Appendix E

Water Supply Report

Raleigh and Heiden Properties Water Supply Report

Raleigh Heiden Properties Development
Heiden Road
Town of Fallsburg, Sullivan County, New York

Prepared for:

Town of Fallsburg Planning Board
Town of Fallsburg Town Hall
5250 Main Street
South Fallsburg, New York

Prepared by:

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June 20, 2011

RALEIGH AND HEIDEN PROPERTIES WATER SUPPLY REPORT
Heiden Road, Town of Fallsburg, New York

TABLE OF CONTENTS **PAGE**

1.0 INTRODUCTION

This report was prepared to summarize the results of a groundwater study conducted in September of 2009, associated with the proposed Raleigh and Heiden Properties development. The proposed development is located on 196.9 acres, in the Town of Fallsburg, Sullivan County, New York.

This report examines the potential for the property to supply sufficient water for the proposed residential development. Five (5) wells have been drilled and tested for use as production wells as part of a community water supply system. The subsequent testing is detailed below. The proposed project includes 236 single family homes and duplex units, however, only 181 units will be supplied by the proposed community water supply service. The remaining 55 units are located within the Town of Fallsburg public water supply district and therefore these units will be supplied water from that district.

The project water demand estimate was reviewed by the New York State Department of Health (NYSDOH) via a Pump Test Protocol letter dated June 15, 2009, attached in Appendix A. This letter explained that 181 units from the proposed development would be requiring water from an onsite community water supply system. These homes are proposed to be 4-bedroom single family homes and duplex units requiring 380 gallons per day (gpd) each. A letter dated June 30, 2009, from the NYSDOH concurred that 380 gpd would be sufficient for the single family homes and duplex units, however the NYSDOH requires that the pump test prove 1.5 times the average daily demand with the best well out of service. The average daily demand has been calculated to be 72,000 gallons per day or 50 gallons per minute (gpm). Therefore, the pump test must prove at least 75 gpm, which is 1.5 times the average daily demand, with the best well out of service.

As part of the preparation for the pumping test the existing wells were inspected, these wells were not drilled with the oversite of SSEC or TMA. SSEC deduced that Well-3 should be drilled deeper to provide greater yield. This well was drilled deeper taking the final depth from 375 feet below the ground surface to 600 feet below the ground surface. Five wells that had recently been drilled were used during the pump test; Well-1, Well-2, Well-3, Well-4 and Well-4A.

Recharge Analysis

For purposes of this analysis, recharge has been calculated assuming the only source of water is the rainfall that falls on the site itself. The primary source of groundwater is precipitation which infiltrates through the surface of the ground and percolates into the water table. The majority of rainfall is "lost" to surface water runoff, shallow subsurface flow and evapotranspiration. Depending on the physical characteristics of the recharge area, between 15 and 40 percent of the annual precipitation typically recharges the local aquifer.

Evaluation of groundwater recharge with respect to a specific project or land use is usually done by comparing the projected water demand and the ability of the local watershed to recharge the aquifer. Generally, the groundwater table in an unconfined aquifer will loosely follow the surface topography of the land. Groundwater would be expected to flow from drainage boundaries, such as ridges, toward points topographically lower in the watershed. Groundwater in storage and recharge "collected" within the natural drainage basin area would be available to replenish or recharge the aquifer. Due in part to the anisotropic (irregular) nature of the bedrock aquifer or confined aquifer, however, only a portion of total basin recharge could

transmit water to any given pumping area. For example, heavily faulted and fractured bedrock zones are capable of transmitting larger quantities of water to recharge the bedrock aquifer than are less fractured zones.

The project site wells have been drilled into a confined aquifer and the site is likely underlain by a system of subsurface minor faults and fractures. The fractures, if tapped successfully, will potentially pick up recharge from a large area, including the area beneath the Sheldrake Stream. The faults and fractures that form the valleys surrounding the project site may extend for miles and intercept additional fractures well beyond the property. Precipitation falling anywhere within this area naturally drains towards the valleys from the higher elevations. As previously noted, between 15 and 40 percent of precipitation becomes groundwater through recharge and is potentially available to wells tapping these interconnected fractures. The following table provides an estimate of the amount of water available for recharge for only the subject property assuming 25 percent rate of precipitation recharge.

Table 1
Recharge Calculations

Acres	196.4
Square Feet	8,555,184
Average rainfall per year (inches) *	44.9
Average rainfall per year (feet)	3.74
Cubic feet of precipitation per year (on the property)	31,996,388
Gallons of precipitation per year	239,349,604
Amount lost to evapotranspiration and runoff (75%)	179,512,203
Amount, in gallons, available for recharge per year	59,837,401
Amount, in gallons, available for recharge per day	163,938
Amount, in gallons, available for recharge per minute	113.8
Source: Tim Miller Associates, Inc., * USDA Soil Survey of Sullivan County, Table 1	

This quantitative analysis of the recharge potential for the project site is only an estimate, since the recharge area for subject property could conceivably take into account an area that is considerably larger than the local watershed itself. The location, width, and the interconnection of fractures, all affect the amount of groundwater available in any given location.

Using a fairly conservative recharge rate of 25 percent (the percentage of precipitation available to recharge groundwater) results in about 163,938 gallons of recharge per day available from the site alone or 113.8 gallons per minute, which is more then the anticipated water demand of 75 gallons per minute with the best well out of service (assuming 1.5x the average daily demand which is 50 gpm). This recharge rate far exceeds the estimated project average water demand of 72,000 gallons per day.

2.0 GEOLOGY AND FRACTURE TRACE

The Fracture Trace of the Raleigh Hotel site in Fallsburg, NY, was completed using the United States Geologic Survey (USGS) digital elevation data combined with one foot orthoimagery and included in Appendix B. The project site is shown on Figure 1, Site Location Map. The data was processed in a geo-spatial software package. The database also includes existing aquifer and

geologic fault data from the New York State Museum archives.

The Fallsburg area is underlain by the Upper Devonian aged Walton formation, a unit primarily composed of shale, sandstone and conglomerate rock. The rock structure is generally flat lying to slightly inclined. Bedrock outcrops are not common except along road rock-cuts or on hill peaks, however, bedrock outcrops were observed on the property. The Walton formation, both the lower and the upper, has poor primary permeability but does have better than average secondary permeability since the rock units, other than the shale portion, contains a relatively low percentage of clay components (see Figure 2, Bedrock Geology). Therefore, wells that intercept bedrock fractures have somewhat higher yields than do average wells in other rock types. The NYS Museum data indicates that there are unconsolidated aquifer deposits (glacial outwash) in the area of the Raleigh Hotel but that there are no “aquifers” mapped in the area (see Figure 3 and 4). While drilling, an unconsolidated aquifer was not encountered.

The fracture trace map, shown in Appendix B, shows several areas that may contain significant fracturing and were considered to be suitable for well drilling. The central and southern portions of the property appear more heavily fractured and thus were the focus of the well drilling operations.

3.0 WELL DRILLING

The test wells for the Raleigh and Heiden Properties development project were drilled by Wm Fulton & Son Well Drilling under the supervision of the project developer. Initially, four (4) wells were drilled, Well-1, Well-2, Well-3 and Well-4. At a later date a fifth well was drilled (Well-4A) and Well-3 was deepened at TMA and SSECs request (see Figure 5, Well Location Map). Well logs were completed for each of the wells and can be found in Appendix C of this report. Table 2 summarizes well log information for the five water supply wells that were drilled on the property.

Table 2
Well Drilling Results

Well Number	Depth of Well (ft bgs)	Water Bearing Fractures (ft bgs)	Static Water Level (ft bgs)	Casing Depth	Preliminary Yields	Notes
Well-1	400	305, 340	40	50	15	
Well-2	600	225, 380, 530	40	42	16	
Well-3	375/600	320	15	40	20	Well deepened
Well-4	500	325, 465	60	42	30	
Well-4A	625	145, 510	60	50	13	

Notes:
ft bgs = feet below ground surface;
Source: Wm Fulton and Son Well Drilling Logs
Well logs are supplied in Appendix C

4.0 PRIVATE WELL MONITORING

Establishment of Off-Site Well Monitoring Locations

Mr. Will Illing the Town of Fallsburg Engineer aided in suggesting off-site homeonwers who should be included in the off-site monitoring program. Letters were sent to the private well owners requesting their permission to allow us to monitor their wells during the pumping test program. Eight (8) property owners received the letter and questionnaire, which was sent on August 13, 2009. Tim Miller Associates did not receive any reply letters. Phone calls were made to these property owners and no replies were received.

The Town of Fallsburg suggested extending the request to the Fallsburg Fishing and Boating Club, which owns property located approximately 1,200 feet from the closest well on the Raleigh and Heiden property. Mr. Jim Reynolds, the contact person for the Fishing and Boating Club, circulated the well monitoring request letters and questionnaires within the community. Two homeowners responded positively; Mr. Uhl and Mr. Bisnoff. The Bisnoff property is located on Lot 52 on the eastern side of Pleasure Lake and the Uhl well is located on Lot 26 on the western side of Pleasure Lake. Both wells are located directly adjacent to the lake. The homeowners agreed to allow their wells to be monitored just as the test was beginning therefore, no pretest data was collected from these wells. A copy of the letter and survey are attached in Appendix D, as well as a list of the recipients of the mailing. The loggers placed in the off-site homeowner wells were programmed to collect data every minute for the duration of the test. The data collected from the data loggers are shown in the attached graphs in Appendix E.

5.0 TEST PROCEDURE

The Raleigh and Heiden properties development will require wells that produce a total of 72,000 gpd or 50 gpm (average daily demand). As stated above the NYSDOH required that the pump test produce 1.5 times the average daily demand with the best well out of service, which would be 75 gpm with the best well out of service.

To meet the project water demand requirements, as described above, the five test wells were fitted with test pumps suitable for the expected well yields. Each well was also fitted with a digital data logger to collect water level, water temperature and specific conductivity information. The loggers were programmed to record the datum from each well at a frequency of one reading per minute, in the test wells, and one reading per hour in the offsite and onsite monitoring wells. All of the above monitoring points and test wells were fitted with digital data loggers.

The well testing was completed as a “stress” test in which the four primary test wells (Wells 1, 2, 3, and 4A) were pumped simultaneously for 72-hours. This test was started on September 3, 2009 and the pumps were shut off on September 6, 2009. The test was a constant rate test with the pumping rates based on the observed rates during drilling. It was determined that some adjustments were needed early during the test and the pumping rates were increased. Well-4, the primary well, or “best well”, was tested separately for 72 hours after a suitable recovery period of the primary test wells and the aquifer. This test was started on September 8, 2009 and the pump was shut off on September 11, 2009.

Private Well Monitoring

Two private wells, Bisnoff and Uhl wells, were monitored during the pumping test, see Figure 5 for the location of these residential lots. Both wells were located near the shore of Pleasure Lake located to the north of the Raleigh Hotel property. The monitoring results show that the Bisnoff well (lot 52) on the east shore was not impacted by the pumping test. The Uhl well, lot 26, on the west shore may have been affected by the pumping test. The data shows that there may have been as much as 7 feet of interference. Mr. Ken Uhl provided information on his well stating that the well was completed 310 feet below the ground surface and that the major water-bearing fracture is located at 210 feet below the ground surface and the yield of his well is 15 gpm. Based on observation of the data and information provided by Mr. Uhl in the questionnaire, the Uhl well appears to be a productive well and will not be adversely affected by the Raleigh wells. The Uhl and Bisnoff well charts are shown in Graphs 1 and 2 in Appendix E.

Wetland Monitoring

Two piezometer points were installed in the wetlands near Well 2 and Wells 4. Digital data loggers were installed in the piezometer points and used to monitor the wetland water levels and temperature of the water during the pumping test. The data shows that there does not appear to be a connection between the surface water, shallow groundwater and the bedrock ground water. The wetland monitoring charts are shown in Graphs 3 and 4 in Appendix E.

6.0 WATER QUALITY

A set of water quality samples was collected from the five (5) test wells, Well-1, Well-2, Well-3, Well-4 and Well-4A. The samples were transported (same day) in iced coolers to a New York State certified laboratory for analysis using the NYSDOH Subpart 5.1. In addition to the subpart 5.1 parameters, samples were also analyzed for Giardia, Cryptosporidium, and Microscopic Examination for Microorganisms (MPAs) in Well-1, Well-2, Well-4, and Well-4A. No biological materials were observed in any of the four wells tested. The results are provided in Appendix F. The Subpart 5.1 test analytical results meet all water quality standards except for Iron in Well-1, Well-2 and Well-4A as well as turbidity in Well-1 and Well-2. Within each of these wells iron and turbidity were found above the NYSDOH standard for drinking water. Sodium does not have a standard but more of a guidance value which reads; "Water containing more than 20 mg/L (or 20,000 ug/L) of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more then 270 mg/L (or 270,000 ug/L) should not be used for drinking by people on moderately restricted sodium diets". All of the wells sampled for this water supply report had sodium levels above the 20,000 ug/L value. The analytical reports and a table comparing the analytical results to standards is included in Appendix F.

7.0 WEATHER DURING TEST PERIOD

The weather during the pump test is shown in Graph 10, attached in Appendix E. The graph shows weather data from the Monitcello Airport. The pumping test was conducted September 3rd through the 11th, 2009. The weather was typical for that time of year, warm with occasional rain. Rain events occurred after the pumping test was completed on the 11th with 0.16 inches of precipitation recorded. There was no rain events recorded during the period of the pump test.

8.0 PUMPING TEST RESULTS

The combined primary well test produced a total of 75 gpm with the back-up well producing 35 gpm. All wells stabilized for greater than the required 6-hour period. The well graphs for the individual test data are shown in Graphs 5 through 9. The table below shows the pumping test results and stabilization of Well-1 through Well-4A.

Table 3
Pumping Test Results

Well Number	Test Rate (gpm)	Stabilized Drawdown	Stabilized Duration	Stabilization Range	Hourly Change	Saturated Well Depth	Test
1	15	85.59 to 85.45 ft.	39 hours	0.86 ft	0.22 ft/hr	360 ft	Primary
2	15	159.9 to 168.7 ft.	58.2 hours	8.8 ft	0.15 ft/hr	558 ft	Primary
3	30	109.7 to 110.5 ft.	39.3 hours	0.8 ft	0.02 ft/hr	335 ft	Primary
4	35	59.4 to 65.01 ft.	55 hours	5.6 ft	0.1 ft/hr	565 ft	Secondary (Best well)
4A	15	80.5 to 85.7 ft	42 hours	2.2 ft	0.05 ft/hr	558 ft	Primary

Source: SSEC Raleigh and Heiden Pump Test, September 3, 2009 to September 11, 2009.
gpm = gallons per minute

Groundwater Under the Influence of Surface Water Monitoring

The test wells were fitted with data loggers that measured water level data, temperature and conductivity. The resulting data are plotted in Graphs 5 through 9. Two of the test wells, Well-2 and Well-4, are located within 100 feet of small wetlands. A wetland monitoring point was installed in both wetlands and fitted with data loggers to measure surface water level and temperature. The wetland points were monitored during the test, as discussed above.

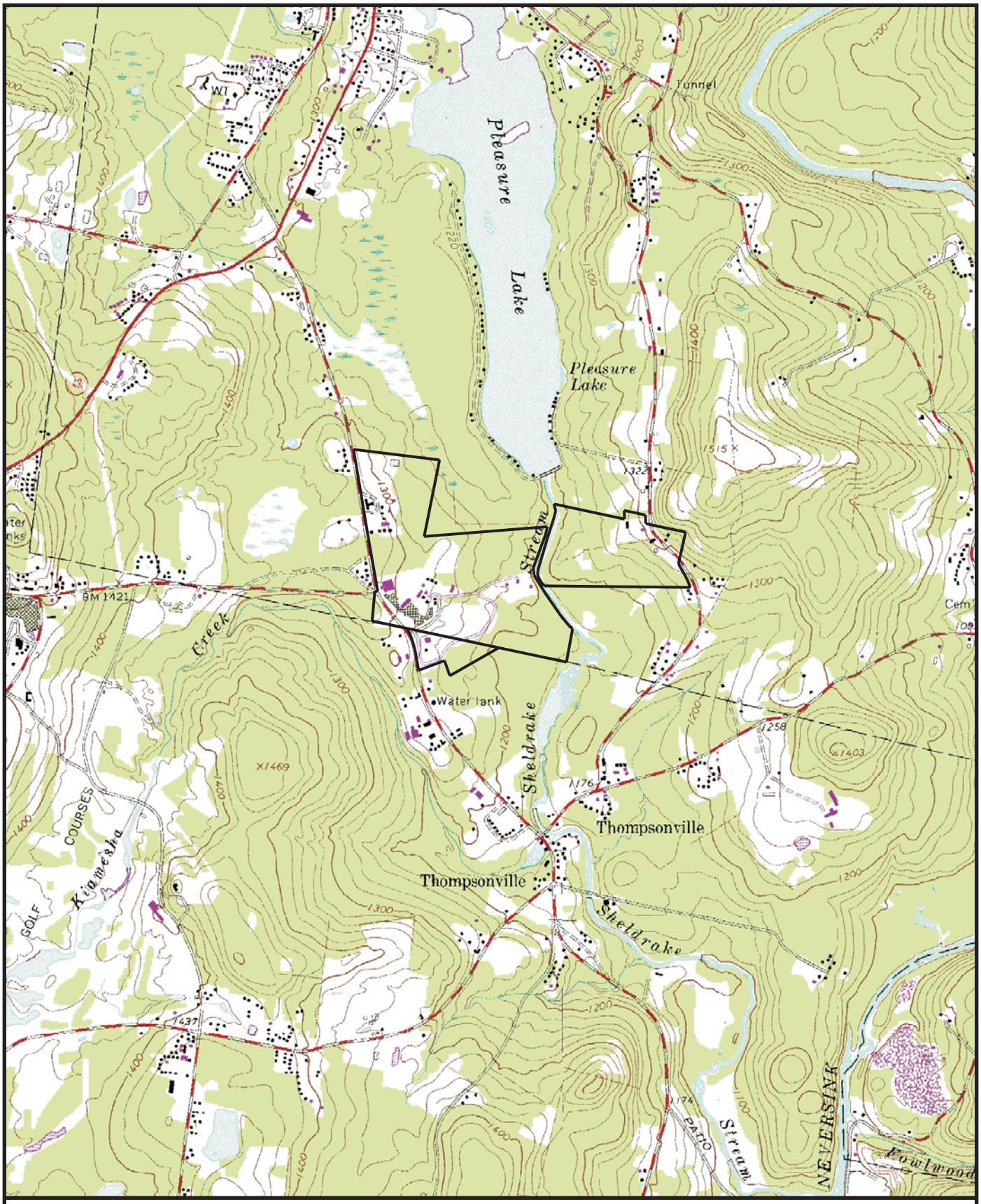
The conductivity data, as shown in Graphs 5 through 9 indicate variations in conductivity and temperature that appear to be related to the influence of the test pump and movement of water in the well but not related to possible infiltration of surface water towards the wells. Before the start of the pumping test the water in the well was relatively stagnant. Once the test starts the stagnant water is removed from the well and replaced by formation water that has had less exposure to oxygen. Additionally, the pump gives off considerable heat and raises the water temperature in the well. Therefore, the greatest changes in temperature and conductivity (conductivity levels are related to temperature) are found early in the test and at the end of the test when the pump is shut down and the residual pump heat is dispersed into still well water.

Changes related to surface water infiltration would appear as changes beyond those described above and are not evident in the charts. The wetland points appear to be affected by diurnal temperature and barometric pressure changes that also affect the shallow wetland water level. Since relatively little water is present in the wetlands, atmospheric temperature changes will cause the water temperature to change relatively quickly and thus cause increased evaporation. The wetland monitoring does not indicate that there is connection between the wetland and adjacent bedrock wells.

9.0 CONCLUSION

The production wells, Well-1 through Well 4A, completed for the Raleigh and Heiden Properties development are suitable for use as a community well system. The following conclusions can be made:

1. The project requires that a total of 72 gpm be proven, with the best well out of service. The pump test proved that the onsite wells can provide 75 gpm with the best well out of service.
2. The calculated recharge of the site is 113.8 gpm, which is larger then the anticipated 72 gpm needed from the production wells.
3. The subpart 5 analysis concluded that iron was found above the state standard in Well-1, Well-2, and Well-4A and turbidity was above the state standards in Well-1 and Well-2.
4. There was no connection observed between the test wells, Well-1 through Well-4A, with the Bisnoff Well on the east side of Pleasure Lake. There could be a connection between the Uhl well, located on the western portion of Pleasure Lake.
5. The a connection between the pumping test wells and the Uhl Well, north of the Raleigh and Heiden Properties site was shown in the logger information, see Graph 1. However, information provided by Mr. Ken Uhl on the questionnaire (Appendix D) shows the Uhl Well is 310 feet deep with a water-bearing fracture at approximately 210 feet below the ground surface. He also states that the well has yield of approximately 15 gpm, the drawdown in the Uhl well was approximately 7 feet from the static water level of the well (30 ft below the ground surface) leaving approximately 270 feet of water in the well. The well has sufficient water column in the well to avoid problems with water supply.
6. The fracture system tapped by the Raleigh and Heiden Properties wells are sufficiently productive to provide water for the proposed development. The future use of the Raleigh and Heiden Properties wells (Well-1 through Well-4A) should not adversely impact neighboring wells unless the neighboring wells are not sufficiently deep enough to sustain the additional drawdown. If water supply problems are experienced by Mr. Uhl or neighbors on the western side of Pleasure Lake, the applicant will work with the Town of Fallsburg to determine and confirm that the suspected impacts to the private wells were indeed caused by the Raleigh and Heiden Properties Development. If it is determined that the proposed development caused such impacts, the applicant will mitigate the neighbors' drinking water wells by either deepening the well or drilling a new well.



N
W E
S

LEGEND

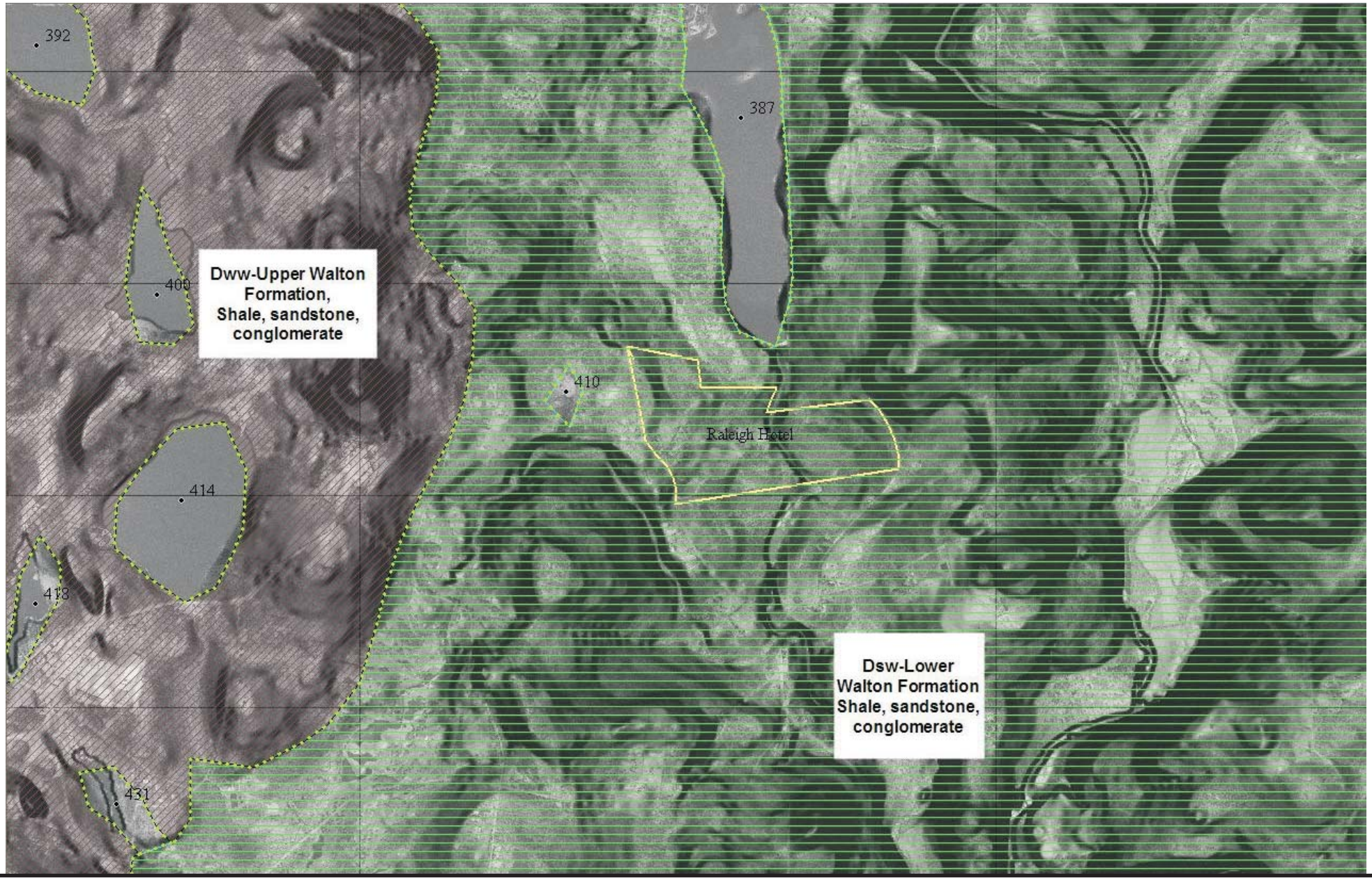
Site Property Boundary

Figure 1: Site Location Map

Raleigh and Heiden Properties
Town of Fallsburg, Sullivan County, New York
Base Map: USGS 7.5-minute Topographic Map, Monticello Quad, 2000
Scale: 1" = 2000'

File 09038 03/09/11
JS:\09038\

Tim Miller Associates, Inc.,10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418



N
W E
S

1000 ft 3000 ft 5000 ft 7000 ft

Figure 2: Bedrock Geology

Raleigh and Heiden Properties
Town of Fallsburg, Sullivan County, New York
Scale: As shown

File 09037 06/06/11
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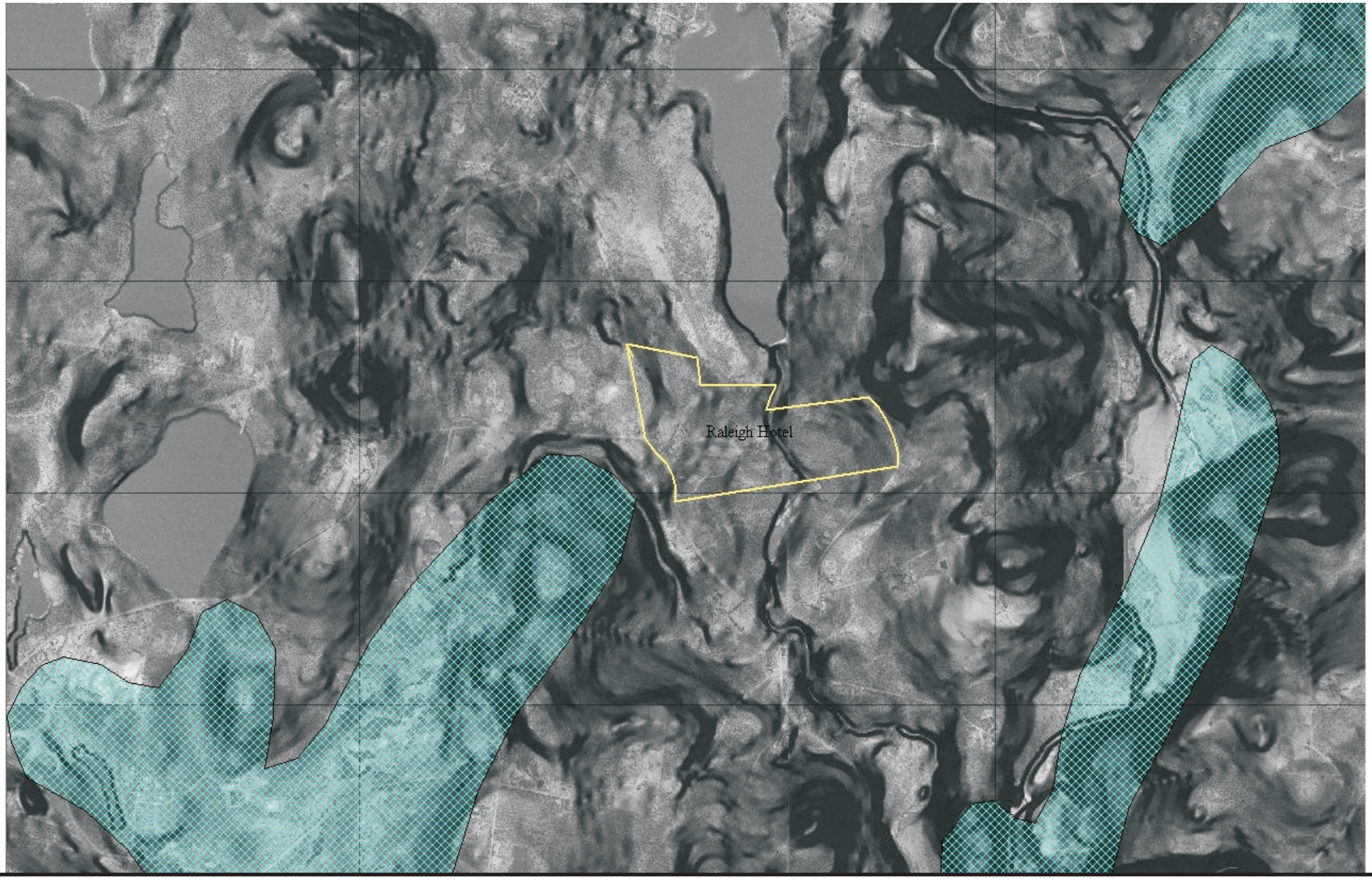

N
W E
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1000 ft 3000 ft 5000 ft 7000 ft

Figure 3: NYS Mapped Aquifers

Raleigh and Heiden Properties
Town of Fallsburg, Sullivan County, New York
Scale: As shown

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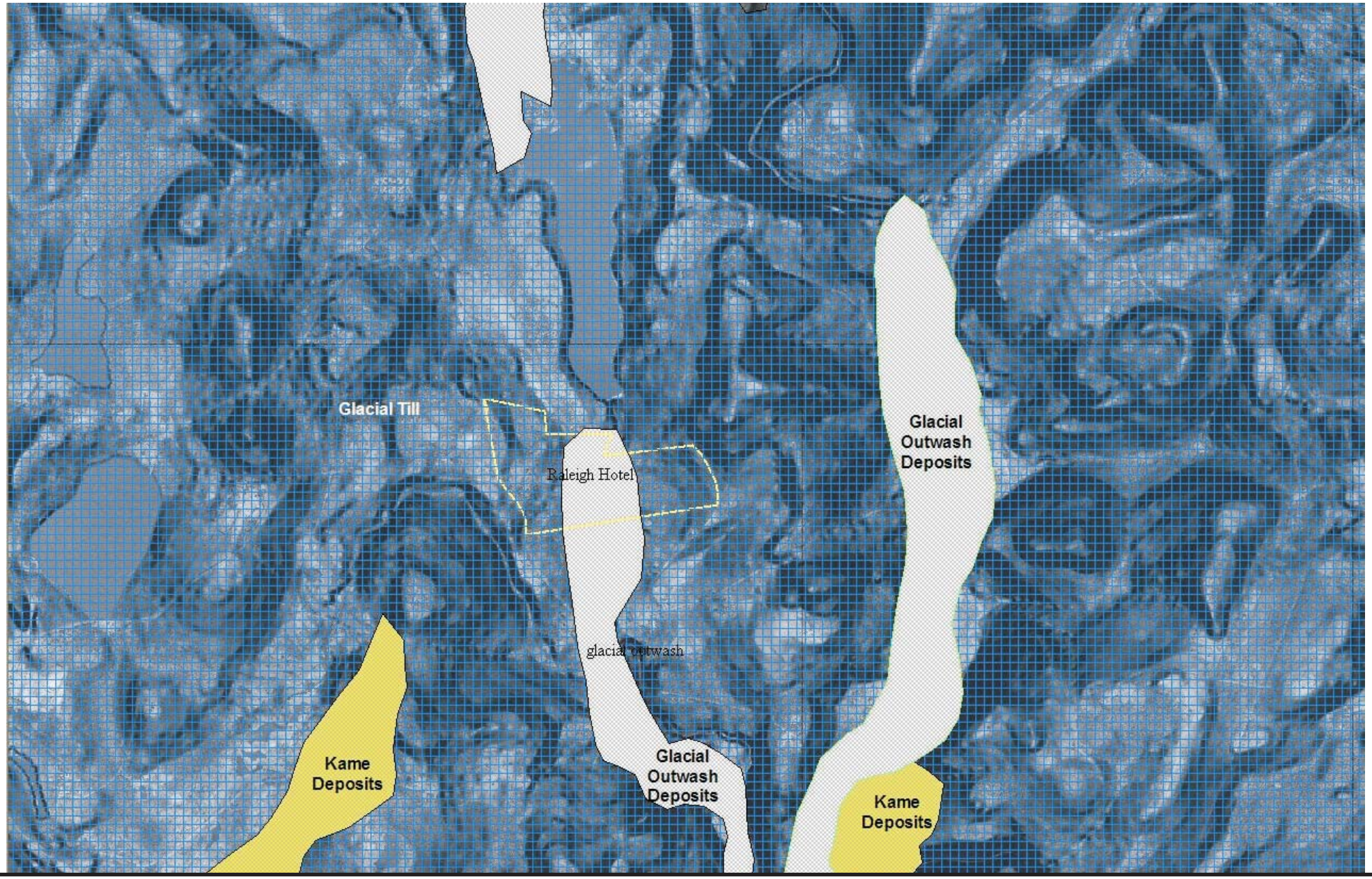

Figure 4: Surficial Deposits

Raleigh and Heiden Properties
Town of Fallsburg, Sullivan County, New York
Scale: As shown

File 09037 06/06/11
JS/09037

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Off-Site Wells

Uhl

Bisnoff

Pleasure Lake

TO: NYS ROUTE 42

IRS

5/8" IRF

5/8" IRS

EASEMENT MAP No. E-161-18 (R-1)

6" PVC PIPE

NYSDEC WETLAND

14" CPP
INV. IN=1326.5
INV. OUT=1325.5

55 Units
42-2F Units
13-SF Units

BUNGALOW

BUNGALOWS

USACOE WETLAND

Water District Boundary Line

30" Blazed Hemlock Tree

POINT OF BEGINNING

3/4" IPF

1200

1210

CLUSTER 4

TOWN ROAD NO. 62
PARK HOUSE ROAD

ABANDONED CMP

Open Recreation Area

1230

1220

1210

1280

16" CPP
INV. IN=1273.9
INV. OUT=1272.7

47 Units
28-2F Units
19-SF Units

Piezometer

W-1

W-2

EASEMENT MAP No. E-161-18 (R-1)

HIGHWAY APPROPRIATION MAP No. 161-18-B

KIAMESHA LAKE ROAD

COUNTY ROUTE 109

EASEMENT MAP NO. E-161-18-A

Tennis Courts

Pool

Parking

Raleigh Hotel Main Building

(2) 8" PIPES
(2) 8" PIPES 6" PIPE

SEWAGE TREATMENT PLANT

SHELDRAKE STREAM

W-3

W-4a

W-4

24" CMP
INV. IN=UNKNOWN
INV. OUT=1200.2

14" CMP
INV. IN=1200.0
INV. OUT=1201.8

Piezometer

5/8" IRF

Flodder Road

COUNTY ROUTE No. 161

(PAVED SURFACE)

TO: THOMPSONVILLE

EASEMENT MAP NO. E-161-16

3/8" IRF

USACOE WETLAND H

TOWN OF FALLSBURG

TOWN OF THOMPSON

1190

1180

FLOOD ZONE A

Legend

- Well
- Wetlands
- Wetlands peizometer

North

N

0 100 200 400

SCALE (IN FEET)

Figure 5: Well Location Map

Raleigh and Heiden Properties

Town of Fallsburg, Sullivan County, New York

Site Plan: Glenn L. Smith Consulting Engineer, P.C., 02/10/11

Scale: As shown

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Tim Miller Associates, Inc., 10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418

Appendix A

Correspondence

TIM
MILLER
ASSOCIATES, INC.

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10 North Street, Cold Spring, NY 10516 (845) 265-4400 265-4418 fax www.timmillerassociates.com

June 15, 2009

Mr. Will Illing
Town of Fallsburg Engineer
Town of Fallsburg, WWTP
PO Box 830
5410 State Route 42
South Fallsburg, New York 12779

Re: Well Testing Protocol for Raleigh Hotel Property
Town of Fallsburg

Dear Mr. Illing,

We are writing to provide a well testing protocol for the Raleigh Hotel project, Town of Fallsburg, New York. The protocol and testing procedures are intended to meet the requirements of the New York State Department of Conservation (NYSDEC) pumping test requirements and the New York State Department of Health (NYSDOH) requirements.

Objective

The purpose of the Raleigh Hotel pumping test is to determine if sufficient groundwater is available to the proposed project and to determine if the taking of groundwater from the project wells will have an adverse impact on neighboring private wells.

Procedure

Test Wells and Project Water Supply Demand

Test wells will be drilled for this project until the project demand water yield is developed. The water demand for this project will be based on supplying sufficient water for 181 homes, each having four (4) bedrooms, and using about 380 gallons per day (gpd). An additional 55 homes will be supplied by Town water and will not be included in the groundwater supply calculation. The planned development will require 48 gallons per minute (gpm) as one times the average daily demand. The NYSDOH requires that for a community well system, the system needs to produce the maximum daily water demand with the best well out of service. Generally, community water systems do have varying amounts of storage capacity to meet peak water demand; therefore RALHAL Corporation has proposed that the wells provide 1x the daily demand (48 gpm) with the best well out of service. Given that the project average water demand is 48 gpm, the well system needs to produce a proven 48 gpm with the best well out of service, with a 72-hour pump test.

The suitable wells developed during the drilling phase will be pumped, as a group, at 48 gpm plus the sustainable yield of the best well for a minimum of 72-hours.

Pumping will be terminated after at least 6-hours of stabilization (both pumping rate and drawdown stabilization) is achieved. A minimum of 24-hours of recovery (at least 97%) will be recorded. The data will be recorded using digital data loggers that will be set to record every minute during the pretest period, the test period and the recovery period.

The water pumped from the production/test wells will be diverted towards the nearest surface water body, which is not being tested for GWUDI (groundwater under the direct influence of surface water), if GWIUDI testing is needed. This will be done either directly with a hose or through silt fencing or straw bales. Flow rates from each pumping well will be measured using a combination of flow meters and periodic bucket/stopwatch readings. Water level data will be based on drawdown and referenced to a depth-to-water level from a convenient measuring point.

The production/test wells will be stagger started, about one-hour delay between starts, at a constant rate. The test will start after a minimum pf 48 hours of background data is collected from selected neighboring wells. The test will continue for a minimum of 72-hours with a minimum of 6-hours of stabilization in pumping wells. If the pumping wells do not stabilize for the minimum 6-hour period, the test will continue until the wells stabilize for the required duration or for a maximum of 120-hours. Pumping rates will be monitored using ‘instant read” water meters (gpm meters) and will be checked using 5 or 20 gallon buckets and a stopwatch, depending on the flow rate.

Off-site Monitoring

All offsite properties to be monitored will be discussed with the Town of Fallsburg and will be confirmed with the Town of Fallsburg Engineer. The request for permission to monitor private wells will be in the form of a letter (sent by certified mail) detailing the test procedure and including a questionnaire for residents to complete. An example of the approval request letter is attached. The letter will request a response within 10 days of receipt of the letter. Positive respondents will be interviewed and their wells will be inspected to see if they could be monitored. If the well is suitable a data logger will be installed in the well with the assistance of the drilling/pump contractor to assure that problems, if they occur, are resolved quickly and disruption to individual water supplies is prevented.

The data loggers will be set to collect water level information from the neighboring wells for a minimum of 48 hours prior to the start of the pumping test and for a minimum period of 24 hours after the conclusion of the test. The sampling interval will be 60 minutes between readings.

On-site Monitoring

Data loggers will be installed in the proposed production test wells, and in the two (2) Raleigh Hotel Wells not being utilized for water supply, as shown in Figure 1.

In addition, data-loggers will be placed in any water bodies within 500 feet of the production wells, as mandated by the NYSDEC pump test requirements. These water bodies will then be monitored for water level fluctuations. Piezometer screens will be installed a minimum of two feet below the streambed or wetland soil surface. Periodic water level readings (not less than two per day) will be taken prior to, during, and following the pumping test. Measurements will be taken on the outside of each piezometer to the

standing water level in the stream or wetland, and inside each piezometer to the level of the shallow groundwater to identify upward or downward gradient conditions in these water bodies. A log of weather conditions will be maintained during the test.

Water Quality

A set of water quality samples will be collected from each test well just before the test is shut down. The samples will be transported the same day in iced coolers to a New York State certified laboratory for analysis using the parameters specified by the NYSDOH – Monticello District Office (NYSDOH Full Subpart 5 parameters).

Report

The data collected during the pumping test, outlined above, will be summarized in a technical report. The data will be presented in tabular and graphic form. The data from the test wells will be presented on individual charts that include drawdown and pumping rate data plotted on a suitable time scale. The neighboring well data will be presented on individual graphs, which will also include the pumping period. The common format will allow direct comparison and analysis of the possible interference affects. All water level data will be presented in both “0” (drawdown) form and in depth to water format. The report will also include a recharge analysis suitable for the Town of Fallsburg area.

Please contact me at the number above should you have any questions. We appreciate your assistance with the well testing plan and look forward to hearing from you regarding any comments or you agreement with this plan.

Sincerely,

ORIGINAL SIGNED

Maureen S. Fisher
Environmental Scientist
Tim Miller Associates, Inc.

cc: Mr. Sergio Smiriglio – SSEC
Mr. Glen Illing – NYSDOH, Monticello District Office
Mr. Mendel Lerner

STATE OF NEW YORK
DEPARTMENT OF HEALTH

Monticello District Office 50 North Street Suite 2 Monticello, NY 12701-1711 (845)-794-2045 Fax (845)-794-3165

Richard F. Daines, M.D.
Commissioner

Wendy Saunders
Chief of Staff

June 30, 2009

Maureen S. Fisher
Environmental Scientist
Tim Miller Associates, Inc.
10 North St.
Cold Spring, NY 10516

Re: RAC HAL Corporation Property
Water Supply Wells
(T) Fallsburg – SBL 60-1-56

Dear Ms. Fisher,

I am writing to follow up on our telephone conversation last week regarding the pump test protocol addressed to the Town of Fallsburg, dated June 15, 2009 at the above referenced facility.

Please be advised that the New York State Department of Health will not accept a maximum day demand calculation based on a 1.0 multiplier of the average daily demand. This office requires that the water supply maximum day demand calculation be based on a minimum of one and one half (1.5) times the average daily demand. You are reminded that our review for this project will be in accordance with "Recommended Standards for Waterworks (2007 Edition)" and the total developed groundwater source capacity shall equal or exceed the maximum day demand with the largest producing well out of service.

If you have any questions regarding this matter, please contact me at (845) 794-2045.

Sincerely,

Glenn D. Illing, P.E.
Senior Sanitary Engineer

GDI:ce

Cc: William H. Illing, P.E., Town Engineer - (T) Fallsburg
File

Appendix B

Fracture Trace Report

4 Deer Trail
Cornwall, New York 12518
845 534 3816 [tel]
845 534 3314 [fax]
info@groundwatergeology.com

SSEC Inc.

Technical Memorandum

To: Maureen Fisher

From: Sergio Smiriglio

CC:

Date: March 6, 2008

Re: Raleigh Hotel Hotel, Sullivan County, Fracture Trace Analysis

---

The Fracture Trace of the Raleigh Hotel site in Fallsburgh, NY, was completed using the United States Geologic Survey [USGS] digital elevation data combined with one foot orthoimagery. The data was processed in a geo-spatial software package. The database also includes existing aquifer and geologic fault data from the New York State Museum archives. Figure 1 shows the project site outlined in yellow. The two existing project wells are shown on the western side of the property. Both wells are estimated to produce in excess of 100 gallons per minute.

The Fallsburgh area is underlain by the Upper Devonian aged Walton formation, a unit primarily composed of shale, sandstone and conglomerate rock. The rock structure is generally flat lying to slightly inclined. Bedrock outcrops are not common except along road rock-cuts or on hill peaks. The Walton formation, both the lower and the upper, has poor primary permeability but does have better than average secondary permeability since the rock units, other than the shale portion, contains a relatively low percentage of clay components. [Figure 2] Therefore, wells that intercept bedrock fractures have somewhat higher yields than do average wells in other rock types. The NYS Museum data indicates that there are unconsolidated aquifer deposits [glacial outwash] in the area of the Raleigh Hotel bit no "aquifers" are mapped in the area. [Figures 3 and 4]

The suggested test drilling locations are shown on figure 5. The suggested locations are indicated by blue "x"s. The location within the hachured area may be within the area indicated to be sand and gravel aquifer. All wells should be drilled to a minimum depth of 600 feet, unless sufficient water is developed before reaching that point. Wells drilled within the "sand and gravel" area should be drilled using a method suitable for developing unconsolidated aquifer wells.

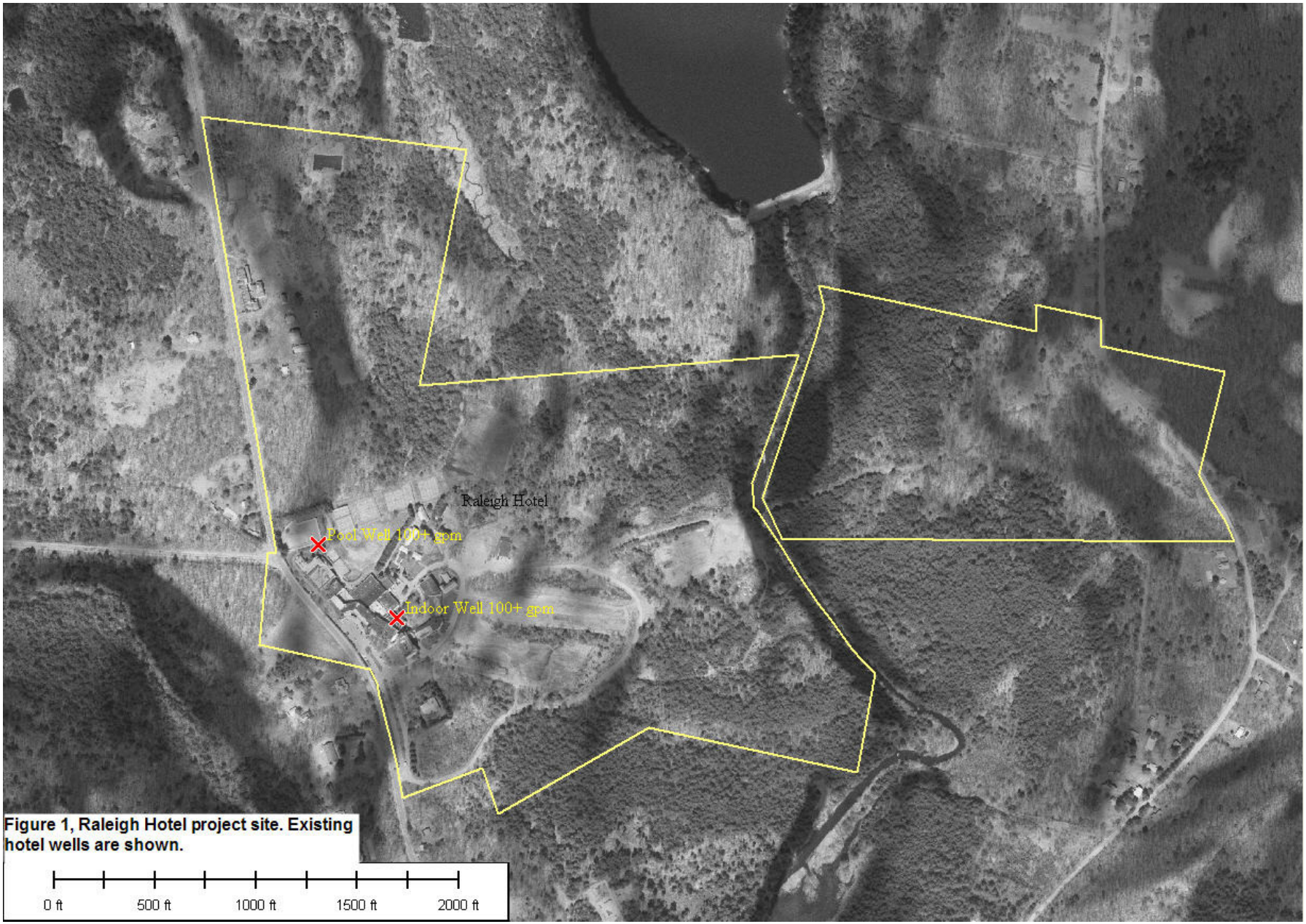


Figure 1, Raleigh Hotel project site. Existing hotel wells are shown.

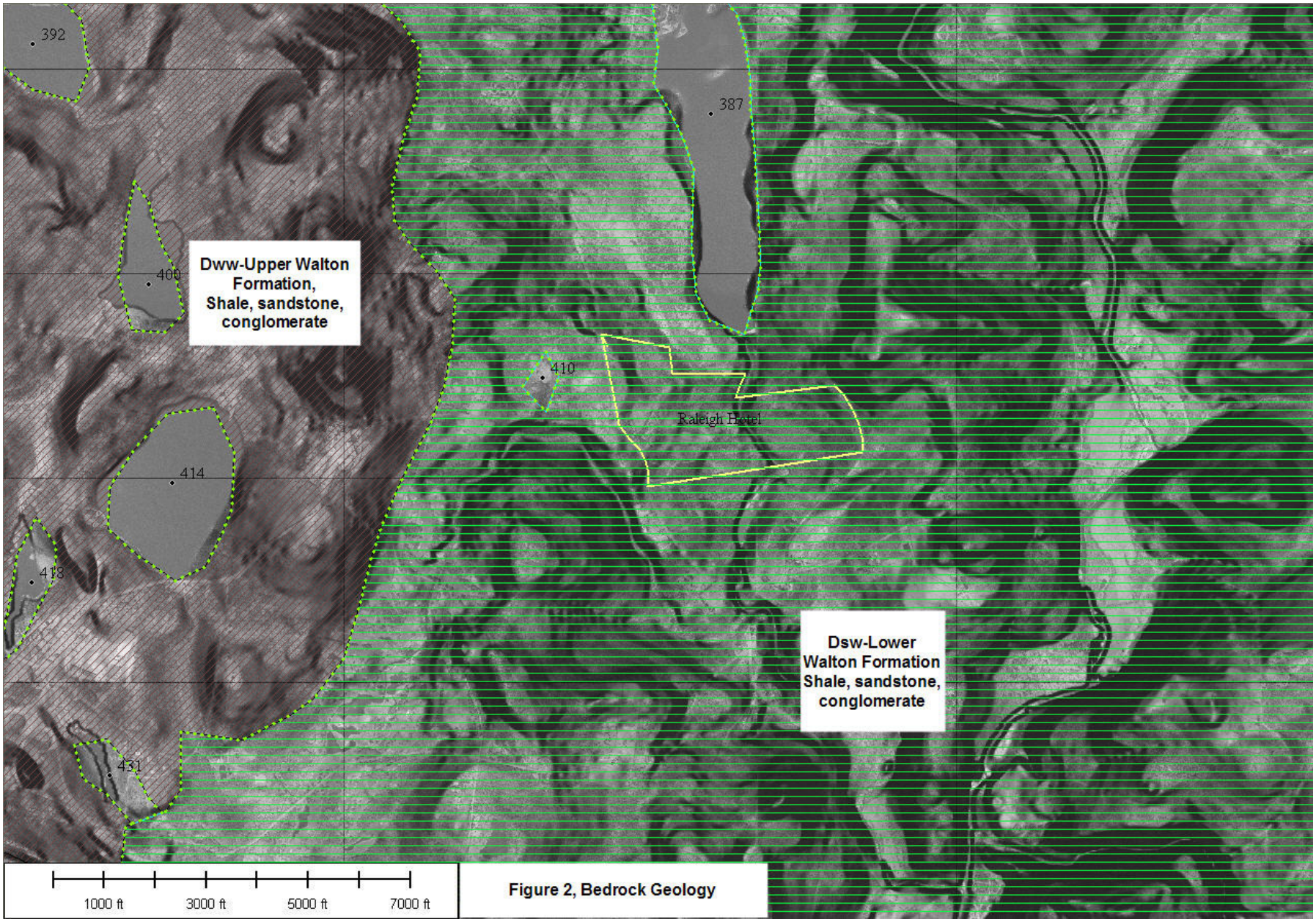


Figure 2, Bedrock Geology

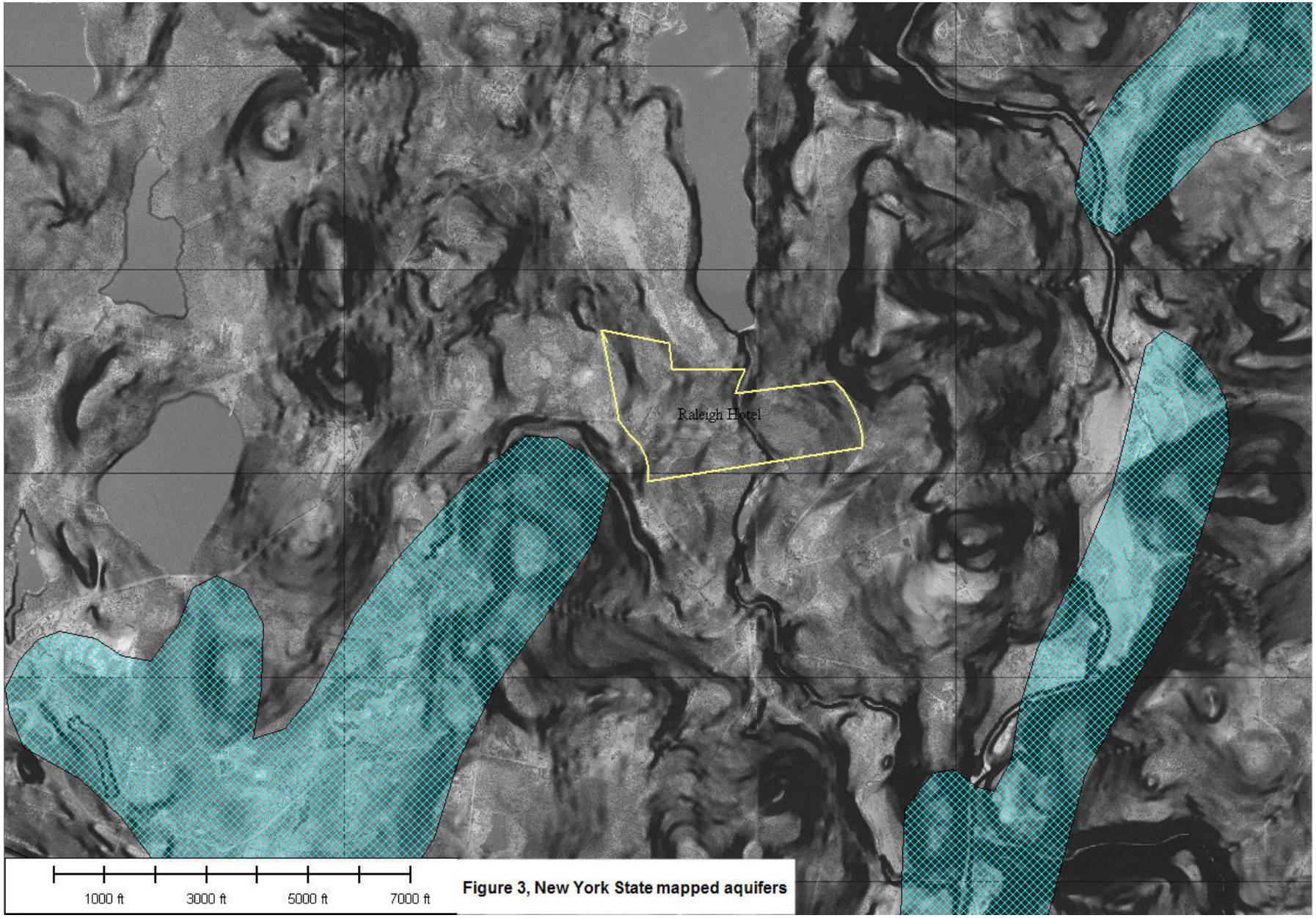


Figure 3, New York State mapped aquifers

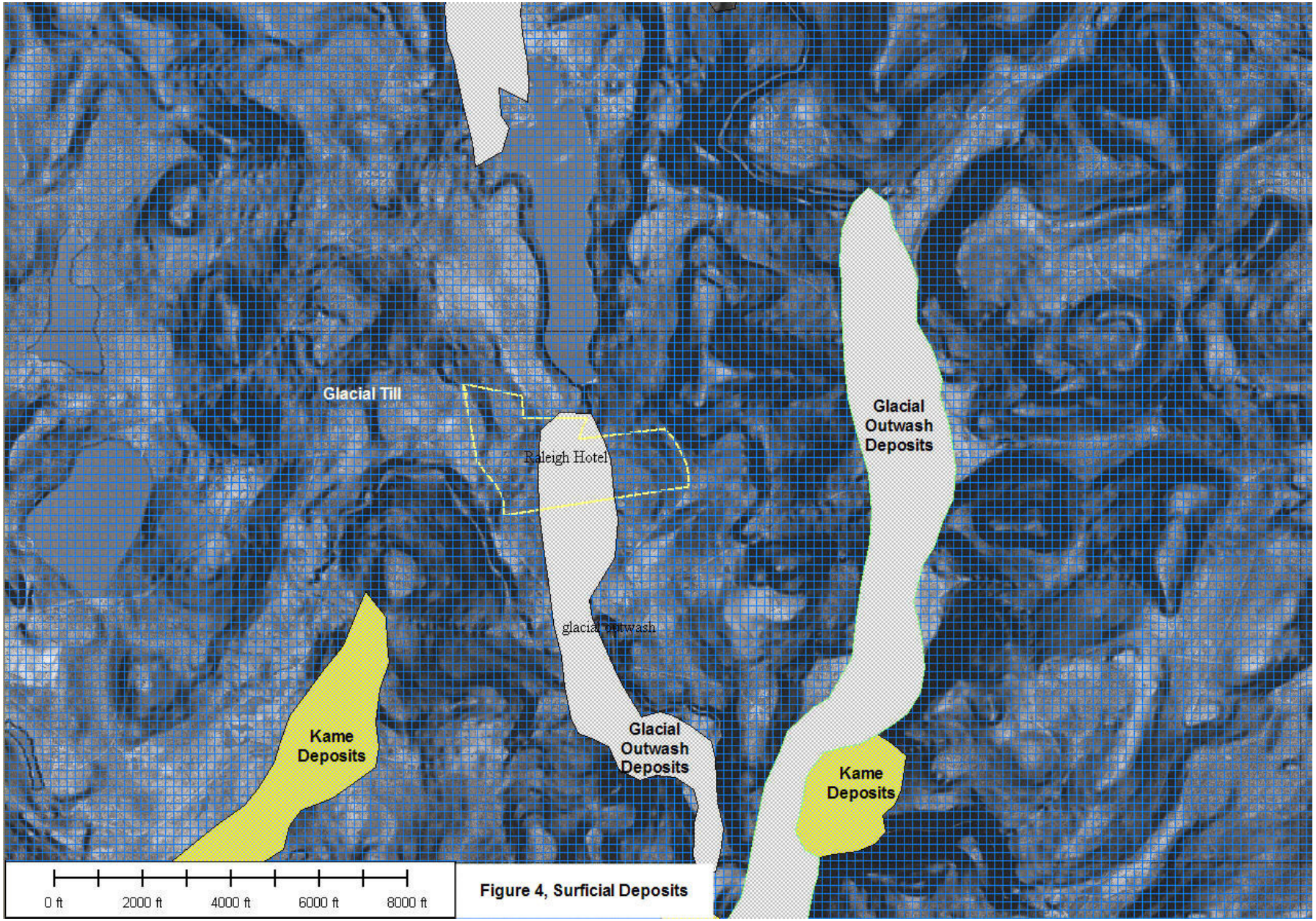


Figure 4, Surficial Deposits

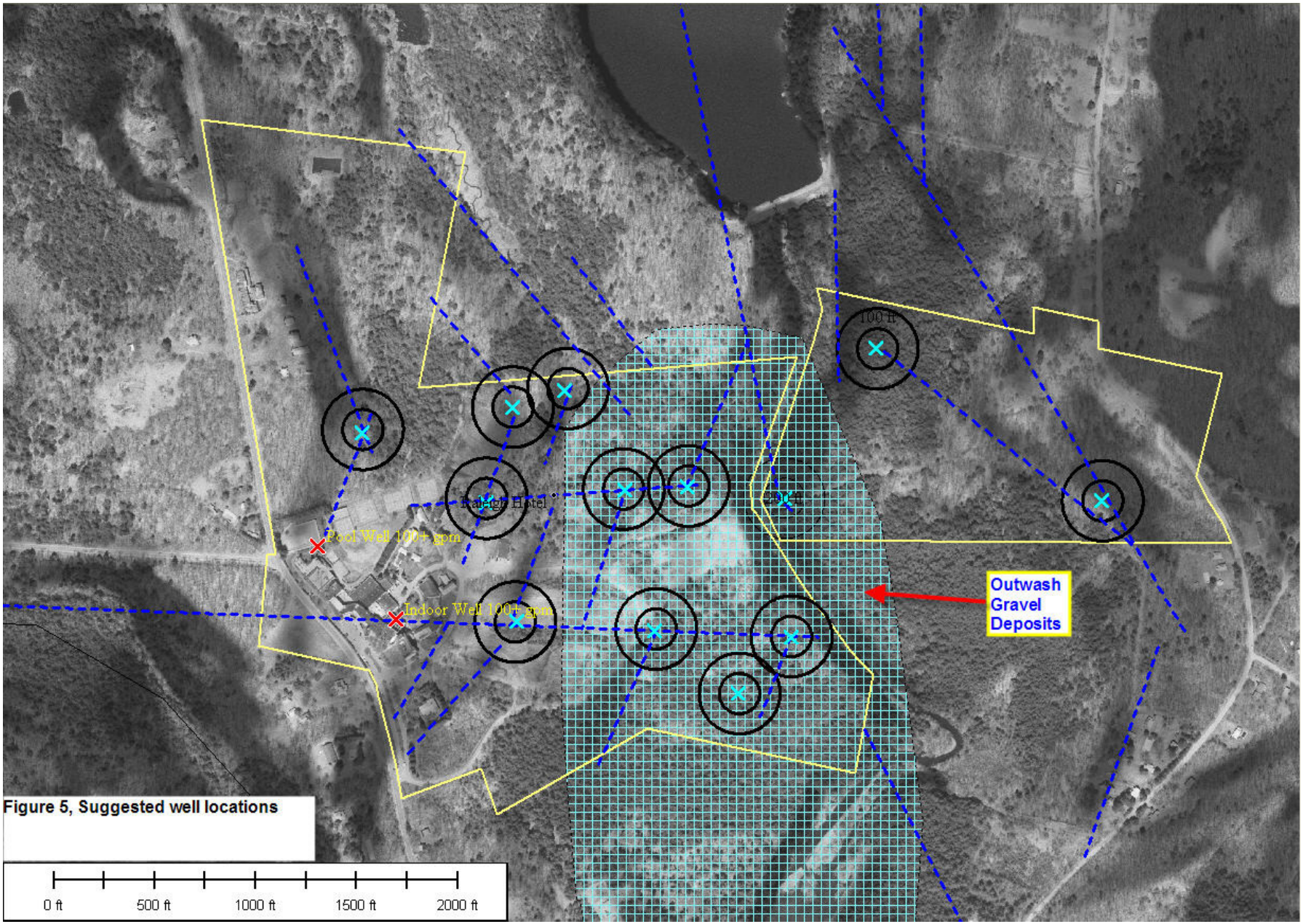


Figure 5, Suggested well locations

Appendix C

Well Logs

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Sullivan

(2) TOWN Fallsburg

(3) DEC Well Number SV.3318

WATER WELL COMPLETION REPORT

(4) OWNER Raleigh Hotel Development - Well #1

(5) ADDRESS So. Fallsburg N.Y.

(6) LOCATION OF WELL (See Instructions On Reverse) (Check here ☐ if same as address above, also provide Lat / Long below)
Show Lat/Long if available and method used.
☒ GPS ☐ Map Interpolation N41.40.859 W074.37.1695

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 400'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 40 DATE MEASURED 5/28/09

(9) DIAMETER: 6 5/8 in. | in. | in. | in.

(10) LENGTH: 50 ft. | ft. | ft. | in.

(11) GROUT TYPE / SEALING

(12) GROUT / SEALING INTERVAL (feet) FROM _____ TO _____

(13) MAKE & MATERIAL

(14) OPENINGS

(15) DIAMETER: In. | in. | In. | in.

(16) LENGTH: ft. | ft. | ft. | in.

(17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet)

(18) DATE 5/28/09

(19) DURATION OF TEST 1½ hr

(20) LIFT METHOD ☐ Pump ☒ Air Lift ☐ Bail

(21) STABILIZED DISCHARGE (GPM) 15

(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing) 40

(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) 300

(24) RECOVERY (Time in hours/minutes) 25 min

(25) Was the water produced during the test discharged away from immediate area? Yes X No ____

(26) PUMP INSTALLED? YES ____ NO X

(27) DATE

(28) PUMP INSTALLER

(29) TYPE

(30) MAKE

(31) MODEL

(32) MAXIMUM CAPACITY (GPM)

(33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)

(34) METHOD OF DRILLING ☒ Rotary ☐ Cable Tool ☐ Other _____

(35) USE OF WATER (See instructions for choices) Public

(36) DATE DRILLING WORK STARTED 5/28/09

(37) DATE DRILLING WORK COMPLETED 5/28/09

(38) DATE REPORT FILED 6/24/09

(39) REGISTERED COMPANY Wm Fulton & Son Well Drilling

(40) DEC REGISTRATION NO. NYRD 10108

(41) CERTIFIED DRILLER (Print name) Eugene Fulton

(42) CERTIFIED DRILLER SIGNATURE * Eugene Fulton

* 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.

8/2007

(43) LOG

Depth to Bedrock 18 (ft. below ground surface)

Ground Elev. 1246 (ft. above S.L.)

Top of Casing 2 (ft., above (+) or below (-) ground surface)

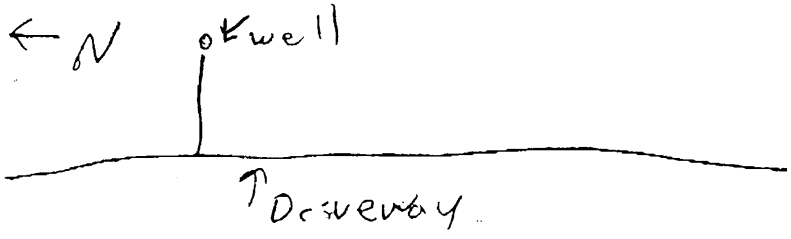
TOP OF WELL

0-15	Topsoil & Sand
15-25	Red Shale
25-60	Gray Rock
60-90	Red Shale
90-105	Gray Rock
105-120	Red Shale
120-125	Gray Rock
125-135	Red Shale
135-145	Gray Rock
145-160	Red Shale
160-165	Gray Rock
165-170	Red Shale
170-210	Gray Rock
210-220	Black Shale
220-235	Gray Rock
235-250	Red Shale
250-305	Gray Rock (5" water)
305-330	Red Shale
330-340	Gray Rock (2" water)
340-360	Red Shale
360-380	Gray Rock
380-400	Red Shale

BOTTOM OF HOLE

OWNER COPY

LOCATION SKETCH - Indicate north



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Sullivan

(2) TOWN Fallsburg

(3) DEC Well Number SV3328

WATER WELL COMPLETION REPORT

(4) OWNER
Raleigh Hotel Development - Well # 2

(6) ADDRESS
So. Fallsburg N.Y.

(5) LOCATION OF WELL (See Instructions on Reverse) Show Lat/Long if available and method used: (Check here ☐ if same as address above, also provide Lat / Long below)

☒ GPS ☐ Map Interpolation N 41, 40. 866 W074. 37. 624

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 600'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 40 DATE MEASURED 6/2/09

(9) DIAMETER	(10) LENGTH
6 5/8 in.	42 ft.
in.	ft.
in.	ft.
in.	in.

(11) GROUT TYPE / SEALING

(12) GROUT / SEALING INTERVAL (feet) FROM _____ TO _____

(13) MAKE & MATERIAL

(14) OPENINGS

(15) DIAMETER	(16) LENGTH
in.	ft.
in.	ft.
in.	ft.
in.	in.

(17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet)

(18) DATE 6/2/09

(19) DURATION OF TEST 1/2 hr.

(20) LIFT METHOD ☐ Pump ☒ Air Lift ☐ Bail

(21) STABILIZED DISCHARGE (GPM) 16

(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing) 40

(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) 500

(24) RECOVERY (Time in hours/minutes) 40 min

(25) Was the water produced during the test discharged away from immediate area? Yes X No ___

(26) PUMP INSTALLED? YES ___ NO X

(27) DATE

(28) PUMP INSTALLER

(29) TYPE

(30) MAKE

(31) MODEL

(32) MAXIMUM CAPACITY (GPM)

(33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)

(34) METHOD OF DRILLING ☒ Rotary ☐ Cable Tool ☐ Other _____

(35) USE OF WATER (See Instructions for choices) Public

(36) DATE DRILLING WORK STARTED 6/1/09

(37) DATE DRILLING WORK COMPLETED 6/2/09

(38) DATE REPORT FILED 6/24/09

(39) REGISTERED COMPANY Wm Fulton & Son Well Drilling

(40) DEC REGISTRATION NO. NYRD 10105

(41) CERTIFIED DRILLER (Print name) WILLIAM FULTON

(42) CERTIFIED DRILLER SIGNATURE William Fulton

* 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.

8/2007

(43) LOG

Depth to Bedrock 6 (ft. below ground surface)

Ground Elev. 1230 (ft. above S.L.)

Top of Casing 2 (ft., above (+) or below (-) ground surface)

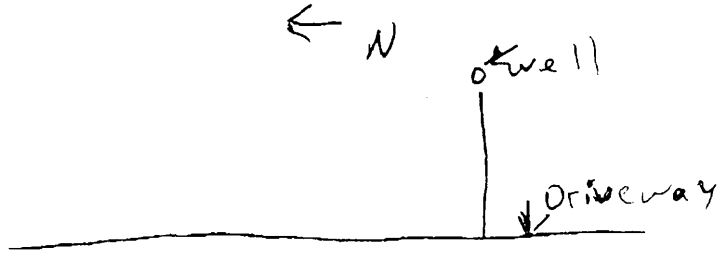
TOP OF WELL

0-5	Top Soil
5-25	Red Shale
25-50	Gray Rock
50-55	Red Shale
85-100	Gray Rock
100-130	Red Shale
130-140	Gray Rock
140-160	Red Shale
160-180	Gray Rock
180-185	Red Shale
185-210	Gray Rock
210-220	Red Shale
220-225	Gray Rock
225-245	Red Shale
245-310	Gray Rock
310-330	Red Shale
330-340	Gray Rock
340-360	Red Shale
360-380	Gray Rock
380-405	Red Shale
405-470	Gray Rock
470-480	Black Shale
480-520	Gray Rock
520-530	Red Shale
530-565	Gray Red

BOTTOM OF HOLE

OWNER COPY

LOCATION SKETCH - Indicate north



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONVENTION

(1) COUNTY Sullivan

(2) TOWN Fallsburg

WATER WELL COMPLETION REPORT

(3) DEC Well Number 5W3323

(4) OWNER Parkway Hotel Development - Well 2

(5) ADDRESS Rte. 1 Fallsburg NY

(6) LOCATION OF WELL (See Instructions On Reverse) Show Lat/Long if available and method used: (Check here ☐ if same as address above, also provide Lat / Long below)

☒ GPS ☐ Map Interpolation N 41, 40. 756 W074 37. 518

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 375'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 15' DATE MEASURED 6/15/09

CASINGS

(9) DIAMETER 6 5/8 in. | in. | in. | in.

(10) LENGTH 40 ft. | ft. | ft. | in.

(11) GROUT TYPE / SEALING

(12) GROUT / SEALING INTERVAL (feet) FROM _____ TO _____

SCREENS

(13) MAKE & MATERIAL

(14) OPENINGS

(15) DIAMETER in. | in. | in. | in.

(16) LENGTH ft. | ft. | ft. | in.

(17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet)

YIELD TEST

(18) DATE 6/15/09

(19) DURATION OF TEST 1 hr

(20) LIFT METHOD ☐ Pump ☒ Air Lift ☐ Bail

(21) STABILIZED DISCHARGE (GPM) 20

(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing) 15

(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) Same

(24) RECOVERY (Time in hours/minutes) 2 min

(25) Was the water produced during the test discharged away from immediate area? Yes X No____

PUMP INSTALLATION

(26) PUMP INSTALLED? YES ____ NO X

(27) DATE

(28) PUMP INSTALLER

(29) TYPE

(30) MAKE

(31) MODEL

(32) MAXIMUM CAPACITY (GPM)

(33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)

(34) METHOD OF DRILLING ☒ Rotary ☐ Cable Tool ☐ Other _____

(35) USE OF WATER (See instructions for choices) Public

(36) DATE DRILLING WORK STARTED 6/5/09

(37) DATE DRILLING WORK COMPLETED 6/15/09

(38) DATE REPORT FILED 6/24/09

(39) REGISTERED COMPANY Eugene Fulton Sons Well Drilling

(40) DEC REGISTRATION NO. NYRD 10108

(41) CERTIFIED DRILLER (Print name) Eugene Fulton

(42) CERTIFIED DRILLER SIGNATURE * Eugene Fulton

* 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.

8/2007

(43) LOG

Depth to Bedrock 3 (ft. below ground surface)

Ground Elev. 1240' (ft. above S.L.)

Top of Casing 2 (ft., above (+) or below (-) ground surface)

TOP OF WELL

0 - 3	Top Soil
3 - 5	Red Shale
5 - 25	Gray Rock
25 - 35	Red Shale
35 - 50	Gray Rock
50 - 75	Red Shale
75 - 90	Gray Rock
90 - 120	Red Shale
120 - 135	Gray Rock
135 - 145	Red Shale
145 - 190	Gray Rock
190 - 210	Red Shale
210 - 230	Gray Rock
230 - 240	Red Shale
240 - 255	Gray Rock
255 - 275	Red Shale
275 - 300	Gray Rock
300 - 320	Red Shale
320 - 330	Gray Rock
330 - 340	Red Shale
340 - 375	Gray Rock

BOTTOM OF HOLE

Dry Hole A Well 9/2

380 - 400	Red Shale
400 - 515	Gray Rock
515 - 520	Red Shale
520 - 530	Gray Rock
530 - 540	Black Sh
540 - 580	Gray Rock
580 - [illegible]	Gray Rock a

OTHER

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Sullivan

(2) TOWN Fallsburg

(3) DEC Well Number SV3390

WATER WELL COMPLETION REPORT

(4) OWNER Raleigh Hotel Development Well #5

(5) ADDRESS Heiden Rd So. Fallsburg, NY

(6) LOCATION OF WELL (See Instructions On Reverse) (Check here ☐ if same as address above, also provide Lat / Long below)
Show Lat/Long if available and method used:
☑ GPS ☐ Map Interpolation N 41.40.749 W074.37.686

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 625

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) DATE MEASURED

CASINGS

(9) DIAMETER 6 5/8 in. | in. | in. | in.

(10) LENGTH 50 ft. | ft. | ft. | in.

(11) GROUT TYPE / SEALING

(12) GROUT / SEALING INTERVAL (feet) FROM _____ TO _____

SCREENS

(13) MAKE & MATERIAL

(14) OPENINGS

(15) DIAMETER in. | in. | in. | in.

(16) LENGTH ft. | ft. | ft. | in.

(17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet)

YIELD TEST

(18) DATE 9/1/09

(19) DURATION OF TEST 1/2 hr

(20) LIFT METHOD ☐ Pump ☑ Air Lift ☐ Bail

(21) STABILIZED DISCHARGE (GPM) 3

(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)

(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)

(24) RECOVERY (Time in hours/minutes)

(25) Was the water produced during the test discharged away from immediate area? Yes X No ____

PUMP INSTALLATION

(26) PUMP INSTALLED? YES ____ NO ____

(27) DATE

(28) PUMP INSTALLER

(29) TYPE

(30) MAKE

(31) MODEL

(32) MAXIMUM CAPACITY (GPM)

(33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)

(34) METHOD OF DRILLING ☑ Rotary ☐ Cable Tool ☐ Other _____

(35) USE OF WATER (See instructions for choices) Public

(36) DATE DRILLING WORK STARTED 9/1/09

(37) DATE DRILLING WORK COMPLETED 9/1/09

(38) DATE REPORT FILED

(39) REGISTERED COMPANY Wm Fulton & Son Well Drilling

(40) DEC REGISTRATION NO. NYRD 10108

(41) CERTIFIED DRILLER (Print name) Eugene Fulton

(42) CERTIFIED DRILLER SIGNATURE * Eugene Fulton

* 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.

8/2007

(43) LOG

Depth to Bedrock _____ (ft. below ground surface)

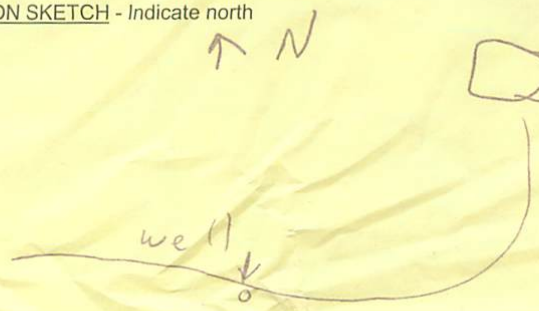
Ground Elev. 1227 (ft. above S.L.)

Top of Casing 1 (ft., above (+) or below (-) ground surface)

TOP OF WELL		
0-14		Topsoil & Boulders
14-25		Gray Rock
25-45		Red Shale
45-60		Gray Rock
60-95		Red Shale
95-110		Gray Rock
110-165	1st Water 145	Red Shale
165-205		Gray Rock
205-230		Red Shale
230-240		Gray Rock
240-250		Red Shale
250-280		Gray Rock
280-295		Red Shale
295-310		Gray Rock
310-335		Red Shale
335-345		Gray Rock
345-365		Red Shale
365-390		Gray Rock
390-415		Red Shale
415-430		Gray Rock
430-440		Black Shale
440-510	2nd Water	Gray Rock
510-520		Black Shale
520-525		Gray Rock
525-535		Red Shale
535-545		Black Shale
545-575		Gray Rock
575-590		Gray Rock w/ quartz
590-595		Gray Rock w/ quartz
595-615		Red Shale
615-625		BOTTOM OF HOLE

OWNER COPY

LOCATION SKETCH - Indicate north



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Sullivan

(2) TOWN Fallsburg

(3) DEC Well Number SV3377

WATER WELL COMPLETION REPORT

(4) OWNER Raleigh Hotel Development well #4

(5) ADDRESS Heiden Rd Fallsburg

(6) LOCATION OF WELL (See Instructions On Reverse) Show Lat/Long if available and method used: (Check here ☐ if same as address above, also provide Lat / Long below)

☑ GPS ☐ Map Interpolation N41A40.762 W074A37.680

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 500

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 60 DATE MEASURED 8/7/09

CASINGS

(9) DIAMETER 6 5/8 in. | in. | in. | in.

(10) LENGTH 42 ft. | ft. | ft. | in.

(11) GROUT TYPE / SEALING

(12) GROUT / SEALING INTERVAL (feet) FROM _____ TO _____

SCREENS

(13) MAKE & MATERIAL

(14) OPENINGS

(15) DIAMETER in. | in. | in. | in.

(16) LENGTH ft. | ft. | ft. | in.

(17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet)

YIELD TEST

(18) DATE 8/7/09

(19) DURATION OF TEST 1½ hours

(20) LIFT METHOD ☐ Pump ☑ Air Lift ☐ Bail

(21) STABILIZED DISCHARGE (GPM) 30

(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing) 60

(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) 460

(24) RECOVERY (Time in hours/minutes) 20 min

(25) Was the water produced during the test discharged away from immediate area? Yes X No ___

PUMP INSTALLATION

(26) PUMP INSTALLED? YES ___ NO X

(27) DATE

(28) PUMP INSTALLER

(29) TYPE

(30) MAKE

(31) MODEL

(32) MAXIMUM CAPACITY (GPM)

(33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)

(34) METHOD OF DRILLING ☑ Rotary ☐ Cable Tool ☐ Other _____

(35) USE OF WATER (See instructions for choices) Public

(36) DATE DRILLING WORK STARTED 8/6/09

(37) DATE DRILLING WORK COMPLETED 8/7/09

(38) DATE REPORT FILED

(39) REGISTERED COMPANY Wm Fulton & Son

(40) DEC REGISTRATION NO. NYRD 10108

(41) CERTIFIED DRILLER (Print name) Eugene Fulton

(42) CERTIFIED DRILLER SIGNATURE * Eugene Fulton

* 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.

8/2007

(43) LOG

Depth to Bedrock 10 (ft. below ground surface)

Ground Elev. 737 (ft. above S.L.)

Top of Casing 2 (ft. above (+) or below (-) ground surface)

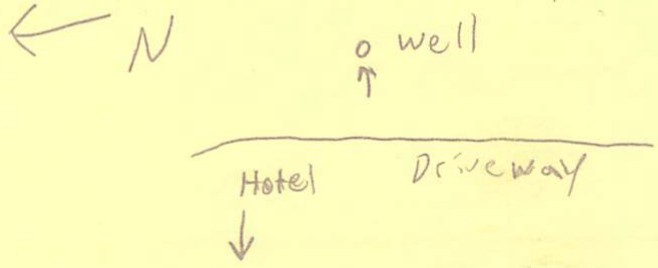
TOP OF WELL

0-10	Topsoil
10-50	Red Shale & Gray Rock
50-200	Red Shale
200-225	
225-235	Gray Rock
235-250	Red Shale
250-285	Gray Rock
285-300	Red Shale
300-310	Gray Rock
310-335	Red Shale
325'	1st Water 10 gpm
335-345	Gray Rock
345-360	Red Shale
360-385	Gray Rock
385-410	Red Shale
465	2nd Water 30 gpm
410-500	Gray Rock

BOTTOM OF HOLE

OWNER COPY

LOCATION SKETCH - Indicate north



Appendix D

Homeowner Letters and Questionnaire

Property Owners w/Wells within 1,500 feet of the Test Wells

Map #	Recipient Mailing Address	Physical Address	Response	Comments
1	**15.-1-32.1** Stella Mossini 248-16 Union Tpke Bellrose, New York 11426	Heiden Road (no # address)		No Response
2	**15.-1-32.3** Stella Mossini 248-16 Union Tpke Bellrose, New York 11426	666 Heiden Road Thompson, New York		No Response
3	**15.-1-32.2** Stephen Fortunato PO Box 9 Thompsonville, New York 12784	660 Heiden Road Thompson, New York		No Response
4	**15.-1-27** Laurie H Landon 9 Ann Blvd. Chestnut Ridge, New York 10977	Heiden Road (no # address)		No Response
5	**15.-1-29** Congregation and Yeshiva Hatorah Mivtzar PO Box 363 Monsey, New York 10952	689 Heiden Road Thompson, New York		No Response
6	**15.-1-31** Leonid Tune PO Box 127 Thompsonville, New York 12784	669 Heiden Road Thompson, New York		No Response
7	**15.-1-33** Bobover Yeshiva Bnei Zion PO Box 190376 Brooklyn, New York 11219	657 Heiden Road Thompson, New York		No Response
8	Fallsburg Fishing and Boating Club Lakes Street South Fallsburg, New York	Lot 26 and Lot 52	**Yes, Uhl and Bisnoff**	

Symbol KEY: **Yes Response Rec'd & Selected for Monitoring**

**TIM
MILLER
ASSOCIATES, INC.**

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10 North Street, Cold Spring, NY 10516 (845) 265-4400 265-4418 fax www.timmillerassociates.com

August 13, 2009

Property Owner
Town of Fallsburg, New York

RE: **RAHAL Property (Raleigh Hotel)**
Pump Test Off-Site Monitoring

Dear Property Owner:

The applicant for the proposed development known as RAHAL Property "Raleigh Hotel Property" has engaged our firm to evaluate the groundwater supply for the project and to evaluate any potential off-site well impacts. The results of this study will be included as part of an environmental impact study for the project. We seek your cooperation in enabling us to conduct the ground water testing program.

Water for the RAHAL project will be supplied from groundwater wells on the project site. As an initial step in this process, we are sending questionnaires to residences/private properties in the immediate vicinity of the project to collect basic information on existing wells, including water quantity and quality. We encourage you to fill out as much information as possible on the form and submit it to us in the enclosed pre-stamped envelope to be returned to us by **August 20, 2009**.

The second part of the groundwater program involves conducting a pump test of the wells previously installed on the property while simultaneously monitoring water levels in a select number of private wells in the project vicinity. To that end, we request that you indicate on the attached letter whether you would allow your well to be monitored, while we pump the project's wells. Consent does not mean that your well will be monitored; but we need to secure consent before finalizing the testing program.

If your well is selected to be monitored, the process will not exceed a period of two weeks. The monitoring procedure will require the insertion of an electronic water level monitoring probe that is disinfected prior to entry into your well to measure the water level in your well throughout the test.

A professional, experienced in this work, will visit the well to install and then periodically monitor the probe, typically each day during the testing period. Collection of the water level information typically takes about 15 minutes per visit. We will endeavor not to disturb you during the monitoring visits, which will take place outside of your house. After the conclusion of the testing, the technician will remove the probe and properly close your well.

Well monitoring should have no detrimental effects - it assesses water levels in your well before, during and after the on-site wells are pump tested. Although no effects are

anticipated, the applicant will be responsible for any damage to your well as a result of the monitoring program, but will not be responsible for any pre-existing conditions.

Occasionally, especially in older wells or wells with high iron and/or manganese, insertion of a test probe will cause the well water to become temporarily cloudy. This is due to the agitation of fine particles that have settled in the well over time. This condition typically clears within 24 hours and is not a health concern.

The monitoring data from your well will be made available to you, at no charge, and may prove useful to you in ascertaining existing conditions of your well.

By checking the first line below and signing this letter, you hereby agree to permit our technician to enter your property, with prior notice, for the purpose of monitoring your well. If you do not want your well monitored, please check the second line.

Please sign and print your name, address, telephone number, and email address on the next page. Please mail this page, along with the completed questionnaire in the enclosed envelope by **August 20, 2009**. You may also fax the information to (845) 265-4418 or email it to me at mfisher@timmillerassocaties.com. If you have any questions about this process please feel free to call the undersigned at (845) 265-4400. Thank you for your cooperation in this matter.

Sincerely,

ORIGINAL SIGNED

Maureen S. Fisher
Environmental Scientist
TIM MILLER ASSOCIATES, INC.

Please check one:

_____***I agree to permit my well to be monitored as described above.***

_____I do not agree to allow my well to be monitored.

Signature _____

Print Name _____ *Date* _____

Address _____*Zip* _____

Eve. Telephone _____ *Day Telephone* _____

Email _____

Please send information to:

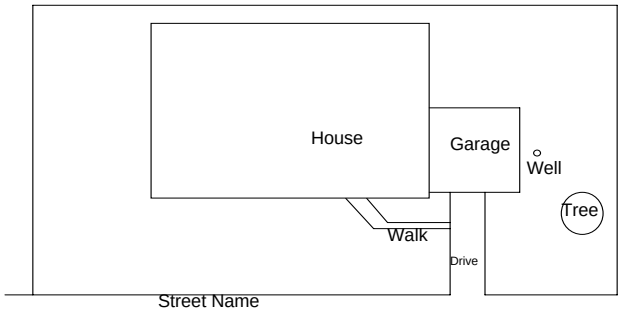
Tim Miller Associates, Inc.
10 North Street
Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
Email: mfisher@timmillerassociates.com
or
jdahlgren@timmillerassociates.com

RAHAL "Raleigh Hotel" Property Homeowner Well Monitoring Questionnaire

This questionnaire is being sent to homeowners within the vicinity of the proposed expansion of the RAHAL "Raleigh Hotel" Property on Heiden Road in the Town of Fallsburg, New York, in conjunction with a well monitoring program for the Project.

Please answer the questions below, if you can. If you do not have the necessary information or are unsure how to answer a question, please indicate so.

Please provide a sketch of your property, including well and septic location, as in the example. Use the back of this page for your sketch.



Name _____

Address _____

Telephone Number (indicate whether day or evening number) _____

What year was your well installed?

What is the total depth of your well?

What is the approximate depth to the water table, if known?

Does your well tap the bedrock or sand and gravel aquifer?

How much casing was used during the installation of your well?

Is the top of your well above ground, in a well pit, buried, or other?

What is the approximate depth to water-bearing fractures, if known?

Does your well have a submersible pump, a jet pump or a centrifugal pump?

What is the approximate yield of your well?

How far is your well from your or your neighbor's septic leaching field?

Does your well ever run dry?

- During high usage times
- During dry weather periods
- Because of mechanical/electrical problems

Does your well have water quality problems?

- Bacterial
- Sulfur
- Iron
- Hardness
- Cloudiness
- Taste
- Chemical

Additional Comments:

Please check one:

✓ ***I agree to permit my well to be monitored as described above.***

_____ **I do not agree to allow my well to be monitored.**

Signature _____

Print Name KENNETH G. UHL *Date* 8/25/2009

Address 269 OREGON TR., PINE BUSH, N.Y. *Zip* 12566

Eve. Telephone 845-401-3036 *Day Telephone* 845-401-3036

Email seniorUHLS at YAHOO. COM

Please send information to:

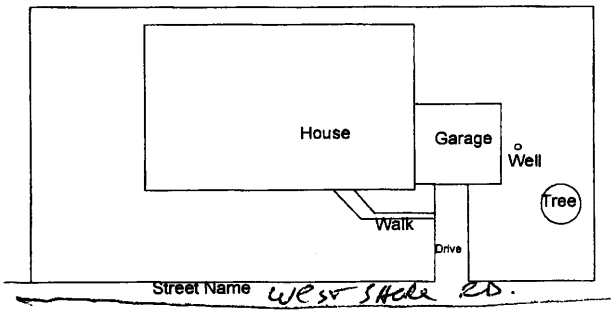
Tim Miller Associates, Inc.
10 North Street
Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
Email: mfisher@timmillerassociates.com
or
jdahlgren@timmillerassociates.com

RAHAL "Raleigh Hotel" Property — Homeowner Well Monitoring Questionnaire

This questionnaire is being sent to homeowners within the vicinity of the proposed expansion of the RAHAL "Raleigh Hotel" Property on Heiden Road in the Town of Fallsburg, New York, in conjunction with a well monitoring program for the Project.

Please answer the questions below, if you can. If you do not have the necessary information or are unsure how to answer a question, please indicate so.

Please provide a sketch of your property, including well and septic location, as in the example. Use the back of this page for your sketch.



Name Kenneth G. Uhl

Address 26 West Shore Road, Pleasure Lake, NY.

Telephone Number (indicate whether day or evening number) 845-401-3036 Day & Night

What year was your well installed? 2004

What is the total depth of your well? 310'

What is the approximate depth to the water table, if known?

Does your well tap the bedrock or sand and gravel aquifer?

How much casing was used during the installation of your well? 40'

Is the top of your well above ground, in a well pit, buried, or other?

What is the approximate depth to water-bearing fractures, if known? 210'

Does your well have a submersible pump, a jet pump or a centrifugal pump?

What is the approximate yield of your well? 15 GPM

How far is your well from your or your neighbor's septic leaching field? 150'

Does your well ever run dry? NO

- During high usage times
- During dry weather periods
- Because of mechanical/electrical problems

Does your well have water quality problems?

- Bacterial
- Sulfur
- Iron
- Hardness
- Cloudiness
- Taste
- Chemical

Please check one:

X ***I agree to permit my well to be monitored as described above.***

_____**I do not agree to allow my well to be monitored.**

Signature _____

Print Name _____ *Date* _____

Address _____ *Zip* _____

Eve. Telephone _____ *Day Telephone* _____

Email _____

Please send information to:

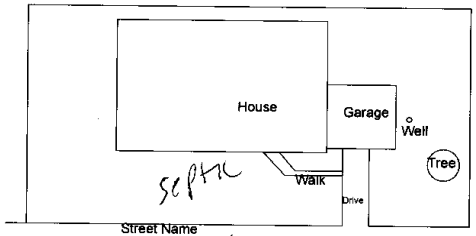
Tim Miller Associates, Inc.
10 North Street
Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
Email: mfisher@timmillerassociates.com
or
jdahlgren@timmillerassociates.com

RAHAL "Raleigh Hotel" Property **Homeowner Well Monitoring Questionnaire**

This questionnaire is being sent to homeowners within the vicinity of the proposed expansion of the RAHAL "Raleigh Hotel" Property on Heiden Road in the Town of Fallsburg, New York, in conjunction with a well monitoring program for the Project.

Please answer the questions below, if you can. If you do not have the necessary information or are unsure how to answer a question, please indicate so.

Please provide a sketch of your property, including well and septic location, as in the example. Use the back of this page for your sketch.



Name _____

Address _____

Telephone Number (indicate whether day or evening number) _____

What year was your well installed? 1999

What is the total depth of your well? 130'

What is the approximate depth to the water table, if known?

Does your well tap the bedrock or sand and gravel aquifer?

How much casing was used during the installation of your well?

Is the top of your well above ground, in a well pit, buried, or other? NO !

What is the approximate depth to water-bearing fractures, if known?

Does your well have a submersible pump, a jet pump or a centrifugal pump?

What is the approximate yield of your well?

How far is your well from your or your neighbor's septic leaching field? 150-200'

Does your well ever run dry?

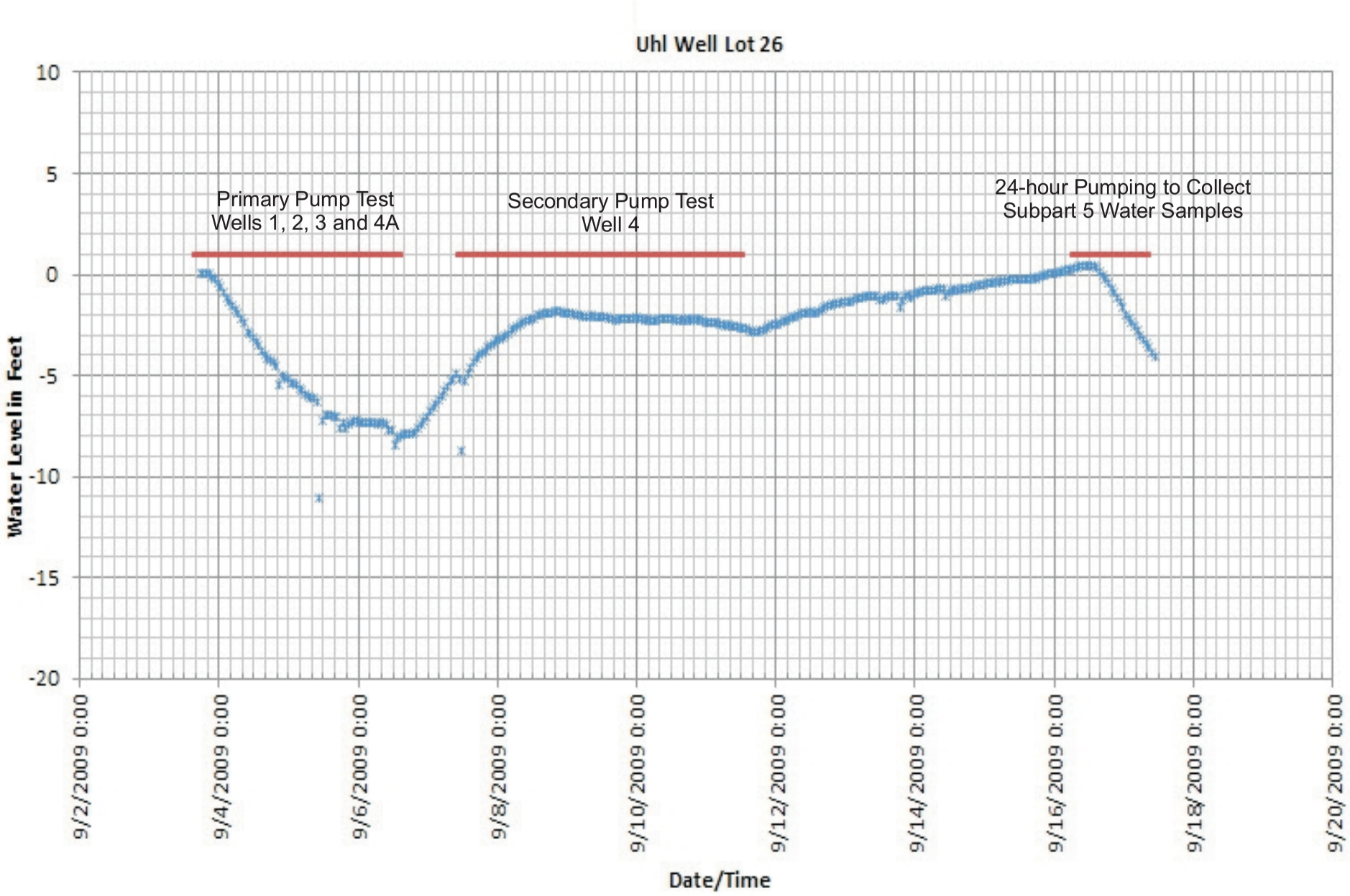
- During high usage times NO !
- During dry weather periods
- Because of mechanical/electrical problems

Does your well have water quality problems?

- Bacterial
- Sulfur
- Iron NO !
- Hardness
- Cloudiness
- Taste
- Chemical

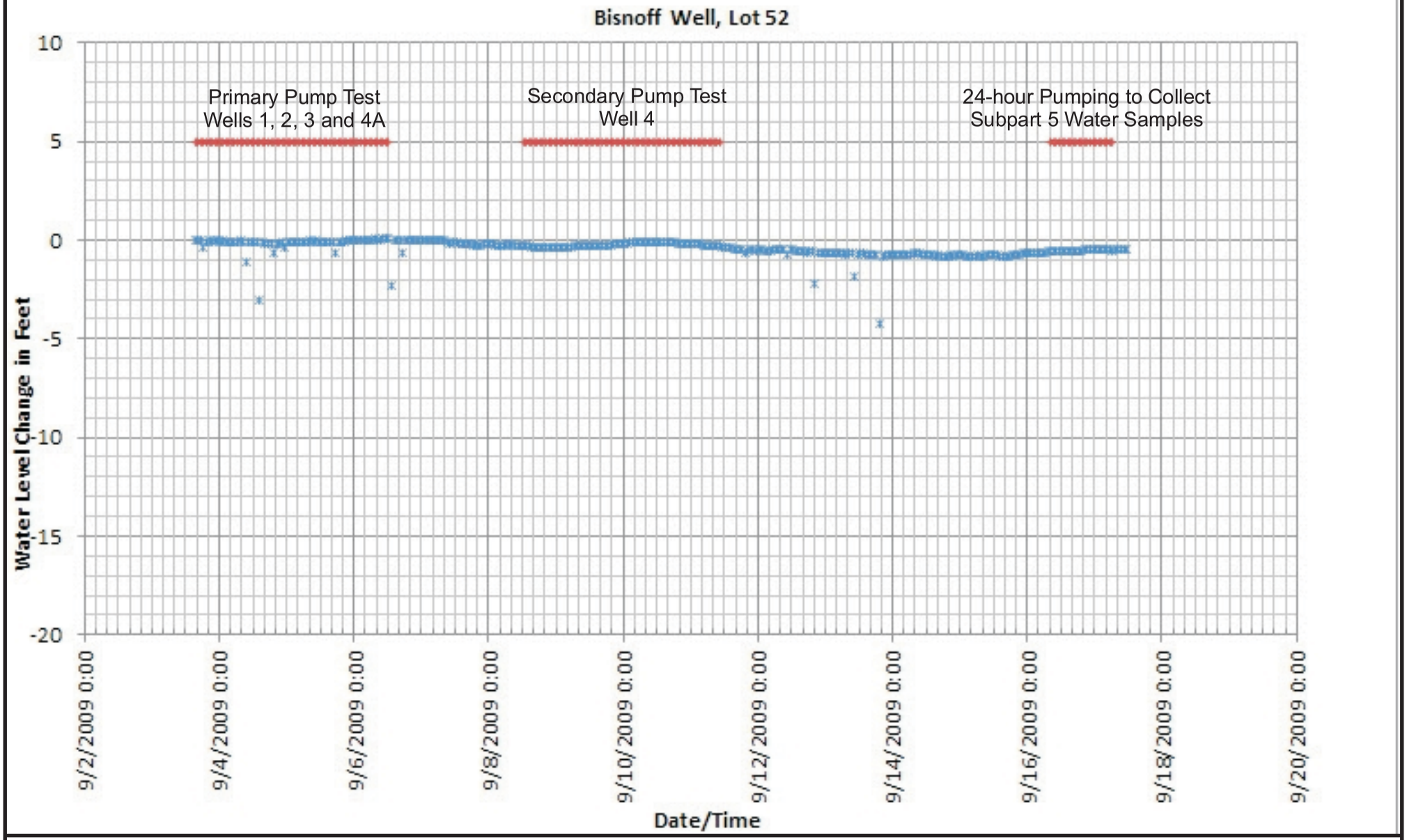
Appendix E

Charts



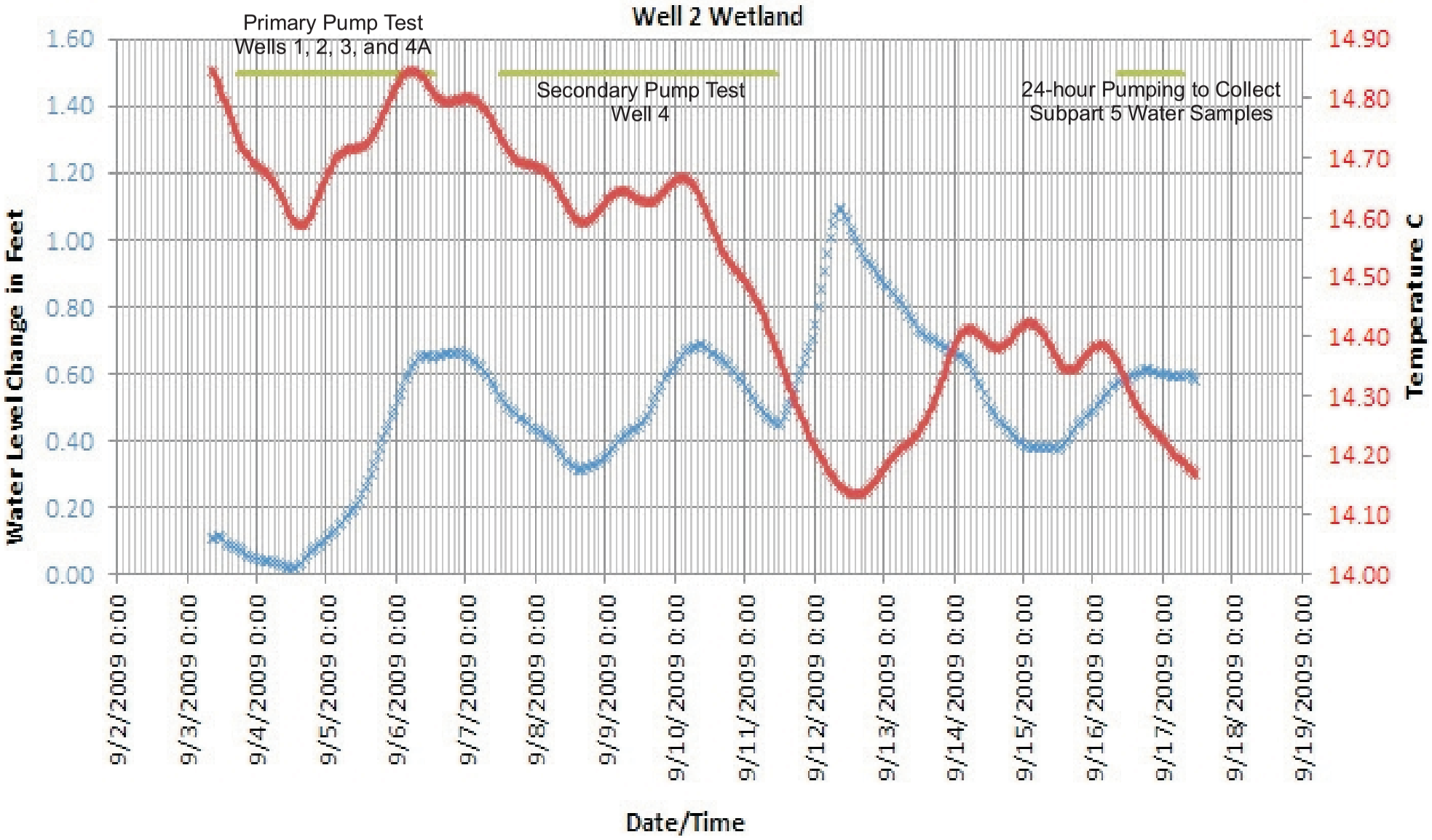
Graph 1: Uhl Well - Lot 26
Raleigh and Heiden Properties
Town of Fallsburg, Sullivan County, NY
Source: SSEC
Date: May 2011

Tim Miller Associates, Inc.,10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418



Graph 2: Bisnoff Well - Lot 52
Raleigh and Heiden Properties
Town of Fallsburg, Sullivan County, NY
Source:SSEC
Date: May 2011

Tim Miller Associates, Inc.,10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418



Graph 3: Wetland Monitoring by Well 2

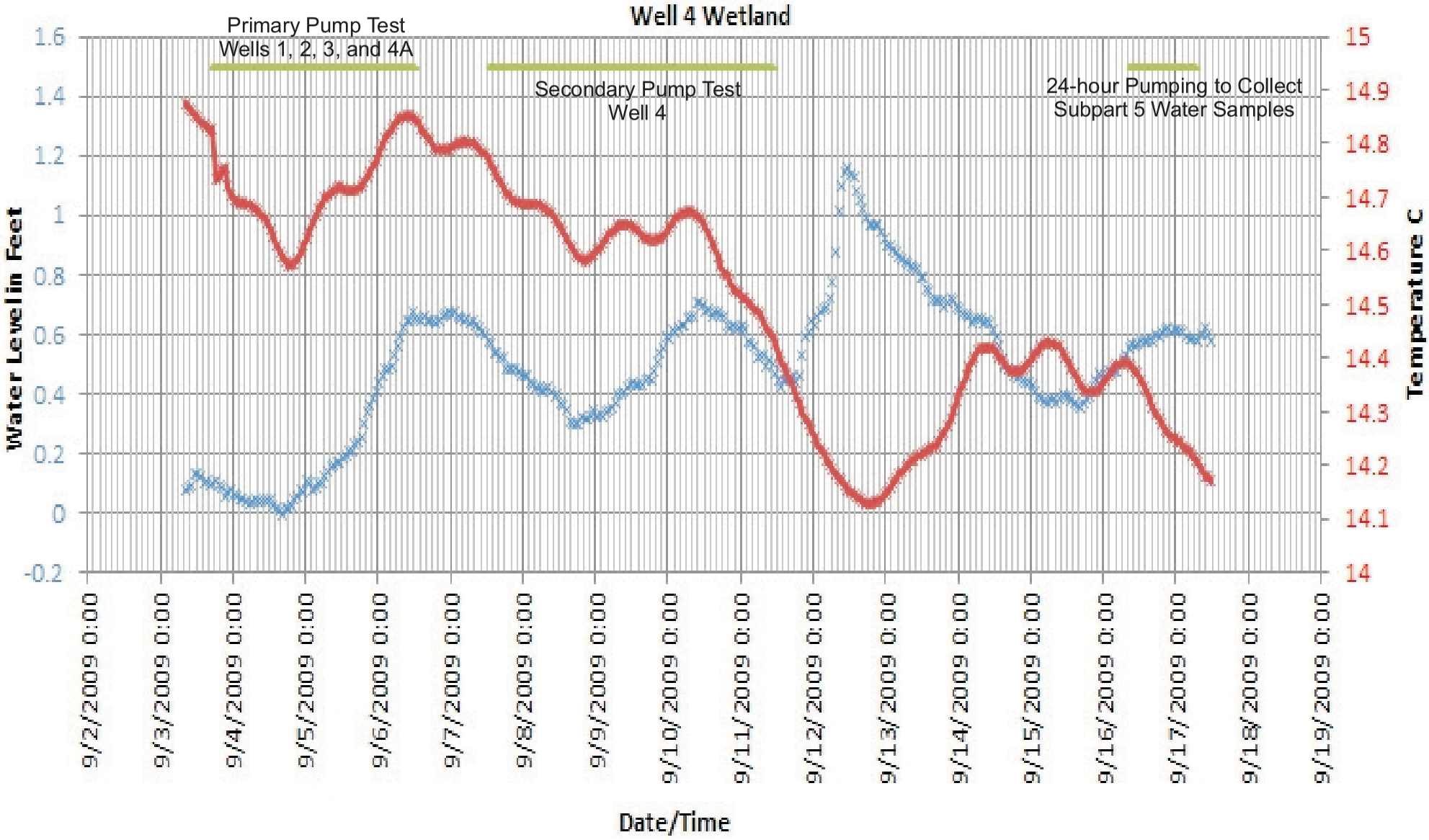
Raleigh and Heiden Properties

Town of Fallsburg, Sullivan County, NY

Source: SSEC

Date: May 2011

Tim Miller Associates, Inc.,10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418



Graph 4: Wetland Monitoring by Well 4

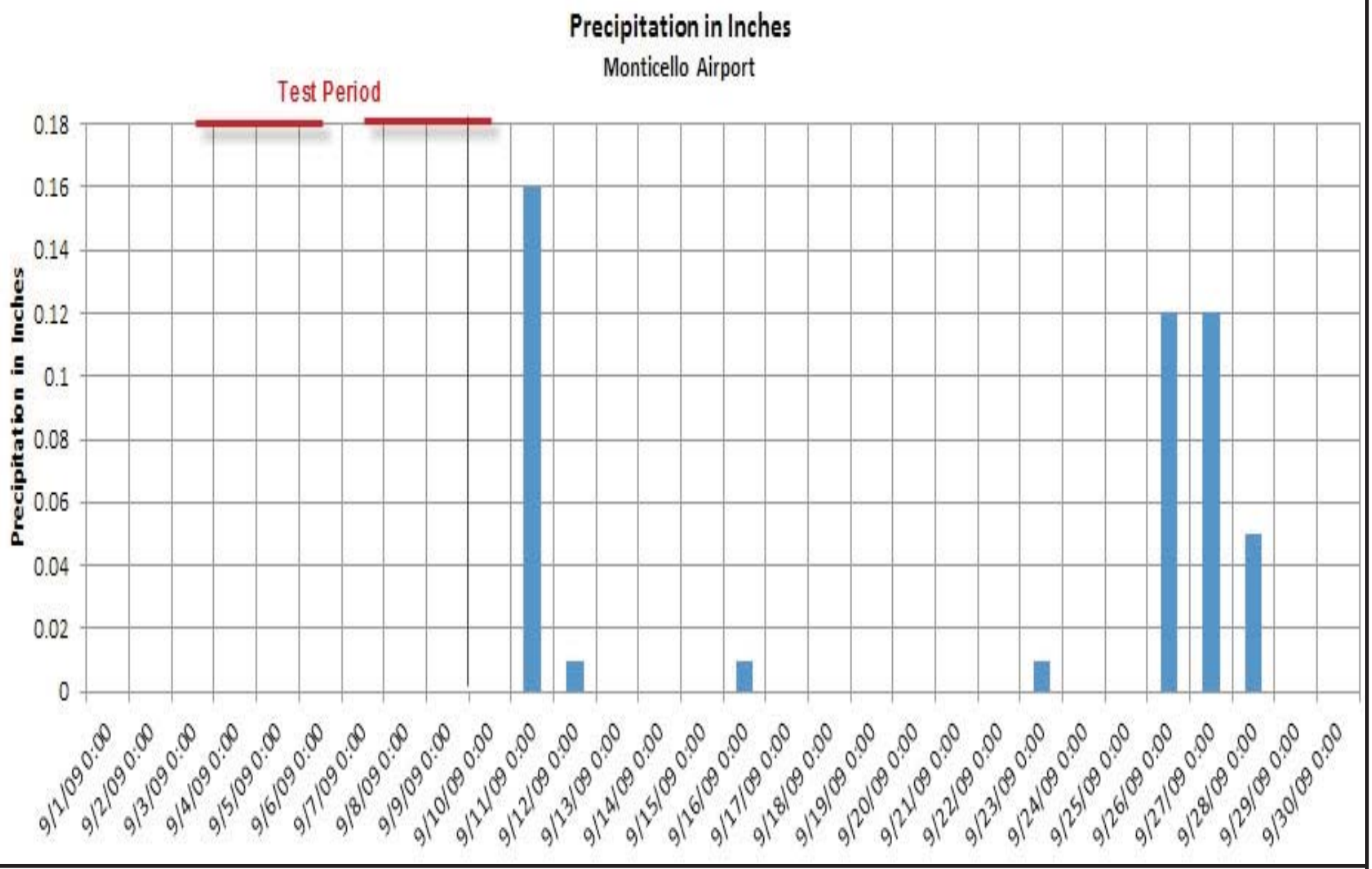
Raleigh and Heiden Properties

Town of Fallsburg, Sullivan County, NY

Source: SSEC

Date: May 2011

Tim Miller Associates, Inc.,10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418



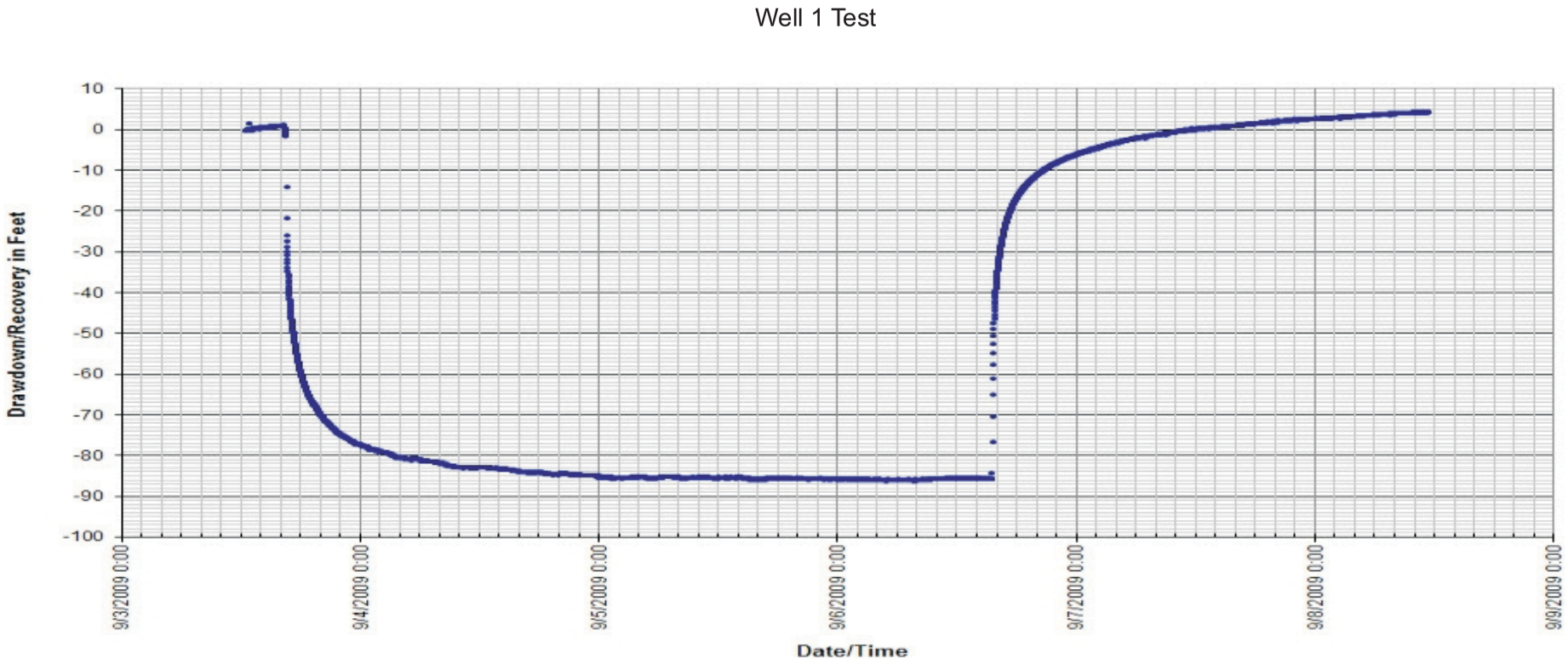
Graph 5: Precipitation in Inches during Test Periods

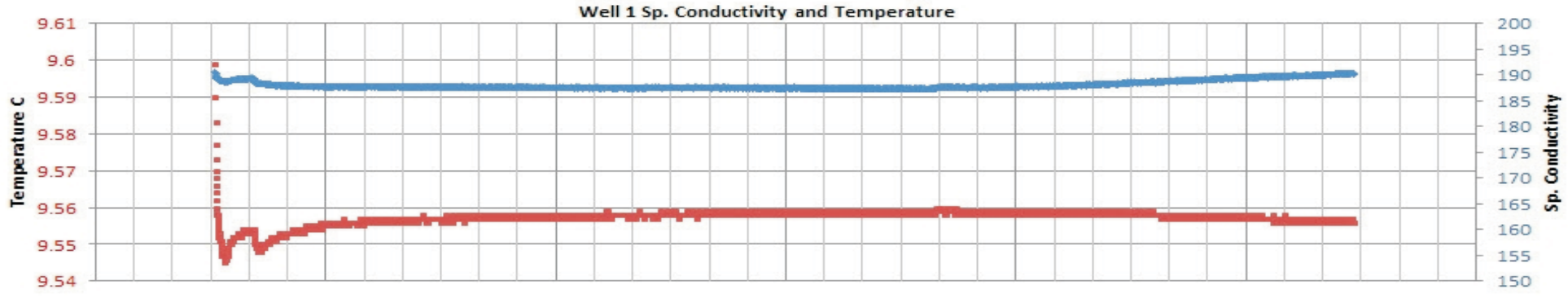
Raleigh and Heiden Properties

Town of Fallsburg, Sullivan County, NY

Source: SSEC

Date: May 2011

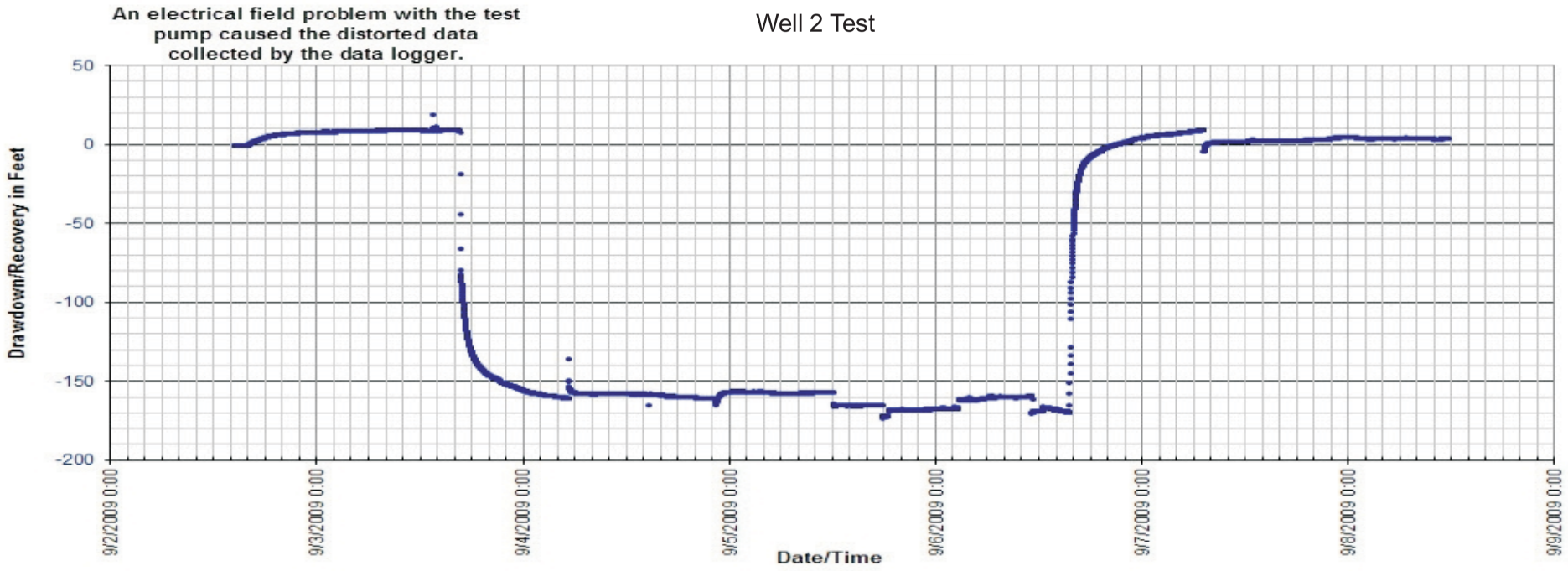


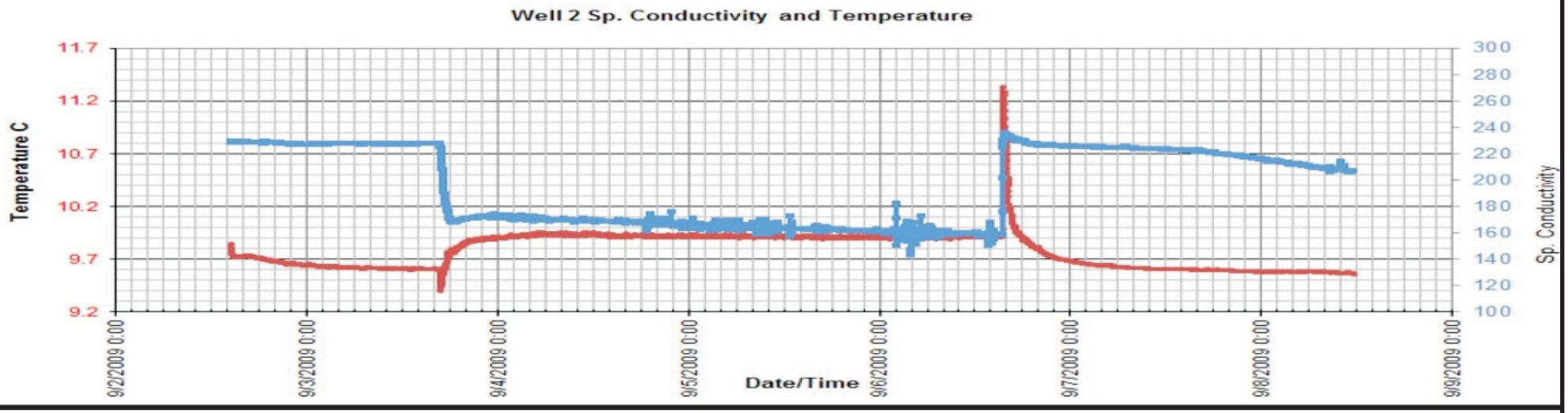


Graph 6: Well 1 Test

Raleigh and Heiden Properties
Town of Fallsburg, Sullivan County, NY
Source: SSEC
Date: May 2011

Tim Miller Associates, Inc.,10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418





Graph 7: Well 2 Test

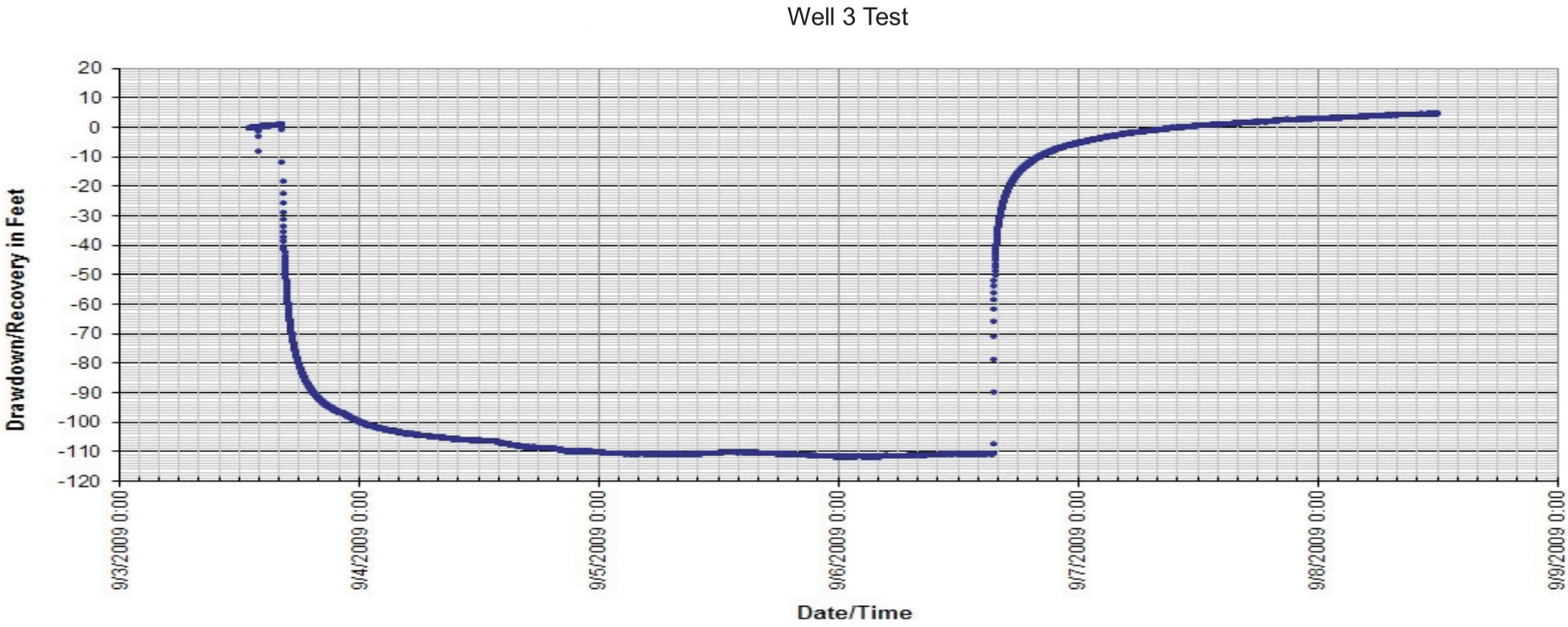
Raleigh and Heiden Properties

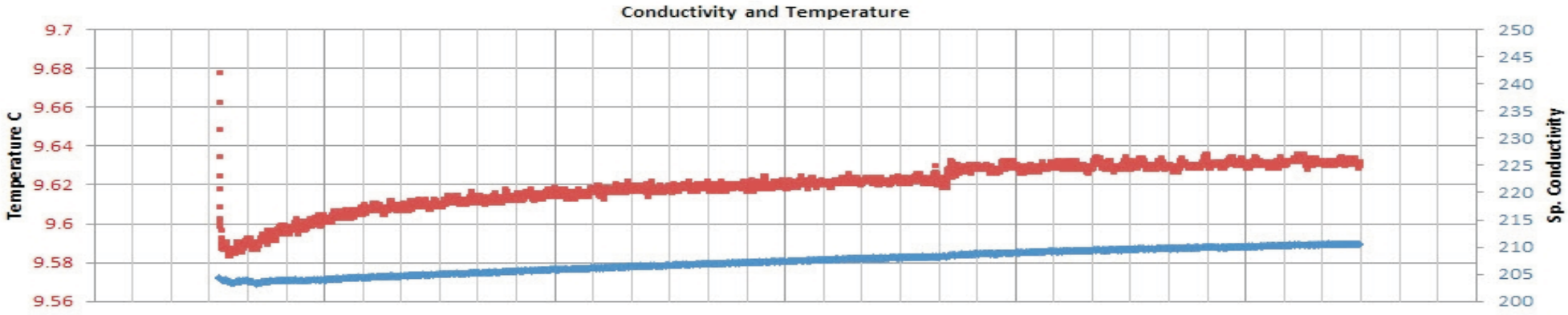
Town of Fallsburg, Sullivan County, NY

Source: SSEC

Date: May 2011

Tim Miller Associates, Inc.,10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418

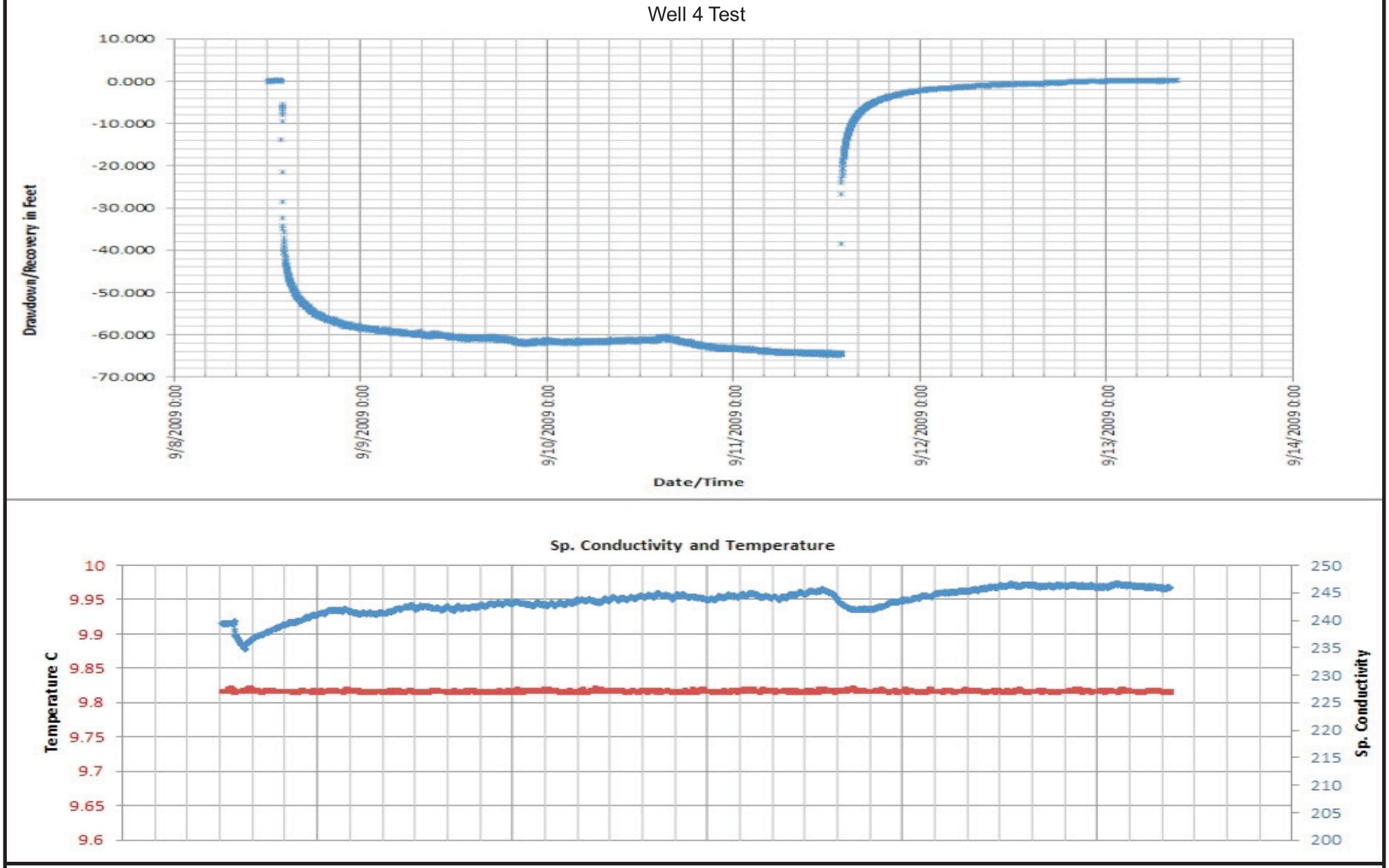




Graph 8: Well 3 Test

Raleigh and Heiden Properties
Town of Fallsburg, Sullivan County, NY
Source: SSEC
Date: May 2011

Tim Miller Associates, Inc.,10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418



Graph 9: Well 4 Test

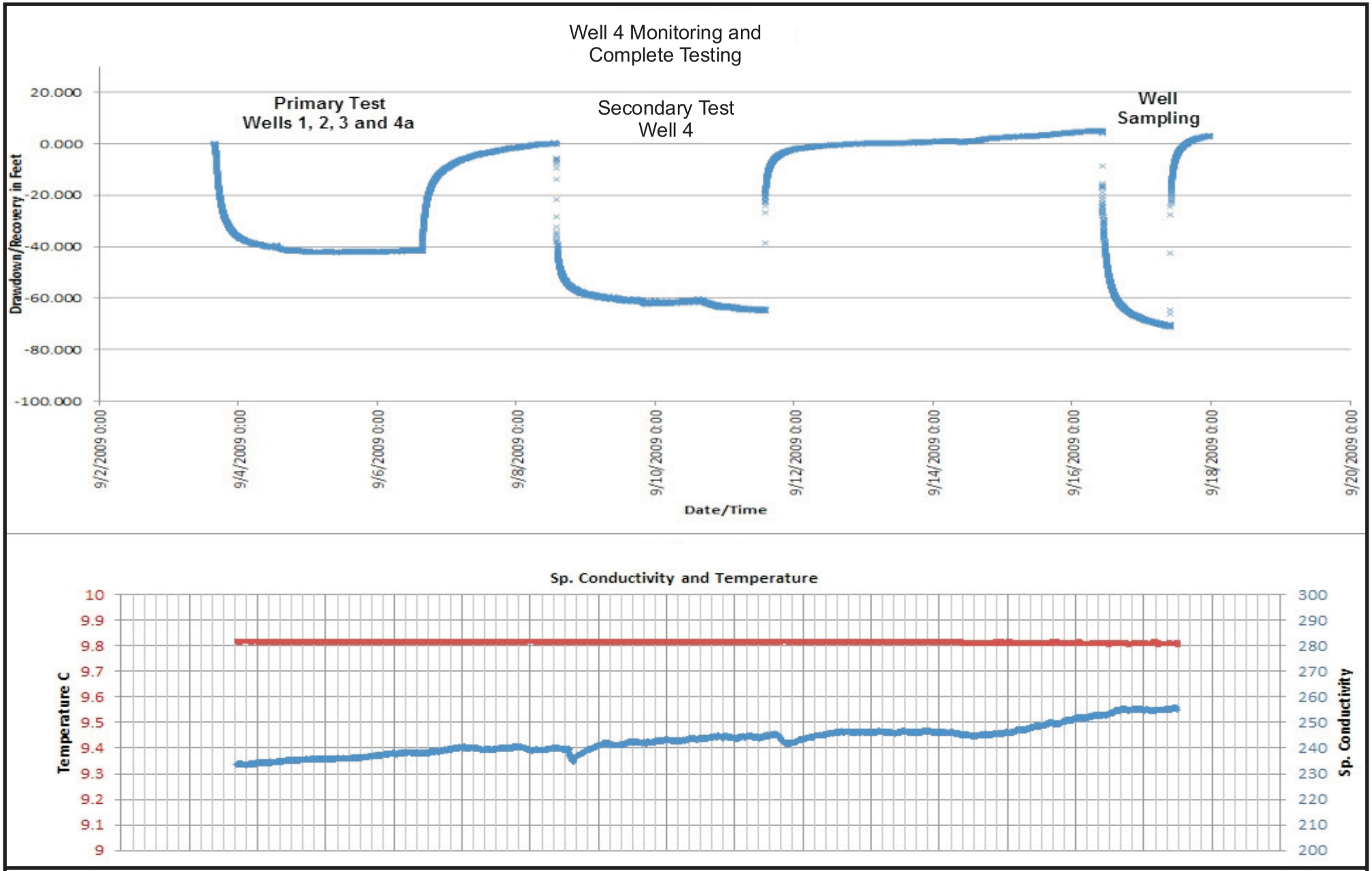
Raleigh and Heiden Properties

Town of Fallsburg, Sullivan County, NY

Source: SSEC

Date: May 2011

Tim Miller Associates, Inc.,10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418



Graph 10: Well 4 Monitoring and Test Period During Complete Test

Raleigh and Heiden Properties

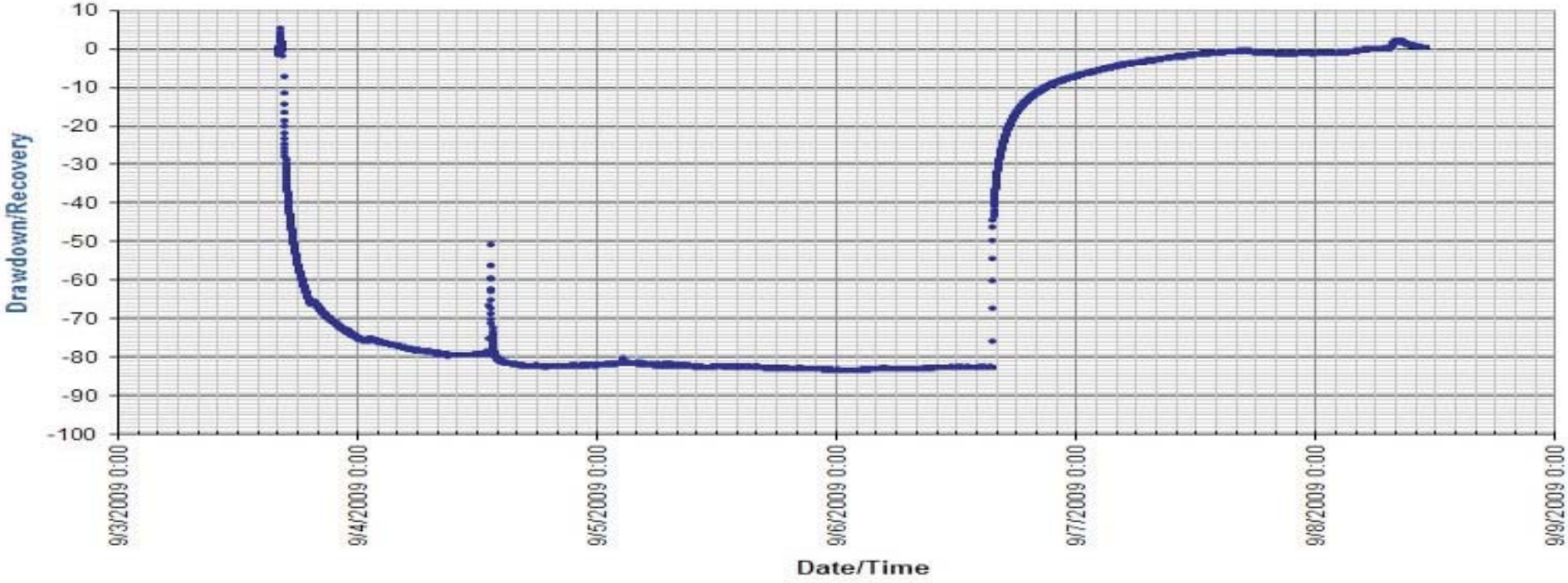
Town of Fallsburg, Sullivan County, NY

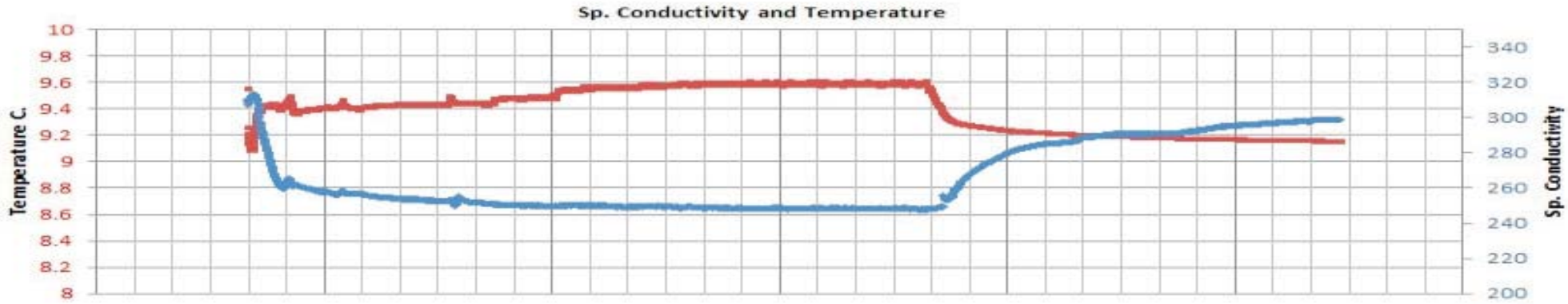
Source: SSEC

Date: May 2011

Tim Miller Associates, Inc.,10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418

Well 4A Test





Graph 11: Well 4A Test

Raleigh and Heiden Properties
Town of Fallsburg, Sullivan County, NY
Source: SSEC
Date: May 2011

Tim Miller Associates, Inc.,10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418

APPENDIX F

Analytical Reports and Table

Table 1
Raleigh and Heiden Properties Development
Sub-Part 5 Analytical
September 17, 2009

Parameter	Method	Standard	Well-1	Well-2	Well-3	Well-4	Well-4A	Units
Corrosivity (Langelier Index)	SM2330B	**NA**	-0.18	0.14	-0.61	-0.59	-1.4	Index Limit
1,1,1,2-Tetrachloroethane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Trichloroethene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
trans-1,3-Dichloropropene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
trans-1,2-Dichloroethene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Toluene		**5**	<0.50	2.3	1.4	<0.50	<0.50	ug/L
Tetrachloroethene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
tert-Butylbenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Styrene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
sec-Butylbenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
o-Xylene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Naphthalene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
n-Propylbenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
n-Butylbenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Methylene Chloride		**5**	<1.0	<1.0	<1.0	<1.0	<1.0	ug/L
Methyl-tert-butyl-ether (MTBE)		**10**	<1.0	<1.0	<1.0	<1.0	<1.0	ug/L
m&p-Xylene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Isopropylbenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Hexachlorobutadiene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Ethylene Dibromide		**0.05**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Ethylbenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Dichlorodifluoromethane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Bromodichloromethane		**80**[C]	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Dibromomethane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
cis-1,3-Dichloropropene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
cis-1,2-Dichloroethene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Chloromethane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Chloroform		**80**[C]	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Chloroethane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Dibromochloromethane		**80**[C]	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Bromochloromethane	EPA 502.2	**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Trichlorofluoromethane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Chlorobenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Carbon tetrachloride		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Bromomethane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Bromoform		**80**[C]	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Bromobenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Benzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
4-Isopropyltoluene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
4-Chlorotoluene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
2-Chlorotoluene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
2,2-Dichloropropane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,4-Dichlorobenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,3-Dichloropropane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,3-Dichlorobenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,3,5-Trimethylbenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,2-Dichloropropane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,2-Dichloroethane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,2-Dichlorobenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,2-Dibromo-3-chloropropane		**0.2**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,2,4-Trimethylbenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,2,4-Trichlorobenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,2,3-Trichloropropane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,2,3-Trichlorobenzene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,1-Dichloropropene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,1-Dichloroethene		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,1-Dichloroethane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,1,2-Trichloroethane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,1,2,2-Tetrachloroethane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
1,1,1-Trichloroethane		**5**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Vinyl chloride		**2**	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L
Iron (Fe)		**300**	**2,600**	**1,000**	<100	<100	**320**	ug/L
Manganese (Mn)		**300**	100	67	<15	<15	110	ug/L
Iron & Manganese (Combined)	EPA 200.7	**500**	**2,700**	**1,067**	<115	<115	430	ug/L
Sodium (Na)		**20,000**[B]	35,000	34,000	26,000	28,000	33,000	ug/L
Zinc (Zn)		**5,000**	180	53	67	89	620	ug/L

Table 1
Raleigh and Heiden Properties Development
Sub-Part 5 Analytical
September 17, 2009

Parameter	Method	Standard	Well-1	Well-2	Well-3	Well-4	Well-4A	Units
Silver (Ag)	EPA 200.8	**100**	<1.0	<1.0	<1.0	<1.0	<1.0	ug/L
Lead (Pb)		**15**	1.7	3.0	<1.0	<1.0	<1.0	ug/L
Arsenic (As)		**10**	5.5	4.4	7.1	4.3	2.6	ug/L
Beryllium (Be)		**4**	<1.0	<1.0	<1.0	<1.0	<1.0	ug/L
Cadmium (Cd)		**5**	<1.0	<1.0	<1.0	<1.0	<1.0	ug/L
Chromium (Cr)		**100**	4.9	<2.0	<2.0	2.3	<2.0	ug/L
Copper (Cu)		**1,300**	41	<2.1	<2.1	<2.1	2.7	ug/L
Nickel (Ni)		**100**	4.3	<1.1	<1.1	<1.1	1.2	ug/L
Antimony (Sb)		**6**	<2.0	<2.0	<2.0	<2.0	<2.0	ug/L
Thallium (Tl)		**2**	<1.0	<1.0	<1.0	<1.0	<1.0	ug/L
Barium (Ba)		**2,000**	450	37	150	97	180	ug/L
Selenium (Se)	EPA 200	**50**	<5.0	<5.0	<5.0	<5.0	<5.0	ug/L
Mercury (Hg)	EPA 245.1	**2**	<0.20	<2.0	<0.20	<0.20	<0.20	ug/L
Hardness, Calcium (as $CaCO_3$)	SM2340B	**150**[A]	24	16	41	32	33	mg/L
Nitrate as N	EPA 300	**10**	<0.25	<0.25	<0.25	<0.25	<0.25	mg/L
Nitrite as N		**1**	<0.25	<0.25	<0.25	<0.25	<0.25	mg/L
Total Nitrate and Nitrite		**10**	<0.50	<0.50	<0.50	<0.50	<0.50	mg/L
Sulfate		**250**	5.7	5.7	6.3	5.6	8.9	mg/L
Chloride		**250**	10	7.8	10	8.2	20	mg/L
Color	SM2120B	**15 Units**	10	15	10	5.0	10	Pt/Co
Turbidity	SM2130B	**5**	**22**	**37**	4.4	1.1	13	NTU
Odor	SM2150B	**3 Units**	1.0	1.0	1.0	1.0	1.0	------
Alkalinity, Total as $CaCO_3$	SM2320B	**	88	96	87	84	88	mg/L
Solids, Total Dissolved (TDS)	SM2540C	**NA**	120	120	140	140	150	mg/L
Cyanide (free)	SM4500 CN E	**0.2**	0.012	0.019	<0.010	<0.010	<0.010	mg/L
Cyanide (total)	SM4500 CN E	**0.2**	<0.010	<0.010	<0.010	<0.010	<0.010	mg/L
Fluoride	SM4500 F C	**2.2**	<0.20	<0.20	<0.20	<0.20	<0.20	mg/L
pH	4500H+B	**	8.66	8.88	7.93	8.10	7.25	SU
Coliform, Fecal	SM9222D	**NA***	<1.0	<10	<1.0	<1.0	<1.0	CFU/100 mL
Coliform, Total	SM9223	**NA***	<1.0	<1.0	<1.0	<1.0	<1.0	CFU/100 mL
E. Coliform	SM9223	**NA***	<1.0	<1.0	<1.0	<1.0	<1.0	CFU/100 mL
Heterotrophic Plate Count	SM9215B	**NA*****	170	8.0	10	77	120	CFU/mL
Alachlor	EPA 525.2	**2**	<0.033	<0.033	<0.033	<0.033	<0.033	ug/L
Atrazine		**3**	<0.022	<0.022	<0.022	<0.022	<0.022	ug/L
Benzo (a) pyrene		**0.2**	<0.029	<0.029	<0.029	<0.029	<0.029	ug/L
Bis(2-ethylhexyl)phthalate		**6**	<0.61	0.82	<0.61	<0.61	<0.61	ug/L
Di(2-ethylhexyl)adipate		**5**	<0.61	<0.061	<0.61	<0.61	<0.61	ug/L
Hexachlorobenzene		**1**	<0.041	<0.041	<0.041	<0.041	<0.041	ug/L
Hexachlorocyclopentadiene		**5**	<0.042	<0.042	<0.042	<0.042	<0.042	ug/L
Butachlor		**5**	<0.032	<0.032	<0.032	<0.032	<0.032	ug/L
Simazine		**4**	<0.035	<0.035	<0.035	<0.035	<0.035	ug/L
Metolachlor		**5**	<0.020	<0.020	<0.020	<0.020	<0.020	ug/L
Metribuzin		**5**	<0.022	<0.022	<0.022	<0.022	<0.022	ug/L
Propachlor		**5**	<0.025	<0.025	<0.025	<0.025	<0.025	ug/L
Bromate	EPA 300.1B	**10**	<2.6	<2.6	<2.6	<2.6	<2.6	ug/L
3-Hydroxycarbofuran	EPA 531.1	**5**	<0.31	<0.31	<0.31	<0.31	<0.31	ug/L
Oxamyl		**5**	<0.35	<0.35	<0.35	<0.35	<0.35	ug/L
Carbofuran		**40**	<0.43	<0.43	<0.43	<0.43	<0.43	ug/L
Aldicarb		**3**	<0.41	<0.41	<0.41	<0.41	<0.41	ug/L
Aldicarb sulfone		**2**	<0.25	<0.25	<0.25	<0.25	<0.25	ug/L
Aldicarb sulfoxide		**4**	<0.25	<0.25	<0.25	<0.25	<0.25	ug/L
Carbaryl		**5**	<0.31	<0.31	<0.31	<0.31	<0.31	ug/L
Methomyl		**5**	<0.49	<0.49	<0.49	<0.49	<0.49	ug/L
1,2-Dibromo-3-chloropropane	EPA 504.1	**0.2**	<0.0030	<0.0030	<0.0031	<0.0030	<0.0030	ug/L
Ethylene Dibromide	EPA 504.1	**0.05**	<0.0073	<0.0072	<0.0074	<0.0073	<0.0072	ug/L
Aldrin	EPA 508	**5**	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	ug/L
Chlordane		**2**	<0.11	<0.11	<0.12	<0.11	<0.11	ug/L
Endrin		**2**	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	ug/L
HCH-gamma (Lindane)		**0.2**	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	ug/L
Heptachlor		**0.4**	<0.0059	<0.0059	<0.0061	<0.0059	<0.0059	ug/L
Heptachlor epoxide		**0.2**	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	ug/L
Methoxychlor		**40**	<0.0074	<0.0074	<0.0075	<0.0074	<0.0074	ug/L
Dieldrin		**5**	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	ug/L
PCB-1016		**0.5**	<0.064	<0.064	<0.065	<0.064	<0.064	ug/L
PCB-1221		**0.5**	<0.048	<0.048	<0.049	<0.048	<0.048	ug/L
PCB-1232		**0.5**	<0.092	<0.092	<0.094	<0.092	<0.092	ug/L
PCB-1242		**0.5**	<0.13	<0.13	<0.13	<0.13	<0.13	ug/L
PCB-1248		**0.5**	<0.046	<0.046	<0.047	<0.046	<0.046	ug/L
PCB-1254		**0.5**	<0.048	<0.048	<0.049	<0.048	<0.048	ug/L
PCB-1260		**0.5**	<0.047	<0.047	<0.048	<0.047	<0.047	ug/L
Toxaphene		**3**	<0.055	<0.055	<0.056	<0.055	<0.055	ug/L
Polychlorinated biphenyls, Total		**0.5**	<0.042	<0.042	<0.043	<0.042	<0.042	ug/L

Table 1
Raleigh and Heiden Properties Development
Sub-Part 5 Analytical
September 17, 2009

Parameter	Method	Standard	Well-1	Well-2	Well-3	Well-4	Well-4A	Units
2,4-D	EPA 515.1	**50**	<0.037	<0.037	<0.036	<0.036	<0.036	ug/L
Dalapon		**5**	<1.0	<1.0	<0.98	<0.96	<0.96	ug/L
Dinoseb		**7**	<0.15	<0.15	<0.15	<0.14	<0.14	ug/L
Pentachlorophenol		**1**	<0.038	<0.038	<0.037	<0.037	<0.037	ug/L
Picloram		**5**	<0.077	<0.078	<0.075	<0.074	<0.074	ug/L
Dicamba		**5**	<0.085	<0.086	<0.083	<0.082	<0.082	ug/L
Silvex (2,4,5-TP)		**10**	<0.060	<0.061	<0.059	<0.058	<0.058	ug/L
Chlorite	EPA 300.1B	**1,000**	<20	<20	<20	<20	<20	ug/L
Radium 226	EPA 903.0	**5 Combined**	0.59J	0.25J	0.10J	<0.15	0.39J	pCi/L
Radium 228	EPA 904.0		<0.28	0.43J	0.03J	<-0.07	<0.15	pCi/L
Uranium	ASTM 5174-91	**30**	3.88	5.09	5.72	3.65	2.46	ug/L
Gross alpha	EPA 900	**15**	5.3	5.5	5.1	2.7J	1.6J	pCi/L
Gross beta		******	4.6	4.6	2.0J	3.4J	2.5J	pCi/L
Radon	SM7500-RnB	**NVA**	1,330(+/-40)	1,360(+/-40)	1,960(+/-40)	830(+/-40)	1,650(+/-40)	pCi/L

Notes:

[A] - Guidance value to determine if the water is hard and is in need for a water softner system and/or a special septic engineer requirements for disposal of calcium build-up.

[B] - Water containing more than 20 mg/L (or 20,000 ug/L) of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/L (or 270,000) should not be used for drinking by people on moderately restriced sodium diets.

[C] - Total Trihalomethanes can not exceed 80 ppb, considered a disinfection byproduct.

* - total coliform and e-coli and fecal coliform can not be present in water supply systems that are currently supplying water to the puplic. These samples collected for these spefic wells are raw water samples before any treatment.

** - Alkalinity, Total as CaCO3 ranging from 120-240 mg/L should have a pH of approximatly 7.0.

*** - Turbidity is measured by entery points for surface water and groundwater directly influenced by surface water. It is assumed that these wells are not influenced but surface water.

**** - Four Millirens/year - concentrations determined by Health Department.

***** - If chlorine is used as the disinfectant, a free chlorine residual determination shall be made at the same time and location that the sample is collected for total coliform analysis. Monitoring for heterotrophic bacteria may be substituted for free chlorine residuals. A heterotrophic plate count result equal to or less than 500 colonies per milliliter is considered to be equivalent to a measurable free chlorine residual.

****** - Four millirems per year as the annual dose equivalent to the total body or any internal organ.

NA - Not Applicable
mf/L - million fibers per liter
ug/L - micrograms per liter (ppb-parts per billion).
mg/L - milligrams per liter (ppm-parts per million).
NSB - no asbestos detected
pCi/L - picocuries per liter
NVA - no value available

ANALYTICAL REPORT

Job Number: 420-30027-1

Job Description: Tim Miller Associates, Inc.

For:
Tim Miller Associates, Inc.
10 North Street
Cold Spring, NY 10516

Attention: Ms. Maureen Fisher

Debra Bayer
Customer Service Manager
dbayer@envirotestlaboratories.com
11/25/2009

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

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC VOA
Method 502.2: The laboratory control standard (LCS) for batch 34367 exceeded control limits for the analytes indicated by an asterisk (*) on the results form. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported with confidence of no false negatives.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Biology
No analytical or quality issues were noted.

METHOD SUMMARY

Client: Tim Miller Associates, Inc. Job Number: 420-30027-1

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
ICPMS Metals by 200.8	EnvTest	EPA 200.8	
200 Series Drinking Water Prep Determination Step	EnvTest		EPA 200
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	
Volatile Organic Compounds by Purge and Trap (Preserved)	EnvTest	EPA 502.2	
EPA 504.1 EDB		EPA 504.1	
EPA 508 Chlorinated Pesticides in Water		EPA 508	
EPA 515 Chlorinated Acids		EPA 515	
EPA 525.2 Semivolatile Organics		EPA 525.2	
EPA 531.1 Carbamate Pesticides in Drinki		STL-SAV 531.1	
EPA 900 Series GA/GB/RA226/RA228/Gamma		STL-RCH 900	
Uranium		STL-STL EPA	
Color, Colorimetric	EnvTest	SM18 SM 2120B	
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
Fluoride (Ion-selective Electrode)	EnvTest	SM18 SM 4500 F C	
pH	EnvTest	SM19 SM 4500 H+ B	
Heterotrophic Plate Count	EnvTest	SM18 SM 9215B	
Membrane Filter Technique - Fecal Coliform Procedure	EnvTest	SM18 SM 9222D	
Total Coliform and Escherichia coli by Colilert - Quantity Tray	EnvTest	SMWW SM 9223	
General Sub Contract Method		Subcontract	

Lab References:

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EnvTest = EnviroTest

METHOD SUMMARY

Client: Tim Miller Associates, Inc. Job Number: 420-30027-1

Description	Lab Location	Method	Preparation Method

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.

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."

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

STL-RCH = Severn Trent Laboratories, Richland, Facility Standard Operating Procedure.

STL-SAV = Severn Trent Laboratories, Savannah, Facility Standard Operating Procedure.

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

SAMPLE SUMMARY

Client: Tim Miller Associates, Inc. Job Number: 420-30027-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-30027-1	Raleigh Hotel Well 1	Water	09/17/2009 1030	09/17/2009 1231
420-30027-2	Raleigh Hotel Well 2	Water	09/17/2009 1015	09/17/2009 1231
420-30027-3	Raleigh Hotel Well 3	Water	09/17/2009 0945	09/17/2009 1231
420-30027-4	Raleigh Hotel Well 4	Water	09/17/2009 1130	09/17/2009 1231
420-30027-5	Raleigh Hotel Well 4A	Water	09/17/2009 1100	09/17/2009 1231

Ms. Maureen Fisher
Tim Miller Associates, Inc.
10 North Street
Cold Spring, NY 10516

Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 1
Lab Sample ID: 420-30027-1

Date Sampled: 09/17/2009 1030
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: SM 2330B		Date Analyzed:	09/28/2009 0914		
Langelier Index	-0.18	NONE			1.0

Ms. Maureen Fisher
Tim Miller Associates, Inc.
10 North Street
Cold Spring, NY 10516

Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 1
Lab Sample ID: 420-30027-1

Date Sampled: 09/17/2009 1030
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 502.2			Date Analyzed:	09/19/2009 0318		
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Toluene	0.50	U	ug/L	0.50	0.50	1.0
Tetrachloroethene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
N-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	1.0	U	ug/L	1.0	1.0	1.0
Methyl tert-butyl ether	1.0	U	ug/L	1.0	1.0	1.0
m-Xylene & p-Xylene	0.50	U	ug/L	0.50	0.50	1.0
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0
Ethylene Dibromide	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0

Ms. Maureen Fisher
Tim Miller Associates, Inc.
10 North Street
Cold Spring, NY 10516

Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 1
Lab Sample ID: 420-30027-1

Date Sampled: 09/17/2009 1030
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U *	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dibromo-3-Chloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U	ug/L	0.50	0.50	1.0
Method: 200.7 Rev 4.4			Date Analyzed:	09/24/2009 1134		
Prep Method: 200			Date Prepared:	09/22/2009 1005		
Fe	2600	g	ug/L	100	100	1.0
Mn	100		ug/L	15	15	1.0
Na	35000		ug/L	5000	5000	1.0
Zn	180		ug/L	20	20	1.0
Method: 200.8			Date Analyzed:	09/28/2009 1400		
Prep Method: 200			Date Prepared:	09/22/2009 1011		
Ag	1.0	U	ug/L	1.0	1.0	1.0
Pb	1.7		ug/L	1.0	1.0	1.0
Arsenic	5.5		ug/L	1.0	1.0	1.0
Be	1.0	U	ug/L	1.0	1.0	1.0
Cadmium	1.0	U	ug/L	1.0	1.0	1.0
Chromium	4.9		ug/L	2.0	2.0	1.0
Cu	41		ug/L	2.1	2.1	1.0
Ni	4.3		ug/L	1.1	1.1	1.0
Sb	2.0	U	ug/L	2.0	2.0	1.0
Tl	1.0	U	ug/L	1.0	1.0	1.0
Barium	450		ug/L	2.0	2.0	1.0
Method: 200.8			Date Analyzed:	10/01/2009 1225		

Ms. Maureen Fisher
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 1
Lab Sample ID: 420-30027-1

Date Sampled: 09/17/2009 1030
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Prep Method: 200			Date Prepared:	09/29/2009 0959		
Selenium	5.0	U	ug/L	5.0	5.0	1.0
Method: 245.1			Date Analyzed:	09/21/2009 1235		
Prep Method: 245.1			Date Prepared:	09/18/2009 1415		
Hg	0.20	U	ug/L	0.20	0.20	1.0
Method: SM 2340B			Date Analyzed:	09/24/2009 1037		
Calcium hardness as calcium carbonate	24		mg/L	2.5	2.5	1.0
Method: 300.0			Date Analyzed:	09/18/2009 1211		
Nitrate as N	0.25	U	mg/L	0.25	0.25	1.0
Nitrite as N	0.25	U	mg/L	0.25	0.25	1.0
Sulfate	5.7		mg/L	5.0	5.0	1.0
Method: 300.0			Date Analyzed:	09/18/2009 1404		
Chloride	10		mg/L	1.5	1.5	1.0
Method: SM 2120B			Date Analyzed:	09/18/2009 1245		
Color	10		Color Units	2.5	2.5	1.0
Method: SM 2130B			Date Analyzed:	09/18/2009 1400		
Turbidity	22	g	NTU	0.10	0.10	1.0
Method: SM 2150B			Date Analyzed:	09/18/2009 1245		
Odor	1.0		Units for Odor	1.0	1.0	1.0
Method: SM 2320B			Date Analyzed:	09/18/2009 1644		
Alkalinity	88		mg/L	5.0	5.0	1.0
Method: SM 2540C			Date Analyzed:	09/23/2009 0930		
Total Dissolved Solids	120		mg/L	5.0	5.0	1.0
Method: SM 4500 CN E			Date Analyzed:	09/21/2009 1515		
Cyanide, Free	0.012		mg/L	0.010	0.010	1.0
Method: SM 4500 CN E			Date Analyzed:	09/21/2009 1515		
Prep Method:			Date Prepared:	09/21/2009 1330		
Cyanide, Total	0.010	U	mg/L	0.010	0.010	1.0
Method: SM 4500 F C			Date Analyzed:	09/22/2009 1018		
Fluoride	0.20	U	mg/L	0.20	0.20	1.0
Method: SM 4500 H+ B			Date Analyzed:	09/17/2009 1339		
pH	8.66		SU	0.200	0.200	1.0
Method: SM 9222D			Date Analyzed:	09/17/2009 1636		
Coliform, Fecal	1.0	U	CFU/100mL	1.0	1.0	1.0

Ms. Maureen Fisher
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10 North Street
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 1
Lab Sample ID: 420-30027-1

Date Sampled: 09/17/2009 1030
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: SM 9223			Date Analyzed:		09/17/2009 1720	
Coliform, Total	1.0	U	CFU/100mL	1.0	1.0	1.0
Escherichia coli	1.0	U	CFU/100mL	1.0	1.0	1.0
Method: SM 9215B			Date Analyzed:		09/17/2009 1615	
Heterotrophic Plate Count	170		CFU/mL	2.0	2.0	1.0

Ms. Maureen Fisher
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 2
Lab Sample ID: 420-30027-2

Date Sampled: 09/17/2009 1015
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: SM 2330B			Date Analyzed:	09/28/2009 0914	
Langelier Index	0.14	NONE			1.0

Ms. Maureen Fisher
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 2
Lab Sample ID: 420-30027-2

Date Sampled: 09/17/2009 1015
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 502.2			Date Analyzed:	09/19/2009 0408		
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Toluene	2.3		ug/L	0.50	0.50	1.0
Tetrachloroethene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
N-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	1.0	U	ug/L	1.0	1.0	1.0
Methyl tert-butyl ether	1.0	U	ug/L	1.0	1.0	1.0
m-Xylene & p-Xylene	0.50	U	ug/L	0.50	0.50	1.0
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0
Ethylene Dibromide	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0

Ms. Maureen Fisher
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 2
Lab Sample ID: 420-30027-2

Date Sampled: 09/17/2009 1015
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U *	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dibromo-3-Chloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U	ug/L	0.50	0.50	1.0
Method: 200.7 Rev 4.4			Date Analyzed:	09/24/2009 1138		
Prep Method: 200			Date Prepared:	09/22/2009 1005		
Fe	1000	g	ug/L	100	100	1.0
Mn	67		ug/L	15	15	1.0
Na	34000		ug/L	5000	5000	1.0
Zn	53		ug/L	20	20	1.0
Method: 200.8			Date Analyzed:	09/28/2009 1402		
Prep Method: 200			Date Prepared:	09/22/2009 1011		
Ag	1.0	U	ug/L	1.0	1.0	1.0
Pb	3.0		ug/L	1.0	1.0	1.0
Arsenic	4.4		ug/L	1.0	1.0	1.0
Be	1.0	U	ug/L	1.0	1.0	1.0
Cadmium	1.0	U	ug/L	1.0	1.0	1.0
Chromium	2.0	U	ug/L	2.0	2.0	1.0
Cu	2.1	U	ug/L	2.1	2.1	1.0
Ni	1.1	U	ug/L	1.1	1.1	1.0
Sb	2.0	U	ug/L	2.0	2.0	1.0
Tl	1.0	U	ug/L	1.0	1.0	1.0
Barium	37		ug/L	2.0	2.0	1.0
Method: 200.8			Date Analyzed:	10/01/2009 1227		

Ms. Maureen Fisher
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 2
Lab Sample ID: 420-30027-2

Date Sampled: 09/17/2009 1015
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Prep Method: 200			Date Prepared:	09/29/2009 0959		
Selenium	5.0	U	ug/L	5.0	5.0	1.0
Method: 245.1			Date Analyzed:	09/21/2009 1237		
Prep Method: 245.1			Date Prepared:	09/18/2009 1415		
Hg	0.20	U	ug/L	0.20	0.20	1.0
Method: SM 2340B			Date Analyzed:	09/24/2009 1037		
Calcium hardness as calcium carbonate	16		mg/L	2.5	2.5	1.0
Method: 300.0			Date Analyzed:	09/18/2009 1221		
Nitrate as N	0.25	U	mg/L	0.25	0.25	1.0
Nitrite as N	0.25	U	mg/L	0.25	0.25	1.0
Sulfate	5.7		mg/L	5.0	5.0	1.0
Method: 300.0			Date Analyzed:	09/18/2009 1435		
Chloride	7.8		mg/L	1.5	1.5	1.0
Method: SM 2120B			Date Analyzed:	09/18/2009 1245		
Color	15		Color Units	2.5	2.5	1.0
Method: SM 2130B			Date Analyzed:	09/18/2009 1400		
Turbidity	37	g	NTU	0.10	0.10	1.0
Method: SM 2150B			Date Analyzed:	09/18/2009 1245		
Odor	1.0		Units for Odor	1.0	1.0	1.0
Method: SM 2320B			Date Analyzed:	09/18/2009 1653		
Alkalinity	96		mg/L	5.0	5.0	1.0
Method: SM 2540C			Date Analyzed:	09/23/2009 0930		
Total Dissolved Solids	120		mg/L	5.0	5.0	1.0
Method: SM 4500 CN E			Date Analyzed:	09/21/2009 1515		
Cyanide, Free	0.019		mg/L	0.010	0.010	1.0
Method: SM 4500 CN E			Date Analyzed:	09/21/2009 1515		
Prep Method:			Date Prepared:	09/21/2009 1330		
Cyanide, Total	0.010	U	mg/L	0.010	0.010	1.0
Method: SM 4500 F C			Date Analyzed:	09/22/2009 1018		
Fluoride	0.20	U	mg/L	0.20	0.20	1.0
Method: SM 4500 H+ B			Date Analyzed:	09/17/2009 1500		
pH	8.88		SU	0.200	0.200	1.0
Method: SM 9222D			Date Analyzed:	09/17/2009 1636		
Coliform, Fecal	1.0	U	CFU/100mL	1.0	1.0	1.0

Ms. Maureen Fisher
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10 North Street
Cold Spring, NY 10516

Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 2
Lab Sample ID: 420-30027-2

Date Sampled: 09/17/2009 1015
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: SM 9223			Date Analyzed:		09/17/2009 1720	
Coliform, Total	1.0	U	CFU/100mL	1.0	1.0	1.0
Escherichia coli	1.0	U	CFU/100mL	1.0	1.0	1.0
Method: SM 9215B			Date Analyzed:		09/17/2009 1615	
Heterotrophic Plate Count	8.0		CFU/mL	2.0	2.0	1.0

Ms. Maureen Fisher
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 3
Lab Sample ID: 420-30027-3

Date Sampled: 09/17/2009 0945
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: SM 2330B			Date Analyzed:	09/28/2009 0914	
Langelier Index	-0.61	NONE			1.0

Ms. Maureen Fisher
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 3
Lab Sample ID: 420-30027-3

Date Sampled: 09/17/2009 0945
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 502.2			Date Analyzed:	09/19/2009 0458		
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Toluene	1.4		ug/L	0.50	0.50	1.0
Tetrachloroethene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
N-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	1.0	U	ug/L	1.0	1.0	1.0
Methyl tert-butyl ether	1.0	U	ug/L	1.0	1.0	1.0
m-Xylene & p-Xylene	0.50	U	ug/L	0.50	0.50	1.0
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0
Ethylene Dibromide	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0

Ms. Maureen Fisher
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10 North Street
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 3
Lab Sample ID: 420-30027-3

Date Sampled: 09/17/2009 0945
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U *	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dibromo-3-Chloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U	ug/L	0.50	0.50	1.0
Method: 200.7 Rev 4.4			Date Analyzed:	09/24/2009 1054		
Prep Method: 200			Date Prepared:	09/21/2009 1541		
Fe	100	U	ug/L	100	100	1.0
Mn	15	U	ug/L	15	15	1.0
Na	26000		ug/L	5000	5000	1.0
Zn	67		ug/L	20	20	1.0
Method: 200.8			Date Analyzed:	09/22/2009 1417		
Prep Method: 200			Date Prepared:	09/21/2009 1541		
Ag	1.0	U	ug/L	1.0	1.0	1.0
Pb	1.0	U	ug/L	1.0	1.0	1.0
Arsenic	7.1		ug/L	1.0	1.0	1.0
Be	1.0	U	ug/L	1.0	1.0	1.0
Cadmium	1.0	U	ug/L	1.0	1.0	1.0
Chromium	2.0	U	ug/L	2.0	2.0	1.0
Cu	2.1	U	ug/L	2.1	2.1	1.0
Ni	1.1	U	ug/L	1.1	1.1	1.0
Sb	2.0	U	ug/L	2.0	2.0	1.0
Tl	1.0	U	ug/L	1.0	1.0	1.0
Barium	150		ug/L	2.0	2.0	1.0
Selenium	5.0	U	ug/L	5.0	5.0	1.0

Ms. Maureen Fisher
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 3
Lab Sample ID: 420-30027-3

Date Sampled: 09/17/2009 0945
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 245.1			Date Analyzed:		09/21/2009 1240	
Prep Method: 245.1			Date Prepared:		09/18/2009 1415	
Hg	0.20	U	ug/L	0.20	0.20	1.0
Method: SM 2340B			Date Analyzed:		09/24/2009 1037	
Calcium hardness as calcium carbonate	41		mg/L	2.5	2.5	1.0
Method: 300.0			Date Analyzed:		09/18/2009 1232	
Nitrate as N	0.25	U	mg/L	0.25	0.25	1.0
Nitrite as N	0.25	U	mg/L	0.25	0.25	1.0
Sulfate	6.3		mg/L	5.0	5.0	1.0
Method: 300.0			Date Analyzed:		09/18/2009 1445	
Chloride	10		mg/L	1.5	1.5	1.0
Method: SM 2120B			Date Analyzed:		09/18/2009 1245	
Color	10		Color Units	2.5	2.5	1.0
Method: SM 2130B			Date Analyzed:		09/18/2009 1400	
Turbidity	4.4		NTU	0.10	0.10	1.0
Method: SM 2150B			Date Analyzed:		09/18/2009 1245	
Odor	1.0		Units for Odor	1.0	1.0	1.0
Method: SM 2320B			Date Analyzed:		09/18/2009 1703	
Alkalinity	87		mg/L	5.0	5.0	1.0
Method: SM 2540C			Date Analyzed:		09/24/2009 1013	
Total Dissolved Solids	140		mg/L	5.0	5.0	1.0
Method: SM 4500 CN E			Date Analyzed:		09/21/2009 1515	
Cyanide, Free	0.010	U	mg/L	0.010	0.010	1.0
Method: SM 4500 CN E			Date Analyzed:		09/21/2009 1515	
Prep Method:			Date Prepared:		09/21/2009 1330	
Cyanide, Total	0.010	U	mg/L	0.010	0.010	1.0
Method: SM 4500 F C			Date Analyzed:		09/22/2009 1018	
Fluoride	0.20	U	mg/L	0.20	0.20	1.0
Method: SM 4500 H+ B			Date Analyzed:		09/17/2009 1512	
pH	7.93		SU	0.200	0.200	1.0
Method: SM 9222D			Date Analyzed:		09/17/2009 1636	
Coliform, Fecal	1.0	U	CFU/100mL	1.0	1.0	1.0
Method: SM 9223			Date Analyzed:		09/17/2009 1720	
Coliform, Total	1.0	U	CFU/100mL	1.0	1.0	1.0

Ms. Maureen Fisher
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 3
Lab Sample ID: 420-30027-3

Date Sampled: 09/17/2009 0945
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Escherichia coli	1.0	U	CFU/100mL	1.0	1.0	1.0
Method: SM 9215B			Date Analyzed:		09/17/2009 1615	
Heterotrophic Plate Count	10		CFU/mL	2.0	2.0	1.0

Ms. Maureen Fisher
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 4
Lab Sample ID: 420-30027-4

Date Sampled: 09/17/2009 1130
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: SM 2330B			Date Analyzed:	10/05/2009 1332	
Langelier Index	-0.59	NONE			1.0

Ms. Maureen Fisher
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 4
Lab Sample ID: 420-30027-4

Date Sampled: 09/17/2009 1130
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 502.2			Date Analyzed:	09/19/2009 0548		
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Toluene	0.50	U	ug/L	0.50	0.50	1.0
Tetrachloroethene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
N-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	1.0	U	ug/L	1.0	1.0	1.0
Methyl tert-butyl ether	1.0	U	ug/L	1.0	1.0	1.0
m-Xylene & p-Xylene	0.50	U	ug/L	0.50	0.50	1.0
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0
Ethylene Dibromide	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0

Ms. Maureen Fisher
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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 4
Lab Sample ID: 420-30027-4

Date Sampled: 09/17/2009 1130
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U *	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dibromo-3-Chloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U	ug/L	0.50	0.50	1.0
Method: 200.7 Rev 4.4			Date Analyzed:	09/24/2009 1059		
Prep Method: 200			Date Prepared:	09/21/2009 1541		
Fe	100	U	ug/L	100	100	1.0
Mn	15	U	ug/L	15	15	1.0
Na	28000		ug/L	5000	5000	1.0
Zn	89		ug/L	20	20	1.0
Method: 200.8			Date Analyzed:	09/22/2009 1419		
Prep Method: 200			Date Prepared:	09/21/2009 1541		
Ag	1.0	U	ug/L	1.0	1.0	1.0
Pb	1.0	U	ug/L	1.0	1.0	1.0
Arsenic	4.3		ug/L	1.0	1.0	1.0
Be	1.0	U	ug/L	1.0	1.0	1.0
Cadmium	1.0	U	ug/L	1.0	1.0	1.0
Chromium	2.3		ug/L	2.0	2.0	1.0
Cu	2.1	U	ug/L	2.1	2.1	1.0
Ni	1.1	U	ug/L	1.1	1.1	1.0
Sb	2.0	U	ug/L	2.0	2.0	1.0
Tl	1.0	U	ug/L	1.0	1.0	1.0
Barium	97		ug/L	2.0	2.0	1.0
Selenium	5.0	U	ug/L	5.0	5.0	1.0

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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 4
Lab Sample ID: 420-30027-4

Date Sampled: 09/17/2009 1130
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 245.1			Date Analyzed:		09/21/2009 1325	
Prep Method: 245.1			Date Prepared:		09/18/2009 1415	
Hg	0.20	U	ug/L	0.20	0.20	1.0
Method: SM 2340B			Date Analyzed:		09/24/2009 1037	
Calcium hardness as calcium carbonate	32		mg/L	2.5	2.5	1.0
Method: 300.0			Date Analyzed:		09/18/2009 1242	
Nitrate as N	0.25	U	mg/L	0.25	0.25	1.0
Nitrite as N	0.25	U	mg/L	0.25	0.25	1.0
Sulfate	5.6		mg/L	5.0	5.0	1.0
Method: 300.0			Date Analyzed:		09/18/2009 1455	
Chloride	8.2		mg/L	1.5	1.5	1.0
Method: SM 2120B			Date Analyzed:		09/18/2009 1245	
Color	5.0		Color Units	2.5	2.5	1.0
Method: SM 2130B			Date Analyzed:		09/18/2009 1400	
Turbidity	1.1		NTU	0.10	0.10	1.0
Method: SM 2150B			Date Analyzed:		09/18/2009 1245	
Odor	1.0		Units for Odor	1.0	1.0	1.0
Method: SM 2320B			Date Analyzed:		09/18/2009 1712	
Alkalinity	84		mg/L	5.0	5.0	1.0
Method: SM 2540C			Date Analyzed:		09/24/2009 1013	
Total Dissolved Solids	140		mg/L	5.0	5.0	1.0
Method: SM 4500 CN E			Date Analyzed:		09/21/2009 1515	
Cyanide, Free	0.010	U	mg/L	0.010	0.010	1.0
Method: SM 4500 CN E			Date Analyzed:		09/25/2009 1118	
Prep Method:			Date Prepared:		09/24/2009 0930	
Cyanide, Total	0.010	U	mg/L	0.010	0.010	1.0
Method: SM 4500 F C			Date Analyzed:		09/22/2009 1018	
Fluoride	0.20	U	mg/L	0.20	0.20	1.0
Method: SM 4500 H+ B			Date Analyzed:		09/17/2009 1524	
pH	8.10		SU	0.200	0.200	1.0
Method: SM 9222D			Date Analyzed:		09/17/2009 1636	
Coliform, Fecal	1.0	U	CFU/100mL	1.0	1.0	1.0
Method: SM 9223			Date Analyzed:		09/17/2009 1720	
Coliform, Total	1.0	U	CFU/100mL	1.0	1.0	1.0

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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 4
Lab Sample ID: 420-30027-4

Date Sampled: 09/17/2009 1130
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Escherichia coli	1.0	U	CFU/100mL	1.0	1.0	1.0
Method: SM 9215B			Date Analyzed:		09/17/2009 1615	
Heterotrophic Plate Count	77		CFU/mL	2.0	2.0	1.0

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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 4A
Lab Sample ID: 420-30027-5

Date Sampled: 09/17/2009 1100
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: SM 2330B			Date Analyzed:	10/05/2009 1332	
Langelier Index	-1.4	NONE			1.0

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Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 4A
Lab Sample ID: 420-30027-5

Date Sampled: 09/17/2009 1100
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: 502.2			Date Analyzed:	09/19/2009 0638		
1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
Trichloroethene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Toluene	0.50	U	ug/L	0.50	0.50	1.0
Tetrachloroethene	0.50	U	ug/L	0.50	0.50	1.0
tert-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Styrene	0.50	U	ug/L	0.50	0.50	1.0
sec-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
o-Xylene	0.50	U	ug/L	0.50	0.50	1.0
Naphthalene	0.50	U	ug/L	0.50	0.50	1.0
N-Propylbenzene	0.50	U	ug/L	0.50	0.50	1.0
n-Butylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Methylene Chloride	1.0	U	ug/L	1.0	1.0	1.0
Methyl tert-butyl ether	1.0	U	ug/L	1.0	1.0	1.0
m-Xylene & p-Xylene	0.50	U	ug/L	0.50	0.50	1.0
Isopropylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Hexachlorobutadiene	0.50	U	ug/L	0.50	0.50	1.0
Ethylene Dibromide	0.50	U	ug/L	0.50	0.50	1.0
Ethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
Dichlorodifluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromodichloromethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromomethane	0.50	U	ug/L	0.50	0.50	1.0
cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
Chloromethane	0.50	U	ug/L	0.50	0.50	1.0
Chloroform	0.50	U	ug/L	0.50	0.50	1.0
Chloroethane	0.50	U	ug/L	0.50	0.50	1.0
Dibromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Bromochloromethane	0.50	U	ug/L	0.50	0.50	1.0
Trichlorofluoromethane	0.50	U	ug/L	0.50	0.50	1.0
Chlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
Carbon tetrachloride	0.50	U	ug/L	0.50	0.50	1.0
Bromomethane	0.50	U	ug/L	0.50	0.50	1.0
Bromoform	0.50	U	ug/L	0.50	0.50	1.0
Bromobenzene	0.50	U	ug/L	0.50	0.50	1.0
Benzene	0.50	U	ug/L	0.50	0.50	1.0
4-Isopropyltoluene	0.50	U	ug/L	0.50	0.50	1.0
4-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0
2-Chlorotoluene	0.50	U	ug/L	0.50	0.50	1.0

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Cold Spring, NY 10516

Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 4A
Lab Sample ID: 420-30027-5

Date Sampled: 09/17/2009 1100
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
2,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,4-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,3-Dichlorobenzene	0.50	U *	ug/L	0.50	0.50	1.0
1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2-Dibromo-3-Chloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichloropropane	0.50	U	ug/L	0.50	0.50	1.0
1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloropropene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethene	0.50	U	ug/L	0.50	0.50	1.0
1,1-Dichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	0.50	1.0
1,1,1-Trichloroethane	0.50	U	ug/L	0.50	0.50	1.0
Vinyl chloride	0.50	U	ug/L	0.50	0.50	1.0
Method: 200.7 Rev 4.4			Date Analyzed:	09/24/2009 1143		
Prep Method: 200			Date Prepared:	09/22/2009 1005		
Fe	320	g	ug/L	100	100	1.0
Mn	110		ug/L	15	15	1.0
Na	33000		ug/L	5000	5000	1.0
Zn	620		ug/L	20	20	1.0
Method: 200.8			Date Analyzed:	09/28/2009 1410		
Prep Method: 200			Date Prepared:	09/22/2009 1011		
Ag	1.0	U	ug/L	1.0	1.0	1.0
Pb	1.0	U	ug/L	1.0	1.0	1.0
Arsenic	2.6		ug/L	1.0	1.0	1.0
Be	1.0	U	ug/L	1.0	1.0	1.0
Cadmium	1.0	U	ug/L	1.0	1.0	1.0
Chromium	2.0	U	ug/L	2.0	2.0	1.0
Cu	2.7		ug/L	2.1	2.1	1.0
Ni	1.2		ug/L	1.1	1.1	1.0
Sb	2.0	U	ug/L	2.0	2.0	1.0
Tl	1.0	U	ug/L	1.0	1.0	1.0
Barium	180		ug/L	2.0	2.0	1.0
Method: 200.8			Date Analyzed:	10/06/2009 1342		

Ms. Maureen Fisher
Tim Miller Associates, Inc.
10 North Street
Cold Spring, NY 10516

Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 4A
Lab Sample ID: 420-30027-5

Date Sampled: 09/17/2009 1100
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Prep Method: 200			Date Prepared:	10/05/2009 1326		
Selenium	5.0	U	ug/L	5.0	5.0	1.0
Method: 245.1			Date Analyzed:	09/21/2009 1320		
Prep Method: 245.1			Date Prepared:	09/18/2009 1415		
Hg	0.20	U	ug/L	0.20	0.20	1.0
Method: SM 2340B			Date Analyzed:	09/24/2009 1037		
Calcium hardness as calcium carbonate	33		mg/L	2.5	2.5	1.0
Method: 300.0			Date Analyzed:	09/18/2009 1252		
Nitrate as N	0.25	U	mg/L	0.25	0.25	1.0
Nitrite as N	0.25	U	mg/L	0.25	0.25	1.0
Sulfate	8.9		mg/L	5.0	5.0	1.0
Method: 300.0			Date Analyzed:	09/18/2009 1506		
Chloride	20		mg/L	1.5	1.5	1.0
Method: SM 2120B			Date Analyzed:	09/18/2009 1245		
Color	10		Color Units	2.5	2.5	1.0
Method: SM 2130B			Date Analyzed:	09/18/2009 1400		
Turbidity	13	g	NTU	0.10	0.10	1.0
Method: SM 2150B			Date Analyzed:	09/18/2009 1245		
Odor	1.0		Units for Odor	1.0	1.0	1.0
Method: SM 2320B			Date Analyzed:	09/18/2009 1722		
Alkalinity	88		mg/L	5.0	5.0	1.0
Method: SM 2540C			Date Analyzed:	09/24/2009 1013		
Total Dissolved Solids	150		mg/L	5.0	5.0	1.0
Method: SM 4500 CN E			Date Analyzed:	09/21/2009 1515		
Cyanide, Free	0.010	U	mg/L	0.010	0.010	1.0
Method: SM 4500 CN E			Date Analyzed:	09/25/2009 1118		
Prep Method:			Date Prepared:	09/24/2009 0930		
Cyanide, Total	0.010	U	mg/L	0.010	0.010	1.0
Method: SM 4500 F C			Date Analyzed:	09/22/2009 1018		
Fluoride	0.20	U	mg/L	0.20	0.20	1.0
Method: SM 4500 H+ B			Date Analyzed:	09/17/2009 1530		
pH	7.25		SU	0.200	0.200	1.0
Method: SM 9222D			Date Analyzed:	09/17/2009 1636		
Coliform, Fecal	1.0	U	CFU/100mL	1.0	1.0	1.0

Ms. Maureen Fisher
Tim Miller Associates, Inc.
10 North Street
Cold Spring, NY 10516

Job Number: 420-30027-1

Client Sample ID: Raleigh Hotel Well 4A
Lab Sample ID: 420-30027-5

Date Sampled: 09/17/2009 1100
Date Received: 09/17/2009 1231
Client Matrix: Water

Analyte	Result/Qualifier		Unit	RL	RL	Dilution
Method: SM 9223			Date Analyzed:		09/17/2009 1720	
Coliform, Total	1.0	U	CFU/100mL	1.0	1.0	1.0
Escherichia coli	1.0	U	CFU/100mL	1.0	1.0	1.0
Method: SM 9215B			Date Analyzed:		09/17/2009 1615	
Heterotrophic Plate Count	120		CFU/mL	2.0	2.0	1.0

DATA REPORTING QUALIFIERS

Client: Tim Miller Associates, Inc. Job Number: 420-30027-1

Lab Section	Qualifier	Description
GC VOA		
	*	LCS or LCSD exceeds the control limits
	U	The analyte was analyzed for but not detected at or above the stated limit.
Metals		
	g	Result fails applicable drinking water standards
	U	The analyte was analyzed for but not detected at or above the stated limit.
General Chemistry		
	g	Result fails applicable drinking water standards
	U	The analyte was analyzed for but not detected at or above the stated limit.

EnviroTest Laboratories, Inc.

CHAIN OF CUSTODY

REPORT# (Lab Use Only): 30027

Lab Name: EnviroTest Laboratories
Address & Phone: 315 Fullerton Avenue, Newburgh, New York 12550 845-562-0890

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION
Raleigh Hotel	09037a	—
ENVIROTEST PROJECT MANAGER	**P.O. NUMBER**	**CONTRACT NO.**
Debbie Rohl	09037a	—
CLIENT (SITE) PM	**CLIENT PHONE**	**CLIENT FAX**
Maureen Fisher	845-265-4400	845-265-4418
CLIENT NAME		
Tim Miller Assoc., Inc.		
CLIENT ADDRESS		
10 North Street, Cold Spring, New York 10516		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 1 of 1

TURNAROUND TIME

NORMAL _____

QUICK _____

VERBAL _____

#OF COOLERS

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) *INDICATE*	AQUEOUS (WATER)	D (Drinking Water) or W (Waste Water) *Indicate*	SOLID OR SEMISOLID	OTHER *Specify*	REQUIRED ANALYSES: Total # of Containers	40ml vial HCL	40ml vial sulfuric	250ml Plasic Sulfuric	250ml amber sulfuric	250 Plastic Nitric Acid	250ml Plastic Sod. Hydrox.	Liter Plastic	250ml Plastic	125ml Plastic Sterile	8 oz. Soil	40ml No2503	REMARKS
		NUMBER OF CONTAINERS SUBMITTED																		
9/17/09	1030	Raleigh Hotel Well 1						28												See Attached
9/17/09	1015	Raleigh Hotel Well 2						28												See Attached
9/17/09	945	Raleigh Hotel Well 3						28												See Attached
9/17/09	1130	Raleigh Hotel Well 4						28												See Attached
9/17/09	1100	Raleigh Hotel Well 4A						28												See Attached

RELINQUISHED BY: (SIGNATURE)	COMPANY	DATE	TIME	RECEIVED BY: (SIGNATURE)	COMPANY	DATE	TIME
Maureen S. Fisher	TMA	9/17/09	1235				
SAMPLED BY: (SIGNATURE) Maureen S. Fisher	COMPANY TMA	DATE 9/17/09	TIME	RECEIVED BY: (SIGNATURE)	COMPANY Env	DATE 9/17/09	TIME 1235
RELINQUISHED BY: (SIGNATURE)	COMPANY	DATE	TIME	RECEIVED BY: (SIGNATURE)	COMPANY	DATE	TIME

NOTE: ** **SHORT HOLDING TIME** **

Field Service Time:

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES NO	Cooler Temp.:	LABORATORY REMARKS: ICE_____ pH_____ CL2_____ Reveiwed by_____
				4.6	

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Tim Miller Associates, Inc. Job Number: 420-30027-1

Login Number: 30027

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	False	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	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	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-50880-1

Job Description: 420-30027

For:
EnviroTest Laboratories Inc
315 Fullerton Avenue
Newburgh, NY 12550

Attention: Ms. Janine Rader

Approved for release.
Sheila Hoffman
Project Manager I
10/7/2009 3:06 PM

Sheila Hoffman
Project Manager I
sheila.hoffman@testamericainc.com
10/07/2009

cc: Ms. Renee Cusack
Ms. Joyce Esposito
Ms. Alicia Labare
Debbie Rohl

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Comments
No additional comments.

Receipt
Method(s) 525.2: The following samples was received with insufficient preservation: The pH was adjusted prior to preparation.

All other samples were received in good condition within temperature requirements.

GC/MS Semi VOA
Method(s) 525.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 148804 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

HPLC
No analytical or quality issues were noted.

GC Semi VOA.

Method(s) 508: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for batch 680-148432 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 508: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: Raleigh Hotel Well 1 (680-50880-2), Raleigh Hotel Well 2 (680-50880-3). These results have been reported and qualified. Sample matrix was present in the samples.

Method(s) 515.1: Surrogate recovery for the following sample(s) was outside the upper control limit: Raleigh Hotel Well 4A (680-50880-6). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed. Non-target matrix interference was present in the sample.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

METHOD SUMMARY

Client: EnviroTest Laboratories Inc

Job Number: 680-50880-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Semivolatile Organic Compounds (GC/MS)	TAL SAV	EPA 525.2	
Extraction of Semivolatile Compounds	TAL SAV		EPA 525.2
EDB, DBCP and 1,2,3-TCP (GC)	TAL SAV	EPA-DW 504.1	
Microextraction	TAL SAV		EPA-DW 504.1
Chlorinated Pesticides & PCBs (GC)	TAL SAV	EPA 508	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SAV		EPA 508
Herbicides (GC)	TAL SAV	EPA-01 515.1	
Extraction of Chlorinated Acids	TAL SAV		EPA-DW 515.1
Disinfection By-Products, (IC)	TAL SAV	EPA 300.1B	
Disinfection By-Products, (IC)	TAL SAV	EPA 300.1B	
Carbamate Pesticides (HPLC)	TAL SAV	EPA 531.1	

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

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: EnviroTest Laboratories Inc

Job Number: 680-50880-1

Method	Analyst	Analyst ID
EPA 525.2	Davis, Nancy	ND
EPA 300.1B	Brazell, Connie	CB
EPA 531.1	Brazell, Connie	CB
EPA-DW 504.1	Meincke, Griffin	GM
EPA 508	Kellar, Joshua	JK
EPA-01 515.1	Meincke, Griffin	GM

SAMPLE SUMMARY

Client: EnviroTest Laboratories Inc

Job Number: 680-50880-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-50880-2	Raleigh Hotel Well 1	Drinking Water	09/17/2009 1030	09/18/2009 0939
680-50880-3	Raleigh Hotel Well 2	Drinking Water	09/17/2009 1015	09/18/2009 0939
680-50880-4	Raleigh Hotel Well 3	Drinking Water	09/17/2009 0945	09/18/2009 0939
680-50880-5	Raleigh Hotel Well 4	Drinking Water	09/17/2009 1130	09/18/2009 0939
680-50880-6	Raleigh Hotel Well 4A	Drinking Water	09/17/2009 1100	09/18/2009 0939

Ms. Janine Rader
EnviroTest Laboratories Inc
315 Fullerton Avenue
Newburgh, NY 12550

Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 1**
Lab Sample ID: **680-50880-2**

Date Sampled: 09/17/2009 1030
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	MDL	Dilution
Method: 525.2		Date Analyzed:	09/26/2009 2134	
Prep Method: 525.2		Date Prepared:	09/25/2009 0810	
Alachlor	<0.033	ug/L	0.033	1.0
Atrazine	<0.022	ug/L	0.022	1.0
Benzo[a]pyrene	<0.029	ug/L	0.029	1.0
Bis(2-ethylhexyl) phthalate	<0.61	ug/L	0.61	1.0
Di(2-ethylhexyl)adipate	<0.61	ug/L	0.61	1.0
Hexachlorobenzene	<0.041	ug/L	0.041	1.0
Hexachlorocyclopentadiene	<0.042	ug/L	0.042	1.0
Butachlor	<0.032	ug/L	0.032	1.0
Simazine	<0.035	ug/L	0.035	1.0
Metolachlor	<0.020	ug/L	0.020	1.0
Metribuzin	<0.022	ug/L	0.022	1.0
Propachlor	<0.025	ug/L	0.025	1.0
Surrogate			Acceptance Limits	
Perylene-d12	82	%	70 - 130	
Method: 300.1B		Date Analyzed:	09/30/2009 0955	
Bromate	<2.6	ug/L	2.6	1.0
Surrogate			Acceptance Limits	
Dichloroacetic acid	104	%	90 - 115	
Method: 531.1		Date Analyzed:	09/29/2009 1238	
3-Hydroxycarbofuran	<0.31	ug/L	0.31	1.0
Oxamyl	<0.35	ug/L	0.35	1.0
Carbofuran	<0.43	ug/L	0.43	1.0
Aldicarb	<0.41	ug/L	0.41	1.0
Aldicarb sulfone	<0.25	ug/L	0.25	1.0
Aldicarb sulfoxide	<0.25	ug/L	0.25	1.0
Carbaryl	<0.31	ug/L	0.31	1.0
Methomyl	<0.49	ug/L	0.49	1.0
Method: 504.1		Date Analyzed:	09/21/2009 2000	
Prep Method: 504.1		Date Prepared:	09/21/2009 1351	
1,2-Dibromo-3-Chloropropane	<0.0030	ug/L	0.0030	1.0
Ethylene Dibromide	<0.0073	ug/L	0.0073	1.0
Surrogate			Acceptance Limits	
1,2,3-Trichloropropane-(Surr)	97	%	70 - 130	
Method: 508		Date Analyzed:	09/24/2009 2134	
Prep Method: 508		Date Prepared:	09/22/2009 0955	

Ms. Janine Rader
EnviroTest Laboratories Inc
315 Fullerton Avenue
Newburgh, NY 12550

Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 1**
Lab Sample ID: **680-50880-2**

Date Sampled: 09/17/2009 1030
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier		Unit	MDL	Dilution
Aldrin	<0.0014		ug/L	0.0014	1.0
Chlordane (technical)	<0.11		ug/L	0.11	1.0
Endrin	<0.0021		ug/L	0.0021	1.0
gamma-BHC (Lindane)	<0.0023		ug/L	0.0023	1.0
Heptachlor	<0.0059		ug/L	0.0059	1.0
Heptachlor epoxide	<0.0016		ug/L	0.0016	1.0
Methoxychlor	<0.0074		ug/L	0.0074	1.0
Dieldrin	<0.0015		ug/L	0.0015	1.0
PCB-1016	<0.064		ug/L	0.064	1.0
PCB-1221	<0.048		ug/L	0.048	1.0
PCB-1232	<0.092		ug/L	0.092	1.0
PCB-1242	<0.13		ug/L	0.13	1.0
PCB-1248	<0.046		ug/L	0.046	1.0
PCB-1254	<0.048		ug/L	0.048	1.0
PCB-1260	<0.047		ug/L	0.047	1.0
Toxaphene	<0.055		ug/L	0.055	1.0
Polychlorinated biphenyls, Total	<0.042		ug/L	0.042	1.0

Surrogate				Acceptance Limits
DCB Decachlorobiphenyl	78		%	70 - 130
Tetrachloro-m-xylene	15000	E X	%	70 - 130

Method: 515.1 Date Analyzed: 09/29/2009 1853
Prep Method: 515.1 Date Prepared: 09/28/2009 0858

2,4-D	<0.037		ug/L	0.037	1.0
Dalapon	<1.0		ug/L	1.0	1.0
Dinoseb	<0.15		ug/L	0.15	1.0
Pentachlorophenol	<0.038		ug/L	0.038	1.0
Picloram	<0.077		ug/L	0.077	1.0
Dicamba	<0.085		ug/L	0.085	1.0
Silvex (2,4,5-TP)	<0.060		ug/L	0.060	1.0

Surrogate				Acceptance Limits
2,4-Dichlorophenylacetic acid	102		%	70 - 130

Ms. Janine Rader
EnviroTest Laboratories Inc
315 Fullerton Avenue
Newburgh, NY 12550

Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 1**
Lab Sample ID: **680-50880-2**

Date Sampled: 09/17/2009 1030
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 300.1B		Date Analyzed:	09/29/2009 2141	
Chlorite	<20	ug/L	20	1.0
Surrogate			Acceptance Limits	
Dichloroacetic acid	103	%	90 - 115	

Ms. Janine Rader
EnviroTest Laboratories Inc
315 Fullerton Avenue
Newburgh, NY 12550

Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 2**
Lab Sample ID: **680-50880-3**

Date Sampled: 09/17/2009 1015
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	MDL	Dilution
Method: 525.2		Date Analyzed:	09/26/2009 2156	
Prep Method: 525.2		Date Prepared:	09/25/2009 0810	
Alachlor	<0.033	ug/L	0.033	1.0
Atrazine	<0.022	ug/L	0.022	1.0
Benzo[a]pyrene	<0.029	ug/L	0.029	1.0
Bis(2-ethylhexyl) phthalate	0.82	ug/L	0.61	1.0
Di(2-ethylhexyl)adipate	<0.61	ug/L	0.61	1.0
Hexachlorobenzene	<0.041	ug/L	0.041	1.0
Hexachlorocyclopentadiene	<0.042	ug/L	0.042	1.0
Butachlor	<0.032	ug/L	0.032	1.0
Simazine	<0.035	ug/L	0.035	1.0
Metolachlor	<0.020	ug/L	0.020	1.0
Metribuzin	<0.022	ug/L	0.022	1.0
Propachlor	<0.025	ug/L	0.025	1.0
Surrogate			Acceptance Limits	
Perylene-d12	70	%	70 - 130	
Method: 300.1B		Date Analyzed:	09/30/2009 1025	
Bromate	<2.6	ug/L	2.6	1.0
Surrogate			Acceptance Limits	
Dichloroacetic acid	103	%	90 - 115	
Method: 531.1		Date Analyzed:	09/29/2009 1318	
3-Hydroxycarbofuran	<0.31	ug/L	0.31	1.0
Oxamyl	<0.35	ug/L	0.35	1.0
Carbofuran	<0.43	ug/L	0.43	1.0
Aldicarb	<0.41	ug/L	0.41	1.0
Aldicarb sulfone	<0.25	ug/L	0.25	1.0
Aldicarb sulfoxide	<0.25	ug/L	0.25	1.0
Carbaryl	<0.31	ug/L	0.31	1.0
Methomyl	<0.49	ug/L	0.49	1.0
Method: 504.1		Date Analyzed:	09/21/2009 2010	
Prep Method: 504.1		Date Prepared:	09/21/2009 1351	
1,2-Dibromo-3-Chloropropane	<0.0030	ug/L	0.0030	1.0
Ethylene Dibromide	<0.0072	ug/L	0.0072	1.0
Surrogate			Acceptance Limits	
1,2,3-Trichloropropane-(Surr)	93	%	70 - 130	
Method: 508		Date Analyzed:	09/24/2009 2157	
Prep Method: 508		Date Prepared:	09/22/2009 0955	

Ms. Janine Rader
EnviroTest Laboratories Inc
315 Fullerton Avenue
Newburgh, NY 12550

Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 2**
Lab Sample ID: **680-50880-3**

Date Sampled: 09/17/2009 1015
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier		Unit	MDL	Dilution
Aldrin	<0.0014		ug/L	0.0014	1.0
Chlordane (technical)	<0.11		ug/L	0.11	1.0
Endrin	<0.0021		ug/L	0.0021	1.0
gamma-BHC (Lindane)	<0.0023		ug/L	0.0023	1.0
Heptachlor	<0.0059		ug/L	0.0059	1.0
Heptachlor epoxide	<0.0016		ug/L	0.0016	1.0
Methoxychlor	<0.0074		ug/L	0.0074	1.0
Dieldrin	<0.0015		ug/L	0.0015	1.0
PCB-1016	<0.064		ug/L	0.064	1.0
PCB-1221	<0.048		ug/L	0.048	1.0
PCB-1232	<0.092		ug/L	0.092	1.0
PCB-1242	<0.13		ug/L	0.13	1.0
PCB-1248	<0.046		ug/L	0.046	1.0
PCB-1254	<0.048		ug/L	0.048	1.0
PCB-1260	<0.047		ug/L	0.047	1.0
Toxaphene	<0.055		ug/L	0.055	1.0
Polychlorinated biphenyls, Total	<0.042		ug/L	0.042	1.0

Surrogate				Acceptance Limits
DCB Decachlorobiphenyl	126		%	70 - 130
Tetrachloro-m-xylene	13900	E X	%	70 - 130

Method: 515.1 Date Analyzed: 09/29/2009 1910
Prep Method: 515.1 Date Prepared: 09/28/2009 0858

2,4-D	<0.037		ug/L	0.037	1.0
Dalapon	<1.0		ug/L	1.0	1.0
Dinoseb	<0.15		ug/L	0.15	1.0
Pentachlorophenol	<0.038		ug/L	0.038	1.0
Picloram	<0.078		ug/L	0.078	1.0
Dicamba	<0.086		ug/L	0.086	1.0
Silvex (2,4,5-TP)	<0.061		ug/L	0.061	1.0

Surrogate				Acceptance Limits
2,4-Dichlorophenylacetic acid	92		%	70 - 130

Ms. Janine Rader
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Newburgh, NY 12550

Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 2**
Lab Sample ID: **680-50880-3**

Date Sampled: 09/17/2009 1015
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 300.1B		Date Analyzed:	09/29/2009 2313	
Chlorite	<20	ug/L	20	1.0
Surrogate			Acceptance Limits	
Dichloroacetic acid	108	%	90 - 115	

Ms. Janine Rader
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Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 3**
Lab Sample ID: **680-50880-4**

Date Sampled: 09/17/2009 0945
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	MDL	Dilution
Method: 525.2		Date Analyzed:	09/26/2009 2218	
Prep Method: 525.2		Date Prepared:	09/25/2009 0810	
Alachlor	<0.033	ug/L	0.033	1.0
Atrazine	<0.022	ug/L	0.022	1.0
Benzo[a]pyrene	<0.029	ug/L	0.029	1.0
Bis(2-ethylhexyl) phthalate	<0.61	ug/L	0.61	1.0
Di(2-ethylhexyl)adipate	<0.61	ug/L	0.61	1.0
Hexachlorobenzene	<0.041	ug/L	0.041	1.0
Hexachlorocyclopentadiene	<0.042	ug/L	0.042	1.0
Butachlor	<0.032	ug/L	0.032	1.0
Simazine	<0.035	ug/L	0.035	1.0
Metolachlor	<0.020	ug/L	0.020	1.0
Metribuzin	<0.022	ug/L	0.022	1.0
Propachlor	<0.025	ug/L	0.025	1.0
Surrogate			Acceptance Limits	
Perylene-d12	93	%	70 - 130	
Method: 300.1B		Date Analyzed:	09/30/2009 1056	
Bromate	<2.6	ug/L	2.6	1.0
Surrogate			Acceptance Limits	
Dichloroacetic acid	103	%	90 - 115	
Method: 531.1		Date Analyzed:	09/29/2009 1357	
3-Hydroxycarbofuran	<0.31	ug/L	0.31	1.0
Oxamyl	<0.35	ug/L	0.35	1.0
Carbofuran	<0.43	ug/L	0.43	1.0
Aldicarb	<0.41	ug/L	0.41	1.0
Aldicarb sulfone	<0.25	ug/L	0.25	1.0
Aldicarb sulfoxide	<0.25	ug/L	0.25	1.0
Carbaryl	<0.31	ug/L	0.31	1.0
Methomyl	<0.49	ug/L	0.49	1.0
Method: 504.1		Date Analyzed:	09/21/2009 2019	
Prep Method: 504.1		Date Prepared:	09/21/2009 1351	
1,2-Dibromo-3-Chloropropane	<0.0031	ug/L	0.0031	1.0
Ethylene Dibromide	<0.0074	ug/L	0.0074	1.0
Surrogate			Acceptance Limits	
1,2,3-Trichloropropane-(Surr)	88	%	70 - 130	
Method: 508		Date Analyzed:	09/24/2009 2220	
Prep Method: 508		Date Prepared:	09/22/2009 0955	

Ms. Janine Rader
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Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 3**
Lab Sample ID: **680-50880-4**

Date Sampled: 09/17/2009 0945
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	MDL	Dilution
Aldrin	<0.0014	ug/L	0.0014	1.0
Chlordane (technical)	<0.12	ug/L	0.12	1.0
Endrin	<0.0021	ug/L	0.0021	1.0
gamma-BHC (Lindane)	<0.0023	ug/L	0.0023	1.0
Heptachlor	<0.0061	ug/L	0.0061	1.0
Heptachlor epoxide	<0.0016	ug/L	0.0016	1.0
Methoxychlor	<0.0075	ug/L	0.0075	1.0
Dieldrin	<0.0015	ug/L	0.0015	1.0
PCB-1016	<0.065	ug/L	0.065	1.0
PCB-1221	<0.049	ug/L	0.049	1.0
PCB-1232	<0.094	ug/L	0.094	1.0
PCB-1242	<0.13	ug/L	0.13	1.0
PCB-1248	<0.047	ug/L	0.047	1.0
PCB-1254	<0.049	ug/L	0.049	1.0
PCB-1260	<0.048	ug/L	0.048	1.0
Toxaphene	<0.056	ug/L	0.056	1.0
Polychlorinated biphenyls, Total	<0.043	ug/L	0.043	1.0

Surrogate			Acceptance Limits
DCB Decachlorobiphenyl	89	%	70 - 130
Tetrachloro-m-xylene	93	%	70 - 130

Method: 515.1 Date Analyzed: 09/29/2009 1929
Prep Method: 515.1 Date Prepared: 09/28/2009 0858

2,4-D	<0.036	ug/L	0.036	1.0
Dalapon	<0.98	ug/L	0.98	1.0
Dinoseb	<0.15	ug/L	0.15	1.0
Pentachlorophenol	<0.037	ug/L	0.037	1.0
Picloram	<0.075	ug/L	0.075	1.0
Dicamba	<0.083	ug/L	0.083	1.0
Silvex (2,4,5-TP)	<0.059	ug/L	0.059	1.0

Surrogate			Acceptance Limits
2,4-Dichlorophenylacetic acid	130	%	70 - 130

Ms. Janine Rader
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Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 3**
Lab Sample ID: **680-50880-4**

Date Sampled: 09/17/2009 0945
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 300.1B		Date Analyzed:	09/30/2009 0044	
Chlorite	<20	ug/L	20	1.0
Surrogate			Acceptance Limits	
Dichloroacetic acid	105	%	90 - 115	

Ms. Janine Rader
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Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 4**
Lab Sample ID: **680-50880-5**

Date Sampled: 09/17/2009 1130
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	MDL	Dilution
Method: 525.2		Date Analyzed:	09/26/2009 2240	
Prep Method: 525.2		Date Prepared:	09/25/2009 0810	
Alachlor	<0.033	ug/L	0.033	1.0
Atrazine	<0.022	ug/L	0.022	1.0
Benzo[a]pyrene	<0.029	ug/L	0.029	1.0
Bis(2-ethylhexyl) phthalate	<0.61	ug/L	0.61	1.0
Di(2-ethylhexyl)adipate	<0.61	ug/L	0.61	1.0
Hexachlorobenzene	<0.041	ug/L	0.041	1.0
Hexachlorocyclopentadiene	<0.042	ug/L	0.042	1.0
Butachlor	<0.032	ug/L	0.032	1.0
Simazine	<0.035	ug/L	0.035	1.0
Metolachlor	<0.020	ug/L	0.020	1.0
Metribuzin	<0.022	ug/L	0.022	1.0
Propachlor	<0.025	ug/L	0.025	1.0
Surrogate			Acceptance Limits	
Perylene-d12	101	%	70 - 130	
Method: 300.1B		Date Analyzed:	09/30/2009 1125	
Bromate	<2.6	ug/L	2.6	1.0
Surrogate			Acceptance Limits	
Dichloroacetic acid	104	%	90 - 115	
Method: 531.1		Date Analyzed:	09/29/2009 1555	
3-Hydroxycarbofuran	<0.31	ug/L	0.31	1.0
Oxamyl	<0.35	ug/L	0.35	1.0
Carbofuran	<0.43	ug/L	0.43	1.0
Aldicarb	<0.41	ug/L	0.41	1.0
Aldicarb sulfone	<0.25	ug/L	0.25	1.0
Aldicarb sulfoxide	<0.25	ug/L	0.25	1.0
Carbaryl	<0.31	ug/L	0.31	1.0
Methomyl	<0.49	ug/L	0.49	1.0
Method: 504.1		Date Analyzed:	09/21/2009 2029	
Prep Method: 504.1		Date Prepared:	09/21/2009 1351	
1,2-Dibromo-3-Chloropropane	<0.0030	ug/L	0.0030	1.0
Ethylene Dibromide	<0.0073	ug/L	0.0073	1.0
Surrogate			Acceptance Limits	
1,2,3-Trichloropropane-(Surr)	95	%	70 - 130	
Method: 508		Date Analyzed:	09/24/2009 2243	
Prep Method: 508		Date Prepared:	09/22/2009 0955	

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Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 4**
Lab Sample ID: **680-50880-5**

Date Sampled: 09/17/2009 1130
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	MDL	Dilution
Aldrin	<0.0014	ug/L	0.0014	1.0
Chlordane (technical)	<0.11	ug/L	0.11	1.0
Endrin	<0.0021	ug/L	0.0021	1.0
gamma-BHC (Lindane)	<0.0023	ug/L	0.0023	1.0
Heptachlor	<0.0059	ug/L	0.0059	1.0
Heptachlor epoxide	<0.0016	ug/L	0.0016	1.0
Methoxychlor	<0.0074	ug/L	0.0074	1.0
Dieldrin	<0.0015	ug/L	0.0015	1.0
PCB-1016	<0.064	ug/L	0.064	1.0
PCB-1221	<0.048	ug/L	0.048	1.0
PCB-1232	<0.092	ug/L	0.092	1.0
PCB-1242	<0.13	ug/L	0.13	1.0
PCB-1248	<0.046	ug/L	0.046	1.0
PCB-1254	<0.048	ug/L	0.048	1.0
PCB-1260	<0.047	ug/L	0.047	1.0
Toxaphene	<0.055	ug/L	0.055	1.0
Polychlorinated biphenyls, Total	<0.042	ug/L	0.042	1.0

Surrogate			Acceptance Limits
DCB Decachlorobiphenyl	81	%	70 - 130
Tetrachloro-m-xylene	80	%	70 - 130

Method: 515.1 Date Analyzed: 09/29/2009 1947
Prep Method: 515.1 Date Prepared: 09/28/2009 0858

2,4-D	<0.036	ug/L	0.036	1.0
Dalapon	<0.96	ug/L	0.96	1.0
Dinoseb	<0.14	ug/L	0.14	1.0
Pentachlorophenol	<0.037	ug/L	0.037	1.0
Picloram	<0.074	ug/L	0.074	1.0
Dicamba	<0.082	ug/L	0.082	1.0
Silvex (2,4,5-TP)	<0.058	ug/L	0.058	1.0

Surrogate			Acceptance Limits
2,4-Dichlorophenylacetic acid	98	%	70 - 130

Ms. Janine Rader
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Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 4**
Lab Sample ID: **680-50880-5**

Date Sampled: 09/17/2009 1130
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 300.1B		Date Analyzed:	09/30/2009 0115	
Chlorite	<20	ug/L	20	1.0
Surrogate			Acceptance Limits	
Dichloroacetic acid	100	%	90 - 115	

Ms. Janine Rader
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Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 4A**
Lab Sample ID: **680-50880-6**

Date Sampled: 09/17/2009 1100
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	MDL	Dilution
Method: 525.2		Date Analyzed:	09/26/2009 2301	
Prep Method: 525.2		Date Prepared:	09/25/2009 0810	
Alachlor	<0.033	ug/L	0.033	1.0
Atrazine	<0.022	ug/L	0.022	1.0
Benzo[a]pyrene	<0.029	ug/L	0.029	1.0
Bis(2-ethylhexyl) phthalate	<0.61	ug/L	0.61	1.0
Di(2-ethylhexyl)adipate	<0.61	ug/L	0.61	1.0
Hexachlorobenzene	<0.041	ug/L	0.041	1.0
Hexachlorocyclopentadiene	<0.042	ug/L	0.042	1.0
Butachlor	<0.032	ug/L	0.032	1.0
Simazine	<0.035	ug/L	0.035	1.0
Metolachlor	<0.020	ug/L	0.020	1.0
Metribuzin	<0.022	ug/L	0.022	1.0
Propachlor	<0.025	ug/L	0.025	1.0
Surrogate			Acceptance Limits	
Perylene-d12	90	%	70 - 130	
Method: 300.1B		Date Analyzed:	09/30/2009 1155	
Bromate	<2.6	ug/L	2.6	1.0
Surrogate			Acceptance Limits	
Dichloroacetic acid	102	%	90 - 115	
Method: 531.1		Date Analyzed:	09/29/2009 1634	
3-Hydroxycarbofuran	<0.31	ug/L	0.31	1.0
Oxamyl	<0.35	ug/L	0.35	1.0
Carbofuran	<0.43	ug/L	0.43	1.0
Aldicarb	<0.41	ug/L	0.41	1.0
Aldicarb sulfone	<0.25	ug/L	0.25	1.0
Aldicarb sulfoxide	<0.25	ug/L	0.25	1.0
Carbaryl	<0.31	ug/L	0.31	1.0
Methomyl	<0.49	ug/L	0.49	1.0
Method: 504.1		Date Analyzed:	09/21/2009 2039	
Prep Method: 504.1		Date Prepared:	09/21/2009 1351	
1,2-Dibromo-3-Chloropropane	<0.0030	ug/L	0.0030	1.0
Ethylene Dibromide	<0.0072	ug/L	0.0072	1.0
Surrogate			Acceptance Limits	
1,2,3-Trichloropropane-(Surr)	91	%	70 - 130	
Method: 508		Date Analyzed:	09/24/2009 2307	
Prep Method: 508		Date Prepared:	09/22/2009 0955	

Ms. Janine Rader
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Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 4A**
Lab Sample ID: **680-50880-6**

Date Sampled: 09/17/2009 1100
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier		Unit	MDL	Dilution
Aldrin	<0.0014		ug/L	0.0014	1.0
Chlordane (technical)	<0.11		ug/L	0.11	1.0
Endrin	<0.0021		ug/L	0.0021	1.0
gamma-BHC (Lindane)	<0.0023		ug/L	0.0023	1.0
Heptachlor	<0.0059		ug/L	0.0059	1.0
Heptachlor epoxide	<0.0016		ug/L	0.0016	1.0
Methoxychlor	<0.0074		ug/L	0.0074	1.0
Dieldrin	<0.0015		ug/L	0.0015	1.0
PCB-1016	<0.064		ug/L	0.064	1.0
PCB-1221	<0.048		ug/L	0.048	1.0
PCB-1232	<0.092		ug/L	0.092	1.0
PCB-1242	<0.13		ug/L	0.13	1.0
PCB-1248	<0.046		ug/L	0.046	1.0
PCB-1254	<0.048		ug/L	0.048	1.0
PCB-1260	<0.047		ug/L	0.047	1.0
Toxaphene	<0.055		ug/L	0.055	1.0
Polychlorinated biphenyls, Total	<0.042		ug/L	0.042	1.0

Surrogate			Acceptance Limits
DCB Decachlorobiphenyl	92	%	70 - 130
Tetrachloro-m-xylene	73	%	70 - 130

Method: 515.1 Date Analyzed: 09/29/2009 2006
Prep Method: 515.1 Date Prepared: 09/28/2009 0858

2,4-D	<0.036		ug/L	0.036	1.0
Dalapon	<0.96		ug/L	0.96	1.0
Dinoseb	<0.14		ug/L	0.14	1.0
Pentachlorophenol	<0.037		ug/L	0.037	1.0
Picloram	<0.074		ug/L	0.074	1.0
Dicamba	<0.082		ug/L	0.082	1.0
Silvex (2,4,5-TP)	<0.058		ug/L	0.058	1.0

Surrogate				Acceptance Limits
2,4-Dichlorophenylacetic acid	164	X	%	70 - 130

Ms. Janine Rader
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Job Number: 680-50880-1

Client Sample ID: **Raleigh Hotel Well 4A**
Lab Sample ID: **680-50880-6**

Date Sampled: 09/17/2009 1100
Date Received: 09/18/2009 0939
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	Dilution
Method: 300.1B		Date Analyzed:	10/01/2009 1324	
Chlorite	<20	ug/L	20	1.0
Surrogate			Acceptance Limits	
Dichloroacetic acid	105	%	90 - 115	

DATA REPORTING QUALIFIERS

Client: EnviroTest Laboratories Inc Job Number: 680-50880-1

Lab Section	Qualifier	Description
GC Semi VOA		
	E	Result exceeded calibration range.
	X	Surrogate exceeds the control limits

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

Chain of Custody Record

EnviroTest Laboratories Inc.

10/07/2009

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rohl, Debra R	Carrier Tracking No(s):	COC No: 420-4125.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: dbayer@envirotestlaboratories.com		Page: Page 1 of 1
Company: TestAmerica Analytical Testing Corp.				STL Job #: 420-30027-1
Address: 5102 LaRoche Ave.,	Due Date Requested: 9/29/2009			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone:	PO #:			
Email:	WO #:			
Project Name: Tim Miller Associates, Inc.	Project #: 42001187			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ 508 Chlorinated Pesticides in water	SUBCONTRACT/ 515 Chlorinated Acids	SUBCONTRACT/ 504 EPA 504.1 EDB/DBCP	SUBCONTRACT/ 531.1 Carbamate Pesticides in DW	SUBCONTRACT/ 525.2 Semivolatile Organics	SUBCONTRACT/ Chlorite to Sav	SUBCONTRACT/ Bromate to Sav							Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Raleigh Hotel Well 1 (420-30027-1)	9/17/09	10:30		Water			X	X	X	X	X	X	X								10	
Raleigh Hotel Well 2 (420-30027-2)	9/17/09	10:15		Water			X	X	X	X	X	X	X								10	
Raleigh Hotel Well 3 (420-30027-3)	9/17/09	9:45		Water			X	X	X	X	X	X	X								10	
Raleigh Hotel Well 4 (420-30027-4)	9/17/09	11:30		Water			X	X	X	X	X	X	X								10	
Raleigh Hotel Well 4A (420-30027-5)	9/17/09	11:00		Water			X	X	X	X	X	X	X								10	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/17/09 4:00	ENV			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 680-50880 4.9|5.9|5.1|6.0

Login Sample Receipt Check List

Client: EnviroTest Laboratories Inc

Job Number: 680-50880-1

Login Number: 50880

List Source: TestAmerica Savannah

Creator: Conner, Keaton

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	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.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	False	
Sample Preservation Verified	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Radiological Testing

Lot #: F9I180226

Debra Rohl

EnviroTest Laboratories Inc
315 Fullerton Avenue
Newburgh, NY 12550

TESTAMERICA LABORATORIES, INC.

for Kay Clay
Project Manager

October 7, 2009

Case Narrative
LOT NUMBER: **F9I180226**

This report contains the analytical results for the five samples received under chain of custody by TestAmerica St. Louis on September 18, 2009. These samples are associated with your Radiological Testing project.

The analytical results included in this report meet all applicable quality control procedure requirements. except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. **TestAmerica St. Louis' Florida certification number is E87689.** The case narrative is an integral part of this report.

This report shall not be reproduced, except in full, without the written approval of the laboratory.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances
Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Gross Alpha and Beta Method EPA 900.0 MOD

The Gross Alpha sample duplicate results were (188.61%) % RPD > 40% and RER >1.0 (6.693E+000). Samples were sent back for re-extraction. This excursion is due to a matrix spike duplicate that was not spiked. The matrix spike was spiked resulting in poor duplication. The re-extracted results are within the required RPD/RER requirements. The results will be reported.

Affected Samples:
F9I180226 (1): RALEIGH HOTEL WELL 1 (420-30027-1)
F9I180226 (2): RALEIGH HOTEL WELL 2 (420-30027-2)
F9I180226 (3): RALEIGH HOTEL WELL 3 (420-30027-3)
F9I180226 (4): RALEIGH HOTEL WELL 4 (420-30027-4)
F9I180226 (5): RALEIGH HOTEL WELL 4A (420-30027-5)

METHODS SUMMARY

F9I180226

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Gross Alpha/Beta EPA 900	EPA 900.0 MOD	EPA 900.0
Radium-226 by GFPC	EPA 903.0 MOD	
Radium-228 by GFPC	EPA 904 MOD	
Total Uranium By Laser Ph osphorimetry	ASTM 5174-91	

References:

ASTM Annual Book Of ASTM Standards.

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

SAMPLE SUMMARY

F9I180226

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LK32L	001	RALEIGH HOTEL WELL 1 (420-30027-1)	09/17/09	10:30
LK321	002	RALEIGH HOTEL WELL 2 (420-30027-2)	09/17/09	10:15
LK323	003	RALEIGH HOTEL WELL 3 (420-30027-3)	09/17/09	09:45
LK326	004	RALEIGH HOTEL WELL 4 (420-30027-4)	09/17/09	11:30
LK328	005	RALEIGH HOTEL WELL 4A (420-30027-5)	09/17/09	11:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

EnviroTest Laboratories Inc

Client Sample ID: RALEIGH HOTEL WELL 1 (420-30027-1)

Radiochemistry

Lab Sample ID: F9I180226-001
Work Order: LK32L
Matrix: WATER

Date Collected: 09/17/09 1030
Date Received: 09/18/09 0800

Parameter	Result	Qual	Count Uncert. (2 σ+/-)	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Radium 226 by EPA 903.0 MOD					pCi/L		Batch # 9261464	Yld % 106
Radium (226)	0.59	J		0.18	1.00	0.14	09/18/09	10/05/09
Radium 228 by GFPC EPA 904 MOD					pCi/L		Batch # 9261465	Yld % 102
Radium 228	0.28	U		0.23	1.00	0.37	09/18/09	10/05/09
Total Uranium by KPA ASTM 5174-91					ug/L		Batch # 9272109	Yld %
Total Uranium	3.88			0.40	1.00	0.31	09/29/09	10/03/09
Gross Alpha/Beta EPA 900					pCi/L		Batch # 9268444	Yld %
Gross Alpha	5.3			1.6	3.0	1.3	09/25/09	09/29/09
Gross Beta	4.6			1.4	4.0	1.8	09/25/09	09/29/09

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

EnviroTest Laboratories Inc

Client Sample ID: RALEIGH HOTEL WELL 2 (420-30027-2)

Radiochemistry

Lab Sample ID: F9I180226-002
Work Order: LK321
Matrix: WATER

Date Collected: 09/17/09 1015
Date Received: 09/18/09 0800

Parameter	Result	Qual	Count Uncert. (2 σ+/-)	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Radium 226 by EPA 903.0 MOD					pCi/L		Batch # 9261464	Yld % 102
Radium (226)	0.25	J		0.14	1.00	0.17	09/18/09	10/05/09
Radium 228 by GFPC EPA 904 MOD					pCi/L		Batch # 9261465	Yld % 99
Radium 228	0.43	J		0.24	1.00	0.34	09/18/09	10/05/09
Total Uranium by KPA ASTM 5174-91					ug/L		Batch # 9272109	Yld %
Total Uranium	5.09			0.53	1.00	0.31	09/29/09	10/03/09
Gross Alpha/Beta EPA 900					pCi/L		Batch # 9268444	Yld %
Gross Alpha	5.5			1.7	3.0	1.7	09/25/09	09/29/09
Gross Beta	4.6			1.4	4.0	1.9	09/25/09	09/29/09

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.

EnviroTest Laboratories Inc

Client Sample ID: RALEIGH HOTEL WELL 3 (420-30027-3)

Radiochemistry

Lab Sample ID: F9I180226-003
Work Order: LK323
Matrix: WATER

Date Collected: 09/17/09 0945
Date Received: 09/18/09 0800

Parameter	Result	Qual	Count Uncert. (2 σ+/-)	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Radium 226 by EPA 903.0 MOD					pCi/L		Batch # 9261464	Yld % 103
Radium (226)	0.10	U		0.14	1.00	0.23	09/18/09	10/05/09
Radium 228 by GFPC EPA 904 MOD					pCi/L		Batch # 9261465	Yld % 97
Radium 228	0.03	U		0.20	1.00	0.35	09/18/09	10/05/09
Total Uranium by KPA ASTM 5174-91					ug/L		Batch # 9272109	Yld %
Total Uranium	5.72			0.60	1.00	0.31	09/29/09	10/03/09
Gross Alpha/Beta EPA 900					pCi/L		Batch # 9268444	Yld %
Gross Alpha	5.1			1.5	3.0	1.1	09/25/09	09/29/09
Gross Beta	2.0	J		1.1	4.0	1.7	09/25/09	09/29/09

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

EnviroTest Laboratories Inc

Client Sample ID: RALEIGH HOTEL WELL 4 (420-30027-4)

Radiochemistry

Lab Sample ID: F9I180226-004
Work Order: LK326
Matrix: WATER

Date Collected: 09/17/09 1130
Date Received: 09/18/09 0800

Parameter	Result	Qual	Count Uncert. (2 σ+/-)	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Radium 226 by EPA 903.0 MOD				pCi/L		Batch # 9261464		Yld % 104
Radium (226)	0.15	U		0.13	1.00	0.18	09/18/09	10/05/09
Radium 228 by GFPC EPA 904 MOD				pCi/L		Batch # 9261465		Yld % 98
Radium 228	-0.07	U		0.19	1.00	0.35	09/18/09	10/05/09
Total Uranium by KPA ASTM 5174-91				ug/L		Batch # 9272109		Yld %
Total Uranium	3.65			0.39	1.00	0.31	09/29/09	10/03/09
Gross Alpha/Beta EPA 900				pCi/L		Batch # 9268444		Yld %
Gross Alpha	2.7	J		1.2	3.0	1.3	09/25/09	09/29/09
Gross Beta	3.4	J		1.3	4.0	1.9	09/25/09	09/29/09

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

EnviroTest Laboratories Inc

Client Sample ID: RALEIGH HOTEL WELL 4A (420-30027-5)

Radiochemistry

Lab Sample ID: F9I180226-005
Work Order: LK328
Matrix: WATER

Date Collected: 09/17/09 1100
Date Received: 09/18/09 0800

Parameter	Result	Qual	Count Uncert. (2 σ+/-)	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Radium 226 by EPA 903.0 MOD					pCi/L		Batch # 9261464	Yld % 101
Radium (226)	0.39	J		0.21	1.00	0.27	09/18/09	10/05/09
Radium 228 by GFPC EPA 904 MOD					pCi/L		Batch # 9261465	Yld % 96
Radium 228	0.15	U		0.30	1.00	0.50	09/18/09	10/05/09
Total Uranium by KPA ASTM 5174-91					ug/L		Batch # 9272109	Yld %
Total Uranium	2.46			0.31	2.00	0.62	09/29/09	10/03/09
Gross Alpha/Beta EPA 900					pCi/L		Batch # 9268444	Yld %
Gross Alpha	1.6	J		1.0	3.0	1.4	09/25/09	09/29/09
Gross Beta	2.5	J		1.1	4.0	1.6	09/25/09	09/29/09

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

EnviroTest Laboratories Inc

Client Sample ID: 2-WS

Radiochemistry

Lab Sample ID: F9I180249-005
Work Order: LK38J
Matrix: WATER

Date Collected: 09/17/09 1200
Date Received: 09/18/09 0800

Parameter	Result	Qual	Count Uncert. (2 σ+/-)	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900					pCi/L		Batch # 9268444	Yld %
Gross Alpha	0.9	U	1.2	1.2	3.0	2.1	09/25/09	09/29/09
Gross Beta	**9.2**		**1.4**	**1.6**	4.0	1.7	09/25/09	09/29/09

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

EnviroTest Laboratories Inc

Client Sample ID: 2-WS DUP

Radiochemistry

Lab Sample ID: F9I180249-005X
Work Order: LK38J
Matrix: WATER

Date Collected: 09/17/09 1200
Date Received: 09/18/09 0800

Parameter	Result	Qual	Count Uncert. (2 σ+/-)	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900					pCi/L		Batch # 9268444	Yld %
Gross Alpha	0.8	U	1.8	1.8	3.0	3.2	09/25/09	09/29/09
Gross Beta	**8.2**		1.5	1.6	4.0	**1.8**	09/25/09	09/29/09

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F9I180226
Matrix: WATER

Parameter	Result	Qual	Count Uncert. (2 σ+/-)	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Lab Sample ID / Analysis Date
Radium 226 by EPA 903.0 MOD				pCi/L	Batch # 9261464		Yld % 106	F9I180000-464B
Radium (226)	0.046	U		0.090	1.00	0.16	09/18/09	10/05/09
Radium 228 by GFPC EPA 904 MOD				pCi/L	Batch # 9261465		Yld % 97	F9I180000-465B
Radium 228	0.14	U		0.23	1.00	0.39	09/18/09	10/05/09
Gross Alpha/Beta EPA 900				pCi/L	Batch # 9268444		Yld %	F9I250000-444B
Gross Alpha	0.25	U	0.42	0.42	2.00	0.72	09/25/09	09/29/09
Gross Beta	0.25	U	0.97	0.98	4.00	1.6	09/25/09	09/29/09
Total Uranium by KPA ASTM 5174-91				mg/L	Batch # 9272109		Yld %	F9I290000-109B
Total Uranium	0.000279	U		0.000037	0.00100	0.00031	09/29/09	10/03/09

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F9I180226
Matrix: WATER

Parameter	Spike Amount	Result	Count Uncert. (2 σ+/-)	Total Uncert.	MDC	% Yld	Lab Sample ID % Rec	QC Control Limits
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F9I250000-444C	
Gross Alpha	49.4	45.7	3.6	5.1	1.1		92	(80 - 140)
	Batch #:	9268444			Analysis Date:	09/29/09		
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F9I250000-444C	
Gross Beta	68.7	62.9	2.8	5.4	1.6		92	(77 - 123)
	Batch #:	9268444			Analysis Date:	09/29/09		
Total Uranium by KPA ASTM 5174-91			mg/L	5174-91			F9I290000-109C	
Total Uranium	0.0400	0.0426		0.0052	0.0003		106	(90 - 118)
	Batch #:	9272109			Analysis Date:	10/03/09		
Total Uranium by KPA ASTM 5174-91			mg/L	5174-91			F9I290000-109C	
Total Uranium	0.00800	0.00883		0.00092	0.00031		110	(90 - 118)
	Batch #:	9272109			Analysis Date:	10/03/09		

NOTE(S)

MDC is determined by instrument performance only
Calculations are performed before rounding to avoid round-off error in calculated results

MATRIX SPIKE/MATRIX SPIKE DUPLICATE REPORT

Radiochemistry

Client Lot ID: F9I170132
Matrix: WATER

Date Sampled: 09/14/09 1021
Date Received: 09/17/09 0830

Parameter		Spike Amount	SPIKE Result	Total Uncert. (2 σ+/-)	Spike Yld	SAMPLE Result	Total Uncert. (2σ +/-)	QC Sample ID % Yld	%Rec	QC Control Limits
Total Uranium by KPA ASTM 5				**mg/L**		**5174-91**			**F9I170132-001**	
Total Uranium		0.0400	0.149	0.018		0.108	0.013		101	(57 - 150)
	Spk2	0.0400	0.152	0.018		0.108	0.013		108	(57 - 150)
								Precision:	2	%RPD

Batch #: 9272109 Analysis date: 10/03/09

NOTE(S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off error in calculated results

MATRIX SPIKE REPORT

Radiochemistry

Client Lot Id: F9I180249
Matrix: WATER

Date Sampled: 09/17/09
Date Received: 09/18/09

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2 σ +/-)	QC Sample ID %YLD	QC Sample ID %REC	QC Control Limits
Gross Alpha/Beta EPA 900			pCi/L		900.0 MOD			F9I180249-005	
Gross Beta	68.7	78.9	6.7		9.2	1.6		101	(71 - 146)
	Batch #:	9268444		Analysis Date:		09/29/09			
Gross Alpha/Beta EPA 900			pCi/L		900.0 MOD			F9I180249-005	
Gross Alpha	49.4	37.0	5.8		0.9	1.2		73	(33 - 150)
	Batch #:	9268444		Analysis Date:		09/29/09			

NOTE (S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off errors in calculated results.

Laboratory Control Sample/LCS Duplicate Report

Radiochemistry

Client Lot ID: F9I180226
Matrix: WATER

Parameter		Spike Amount	Result	Total Uncert. (2 σ+/-)	% Yld	% Rec	QC Control Limits	Lab Sample ID Precision	
Radium 226 by EPA 903.0 MOD			pCi/L	903.0 MOD			F9I180000-464C		
Radium (226)		11.3	12.0	1.2	106	107	(45 - 150)		
	Spk 2	11.3	12.5	1.2	104	111	(45 - 150)	4	%RPD
		Batch #:	9261464		Analysis Date:		10/05/09		
Radium 228 by GFPC EPA 904 MOD			pCi/L	904 MOD			F9I180000-465C		
Radium 228		6.73	5.58	0.70	96	83	(64 - 150)		
	Spk 2	6.73	6.22	0.75	97	93	(64 - 150)	11	%RPD
		Batch #:	9261465		Analysis Date:		10/05/09		

NOTE(S)

Calculations are performed before rounding to avoid round-off error in calculated results

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: F9I180226
Matrix: WATER

Date Sampled: 09/17/09
Date Received: 09/18/09

Parameter	SAMPLE Result		Total Uncert. (2σ +/-)	% Yld	DUPLICATE Result		Total Uncert. (2 σ +/-)	% Yld	QC Sample ID Precision	
Gross Alpha/Beta EPA 900				**pCi/L**	**900.0 MOD**				**F9I180249-005**	
Gross Alpha	0.9	U	1.2		0.8	U	1.8		6	%RPD
Gross Beta	9.2		1.6		8.2		1.6		12	%RPD
	Batch #:		9268444 (Sample)		9268444 (Duplicate)					

NOTE(S)

Data are incomplete without the case narrative.
Calculations are performed before rounding to avoid round-off error in calculated results

U Result is less than the sample detection limit.

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)	Sampler:	Lab PM: Rohl, Debra R	Carrier Tracking No(s):	COC No: 420-4122.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: dbayer@envirotestlaboratories.com		Page: Page 1 of 1
Company: TestAmerica Analytical Testing Corp.				STL Job #: 420-30027-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/1/2009			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone:	PO #:			
Email:	WO #:			
Project Name: Tim Miller Associates, Inc.	Project #: 42001187			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ 900 GA/GB,RA 226/RA 228	SUBCONTRACT/ Total Uranium	Total Number of containers	Special Instructions/Note:
Preservation Code:										
Raleigh Hotel Well 1 (420-30027-1)	9/17/09	10:30		Water			X	X	4	xlp
Raleigh Hotel Well 2 (420-30027-2)	9/17/09	10:15		Water			X	X	4	
Raleigh Hotel Well 3 (420-30027-3)	9/17/09	9:45		Water			X	X	4	
Raleigh Hotel Well 4 (420-30027-4)	9/17/09	11:30		Water			X	X	4	
Raleigh Hotel Well 4A (420-30027-5)	9/17/09	11:00		Water			X	X	4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 9/17/09 4:00	Company: Env.	Received by: [signature] Date/Time: 9/18/09 0800 Company: TA
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F9I180226
230
231

CONDITION UPON RECEIPT FORM

Client: Enviro Test
Quote No: 76370
COC/RFA No: see below

Initiated By: BA Date: 412 7/10/09 Time: 0820

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: (Y) N

Shipping # (s):* Master

1.	7969 5507 5715	6.		1.	ambient	6.	
2.		7.		2.	1	7.	
3.		8.		3.		8.	
4.		9.		4.		9.	
5.		10.		5.		10.	

Sample Temperature (s):**

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y (N)	Are there custody seals present on the cooler?	8.	Y (N)	Are there custody seals present on bottles?
2.	Y N (N/A)	Do custody seals on cooler appear to be tampered with?	9.	Y N (N/A)	Do custody seals on bottles appear to be tampered with?
3.	(Y) N	Were contents of cooler frisked after opening, but before unpacking?	10.	(Y) N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	(Y) N	Sample received with Chain of Custody?	11.	(Y) N	Sample received in proper containers?
5.	(Y) N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N (N/A)	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6.	Y (N)	Was sample received broken?	13.	Y N (N/A)	Was Internal COC/Workshare received?
7.	(Y) N	Is sample volume sufficient for analysis?	14.	Y N (N/A)	Was pH taken by original TestAmerica lab?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes: 420 - 4122.1
4110.1
4111.1

Corrective Action:
☐ Client Contact Name: _____ Informed by: _____
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: _____ If released, notify: _____
Project Management Review: K. S. Date: 09-22-09

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

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

DATE	September 21, 2009
HRI PROJECT	009-587
HRI SERIES NO	I285/09
DATE REC'D.	9/18/2009
CUST. P.O.#	Job# 420-30027-1

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

REPORT OF ANALYSIS

SAMPLE NO. I285/09-1

SAMPLE IDENTIFICATION: 420-30027-1 - Raleigh Hotel Well 1
Project #42001187 - Tim Miller Associates, Inc.
Sampled on 09/17/2009 @ 1030

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radon (+-Precision*), pCi/l (T)	1330(+-40)	11	SM 7500-Rn B	9/18/2009 @ 1000	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; KY 90076; KS E-10265; NH 232809; NYELAP 11417; PADEP 68-00551; RI LAO00284; 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.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

DATE	September 21, 2009
HRI PROJECT	009-587
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CUST. P.O.#	Job# 420-30027-1

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

REPORT OF ANALYSIS

SAMPLE NO. I285/09-2

SAMPLE IDENTIFICATION: 420-30027-2 - Raleigh Hotel Well 2
Project #42001187 - Tim Miller Associates, Inc.
Sampled on 09/17/2009 @ 1015

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radon (+-Precision*), pCi/l (T)	1360(+-40)	11	SM 7500-Rn B	9/18/2009 @ 1002	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; KY 90076; KS E-10265; NH 232809; NYELAP 11417; PADEP 68-00551; RI LAO00284; 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.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

DATE	September 21, 2009
HRI PROJECT	009-587
HRI SERIES NO	I285/09
DATE REC'D.	9/18/2009
CUST. P.O.#	Job# 420-30027-1

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

REPORT OF ANALYSIS

SAMPLE NO. I285/09-3

SAMPLE IDENTIFICATION: 420-30027-3 - Raleigh Hotel Well 3
Project #42001187 - Tim Miller Associates, Inc.
Sampled on 09/17/2009 @ 0945

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radon (+-Precision*), pCi/l (T)	1960(+-50)	11	SM 7500-Rn B	9/18/2009 @ 1004	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; KY 90076; KS E-10265; NH 232809; NYELAP 11417; PADEP 68-00551; RI LAO00284; 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.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

DATE	September 21, 2009
HRI PROJECT	009-587
HRI SERIES NO	I285/09
DATE REC'D.	9/18/2009
CUST. P.O.#	Job# 420-30027-1

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

REPORT OF ANALYSIS

SAMPLE NO. I285/09-4

SAMPLE IDENTIFICATION: 420-30027-4 - Raleigh Hotel Well 4
Project #42001187 - Tim Miller Associates, Inc.
Sampled on 09/17/2009 @ 1130

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radon (+-Precision*), pCi/l (T)	830(+-30)	12	SM 7500-Rn B	9/18/2009 @ 1006	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; KY 90076; KS E-10265; NH 232809; NYELAP 11417; PADEP 68-00551; RI LAO00284; 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.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

DATE	September 21, 2009
HRI PROJECT	009-587
HRI SERIES NO	I285/09
DATE REC'D.	9/18/2009
CUST. P.O.#	Job# 420-30027-1

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

REPORT OF ANALYSIS

SAMPLE NO. I285/09-5

SAMPLE IDENTIFICATION: 420-30027-5 - Raleigh Hotel Well 4A
Project #42001187 - Tim Miller Associates, Inc.
Sampled on 09/17/2009 @ 1100

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radon (+-Precision*), pCi/l (T)	1650(+-40)	12	SM 7500-Rn B	9/18/2009 @ 1008	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; KY 90076; KS E-10265; NH 232809; NYELAP 11417; PADEP 68-00551; RI LAO00284; 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

REPORT: MICROSCOPIC PARTICULATE ANALYSIS

ENVIRONMENTAL ASSOCIATES LTD.
24 Oak Brook Drive, Ithaca, NY 14850
(607) 272-8902 Fax (607) 256-7092

ACCREDITED IN ACCORDANCE WITH nelac
FL NELAP-E87851

Filter ID: 35635 Client: EnviroTest Laboratories Inc.

Station/Body of water: Raleigh Hotel Well #1 (420-30027-1)

RECEIPT OF FILTER:

Date Received: 9/18/2009 # of filters: NA Type: cubitainer Carrier: Fed Ex Priority

COLLECTION:

Collector: N/A Date collected: 9/17/2009
Temperature: °F Turbidity: ------
Water Type: well

FILTER PROCESSING

Color of water around filter: NA Total volume of sediment: 0.05 ml
Filter color: NA Volume of sediment/100 gallons: 1.9 ml/100gal.
Color of sediment: tan IFA equivalent liter volume examined: ------
gallons filtered: 2.642 Phase equivalent gallon volume examined: 2.642

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
Large part. 5 μm & larger	M	fine silt & sand
Small part. up to 5 μm	EH	fine amorphous debris
Plant debris	NF	

OTHER ORGANISMS		
Nematodes	NF	
Nematode eggs	NF	
Rotifers	NF	
Crustaceans	NF	
Crustacean eggs	NF	
Insects	NF	
Other	NF	

PROTOZOANS	Quantity	Description
Other Coccidia	NF	
Other protozoans	NF	

ALGAE		
Green Algae	NF	
Diatoms	NF	
Blue-Green Algae	NF	
Flagellated Algae	NF	

COMMENTS:

No biological materials 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.

Environmental Associates Ltd. certifies that all quality control elements, as required by NELAP, associated with the above data have been met. Results relate only to the sample.

REPORT REVIEWED BY: Susan M. Bartos **DATE:** November 3, 2009

PWS ID#	Well ID#	Utility Name	EAL Sample ID:
	Raleigh Hotel Well #1 (420-30027	EnviroTest Laboratories Inc.	35635

FL NELAP-E87851

EPA Relative Surface Water Risk Factors

Date: 9/17/2009

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:	0	NF		

COMMENTS: No biological materials 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.

REFERENCE: Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA) USEPA Manchester Environmental Laboratory, EPA 910/9-92-029, October 1992.

L072692

Environmental Associates Ltd. certifies that all quality control elements, as required by NELAP, associated with the above data have been met. Results relate only to the sample.

REPORT REVIEWED BY: Susan M. Bartos **DATE:** November 3, 2009 Environmental Associates, Ltd.

REPORT: MICROSCOPIC PARTICULATE ANALYSIS

ENVIRONMENTAL ASSOCIATES LTD.
24 Oak Brook Drive, Ithaca, NY 14850
(607) 272-8902 Fax (607) 256-7092

ACCREDITED IN ACCORDANCE WITH nelac
FL NELAP-E87851

Filter ID: 35637 Client: EnviroTest Laboratories Inc.

Station/Body of water: Raleigh Hotel Well #2 (420-30027-2)

RECEIPT OF FILTER:

Date Received: 9/18/2009 # of filters: NA Type: cubitainer Carrier: Fed Ex Priority

COLLECTION:

Collector: N/A Date collected: 9/17/2009
Temperature: °F Turbidity: ------
Water Type: well

FILTER PROCESSING

Color of water around filter: NA Total volume of sediment: 0.02 ml
Filter color: NA Volume of sediment/100 gallons: 7.7 ml/100gal.
Color of sediment: tan IFA equivalent liter volume examined: ------
gallons filtered: 0.26 Phase equivalent gallon volume examined: 0.26

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
Large part. 5 μm & larger	EH	fine silt & sand
Small part. up to 5 μm	EH	fine amorphous debris
Plant debris	NF	

OTHER ORGANISMS		
Nematodes	NF	
Nematode eggs	NF	
Rotifers	NF	
Crustaceans	NF	
Crustacean eggs	NF	
Insects	NF	
Other	NF	

PROTOZOANS	Quantity	Description
Other Coccidia	NF	
Other protozoans	NF	

ALGAE		
Green Algae	NF	
Diatoms	NF	
Blue-Green Algae	NF	
Flagellated Algae	NF	

COMMENTS:

No biological materials 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.

Environmental Associates Ltd. certifies that all quality control elements, as required by NELAP, associated with the above data have been met. Results relate only to the sample.

REPORT REVIEWED BY: Susan M. Bartos **DATE:** November 4, 2009

PWS ID#	Well ID#	Utility Name	EAL Sample ID:
	Raleigh Hotel Well #2 (420-30027	EnviroTest Laboratories Inc.	35637

FL NELAP-E87851

EPA Relative Surface Water Risk Factors

Date: 9/17/2009

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:	0	NF		

COMMENTS: No biological materials 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.

REFERENCE: Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA) USEPA Manchester Environmental Laboratory, EPA 910/9-92-029, October 1992.

L072692

Environmental Associates Ltd. certifies that all quality control elements, as required by NELAP, associated with the above data have been met. Results relate only to the sample.

REPORT REVIEWED BY: Susan M. Bartos **DATE:** November 4, 2009 Environmental Associates, Ltd.

REPORT: MICROSCOPIC PARTICULATE ANALYSIS

ENVIRONMENTAL ASSOCIATES LTD.
24 Oak Brook Drive, Ithaca, NY 14850
(607) 272-8902 Fax (607) 256-7092

ACCREDITED IN ACCORDANCE WITH nelac
FL NELAP-E87851

Filter ID: 35638 Client: EnviroTest Laboratories Inc.

Station/Body of water: Raleigh Hotel Well #4 (420-30027-4)

RECEIPT OF FILTER:

Date Received: 9/18/2009 # of filters: NA Type: cubitainer Carrier: Fed Ex Priority

COLLECTION:

Collector: N/A Date collected: 9/17/2009
Temperature: °F Turbidity: ------
Water Type: well

FILTER PROCESSING

Color of water around filter: NA
Filter color: NA
Color of sediment: tan
gallons filtered: 2.642
Total volume of sediment: 0.02 ml
Volume of sediment/100 gallons: 0.8 ml/100gal.
IFA equivalent liter volume examined: ------
Phase equivalent gallon volume examined: 2.642

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
Large part. 5 μm & larger	EH	fine silt & sand
Small part. up to 5 μm	EH	fine amorphous debris
Plant debris	NF	

OTHER ORGANISMS	Quantity	Description
Nematodes	NF	
Nematode eggs	NF	
Rotifers	NF	
Crustaceans	NF	
Crustacean eggs	NF	
Insects	NF	
Other	NF	

PROTOZOANS	Quantity	Description
Other Coccidia	NF	
Other protozoans	NF	

ALGAE	Quantity	Description
Green Algae	NF	
Diatoms	NF	
Blue-Green Algae	NF	
Flagellated Algae	NF	

COMMENTS:

No biological materials 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.

Environmental Associates Ltd. certifies that all quality control elements, as required by NELAP, associated with the above data have been met. Results relate only to the sample.

REPORT REVIEWED BY: Susan M. Bartos **DATE:** November 5, 2009

PWS ID#	Well ID#	Utility Name	EAL Sample ID:
	Raleigh Hotel Well #4 (420-30027	EnviroTest Laboratories Inc.	35638

FL NELAP-E87851

EPA Relative Surface Water Risk Factors

Date: 9/17/2009

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:	0	NF		

COMMENTS: No biological materials 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.

REFERENCE: Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA) USEPA Manchester Environmental Laboratory, EPA 910/9-92-029, October 1992.

L072692

Environmental Associates Ltd. certifies that all quality control elements, as required by NELAP, associated with the above data have been met. Results relate only to the sample.

REPORT REVIEWED BY: Susan M. Bartos **DATE:** November 5, 2009 Environmental Associates, Ltd.

REPORT: MICROSCOPIC PARTICULATE ANALYSIS

ENVIRONMENTAL ASSOCIATES LTD.
24 Oak Brook Drive, Ithaca, NY 14850
(607) 272-8902 Fax (607) 256-7092

ACCREDITED IN ACCORDANCE WITH nelac
FL NELAP-E87851

Filter ID: 35636 Client: Envirotest Labs

Station/Body of water: Raleigh Hotel Well #4A (420-30027-5)

RECEIPT OF FILTER:

Date Received: 9/18/2009 # of filters: NA Type: cubitainer Carrier: Fed Ex Priority

COLLECTION:

Collector:	N/A	Date collected:	9/17/2009
Temperature:	°F	Turbidity:	------
Water Type:	well		

FILTER PROCESSING

Color of water around filter:	NA	Total volume of sediment:	0.02 ml
Filter color:	NA	Volume of sediment/100 gallons:	6.1 ml/100gal.
Color of sediment:	tan	IFA equivalent liter volume examined:	------
# gallons filtered:	0.33	Phase equivalent gallon volume examined:	0.33

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
Large part. 5 μm & larger	EH	fine silt & sand
Small part. up to 5 μm	EH	fine amorphous debris
Plant debris	NF	

OTHER ORGANISMS	Quantity	Description
Nematodes	NF	
Nematode eggs	NF	
Rotifers	NF	
Crustaceans	NF	
Crustacean eggs	NF	
Insects	NF	
Other	NF	

PROTOZOANS	Quantity	Description
Other Coccidia	NF	
Other protozoans	NF	

ALGAE	Quantity	Description
Green Algae	NF	
Diatoms	NF	
Blue-Green Algae	NF	
Flagellated Algae	NF	

COMMENTS:

No biological materials 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.

Environmental Associates Ltd. certifies that all quality control elements, as required by NELAP, associated with the above data have been met. Results relate only to the sample.

REPORT REVIEWED BY: Susan M. Bartos **DATE:** November 3, 2009

PWS ID#	Well ID#	Utility Name	EAL Sample ID:
	Raleigh Hotel Well #4A (420	Envirotest Labs	35636

FL NELAP-E87851

EPA Relative Surface Water Risk Factors

Date: 9/17/2009

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:	0	NF	

COMMENTS: No biological materials 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.

REFERENCE: Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA) USEPA Manchester Environmental Laboratory, EPA 910/9-92-029, October 1992.

L072692

Environmental Associates Ltd. certifies that all quality control elements, as required by NELAP, associated with the above data have been met. Results relate only to the sample.

REPORT REVIEWED BY: Susan N. Bartos **DATE:** November 3, 2009 Environmental Associates, Ltd.