORY REMARKS: ICE pH CL2		COOLER TEMP.: 7.6		RECEIVED BY: (SIGNATURE)		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		60ml Mon/Sod.Thio(liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		MPA (including Cypto and Giardia)				

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62631-1
Sdg Number: Town of East Fishkill

Login Number: 62631

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	7.6 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



Laboratory Results

for *Giardia* & *Cryptosporidium* Analysis



24 Oak Brook Drive • Ithaca • NY • 14850-8717 • Phone (607) 272-8902 • Fax (607) 256-7092

ACCOUNT No. EnviroTest Laboratories Inc.
 AD-12730 315 Fullerton Ave.
 Newburgh NY 12550

CONTACT
 Ms. Debbie Bayer
 1 (845) 562-0890 FAX

P.O. No.

SAMPLE No. 41855	SAMPLE SITE BDRX WELL1 (420-62631-1)	CLIENT IDENTIFICATION
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SAMPLE DATA

GRAB SAMPLE

WATER TYPE:	Ground Water	SAMPLE COLLECTOR:	
DATE COLLECTED DATE/TIME:	Jan 10, 2013 11:00 am	AMOUNT COLLECTED:	2.64 gal (10 L)
DATE RECEIVED:	Jan 11, 2013	TURBIDITY:	data not submitted
RECEIPT TEMPERATURE:	3.5°C	pH:	data not submitted
ELUTION START DATE/TIME:	Jan 11, 2013 10:25 am	FILTER COLOR:	N/A
TOTAL VOLUME OF SEDIMENT:	<0.1 ml	SAMPLE NOTES Sample condition was acceptable.	
SEDIMENT PER UNIT VOLUME:	<1 ml/100L		

ANALYSIS TYPE

ENVIROCHEK HV G&C

METHOD Method 1623 Envirochek HV filter

Method Remarks

Method 1623 employs a concentration step (centrifugation, Envirochek filter or Filta-Max filter), followed by immunomagnetic separation (IMS) and an immunofluorescent stain for *Giardia* and *Cryptosporidium*. Positive and Negative Controls were stained and examined concurrently.

RESULTS

Environmental Associates Ltd. certifies that all quality control elements associated with the above data have been met except as may be noted in the comments section. Results relate only to the sample.

	ANALYTE	Cysts Observed	Result per 100L
<i>Giardia</i>	Empty <i>Giardia</i> Cysts Detected	0	ND
	<i>Giardia</i> Cysts with Amorphous Structure	0	ND
	<i>Giardia</i> Cysts with One Internal Structure	0	ND
	<i>Giardia</i> Cysts with More than One Internal Structure	0	ND
	Total IFA <i>Giardia</i> Count per 100L	0	ND
	ANALYTE	Oocysts Observed	Result per 100L
<i>Cryptosporidium</i>	Empty <i>Cryptosporidium</i> Oocysts Detected	0	ND
	<i>Cryptosporidium</i> Oocysts with Amorphous Structure	0	ND
	<i>Cryptosporidium</i> Oocysts with Internal Structure	0	ND
	Total IFA <i>Cryptosporidium</i> Count per 100L	0	ND
COMMENTS		EQUIVALENT VOLUME EXAMINED: 10 L	DETECTION LIMIT PER 100L: <10.00

All limitations of analytical methods, laboratory dilutions, and instruments apply. If there are any questions about this report please contact the person certifying the report at the lab number.

TECHNICIAN Jeff Runyan, Senior Analyst

DATE COMPLETED January 15, 2013

ANALYSIS CERTIFIED BY	 Jeff Runyan	Technical Director & QA Officer
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DATE CERTIFIED January 17, 2013

REPORT REVIEWED BY Suzie Runyan	 Suzie Runyan	Office Manager & Customer Relations	REVIEWED BY DATE January 18, 2013
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Quality Control data for January 10, 2013

Method 1623

Cryptosporidium and *Giardia* in Water by Filtration/IMS/FA (EPA-815-R-05-002)

Materials

Waterborne™, Inc. - AccuSpike-IR Lot# 71 Expiration: 1/28/2013
 Dynal Dynabeads GC-Combo Lot No. 1018909 Expiration: 2014-02
 AquaGlo GC Direct Lot: 741581 Expiration: 11/30/2013

Positive QC Sample

% Sample Examined	Crypto. Spike	Crypto. Count	DAPI+	Crypto. % Recovery	% Sample Examined	Giardia Spike	Giardia Count	DAPI+	Giardia % Recovery
100	100	59	100%	59.0	100	100	48	100%	48.0

Negative QC Sample

% Sample Examined	Crypto. Spike	Crypto. Count	DAPI+	Crypto. % Recovery	% Sample Examined	Giardia Spike	Giardia Count	DAPI+	Giardia % Recovery
100	0	0	0	-----	100	0	0	0	-----

Note:

Method 1623 includes staining with DAPI (4,6-Diamidino-2-Phenylindole). DAPI stains nuclear material and assists in the identification of (oo)cysts. It is no longer considered an indicator of viability.

REPORT: MICROSCOPIC PARTICULATE ANALYSIS
NYSDOH Modified Method

Debbie Bayer
 EnviroTest Laboratories Inc.
 315 Fullerton Ave.
 Newburgh NY 12550

Filter ID: 41854

Client: Newburgh NY 12550

Station/Body of water: BDRX Well1 (420-62631-1)

RECEIPT OF FILTER:

Date Received: 1/11/2013 # of filters: NA Type: NA Carrier: Fed Ex Priority

COLLECTION:

Collector: _____ Date & Time collected: 1/10/2013 11:00 am
 Temperature: °F Turbidity: _____
 Water Type: Ground Water Date & Time Processed: 1/11/2013
 Date Analyzed: 1/31/2013

FILTER PROCESSING

Susan Z. Boutros Dr. Susan Boutros President & Lab Director

Color of water around filter: N/A Total volume of sediment: 0.05 ml
 Filter color: N/A Volume of sediment/100 gallons: 1.7 ml/100gal
 Color of sediment: tan IFA equivalent liter volume examined: _____
 # gallons filtered: 3 Phase equivalent gallon volume examined: 0.40

ANALYSIS OF PARTICULATES:

key = (EH) - extremely heavy [>20 /field @ 100X] (H) - heavy [10-20/field @ 100X]
 (M) - moderate [4-9/field @ 100X] (R) - rare [$<1-3$ /field @ 100X] (NF) - none found

PARTICULATE DEBRIS

Quantity	Description
<u>EH</u>	<u>fine silt & sand</u>
<u>EH</u>	<u>fine amorphous debris</u>
<u>NF</u>	_____

PROTOZOANS

Quantity	Description
<u>NF</u>	Other Coccidia
<u>NF</u>	Other protozoans

OTHER ORGANISMS

<u>NF</u>	Nematodes
<u>NF</u>	Nematode eggs
<u>NF</u>	Rotifers
<u>NF</u>	Crustaceans
<u>NF</u>	Crustacean eggs
<u>NF</u>	Insects
<u>R</u>	<u>iron bacteria</u>

ALGAE

<u>NF</u>	Green Algae
<u>NF</u>	Diatoms
<u>NF</u>	Blue-Green Algae
<u>NF</u>	Flagellated Algae

COMMENTS:

No primary surface indicators were observed. Based upon microscopic particulate analysis and the proposed EPA risk factors associated with bio-indicators there is a low risk of surface contamination (EPA risk factors= 0 low risk). Sample was collected and processed using the NYSDOH Modified Microscopic Particulate Analysis method. Any questions regarding this report, please contact the laboratory at the above listed number.

Environmental Associates Ltd. certifies that all quality control elements associated with the above data have been met except as may be noted in the comments section. Results relate only to the sample.

REPORT REVIEWED BY:

Susan Z. Boutros
 Dr. Susan Boutros President & Lab Director

DATE: January 31, 2013

**REPORT: MICROSCOPIC PARTICULATE ANALYSIS
 NYSDOH Modified Method**

PWS ID#	Well ID#	Utility Name	EAL Sample ID:
	BDRX Well1 (420-62631-1)	EnviroTest Laboratories Inc.	41854

Date: 1/10/2013

EPA Relative Surface Water Risk Factors

Primary Particulates	#/100 gallon	Relative Frequency	Relative Risk Factor	Comments
Coccidia (confirmed)	0	NF	0	
Diatoms	0	NF	0	
Other Algae	0	NF	0	
Insects/larvae	0	NF	0	
Rotifers	0	NF	0	
Plant Debris (with chloro.)	0	NF	0	

EPA Relative Risk = 0 Low Risk

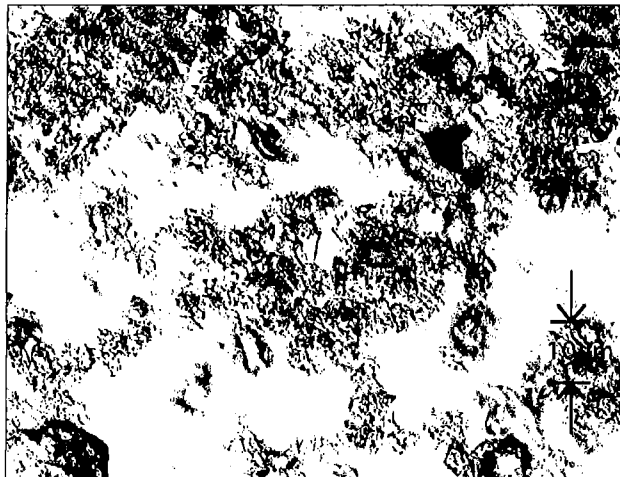
Secondary Particulates			
Nematodes	0	NF	
Crustaceans	0	NF	
Amoeba	0	NF	
Non-photo. flag. & ciliates	0	NF	
Photosynthetic flagellates	0	NF	
Other:		R	no relative risk factor assigned

COMMENTS: No primary surface indicators were observed. Based upon microscopic particulate analysis and the proposed EPA risk factors associated with bio-indicators there is a low risk of surface contamination (EPA risk factors= 0 low risk). Sample was collected and processed using the NYSDOH Modified Microscopic Particulate Analysis method. Any questions regarding this report, please contact the laboratory at the above listed number.

Environmental Associates Ltd. certifies that all quality control elements associated with the above data have been met except as may be noted in the comments section. Results relate only to the sample.

REPORT REVIEWED BY: *Susan H. Boutros* **DATE:** January 31, 2013
 Dr. Susan Boutros President & Lab Director

Environmental Associates, Ltd.



41854A Typical Sediment

400x



labs

575 Broad Hollow Road, Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

Sample Information...

Type : Potable Water
Origin:

EnviroTest Laboratories Inc.
315 Fullerton Avenue
Newburgh, NY 12550
Attn To : Debra Bayer

Lab No. : 1301538-001

Client Sample ID. : (420-62631-1)

BDRX Well 1

Federal ID

Collected : 1/10/2013 11:00:00 AM Point No:

Received : 1/11/2013 10:30:00 AM Location:

Collected By CLIENT

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Method Number	Analyzed
1,2-Dibromo-3-chloropropane	< 0.01		1	µg/L	0.2	E504.1	01/18/2013 1:59 AM
1,2-Dibromoethane	< 0.01		1	µg/L	0.05	E504.1	01/18/2013 1:59 AM
Alachlor	< 0.20		1	µg/L	2	E505	01/17/2013 1:49 AM
Aldrin	< 0.025		1	µg/L	5	E505	01/17/2013 1:49 AM
Chlordane	<0.20	r	1	µg/L	2	E505	01/17/2013 1:49 AM
Dieldrin	< 0.050		1	µg/L	5	E505	01/17/2013 1:49 AM
Endrin	< 0.010		1	µg/L	2	E505	01/17/2013 1:49 AM
Heptachlor	< 0.025		1	µg/L	0.4	E505	01/17/2013 1:49 AM
Heptachlor epoxide	< 0.020		1	µg/L	0.2	E505	01/17/2013 1:49 AM
Hexachlorobenzene	< 0.10		1	µg/L	1	E505	01/17/2013 1:49 AM
Hexachlorocyclopentadiene	< 0.10		1	µg/L	5	E505	01/17/2013 1:49 AM
Lindane	< 0.020		1	µg/L	0.2	E505	01/17/2013 1:49 AM
Methoxychlor	< 0.10		1	µg/L	40	E505	01/17/2013 1:49 AM
Total PCBs	< 0.40		1	µg/L	0.5	E505	01/17/2013 1:49 AM
Toxaphene	<1.0	r	1	µg/L	3	E505	01/17/2013 1:49 AM
Surr: Decachlorobiphenyl	83.2		1	%REC	30-150	E505	01/17/2013 1:49 AM
Surr: Tetrachloro-m-xylene	96.2		1	%REC	30-150	E505	01/17/2013 1:49 AM
2,4,5-TP (Silvex)	< 0.13		1	µg/L	10	E515.1	01/24/2013 1:28 AM
2,4-D	< 0.10		1	µg/L	50	E515.1	01/24/2013 1:28 AM
Dalapon	< 0.70		1	µg/L	50	E515.1	01/24/2013 1:28 AM
Dicamba	< 1.0		1	µg/L	50	E515.1	01/24/2013 1:28 AM
Dinoseb	< 0.20		1	µg/L	7	E515.1	01/24/2013 1:28 AM
Pentachlorophenol	< 0.040		1	µg/L	1	E515.1	01/24/2013 1:28 AM
Picloram	< 0.10		1	µg/L	50	E515.1	01/24/2013 1:28 AM
Surr: DCAA	84.0		1	%REC	70-130	E515.1	01/24/2013 1:28 AM
3-Hydroxycarbofuran	< 1.0		1	µg/L	50	E531.1	01/16/2013 8:07 PM
Aldicarb	< 0.50		1	µg/L	3	E531.1	01/16/2013 8:07 PM
Aldicarb sulfone	< 0.80		1	µg/L	2	E531.1	01/16/2013 8:07 PM
Aldicarb sulfoxide	< 0.50		1	µg/L	4	E531.1	01/16/2013 8:07 PM
Carbaryl	< 1.0		1	µg/L	50	E531.1	01/16/2013 8:07 PM
Carbofuran	< 0.90		1	µg/L	40	E531.1	01/16/2013 8:07 PM
Methomyl	< 1.0		1	µg/L	50	E531.1	01/16/2013 8:07 PM
Oxamyl	< 1.0		1	µg/L	50	E531.1	01/16/2013 8:07 PM
Surr: BDMC	96.0		1	%REC	68-119	E531.1	01/16/2013 8:07 PM
Atrazine	< 0.10		1	µg/L	3	E525.2	01/19/2013 12:33 AM
Benzo(a)pyrene	<0.02	r	1	µg/L	0.2	E525.2	01/19/2013 12:33 AM

Qualifiers: E = Value above quantitation range
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 H = Received/analyzed outside of analytical holding time
 + = ELAP / NELAC does not offer certification for this analyte
 c = Calibration acceptability criteria exceeded for this analyte
 r = Reporting limit below calibration range
 J = Estimated value - below calibration range
 s = Recovery exceeded control limits for this analyte
 N = Indicates presumptive evidence of compound
 Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.

Laboratory Manager



labs

575 Broad Hollow Road, Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

Sample Information...

Type : Potable Water
Origin:

EnviroTest Laboratories Inc.
315 Fullerton Avenue
Newburgh, NY 12550
Attn To : Debra Bayer

Lab No. : 1301538-001

Client Sample ID. : (420-62631-1)

Federal ID

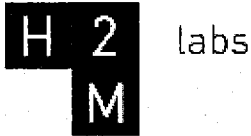
BDRX Well 1

Collected : 1/10/2013 11:00:00 AM Point No:
Received : 1/11/2013 10:30:00 AM Location:
Collected By CLIENT

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Method Number	Analyzed
bis(2-Ethylhexyl)adipate	< 0.60		1	µg/L	50	E525.2	01/19/2013 12:33 AM
Bis(2-ethylhexyl)phthalate	< 0.60		1	µg/L	6	E525.2	01/19/2013 12:33 AM
Butachlor	< 1.0		1	µg/L	50	E525.2	01/19/2013 12:33 AM
Metolachlor	< 1.0		1	µg/L	50	E525.2	01/19/2013 12:33 AM
Metribuzin	< 0.50		1	µg/L	50	E525.2	01/19/2013 12:33 AM
Propachlor	< 1.0		1	µg/L	50	E525.2	01/19/2013 12:33 AM
Simazine	<0.07	r	1	µg/L	4	E525.2	01/19/2013 12:33 AM
Surr: 4-Terphenyl-d14	310	S	1	%REC	77-143	E525.2	01/19/2013 12:33 AM
Surr: Dimethylnitrobenzene	91.8		1	%REC	70-130	E525.2	01/19/2013 12:33 AM
Surr: Perylene-d12	86.6		1	%REC	70-130	E525.2	01/19/2013 12:33 AM
Surr: Pyrene-d10	92.6		1	%REC	70-130	E525.2	01/19/2013 12:33 AM
Surr: Triphenylphosphate	80.0		1	%REC	70-130	E525.2	01/19/2013 12:33 AM

Qualifiers: E = Value above quantitation range
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 H = Received/analyzed outside of analytical holding time
 + = ELAP / NELAC does not offer certification for this analyte
 c = Calibration acceptability criteria exceeded for this analyte
 r = Reporting limit below calibration range
 J = Estimated value - below calibration range
 s = Recovery exceeded control limits for this analyte
 N = Indicates presumptive evidence of compound
 Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.

Joann M. Slavina
 Laboratory Manager



H2M LABS INC
 575 Broad Hollow Road
 Melville, NY 11747
 TEL: (631) 694-3040 FAX: (631) 420-8436
 Website: www.h2mlabs.com

Sample Receipt Checklist

Client Name **ENV**

Date and Time Received: **1/11/2013 10:30:00 AM**

Work Order Number: **1301538**

RcptNo: **1**

Received by **Beth Vogel**

Completed by:

Sindony Facelli

Reviewed by:

Joann M. Slavin

Completed Date: 1/11/2013 12:50:29 PM

Reviewed Date: 1/16/2013 1:47:07 PM

Carrier name: Client

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Are matrices correctly identified on Chain of custody? Yes No
- Is it clear what analyses were requested? Yes No
- Custody seals intact on sample bottles? Yes No Not Present
- Samples in proper container/bottle? Yes No
- Were correct preservatives used and noted? Yes No NA
- Preservative added to bottles:
- Sample Condition? Intact Broken Leaking
- Sufficient sample volume for indicated test? Yes No
- Were container labels complete (ID, Pres, Date)? Yes No
- All samples received within holding time? Yes No
- Was an attempt made to cool the samples? Yes No NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes No NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes No To 3.4°
- Water - Were bubbles absent in VOC vials? Yes No No Vials
- Water - Was there Chlorine Present? Yes No NA
- Water - pH acceptable upon receipt? Yes No No Water
- Are Samples considered acceptable? Yes No
- Custody Seals present? Yes No
- Airbill or Sticker? Air Bil Sticker Not Present

Case Number:

SDG:

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? Yes No Person Contacted:
 Contact Mode: Phone: Fax: Email: In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

Envirotest contacted us 1/10/2013 to let us know that they were only sending one bottle for method 515.

CorrectiveAction:



Hazen Research, Inc.
 4601 Indiana Street
 Golden, CO 80403 USA
 Tel: (303) 279-4501
 Fax: (303) 278-1528

DATE January 14, 2013
 HRI PROJECT 009-587
 HRI SERIES NO A145/13
 DATE REC'D. 1/11/2013
 CUST. P.O.# 420-62631-1

EnviroTest Laboratories, Inc. - Newburgh
 Debra Bayer
 315 Fullerton Avenue
 Newburgh, NY 12550

REPORT OF ANALYSIS

SAMPLE NO. A145/13-1

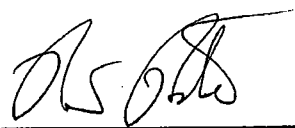
SAMPLE IDENTIFICATION: 420-62631-1 - BDRX Well 1 - Project # 42001269, LBG, Inc.
 Sampled on 01/10/2013 @ 1100

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radon (+-Precision*), pCi/l (T)	300(+20)	13	SM 7500-Rn B	1/11/2013 @ 1018	AN

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.
 Certification ID's: CO/EPA CO00008; CT PH-0152; KS E-10265; NYELAP 11417;
 PADEP 68-00551; RI LAO00284; TX T104704256-11-2; WI 998376610

Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory.

CODES: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Recoverable
 (PD) = Potentially Dissolved < = Less Than

By: 
 Robert Rostad
 Laboratory Manager

**HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY**

Date: 1/11/13

Batch QC Evaluation Form

Analyte: Rn-222

Control Standard: ID: NBL 6A pCi/ml: 2,000 (use ___ ml diluted)

Spike Solution: ID: _____ pCi/ml: _____ (use ___ ml)

Spike Recovery Calculation: Sample: _____

Calculation: _____ X 100 = _____ %

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std.	+/- 20 %	/		
Spike Recovery	80 - 120 %			/
Blank	< or = 2 x MDL	/		
Duplicate 1	95% confidence interval overlap	/		
Duplicate 2 *	95% confidence interval overlap	/		

* Required for batch size greater than 10 samples.

Conclusions:

- Batch Passes
 Batch Fails
 Batch Passes, with exceptions:

Reruns Required: _____

Narrative: _____

Batch Listing by Lab Control Number:

<u>A145/12</u>	_____
<u>A150/12</u>	_____
<u>A152/12</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Evaluator: _____

[Signature]
01/14/2013

Date

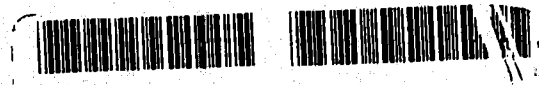
EnviroTest Laboratories, Inc.
 315 Fullerton Avenue
 Newburgh, NY 12550
 Phone (845) 562-0890 Fax (845) 562-0841

Chain of Custody Record

EnviroTest Laboratories Inc.

Client Information (Sub Contract Lab) Client Contact: Summit Environmental Technologies, Inc. Address: 3310 Win Street, Cuyahoga Falls, OH, 44223 Phone: [Redacted] Email: [Redacted]		Lab Pk: Bayer, Debra E-Mail: dbayer@envirotestlaboratories.com		Carrier Tracking No(s): COC No: 420-6249.1 Page: Page 1 of 1	
Due Date Requested: 1/24/2013 TAT Requested (days):		Order ID: 1300602 SUBCONTRACT/Alpha/Ga-228/RA 228 SUBCONTRACT/Total Uranium		Total Number of Containers: 10	
Project Name: LBG, Inc. Site: BDRX Well 1 (420-62631-1)		Matrix: Water		Special Instructions/Note:	
Sample Date: 1/10/13 Sample Time: 11:00		Sample Type: (C=Comp, G=grab)		Preservation Code:	
Sample ID (Lab ID):		Sample ID (Client ID):		Special Instructions/Note:	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:	
Empty Kit Relinquished by: [Signature]		Date: 1/10/13		Method of Shipment:	
Relinquished by: [Signature]		Date/Time: 1/10/13		Received by: [Signature] Company: [Redacted]	
Relinquished by: [Signature]		Date/Time:		Received by: [Signature] Company: [Redacted]	
Relinquished by: [Signature]		Date/Time:		Received by: [Signature] Company: [Redacted]	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Rev. 7.0
Date: 7-25-12



Summit Environmental Te
Cooler Receipt Order ID: 1300602

COOL

Client: ENVINOTEST Order Number: _____
Date Received: 4/11/13 Time Received: 4/11/13
Number of Coolers/Boxes: _____ N/A

Shipper: FEDEX UPS DHL Airborne US Postal Walk-in Pickup Other: _____

Packaging: Peanuts Bubble Wrap Paper Foam None Other: _____

Tape on cooler/book: Y N N/A

Custody Seals Intact Y N N/A

C-O-C In plastic Y N N/A

Ice Y Blue ice _____ present / absent / melted N/A

Sample Temperature 21.0 °C N/A

Radiological Testing Y 31 count per minute N N/A

****Use 1 sheet per sample for Radiological Testing. If sample is HOT, the Radiological Safety Officer must be notified immediately.**

C-O-C filled out properly Y N N/A

Samples in separate bags Y N N/A

Sample containers intact* Y N N/A

*If no, list broken sample(s): _____

Sample label(s) complete (ID, date, etc.) Y N N/A

Label(s) agree with C-O-C Y N N/A

Correct containers used Y N N/A

Sufficient sample received Y N N/A

Bubbles absent from 40 mL vials** Y N N/A

** Samples with bubbles less than the size of a pea are acceptable.

Was client contacted about samples Y N

Will client send new samples Y N

Client contact: _____

Date/Time: _____

Logged in by: _____

Comments: _____



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

LABORATORY REPORT

Client

EnviroTest Laboratories
315 Fullerton Ave.
Newburgh, NY 12550

Order Number

1300602

Project Number

42001269

Issued

Friday, January 25, 2013

Total Number of Pages

4 (excluding C.O.C. and cooler receipt form)

Approved By :

QA Manager



Certifications: A2LA/DOD 0724.01, Alabama 41600, Arkansas 88-0735, California 07256CA, Colorado, Connecticut PH-0105, Delaware, Florida NELAC E87688, Georgia E87688 and 943, Idaho OH00923, Illinois 200061 and Reg.5, Indiana C-OH-13, Kansas E-10347, Kentucky (underground Storage Tank) 3, Kentucky 90146, Louisiana 04061 and LA12004, Maine 2012015, Maryland 339, Massachusetts M-OPH923, Michigan (Reg.5), Minnesota 409711, Montana CERT0099, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, Ohio 4170, Ohio VAP CL0052, Oklahoma 9940, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Tennessee TN04018, Texas T104704466-11-5, Region 5 WG-15J, Region 8 8TMS-L, USDA/APHIS P330-11-00244, Utah OH009232011-1, Vermont VT-87688, Virginia 00440 and 1581, Washington C891, West Virginia 248 and 9957C and E87688, Wisconsin 399013010

"Analytical Integrity" · EPA Certified · NELAP Certified

3310 Win Street · Cuyahoga Falls, Ohio 44223 · Phone: 330-253-8211 · Fax: 330-253-4489

Web Site: www.settek.com



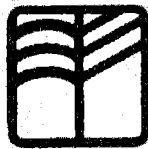
SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Sample Summary

Client: EnviroTest Laboratories

Order Number: 1300602

Laboratory ID	Client ID	Matrix	Sampling Date
1300602-01	420-62631-1	Liquid	1/10/2013



Report Narrative

Client: EnviroTest Laboratories

Order Number: 1300602

No problems were encountered during analysis of this order number, except as noted.

Data Qualifiers:

- B = Analyte found in the method blank
- J = Estimated concentration of analyte between MDL (LOD) and Reporting Limit (LOQ)
- C = Analyte has been confirmed by another instrument or method
- E = Analyte exceeds the upper limit of the calibration curve.
- D = Sample or extract was analyzed at a higher dilution
- X = User defined data qualifier.
- S = Surrogate out of control limits
- U = Undetected
- a = Not Accredited by NELAC

- ND = Non Detected at LOQ
- DF = Dilution Factor

- Limit Of Quantitation (LOQ) = Laboratory Reporting Limit (not adjusted for dilution factor)
- Limit Of Detection (LOD) = Method Detection Limit
- Practical Quantitation Limit (PQL) = (same as LOQ)
- Method Detection Limit (MDL) = (same as LOD)
- Reporting Detection Limit (RDL) = (same as LOD)

Estimated uncertainty values are available upon request.

The test results meet the requirements of the NELAC standard, except where noted. The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the client. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the client for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

Matrices:
A = Air
C = Cream
DW = Drinking Water
L = Liquid
O = Oil
SL = Sludge
SO = Soil
S = Solid
T = Tablet
TC = TCLP Extract
WW = Waste Water
W = Wipe



SUMMIT
 ENVIRONMENTAL TECHNOLOGIES, INC.
 Analytical Laboratories

January 25, 2013

Client: EnviroTest Laboratories
 Address: 315 Fullerton Ave.
 Newburgh, NY 12550

Received: 1/11/2013
 Project #: 42001269

<u>Client ID#</u>	<u>Lab ID#</u>	<u>Collected</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Matrix</u>	<u>Method</u>	<u>DF</u>	<u>LOQ</u>	<u>Run</u>	<u>Analyst</u>
420-62631-1	1300602-01	10-Jan-13	Uranium	3.2	ug/L	L	200.8	1	1	11-Jan-13	TXN
420-62631-1	1300602-01	10-Jan-13	Gross Alpha	U +/- 2.18	pCi/L	L	EPA 900.0	1	3	16-Jan-13	CM
420-62631-1	1300602-01	10-Jan-13	Gross Beta	5.97 +/- 1.46	pCi/L	L	EPA 900.0	1	4	16-Jan-13	CM
420-62631-1	1300602-01	10-Jan-13	Radium-226	0.08 +/- 0.1	pCi/L	L	EPA 903.0	1	1	18-Jan-13	CM
420-62631-1	1300602-01	10-Jan-13	Radium-228	0.86 +/- 0.39	pCi/L	L	EPA904.0	1	1	17-Jan-13	CM

Summit Environmental Technologies, Inc.

Gross Alpha/Beta

QC Report

Batch ID	675	LCS/MS/MS Lot # ERA 08061201B		
	Gross Alpha %Rec.	%RPD	Gross Beta %Rec.	%RPD
Blank	<3pci/l		<6pci/l	
LCS	96.8		109.9	
LCSD	81.8	17.1	108.8	1.1
MS	77.5		117.5	
Sample/ Sample DUP		0		0

Summit Environmental Technologies, Inc.
Method 904.0/9320(Radium-228)

QC Report

Batch ID 685 lcs lot # ERA 01121201B

%Rec. %RPD

Blank <1pci/L

LCS 78
LCSD 110.4 34.1

Sample/Dup 0

Summit Environmental Technologies, Inc.
Method 903.0/9315(Radium-226)
QC Report

Batch ID 685

%Rec. %RPD

Blank <1pci/l

LCS 118.2
MS 102.2

Sample/
Sample DUP 0.0

CHAIN OF CUSTODY

REPORT# (Lab Use Only)

102681

PROJECT REFERENCE: ES 5150K11		PROJECT NO.:	PROJECT LOCATION:	MATRIX TYPE		REQUIRED ANALYSES										PAGE 1 of 1			
ENVIROTEST PROJECT MANAGER: Debra Bayer		P.O. NUMBER:	TOWN:	COMPOSITE (C) OR GRAB (G) INDICATE		Bladder											TURNAROUND TIME		
CLIENT (SITE) PM: LBG, Inc.		CLIENT PHONE: 203-929-8555	CLIENT FAX:	AQUEOUS (WATER)		40ml Vials HCL											NORMAL		
CLIENT NAME: Slapey Stieber		CLIENT ADDRESS: 4 Research Drive, Suite 301, Shelton, CT 06484		D (Drinking Water) or W (Waste Water) Indicate		40ml Sodium Thio.											QUICK		
COMPANY CONTRACTING THIS WORK (if applicable):		1		SOLID OR SEMISOLID		Liter Amber Sodium Thio.											VERBAL		
SAMPLE		SAMPLE IDENTIFICATION		OTHER Specify		Liter Amber HCl/Na2SO3													
DATE	TIME					250ml Plastic Nitric Acid													
11/01/13	1100	BDRX Well 1		ND		60ml Mon/Sod.Thio(Liquid)													
						Liter Plastic													
						250ml Plastic Sodium Hyd.													
						125ml Plastic Sterile													
						Liter Plastic Nitric													
						40ml vials Unpres													
						NUMBER OF CONTAINERS SUBMITTED										#OF COOLERS: 1			
						2	3	4	2	3	1	1	4	1	2	5	2	REMARKS	
						30 Total Containers										Metals (As, Ba, Cd, Cr, Hg, Se)			
																Metals II (Sb, Be, Ni, Tl)			
																Cr, F, Sulfate, 524.2 (POC, MTBE, Vinyl Chloride)			
																SOCs (504, 505, 515, 525, 531)			
																Additional Tests (Total coliform thru Zinc)			
																Radon, Gross Alpha, Radium 226/228, Total Uranium			
																MPA (Including Cypto and Giardia)			
RELINQUISHED BY: (SIGNATURE)		COMPANY	DATE	TIME	RECEIVED BY: (SIGNATURE)	COMPANY	DATE	TIME											
SAMPLED BY: (SIGNATURE)		COMPANY	DATE	TIME	RECEIVED BY: (SIGNATURE)	COMPANY	DATE	TIME											
RELINQUISHED BY: (SIGNATURE)		COMPANY	DATE	TIME	RECEIVED BY: (SIGNATURE)	COMPANY	DATE	TIME											
SUBCONTACT: SOC - H2M; Radio - Summit; MPA - Env. Con																			
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT	Cooler Temp.:	LABORATORY REMARKS: ICE _____ pH _____ CL2 _____ Revisited by _____													
11/01/13		1210	YES	7.6															

TW-7 AND TW-11

JANUARY 10, 2013

ANALYTICAL REPORT

Job Number: 420-62630-1
SDG Number: Town of East Fishkill
Job Description: LBG, Inc.

For:
Leggette, Brashears & Graham, Inc.
4 Research Drive
Shelton, CT 06464

Attention: Stacy Stieber



Debra Bayer
Customer Service Manager
dbayer@envirotestlaboratories.com
01/21/2013

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NELAP Accredited, NYSDOH 10142, NJDEP NY015, CTDOH PH-0554, EPA NY00049.

Job Narrative
420-J62630-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

Metals

Method 200.8: The initial calibration verification (ICV) for analytical batch 62666 recovered above the upper control limit for Tl. The data have been qualified and reported. This compound was flagged with a carrot (^) on the sample result sheet. The samples associated with this ICV were non-detects for the affected analytes; therefore, the data have been reported with high confidence of no false negatives.

No other analytical or quality issues were noted.

General Chemistry

Method SM 4500 H+ B: The holding time for pH is 15 minutes, the samples were received outside of the holding time.

No other analytical or quality issues were noted.

METHOD SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1
Sdg Number: Town of East Fishkill

Description	Lab Location	Method	Preparation Method
Matrix: Water			
ICP Metals by 200.7	EnvTest	EPA 200.7 Rev 4.4	
200 Series Drinking Water Prep Determination Step	EnvTest		EPA 200
ICPMS Metals by 200.8	EnvTest	EPA 200.8	
200 Series Drinking Water Prep Determination Step	EnvTest		EPA 200
Apparent Color	EnvTest	SM21 2120B	
Mercury in Water by CVAA	EnvTest	EPA 245.1	
Digestion for CVAA Mercury in Waters	EnvTest		EPA 245.1
Anions by Ion Chromatography	EnvTest	MCAWW 300.0	
Anions by Ion Chromatography	EnvTest	MCAWW 300.0	
Purgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2	
Turbidity	EnvTest	SM20 SM 2130B	
Odor, Threshold Test	EnvTest	SM20 SM 2150B	
Alkalinity, Titration Method	EnvTest	SM18 SM 2320B	
Corrosivity LSI Calculation	EnvTest	SM20 SM 2330B	
Hardness by Calculation	EnvTest	SM20 SM 2340B	
Total Dissolved Solids (Dried at 180 °C)	EnvTest	SM18 SM 2540C	
Cyanide, Total: Colorimetric Method	EnvTest	SM18 SM 4500 CN E	
Cyanide: Distillation	EnvTest		SM18 SM 4500 CN C
pH	EnvTest	SM19 SM 4500 H+ B	
Nitrite by Colormetric	EnvTest	SM20 SM 4500B	

Lab References:

EnvTest = EnviroTest

Method References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SM19 = "Standard Methods For The Examination Of Water And Wastewater", 19Th Edition, 1995."

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

SM21 = "Standard Methods For The Examination Of Water And Wastewater", 21st Edition

METHOD / ANALYST SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1
Sdg Number: Town of East Fishkill

Method	Analyst	Analyst ID
EPA-DW 524.2	Andersen, Eric C	ECA
EPA 200.7 Rev 4.4	El Sayed, Tamer A	TAE
EPA 200.8	Palentino, Gus J	GJP
EPA 245.1	McPhillips, Julie	JM
SM20 SM 2340B	El Sayed, Tamer A	TAE
SM21 2120B	Harmon, Kelly	KH
MCAWW 300.0	Sutcliffe, Bethany L	BLS
SM20 SM 2130B	Harmon, Kelly	KH
SM20 SM 2150B	Harmon, Kelly	KH
SM18 SM 2320B	Sutcliffe, Bethany L	BLS
SM20 SM 2330B	Pistole, Maria	MP
SM18 SM 2540C	Harmon, Kelly	KH
SM18 SM 4500 CN E	Sutcliffe, Bethany L	BLS
SM19 SM 4500 H+ B	Harmon, Kelly	KH
SM20 SM 4500B	Sutcliffe, Bethany L	BLS

SAMPLE SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1
Sdg Number: Town of East Fishkill

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-62630-1	TW-7	Drinking Water	01/10/2013 1120	01/10/2013 1210

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1
Sdg Number: Town of East Fishkill

Client Sample ID: TW-7

Lab Sample ID: 420-62630-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1120
Date Received: 01/10/2013 1210

524.2 Purgeable Organic Compounds in Water by GC/MS

Method:	524.2	Analysis Batch:	420-62700	Instrument ID:	Agilent 7890A/5975C
Preparation:	N/A	Lab File ID:	X011514.D	Initial Weight/Volume:	5 mL
Dilution:	1.0	Final Weight/Volume:	5 mL	Date Analyzed:	01/15/2013 1546
Date Analyzed:	01/15/2013 1546	Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	<0.500		0.500
1,1,1-Trichloroethane	<0.500		0.500
1,1,2,2-Tetrachloroethane	<0.500		0.500
1,1,2-Trichloroethane	<0.500		0.500
1,1-Dichloroethane	<0.500		0.500
1,1-Dichloroethene	<0.500		0.500
1,1-Dichloropropene	<0.500		0.500
1,2,3-Trichlorobenzene	<0.500		0.500
1,2,3-Trichloropropane	<0.500		0.500
1,2,4-Trichlorobenzene	<0.500		0.500
1,2,4-Trimethylbenzene	<0.500		0.500
1,2-Dichloroethane	<0.500		0.500
1,2-Dichlorobenzene	<0.500		0.500
1,2-Dichloropropane	<0.500		0.500
1,3-Dichloropropane	<0.500		0.500
1,4-Dichlorobenzene	<0.500		0.500
2,2-Dichloropropane	<0.500		0.500
Benzene	<0.500		0.500
Bromobenzene	<0.500		0.500
Bromochloromethane	<0.500		0.500
Bromomethane	<0.500		0.500
n-Butylbenzene	<0.500		0.500
cis-1,2-Dichloroethene	<0.500		0.500
cis-1,3-Dichloropropene	<0.500		0.500
Carbon tetrachloride	<0.500		0.500
Chlorobenzene	<0.500		0.500
Chloroethane	<0.500		0.500
Chloromethane	<0.500		0.500
Dibromomethane	<0.500		0.500
Ethylbenzene	<0.500		0.500
Dichlorodifluoromethane	<0.500		0.500
Hexachlorobutadiene	<0.500		0.500
Isopropylbenzene	<0.500		0.500
p-Isopropyltoluene	<0.500		0.500
Methylene Chloride	<0.500		0.500
m-Xylene & p-Xylene	<0.500		0.500
Methyl tert-butyl ether	<0.500		0.500
o-Xylene	<0.500		0.500
Tetrachloroethene	<0.500		0.500
Toluene	<0.500		0.500
trans-1,2-Dichloroethene	<0.500		0.500
trans-1,3-Dichloropropene	<0.500		0.500
Trichloroethene	<0.500		0.500
tert-Butylbenzene	<0.500		0.500

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1
Sdg Number: Town of East Fishkill

Client Sample ID: TW-7

Lab Sample ID: 420-62630-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1120
Date Received: 01/10/2013 1210

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2 Analysis Batch: 420-62700 Instrument ID: Agilent 7890A/5975C
Preparation: N/A Lab File ID: X011514.D
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 01/15/2013 1546 Final Weight/Volume: 5 mL
Date Prepared: N/A

Analyte	Result (ug/L)	Qualifier	RL
Trichlorofluoromethane	<0.500		0.500
Vinyl chloride	<0.500		0.500
Xylenes, Total	<0.500		0.500
Styrene	<0.500		0.500
sec-Butylbenzene	<0.500		0.500
1,3,5-Trimethylbenzene	<0.500		0.500
N-Propylbenzene	<0.500		0.500
1,3-Dichlorobenzene	<0.500		0.500
2-Chlorotoluene	<0.500		0.500
4-Chlorotoluene	<0.500		0.500
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	105		71 - 112
Toluene-d8 (Surr)	114		79 - 121
1,2-Dichloroethane-d4 (Surr)	118		70 - 128

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1
Sdg Number: Town of East Fishkill**Client Sample ID: TW-7**Lab Sample ID: 420-62630-1
Client Matrix: Drinking WaterDate Sampled: 01/10/2013 1120
Date Received: 01/10/2013 1210**200.7 Rev 4.4 ICP Metals by 200.7**

Method:	200.7 Rev 4.4	Analysis Batch: 420-62709	Instrument ID:	None
Preparation:	200	Prep Batch: 420-62637	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	mL
Date Analyzed:	01/15/2013 1704		Final Weight/Volume:	50 mL
Date Prepared:	01/14/2013 1051			

Analyte	Result (ug/L)	Qualifier	RL
Iron	4340	g	60.0
Manganese	1270	g	10.0
Sodium	19400		200
Zinc	26.3		20.0

200.8 ICPMS Metals by 200.8

Method:	200.8	Analysis Batch: 420-62666	Instrument ID:	Perkin Elmer ELAN
Preparation:	200	Prep Batch: 420-62637	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	mL
Date Analyzed:	01/14/2013 1503		Final Weight/Volume:	50 mL
Date Prepared:	01/14/2013 1051			

Analyte	Result (ug/L)	Qualifier	RL
Pb	<1.00		1.00
Arsenic	<1.40		1.40
Beryllium	<0.300		0.300
Cadmium	<1.00		1.00
Chromium	<7.00		7.00
Nickel	1.34		0.500
Antimony	<0.400		0.400
Thallium	<0.300	*	0.300
Barium	56.0		2.00
Selenium	<2.00		2.00

245.1 Mercury in Water by CVAA

Method:	245.1	Analysis Batch: 420-62768	Instrument ID:	Perkin Elmer FIMS
Preparation:	245.1	Prep Batch: 420-62740	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	25 mL
Date Analyzed:	01/17/2013 1439		Final Weight/Volume:	25 mL
Date Prepared:	01/17/2013 0955			

Analyte	Result (ug/L)	Qualifier	RL
Hg	<0.200		0.200

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1
Sdg Number: Town of East Fishkill

Client Sample ID: TW-7

Lab Sample ID: 420-62630-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1120
Date Received: 01/10/2013 1210

SM 2340B Hardness by Calculation

Method: SM 2340B
Preparation: N/A
Dilution: 1.0
Date Analyzed: 01/15/2013 1704
Date Prepared: N/A

Analysis Batch: 420-62714

Instrument ID: None
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Result (mg/L)	Qualifier	RL
Calcium hardness as calcium carbonate	202		1.25

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1
Sdg Number: Town of East Fishkill

General Chemistry

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1
Sdg Number: Town of East Fishkill

General Chemistry

Client Sample ID: TW-7

Lab Sample ID: 420-62630-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1120
Date Received: 01/10/2013 1210

Analyte	Result	Qual	Units	Dil	Method
Apparent Color	100		Color Units	1.0	2120B
	Anly Batch: 420-62606	Date Analyzed	01/11/2013 1042		
Langelier Index	-0.600		NONE	1.0	SM 2330B
	Anly Batch: 420-62807	Date Analyzed	01/18/2013 1637		

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1
Sdg Number: Town of East Fishkill

General Chemistry

Client Sample ID: TW-7

Lab Sample ID: 420-62630-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1120
Date Received: 01/10/2013 1210

Analyte	Result	Qual	Units	RL	Dil	Method
Alkalinity	179		mg/L	5.00	1.0	SM 2320B
	Anly Batch: 420-62799	Date Analyzed	01/18/2013 1217			
Total Dissolved Solids	472		mg/L	5.00	1.0	SM 2540C
	Anly Batch: 420-62645	Date Analyzed	01/14/2013 1530			
Sulfate	34.6		mg/L	5.00	1.0	300.0
	Anly Batch: 420-62584	Date Analyzed	01/10/2013 1830			
Fluoride	<0.500		mg/L	0.500	1.0	300.0
	Anly Batch: 420-62584	Date Analyzed	01/10/2013 1830			
Chloride	69.7		mg/L	30.0	20	300.0
	Anly Batch: 420-62648	Date Analyzed	01/11/2013 1732			
Nitrate as N	0.370		mg/L	0.250	1.0	300.0
	Anly Batch: 420-62584	Date Analyzed	01/10/2013 1830			
Cyanide, Total	<0.00500		mg/L	0.00500	1.0	SM 4500 CN E
	Anly Batch: 420-62744	Date Analyzed	01/16/2013 1415			
	Prep Batch: 420-62635	Date Prepared:	01/11/2013 1000			
Turbidity	50.9		NTU	0.100	1.0	SM 2130B
	Anly Batch: 420-62605	Date Analyzed	01/11/2013 1141			
Odor	2.00		T.O.N.	1.00	1.0	SM 2150B
	Anly Batch: 420-62628	Date Analyzed	01/11/2013 1542			
Temp @ Odor Measurement	60.0		Degrees C	5.00	1.0	SM 2150B
	Anly Batch: 420-62628	Date Analyzed	01/11/2013 1542			
pH	7.12	H	SU	0.200	1.0	SM 4500 H+ B
	Anly Batch: 420-62597	Date Analyzed	01/10/2013 1629			
Temp @ pH Measurement	18.1		Degrees C	5.00	1.0	SM 4500 H+ B
	Anly Batch: 420-62597	Date Analyzed	01/10/2013 1629			
Nitrite as N	<0.0100		mg/L	0.0100	1.0	SM 4500B
	Anly Batch: 420-62633	Date Analyzed	01/11/2013 1400			

DATA REPORTING QUALIFIERS

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1
Sdg Number: Town of East Fishkill

Lab Section	Qualifier	Description
Metals	*	LCS or LCSD exceeds the control limits
	g	Result fails applicable NYS drinking water standards
General Chemistry	H	Sample was prepped or analyzed beyond the specified holding time

Definitions and Glossary

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1

Sdg Number: Town of East Fishkill

<u>Abbreviation</u>	<u>These commonly used abbreviations may or may not be present in this report.</u>
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62630-1
Sdg Number: Town of East Fishkill

Login Number: 62630


Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	7.6 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 420-62629-1
SDG Number: Town of East Fishkill
Job Description: LBG, Inc.

For:
Leggette, Brashears & Graham, Inc.
4 Research Drive
Shelton, CT 06464

Attention: Stacy Stieber



Debra Bayer
Customer Service Manager
dbayer@envirotestlaboratories.com
01/21/2013

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NELAP Accredited, NYSDOH 10142, NJDEP NY015, CTDOH PH-0554, EPA NY00049.

Job Narrative
420-J62629-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

Metals

Method 200.8: The initial calibration verification (ICV) for analytical batch 62666 recovered above the upper control limit for Tl. The data have been qualified and reported. This compound was flagged with a carrot (^) on the sample result sheet. The samples associated with this ICV were non-detects for the affected analytes; therefore, the data have been reported with high confidence of no false negatives.

No other analytical or quality issues were noted.

General Chemistry

Method SM 4500 H+ B: The holding time for pH is 15 minutes, the samples were received outside of the holding time.

No other analytical or quality issues were noted.

METHOD SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1
Sdg Number: Town of East Fishkill

Description	Lab Location	Method	Preparation Method
Matrix: Water			
ICP Metals by 200.7	EnvTest	EPA 200.7 Rev 4.4	
200 Series Drinking Water Prep Determination Step	EnvTest		EPA 200
ICPMS Metals by 200.8	EnvTest	EPA 200.8	
200 Series Drinking Water Prep Determination Step	EnvTest		EPA 200
Apparent Color	EnvTest	SM21 2120B	
Mercury in Water by CVAA	EnvTest	EPA 245.1	
Digestion for CVAA Mercury in Waters	EnvTest		EPA 245.1
Anions by Ion Chromatography	EnvTest	MCAWW 300.0	
Anions by Ion Chromatography	EnvTest	MCAWW 300.0	
Purgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2	
Turbidity	EnvTest	SM20 SM 2130B	
Odor, Threshold Test	EnvTest	SM20 SM 2150B	
Alkalinity, Titration Method	EnvTest	SM18 SM 2320B	
Corrosivity LSI Calculation	EnvTest	SM20 SM 2330B	
Hardness by Calculation	EnvTest	SM20 SM 2340B	
Total Dissolved Solids (Dried at 180 °C)	EnvTest	SM18 SM 2540C	
Cyanide, Total: Colorimetric Method	EnvTest	SM18 SM 4500 CN E	
Cyanide: Distillation	EnvTest		SM18 SM 4500 CN C
pH	EnvTest	SM19 SM 4500 H+ B	
Nitrite by Colormetric	EnvTest	SM20 SM 4500B	

Lab References:

EnvTest = EnviroTest

Method References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SM19 = "Standard Methods For The Examination Of Water And Wastewater", 19Th Edition, 1995."

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

SM21 = "Standard Methods For The Examination Of Water And Wastewater", 21st Edition

METHOD / ANALYST SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1
Sdg Number: Town of East Fishkill

Method	Analyst	Analyst ID
EPA-DW 524.2	Andersen, Eric C	ECA
EPA 200.7 Rev 4.4	El Sayed, Tamer A	TAE
EPA 200.8	Palentino, Gus J	GJP
EPA 245.1	McPhillips, Julie	JM
SM20 SM 2340B	El Sayed, Tamer A	TAE
SM21 2120B	Harmon, Kelly	KH
MCAWW 300.0	Sutcliffe, Bethany L	BLS
SM20 SM 2130B	Harmon, Kelly	KH
SM20 SM 2150B	Harmon, Kelly	KH
SM18 SM 2320B	Sutcliffe, Bethany L	BLS
SM20 SM 2330B	Pistole, Maria	MP
SM18 SM 2540C	Harmon, Kelly	KH
SM18 SM 4500 CN E	Sutcliffe, Bethany L	BLS
SM19 SM 4500 H+ B	Harmon, Kelly	KH
SM20 SM 4500B	Sutcliffe, Bethany L	BLS

SAMPLE SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1
Sdg Number: Town of East Fishkill

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-62629-1	TW-11	Drinking Water	01/10/2013 1115	01/10/2013 1210

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1
Sdg Number: Town of East Fishkill

Client Sample ID: TW-11

Lab Sample ID: 420-62629-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1115
Date Received: 01/10/2013 1210

524.2 Purgeable Organic Compounds in Water by GC/MS

Method:	524.2	Analysis Batch: 420-62700	Instrument ID: Agilent 7890A/5975C
Preparation:	N/A		Lab File ID: X011513.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	01/15/2013 1519		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	<0.500		0.500
1,1,1-Trichloroethane	<0.500		0.500
1,1,2,2-Tetrachloroethane	<0.500		0.500
1,1,2-Trichloroethane	<0.500		0.500
1,1-Dichloroethane	<0.500		0.500
1,1-Dichloroethene	<0.500		0.500
1,1-Dichloropropene	<0.500		0.500
1,2,3-Trichlorobenzene	<0.500		0.500
1,2,3-Trichloropropane	<0.500		0.500
1,2,4-Trichlorobenzene	<0.500		0.500
1,2,4-Trimethylbenzene	<0.500		0.500
1,2-Dichloroethane	<0.500		0.500
1,2-Dichlorobenzene	<0.500		0.500
1,2-Dichloropropane	<0.500		0.500
1,3-Dichloropropane	<0.500		0.500
1,4-Dichlorobenzene	<0.500		0.500
2,2-Dichloropropane	<0.500		0.500
Benzene	<0.500		0.500
Bromobenzene	<0.500		0.500
Bromochloromethane	<0.500		0.500
Bromomethane	<0.500		0.500
n-Butylbenzene	<0.500		0.500
cis-1,2-Dichloroethene	<0.500		0.500
cis-1,3-Dichloropropene	<0.500		0.500
Carbon tetrachloride	<0.500		0.500
Chlorobenzene	<0.500		0.500
Chloroethane	<0.500		0.500
Chloromethane	<0.500		0.500
Dibromomethane	<0.500		0.500
Ethylbenzene	<0.500		0.500
Dichlorodifluoromethane	<0.500		0.500
Hexachlorobutadiene	<0.500		0.500
Isopropylbenzene	<0.500		0.500
p-Isopropyltoluene	<0.500		0.500
Methylene Chloride	<0.500		0.500
m-Xylene & p-Xylene	<0.500		0.500
Methyl tert-butyl ether	<0.500		0.500
o-Xylene	<0.500		0.500
Tetrachloroethene	<0.500		0.500
Toluene	<0.500		0.500
trans-1,2-Dichloroethene	<0.500		0.500
trans-1,3-Dichloropropene	<0.500		0.500
Trichloroethene	<0.500		0.500
tert-Butylbenzene	<0.500		0.500

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1
Sdg Number: Town of East Fishkill

Client Sample ID: TW-11

Lab Sample ID: 420-62629-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1115
Date Received: 01/10/2013 1210

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2 Analysis Batch: 420-62700 Instrument ID: Agilent 7890A/5975C
Preparation: N/A Lab File ID: X011513.D
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 01/15/2013 1519 Final Weight/Volume: 5 mL
Date Prepared: N/A

Analyte	Result (ug/L)	Qualifier	RL
Trichlorofluoromethane	<0.500		0.500
Vinyl chloride	<0.500		0.500
Xylenes, Total	<0.500		0.500
Styrene	<0.500		0.500
sec-Butylbenzene	<0.500		0.500
1,3,5-Trimethylbenzene	<0.500		0.500
N-Propylbenzene	<0.500		0.500
1,3-Dichlorobenzene	<0.500		0.500
2-Chlorotoluene	<0.500		0.500
4-Chlorotoluene	<0.500		0.500

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	71 - 112
Toluene-d8 (Surr)	116	79 - 121
1,2-Dichloroethane-d4 (Surr)	120	70 - 128

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1
Sdg Number: Town of East Fishkill**Client Sample ID: TW-11**Lab Sample ID: 420-62629-1
Client Matrix: Drinking WaterDate Sampled: 01/10/2013 1115
Date Received: 01/10/2013 1210**200.7 Rev 4.4 ICP Metals by 200.7**

Method:	200.7 Rev 4.4	Analysis Batch: 420-62709	Instrument ID:	None
Preparation:	200	Prep Batch: 420-62637	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	mL
Date Analyzed:	01/15/2013 1648		Final Weight/Volume:	50 mL
Date Prepared:	01/14/2013 1051			

Analyte	Result (ug/L)	Qualifier	RL
Iron	4520	g	60.0
Manganese	904	g	10.0
Sodium	18900		200
Zinc	<20.0		20.0

200.8 ICPMS Metals by 200.8

Method:	200.8	Analysis Batch: 420-62666	Instrument ID:	Perkin Elmer ELAN
Preparation:	200	Prep Batch: 420-62637	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	mL
Date Analyzed:	01/14/2013 1459		Final Weight/Volume:	50 mL
Date Prepared:	01/14/2013 1051			

Analyte	Result (ug/L)	Qualifier	RL
Pb	<1.00		1.00
Arsenic	1.42		1.40
Beryllium	<0.300		0.300
Cadmium	<1.00		1.00
Chromium	<7.00		7.00
Nickel	1.37		0.500
Antimony	<0.400		0.400
Thallium	<0.300	*	0.300
Barium	43.5		2.00
Selenium	<2.00		2.00

245.1 Mercury in Water by CVAA

Method:	245.1	Analysis Batch: 420-62768	Instrument ID:	Perkin Elmer FIMS
Preparation:	245.1	Prep Batch: 420-62740	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	25 mL
Date Analyzed:	01/17/2013 1437		Final Weight/Volume:	25 mL
Date Prepared:	01/17/2013 0955			

Analyte	Result (ug/L)	Qualifier	RL
Hg	<0.200		0.200

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1
Sdg Number: Town of East Fishkill

Client Sample ID: TW-11

Lab Sample ID: 420-62629-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1115
Date Received: 01/10/2013 1210

SM 2340B Hardness by Calculation

Method:	SM 2340B	Analysis Batch: 420-62714	Instrument ID:	None
Preparation:	N/A		Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	
Date Analyzed:	01/15/2013 1648		Final Weight/Volume:	
Date Prepared:	N/A			

Analyte	Result (mg/L)	Qualifier	RL
Calcium hardness as calcium carbonate	188		1.25

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1
Sdg Number: Town of East Fishkill

General Chemistry

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1
Sdg Number: Town of East Fishkill

General Chemistry

Client Sample ID: TW-11

Lab Sample ID: 420-62629-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1115
Date Received: 01/10/2013 1210

Analyte	Result	Qual	Units	Dil	Method
Apparent Color	100		Color Units	1.0	2120B
	Anly Batch: 420-62606	Date Analyzed	01/11/2013 1041		
Langelier Index	-0.400		NONE	1.0	SM 2330B
	Anly Batch: 420-62807	Date Analyzed	01/18/2013 1637		

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1
Sdg Number: Town of East Fishkill

General Chemistry

Client Sample ID: TW-11

Lab Sample ID: 420-62629-1
Client Matrix: Drinking Water

Date Sampled: 01/10/2013 1115
Date Received: 01/10/2013 1210

Analyte	Result	Qual	Units	RL	Dil	Method
Alkalinity	176		mg/L	5.00	1.0	SM 2320B
	Anly Batch: 420-62799	Date Analyzed	01/18/2013 1209			
Total Dissolved Solids	308		mg/L	5.00	1.0	SM 2540C
	Anly Batch: 420-62645	Date Analyzed	01/14/2013 1530			
Fluoride	<0.500		mg/L	0.500	1.0	300.0
	Anly Batch: 420-62584	Date Analyzed	01/10/2013 1817			
Sulfate	35.1		mg/L	10.0	2.0	300.0
	Anly Batch: 420-62648	Date Analyzed	01/11/2013 1706			
Chloride	61.3		mg/L	30.0	20	300.0
	Anly Batch: 420-62648	Date Analyzed	01/11/2013 1719			
Nitrate as N	0.490		mg/L	0.250	1.0	300.0
	Anly Batch: 420-62584	Date Analyzed	01/10/2013 1817			
Cyanide, Total	<0.00500		mg/L	0.00500	1.0	SM 4500 CN E
	Anly Batch: 420-62744	Date Analyzed	01/16/2013 1415			
	Prep Batch: 420-62635	Date Prepared:	01/11/2013 1000			
Turbidity	50.8		NTU	0.100	1.0	SM 2130B
	Anly Batch: 420-62605	Date Analyzed	01/11/2013 1140			
Odor	2.00		T.O.N.	1.00	1.0	SM 2150B
	Anly Batch: 420-62628	Date Analyzed	01/11/2013 1541			
Temp @ Odor Measurement	60.0		Degrees C	5.00	1.0	SM 2150B
	Anly Batch: 420-62628	Date Analyzed	01/11/2013 1541			
pH	7.21	H	SU	0.200	1.0	SM 4500 H+ B
	Anly Batch: 420-62597	Date Analyzed	01/10/2013 1628			
Temp @ pH Measurement	18.1		Degrees C	5.00	1.0	SM 4500 H+ B
	Anly Batch: 420-62597	Date Analyzed	01/10/2013 1628			
Nitrite as N	<0.0100		mg/L	0.0100	1.0	SM 4500B
	Anly Batch: 420-62633	Date Analyzed	01/11/2013 1400			

DATA REPORTING QUALIFIERS

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1
Sdg Number: Town of East Fishkill

Lab Section	Qualifier	Description
Metals	*	LCS or LCSD exceeds the control limits
	g	Result fails applicable NYS drinking water standards
General Chemistry	H	Sample was prepped or analyzed beyond the specified holding time

Definitions and Glossary

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1

Sdg Number: Town of East Fishkill

<u>Abbreviation</u>	<u>These commonly used abbreviations may or may not be present in this report.</u>
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

CHAIN OF CUSTODY

REPORT# (Lab Use Only)

121029

PROJECT REFERENCE: Ed SMK11		PROJECT NO.	PROJECT LOCATION	MATRIX TYPE	REQUIRED ANALYSES		PAGE 1 of 1																								
ENVIROTEST PROJECT MANAGER: Debra Bayer		P.O. NUMBER	TOWN	COMPOSITE (C) OR GRAB (G) INDICATE	<table border="1"> <tr><td>Total Containers</td><td></td></tr> <tr><td>40ml Vials HCL</td><td></td></tr> <tr><td>40ml Sodium Thio.</td><td></td></tr> <tr><td>Liter Amber Sodium Thio.</td><td></td></tr> <tr><td>Liter Amber HCl/Na2SO3</td><td></td></tr> <tr><td>250ml Plastic Nitric Acid</td><td></td></tr> <tr><td>80ml Mon/Sod.Thio(Liquid)</td><td></td></tr> <tr><td>Liter Plastic</td><td></td></tr> <tr><td>250ml Plastic Sodium Hyd.</td><td></td></tr> <tr><td>125ml Plastic Sterile</td><td></td></tr> <tr><td>Liter Plastic Nitric</td><td></td></tr> <tr><td>40ml vials Unpres</td><td></td></tr> </table>		Total Containers		40ml Vials HCL		40ml Sodium Thio.		Liter Amber Sodium Thio.		Liter Amber HCl/Na2SO3		250ml Plastic Nitric Acid		80ml Mon/Sod.Thio(Liquid)		Liter Plastic		250ml Plastic Sodium Hyd.		125ml Plastic Sterile		Liter Plastic Nitric		40ml vials Unpres		TURNAROUND TIME
Total Containers																															
40ml Vials HCL																															
40ml Sodium Thio.																															
Liter Amber Sodium Thio.																															
Liter Amber HCl/Na2SO3																															
250ml Plastic Nitric Acid																															
80ml Mon/Sod.Thio(Liquid)																															
Liter Plastic																															
250ml Plastic Sodium Hyd.																															
125ml Plastic Sterile																															
Liter Plastic Nitric																															
40ml vials Unpres																															
CLIENT (SITE) PM: LBG, Inc.		CLIENT PHONE: 203-929-8555	CLIENT FAX	AQUEOUS (WATER)	NUMBER OF CONTAINERS SUBMITTED		NORMAL <input checked="" type="checkbox"/>																								
CLIENT NAME: Stacey Steiber				D (Drinking Water) or W (Waste Water) Indicate	8	3	QUICK																								
CLIENT ADDRESS: 4 Research Drive, Suite 301, Shelton, CT 06484				SOLID OR SEMISOLID	1	3	VERBAL																								
COMPANY CONTRACTING THIS WORK (If applicable)				OTHER Specify	1	1																									
SAMPLE DATE: 11/13		SAMPLE IDENTIFICATION: TW-11			<table border="1"> <tr><td>Metals I (As, Ba, Cd, Cr, Hg, Se)</td><td></td></tr> <tr><td>Metals II (Sb, Be, Ni, Tl)</td><td></td></tr> <tr><td>Cu, F, Sulfate, 524.2 (POC, MTBE, Vinyl Chloride)</td><td></td></tr> <tr><td>Additional Tests (Nitrate to Zinc)</td><td></td></tr> </table>		Metals I (As, Ba, Cd, Cr, Hg, Se)		Metals II (Sb, Be, Ni, Tl)		Cu, F, Sulfate, 524.2 (POC, MTBE, Vinyl Chloride)		Additional Tests (Nitrate to Zinc)		REMARKS																
Metals I (As, Ba, Cd, Cr, Hg, Se)																															
Metals II (Sb, Be, Ni, Tl)																															
Cu, F, Sulfate, 524.2 (POC, MTBE, Vinyl Chloride)																															
Additional Tests (Nitrate to Zinc)																															
RELINQUISHED BY: (SIGNATURE)		COMPANY: LBG	DATE: 11/13	TIME: 1210	RECEIVED BY: (SIGNATURE)	COMPANY	DATE																								
SAMPLED BY: (SIGNATURE)		COMPANY: LBG	DATE: 11/13	TIME: 1115	RECEIVED BY: (SIGNATURE)	COMPANY	DATE																								
RELINQUISHED BY: (SIGNATURE)		COMPANY	DATE	TIME	RECEIVED BY: (SIGNATURE)	COMPANY	DATE																								
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE: 11/10	TIME: 1210	CUSTODY INTACT YES/NO	Cooler Temp.: 7.6	LABORATORY REMARKS: ICE _____ pH _____ Cl2 _____ Renewed by _____																									

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62629-1
Sdg Number: Town of East Fishkill

Login Number: 62629

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	7.6 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

BEDROCK WELL 1

JANUARY 11, 2013

ANALYTICAL REPORT

Job Number: 420-62669-1
SDG Number: East Fishkill, NY
Job Description: LBG, Inc.

For:
Leggette, Brashears & Graham, Inc.
4 Research Drive
Shelton, CT 06464

Attention: Stacy Stieber



Debra Bayer
Customer Service Manager
dbayer@envirotestlaboratories.com
01/17/2013

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NELAP Accredited, NYSDOH 10142, NJDEP NY015, CTDOH PH-0554, EPA NY00049.

METHOD SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62669-1
Sdg Number: East Fishkill, NY

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Purgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2	

Lab References:

EnvTest = EnviroTest

Method References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

METHOD / ANALYST SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62669-1
Sdg Number: East Fishkill, NY

Method	Analyst	Analyst ID
EPA-DW 524.2	Andersen, Eric C	ECA

SAMPLE SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62669-1
Sdg Number: East Fishkill, NY

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-62669-1	BDRX Well 1	Drinking Water	01/11/2013 1000	01/11/2013 1038

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62669-1

Sdg Number: East Fishkill, NY

Client Sample ID: BDRX Well 1

Lab Sample ID: 420-62669-1

Date Sampled: 01/11/2013 1000

Client Matrix: Drinking Water

Date Received: 01/11/2013 1038

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2

Analysis Batch: 420-62700

Instrument ID: Agilent 7890A/5975C

Preparation: N/A

Lab File ID: X011516.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 01/15/2013 1641

Final Weight/Volume: 5 mL

Date Prepared: N/A

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	<0.500		0.500
1,1,1-Trichloroethane	<0.500		0.500
1,1,2,2-Tetrachloroethane	<0.500		0.500
1,1,2-Trichloroethane	<0.500		0.500
1,1-Dichloroethane	<0.500		0.500
1,1-Dichloroethene	<0.500		0.500
1,1-Dichloropropene	<0.500		0.500
1,2,3-Trichlorobenzene	<0.500		0.500
1,2,3-Trichloropropane	<0.500		0.500
1,2,4-Trichlorobenzene	<0.500		0.500
1,2,4-Trimethylbenzene	<0.500		0.500
1,2-Dichloroethane	<0.500		0.500
1,2-Dichlorobenzene	<0.500		0.500
1,2-Dichloropropane	<0.500		0.500
1,3-Dichloropropane	<0.500		0.500
1,4-Dichlorobenzene	<0.500		0.500
2,2-Dichloropropane	<0.500		0.500
Benzene	<0.500		0.500
Bromobenzene	<0.500		0.500
Bromochloromethane	<0.500		0.500
Bromomethane	<0.500		0.500
n-Butylbenzene	<0.500		0.500
cis-1,2-Dichloroethene	<0.500		0.500
cis-1,3-Dichloropropene	<0.500		0.500
Carbon tetrachloride	<0.500		0.500
Chlorobenzene	<0.500		0.500
Chloroethane	<0.500		0.500
Chloromethane	<0.500		0.500
Dibromomethane	<0.500		0.500
Ethylbenzene	<0.500		0.500
Dichlorodifluoromethane	<0.500		0.500
Hexachlorobutadiene	<0.500		0.500
Isopropylbenzene	<0.500		0.500
p-Isopropyltoluene	<0.500		0.500
Methylene Chloride	0.669		0.500
m-Xylene & p-Xylene	<0.500		0.500
Methyl tert-butyl ether	<0.500		0.500
o-Xylene	<0.500		0.500
Tetrachloroethene	<0.500		0.500
Toluene	<0.500		0.500
trans-1,2-Dichloroethene	<0.500		0.500
trans-1,3-Dichloropropene	<0.500		0.500
Trichloroethene	<0.500		0.500
tert-Butylbenzene	<0.500		0.500

Analytical Data

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62669-1
Sdg Number: East Fishkill, NY

Client Sample ID: BDRX Well 1

Lab Sample ID: 420-62669-1
Client Matrix: Drinking Water

Date Sampled: 01/11/2013 1000
Date Received: 01/11/2013 1038

524.2 Purgeable Organic Compounds in Water by GC/MS

Method: 524.2 Analysis Batch: 420-62700 Instrument ID: Agilent 7890A/5975C
Preparation: N/A Lab File ID: X011516.D
Dilution: 1.0 Initial Weight/Volume: 5 mL
Date Analyzed: 01/15/2013 1641 Final Weight/Volume: 5 mL
Date Prepared: N/A

Analyte	Result (ug/L)	Qualifier	RL
Trichlorofluoromethane	<0.500		0.500
Vinyl chloride	<0.500		0.500
Xylenes, Total	<0.500		0.500
Styrene	<0.500		0.500
sec-Butylbenzene	<0.500		0.500
1,3,5-Trimethylbenzene	<0.500		0.500
N-Propylbenzene	<0.500		0.500
1,3-Dichlorobenzene	<0.500		0.500
2-Chlorotoluene	<0.500		0.500
4-Chlorotoluene	<0.500		0.500
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	103		71 - 112
Toluene-d8 (Surr)	114		79 - 121
1,2-Dichloroethane-d4 (Surr)	120		70 - 128

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
-------------	-----------	-------------

Definitions and Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

EnviroTest Laboratories Inc.

CHAIN OF CUSTODY

315 Fullerton Avenue
Newburgh, NY 12550
TEL (845) 562-0890
FAX (845) 562-0841

CUSTOMER NAME
LBG, Inc.

ADDRESS
4 Research Dr. Suite 301

CITY, STATE, ZIP
Shelton, CT 06484

NAME OF CONTACT
Shawn Sluder

PHONE NO.
203-929-8555

PROJECT LOCATION
East Fishkill, NY

PROJECT NUMBER / PO NO.

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.

REPORT TYPE

STANDARD ISRA

NY REG A B CLP

NYASP OTHER _____

TURNAROUND

NORMAL

QUICK _____

VERBAL _____

Matrix
 WW = WASTE WATER DW = DRINKING WATER S = SOIL O = OIL
 SL = SLUDGE GW = GROUND WATER

REPORT # (Lab Use Only)
62669

SAMPLE TEMP **4.8**

SAMPLE REC'D ON ICE Y N

pH CHECK Y N

CHLORINE (RESIDUAL) Y N

REVIEWED BY: _____

NY PUBLIC WATER SUPPLIES

SOURCE ID _____

ELAP TYPE _____

FEDERAL ID _____

ANALYSIS REQUESTED
SDA 2 and MTBE + Chloride

ETL #	SAMPLING DATE	TIME	TEMP	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL	Liter Amber HCL	250ml Amber Sulfuric	Liter Amber Organic Washed	250ml Plastic Nitric Acid	250ml Plastic Sodium Hydroxide	Liter Plastic	250ml Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Sterile	250ml Plastic NAOH/ZN ACC	40ml Glass Sulfuric	40ml Glass	DO	
1	11/13	10:38	10°C	DW	Box Well 1	3	X														

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECT TO THE ETL TERMS AND CONDITIONS OF SALE UNLESS ALTERNATE TERMS ARE AGREED IN WRITING.

RELINQUISHED BY: *[Signature]* COMPANY: **LBG** DATE: **11/13** TIME: **10:38** RECEIVED BY: _____ COMPANY: _____ DATE: _____ TIME: _____

SAMPLED BY: *[Signature]* COMPANY: **LBG** DATE: **11/13** TIME: **10:38** RECEIVED BY: *[Signature]* COMPANY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: *[Signature]* COMPANY: _____ DATE: _____ TIME: _____

COMMENTS

NYS DOH 10142 NDEP NY015 CT DOPH PH-0554 EPA NY00049

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-62669-1
Sdg Number: East Fishkill, NY

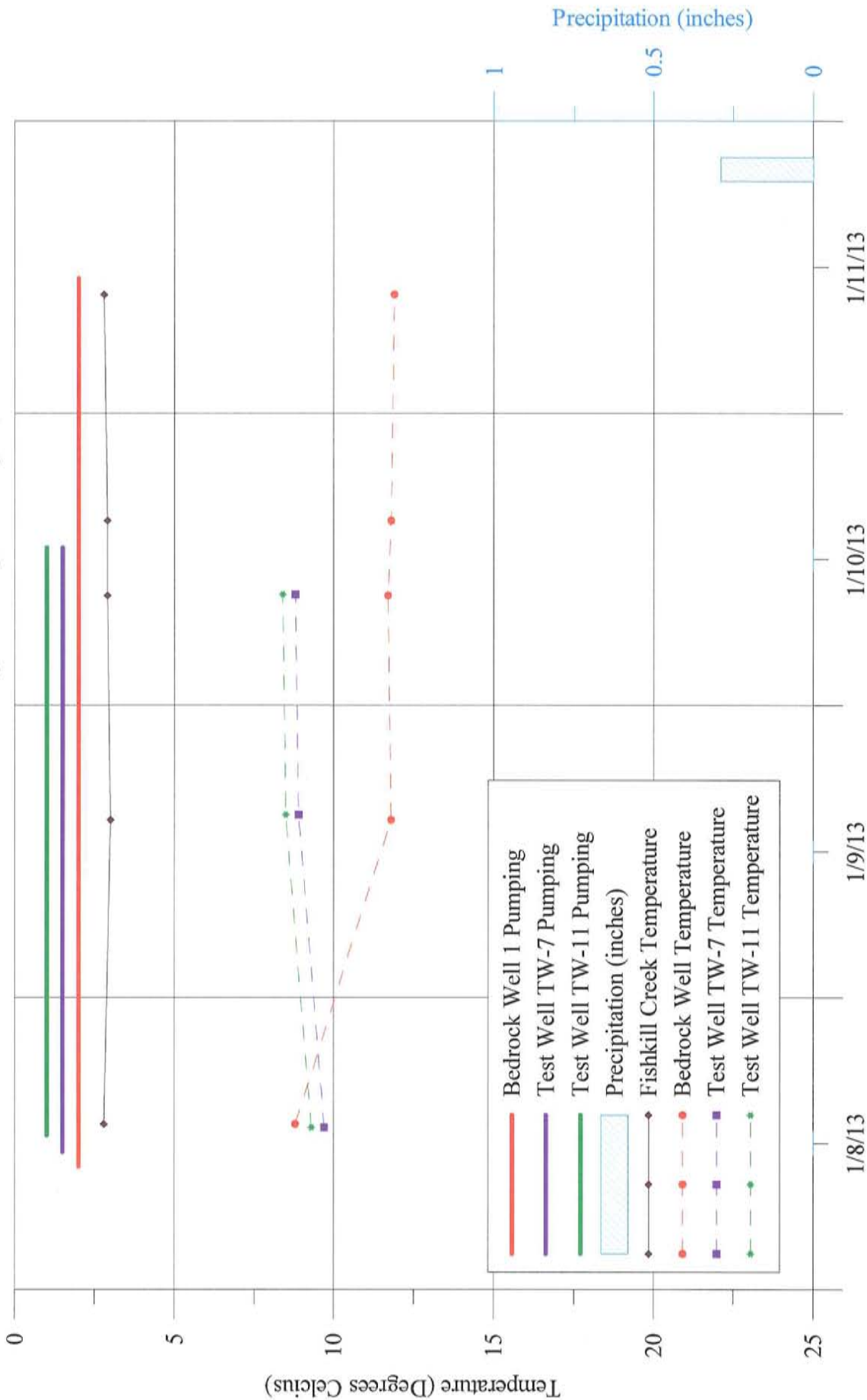
Login Number: 62669

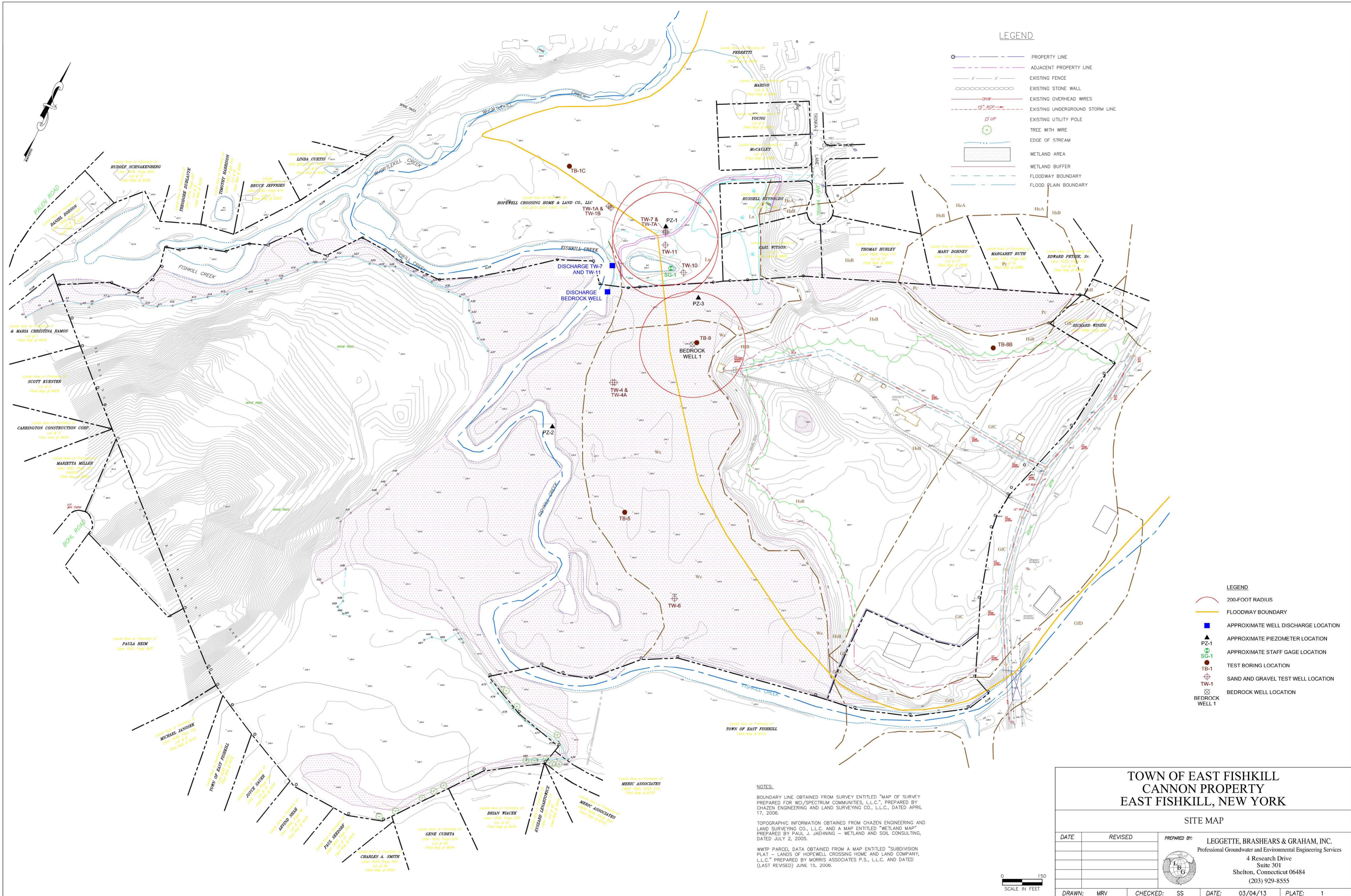
Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	4.8 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

APPENDIX VIII

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK YORK**

Graph of Temperature Measurements Collected from Bedrock Well 1, TW-7, TW-11 and Fishkill Creek During 72-Hour Pumping Test Conducted on Bedrock Well 1 and 48-Hour Pumping Test on Test Wells TW-7 and TW-11, January 8 Through January 11, 2013





LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING FENCE
- EXISTING STONE WALL
- EXISTING OVERHEAD WIRES
- EXISTING UNDERGROUND STORM LINE
- EXISTING UTILITY POLE
- TREE WITH WIRE
- EDGE OF STREAM
- WETLAND AREA
- WETLAND BUFFER
- FLOODWAY BOUNDARY
- FLOOD PLAIN BOUNDARY

LEGEND

- 200-FOOT RADIUS
- FLOODWAY BOUNDARY
- APPROXIMATE WELL DISCHARGE LOCATION
- APPROXIMATE PIEZOMETER LOCATION
- APPROXIMATE STAFF GAGE LOCATION
- TEST BORING LOCATION
- SAND AND GRAVEL TEST WELL LOCATION
- BEDROCK WELL LOCATION

NOTES:

BOUNDARY LINE OBTAINED FROM SURVEY ENTITLED "MAP OF SURVEY PREPARED FOR WCI/SPECTRUM COMMUNITIES, L.L.C.", PREPARED BY CHAZEN ENGINEERING AND LAND SURVEYING CO., L.L.C., DATED APRIL 17, 2006.

TOPOGRAPHIC INFORMATION OBTAINED FROM CHAZEN ENGINEERING AND LAND SURVEYING CO., L.L.C. AND A MAP ENTITLED "WETLAND MAP" PREPARED BY PAUL J. JAEHNING - WETLAND AND SOIL CONSULTING, DATED JULY 2, 2005.

WWTP PARCEL DATA OBTAINED FROM A MAP ENTITLED "SUBDIVISION PLAT - LANDS OF HOPEWELL CROSSING HOME AND LAND COMPANY, L.L.C." PREPARED BY MORRIS ASSOCIATES P.S., L.L.C. AND DATED (LAST REVISED) JUNE 15, 2006.

**TOWN OF EAST FISHKILL
CANNON PROPERTY
EAST FISHKILL, NEW YORK**

SITE MAP

DATE	REVISED	PREPARED BY:	LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Groundwater and Environmental Engineering Services 4 Research Drive Suite 301 Shelton, Connecticut 06484 (203) 929-8555
DRAWN: MRV	CHECKED: SS	DATE: 03/04/13	PLATE: 1

