Appendix 9.12 Aquifer Development and Pumping Test Report

Silo Ridge Resort Community

Aquifer Development And Pumping Test Report

May 2007

THE Chazen COMPANIES

Prepared for:

Higher Ground Country Club, LLC
Route 22
Amenia, New York 12501

Silo Ridge Resort Community

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EXECUTIVE SUMMARY

The Chazen Companies (TCC) were retained to help develop and evaluate capacity of a new community water system wellfield on the 668 acre proposed Silo Ridge Resort Community in the Town of Amenia, Dutchess County, New York. There is an existing public water system well on the site. Eleven new wells were drilled and considered as additional candidate water supply wells.

During 2006, six of the new wells and the existing public water system well were selected for a combined 72-hour pumping test. The selected wells are aligned from north to south along the base of the site's steep west valley wall (Figure 1). One of the new wells was removed from the test when discharge declined below minimum useful flows. The aquifer pumping test was completed with six production wells including the existing public water system well. Wells PW-1, PW-2, PW-4, and PW-5 lie in the northern half of the site and Wells PW-9 and PW-11 lie in the south/central portion of the site. The wells supported a combined yield of 358 gallons per minute (gpm). The best well (Well PW-2) provided 100 gpm of the total yield, making 258 gpm available to a project with the best well off line. No recorded drawdown extended beyond the project's site perimeter in any direction during the test.

During 2007, TCC conducted a focused follow-up 72-hour pumping test of wells PW-9 and PW-11 to marginally increase the verified wellfield yield. Testing was conducted only in these wells because the 2006 test data suggested that well PW-9 could support more yield and because wells PW-9 and PW-11 were suspected to tap interconnected fractures. During the 2007 test, well PW-9 was pumped at a rate 30 gpm greater than the 2006 selected pumping rate and the prior yield from well PW-11 was maintained. The test was successful and increased the total wellfield yield from 358 gpm to 388 gpm. Well PW-9 was shown to be the highest-yielding well, at 105 gpm, making 283 gpm available to a site project with the best well off line.

Average aquifer recharge on the site is currently estimated at approximately 330 gpm. Aquifer recharge during drought years may drop by up to 30 percent, to approximately 230 gpm.

Based on these findings, the tested wells appear capable of supporting continuous yields of up to 283 gpm with the best well off line. All of this yield can be supported by onsite recharge during normal years and up to 230 gpm can be supported during drought years.

During each aquifer pumping test, aquifer drawdown was observed in the pumped production wells. Aquifer monitoring during 2006 was conducted in nine on-site

bedrock monitoring wells, one off-site homeowner well, and multiple stream and pond level gauges and stream weirs. During the 2007 aquifer test, monitoring was conducted in those monitoring wells and stream and pond locations nearest to wells PW-9 and PW-11, and in well PW-2 and PW-4. A summary of aquifer responses to the pumping test follows:

- During the 2006 test, production wells PW-1, PW-2, PW-4, PW-5, PW-9 and PW-11 together supported discharges of 358 gpm for 72 or more hours. Wells PW-9 and PW-11 were pumped 90 hours in 2006 to allow flow rate adjustments and monitoring well water levels to fully stabilize.

- During the 2007 test, wells PW-9 and PW-11 were retested to identify another available 30 gpm from well PW-9, bringing the site's total available well discharge to 388 gpm.

- Thirty, sixty, ninety, and 180-day drought drawdown projections were prepared for each production well using the 2006 and 2007 pumping rates to estimate well water levels which might be expected during extended continuous pumping periods without recharge. All wells appear capable of maintaining tested flow rates during such periods.

- Monitored bedrock wells near the pumping wells indicated that drawdown impacts are strictly limited to on-site areas around the pumping wells.

- The test identified no drawdown impacts extending to wells near or beyond the perimeter of the site. Specifically,

    - To the SOUTH: Well 13 at the south end of the site and south of all tested production wells identified no drawdown during the test;

    - To the EAST: Wells 3, 12 and 15 located between the pumping wells and Route 22 identified no drawdown during the test;

    - To the NORTH: Neither wells 7 or 14 nor an off-site homeowner well monitored near the top of the S-Curve on Route 44 identified drawdown during the test;

    - To the WEST: No wells exist between the pumped wells and the top of the ridge near the west site margin. The ridge marks the hydraulic boundaries of the local watershed, so no drawdown effects would be expected further west of the site.

Water quality from the groundwater wells was tested for conformance with NYSDOH drinking water standards. Some of the wells will require standard treatment for select parameters. Proposed treatment systems are discussed in the water supply report prepared by The Chazen Companies, bound separately.

1.0 INTRODUCTION

The Chazen Companies (TCC) were retained to manage installation and testing of candidate production wells PW-1, PW-2, PW-4, PW-5, Well 6, PW-9 and PW-11 situated on the proposed Silo Ridge Resort Community site in the Town of Amenia, Dutchess County, New York (Figure 1). Wells PW-1, PW-2, PW-4, PW-5 and Well 6 lie in the northern half of the site. Wells PW-9 and PW-11 lie in the south/central portion of the site.

This report provides a review of site hydrogeology, estimated aquifer recharge rates, well installation and development procedures, and aquifer testing procedures and results employed in 2006 and 2007. The locations of the production wells and all monitoring points are shown on Figure 3.

2.0 HYDROGEOLOGY

2.1 Local and Regional Hydrogeology

The Silo Ridge property includes approximately 668 acres situated on the valley floor and climbing the valley walls in the Town of Amenia. The site lies in the watershed of the TenMile River. The Wassaic Creek tributary to the TenMile River flows along the northeast site margin. A smaller, unnamed stream flows from the hillside and from the ponds on the site, near the center of the Silo Ridge parcel. These various streams and ponds are shown on Figures 1 and 3.

Water flows seasonally from the Island Green pond into a deeper, southern pond on the site. Water entering the Island Green pond from the hillside stream is used on occasion for irrigation purposes, infiltrates into local soils, or overflows to the deeper, southern pond. The deeper pond is used for irrigation and overflows to an off-site wetland complex situated between the site and Route 22.

Regional bedrock exposed in abundant outcrops along the steep valley walls and underlying much of the northern site consists of dark slate and schist identified on the NY State Museum Bedrock Geology Map as the Everett Schist. Wells 1, 2, 4, 5 and 6 are installed in this formation.

Dolomitic marble and varying carbonate and carbonate rich-sedimentary units underlie southern portions of the site. Wells 9 and 11 are installed in this formation. Based on air-rotary well cuttings noted during the water development program, the boundary between the schist and the carbonate formations on the site appears to lie in the vicinity of the club house. This boundary location is consistent with NY State Museum Bedrock Geology Map mapping. Statistical well yields from both the schist and the carbonate formations typically fall between 5 to 15 gallons per minute (gpm). Wells encountering major fractures in either formation can collect recharge from broader areas and support higher yields.

Surficial geologic sediments cover much of the site's lower-elevation areas. In some areas bedrock rises through these sediments to grade. The surficial geologic sediments include both glacially-deposited silty till and water-washed sandy lake or glacial outwash-type deposits. Till more than 100 feet thick was identified during installation of wells PW-2 west of the club house. The till in this area extends northward to near the Route 44 S-Curve on the basis of site soils and logs for wells PW-4 and PW-5. Water-washed sands were identified during installation of Wells 8 and 12 along the Wassaic Creek and in the southern wetland area, respectively. Both wells 8 and 12 encountered finer-grained glacial till sediments before the wells entered the underlying bedrock (Appendix A).

A unique geologic factor at this site involves reputed historic iron ore mining conducted through a vertical cut occupied today by the southern pond situated near the Island Green pond. The presence of an ore pit in this area is consistent with soft, iron-stained rock zones encountered during drilling of wells PW-2, PW-4, PW-5, Well 6, PW-9, Well 10, PW-11, and Well 12 (Appendix A). According to facility personnel, this pond is reportedly approximately 100 feet deep with steep bedrock walls and some limited springs discharging into the pond. Such spring discharges are estimated to support stream overflows observed at Weir 1 (Figures 3 and 4).

Precipitation and hillside runoff are the sole sources of groundwater recharge in bedrock and sediment aquifer formations on the site. Recharge infiltrates first through soil horizons and passes into or through surficial glacial deposits to enter the bedrock fractures. Excess groundwater eventually discharges from these bedrock and sediment aquifers at site streams. Either groundwater from bedrock fractures in the quarry pond, or leakage through from the Island Green pond supports continuous pond overflow from the quarry pond even during observed dry periods.

2.2 Bedrock Fracture Trace Analysis

Before drilling candidate bedrock wells on the site, TCC evaluated maps and photographic records to identify naturally-formed surface traces potentially associated with underlying prominent bedrock fractures.

Black and white aerial photographs, 10 inches square and matte finished at a 1:35,000 scale, were obtained from USDA-FSA Aerial Photography Field Office. The photos provided a two-thirds overlap allowing stereoscopic (3-D) review using a portable stereoscope with 10X magnification.

Where linear features could not be discounted as human-design features, the linear features were plotted on site maps (Figure 1) and considered when selecting candidate production wells. Wells 2, 4 and 5 most clearly benefited from this analysis while wells 9 and 11 confirm that productive bedrock wells can also nonetheless sometimes be installed in areas not readily suggested by landscape features.

2.3 Site Recharge Analysis

Annual precipitation in Dutchess County is normally between 40 and 45 inches. Average total annual rainfall between 1951 and 1980 in western portions of Amenia, including the Silo Ridge site, was approximately 42 inches (Randall, 1996).

Various methods may be used to estimate annual aquifer recharge in areas with upland glacial tills and in valley areas with typically more sandy sediments. A USGS evaluation of comparable lands in nearby Connecticut estimates seven inches of annual recharge through upland silty-clay soils (Cervione, etc. al 1972). USGS evaluations of southern Dutchess County aquifers (Snavely, 1980) and Putnam/Westchester County aquifers (Wolcott & Snow, 1995) identify annual recharge rates of between 7 and 10 inches in areas with glacial till and between 18 and 21 inches in sediment-filled valley areas. Work by Gerber (1982) for Dutchess County estimated annual recharge rates of 5 to 7 inches for areas with soils containing silt and clay and between 14.3 and 18 annual inches in areas with sands and gravel. The Silo Ridge site covers 668 acres. Using a conservative value of 16 annual inches of aquifer recharge on the approximately 200 acres of sandy bottom lands enclosing the existing golf and adjacent areas, and using 7 annual inches of aquifer recharge on the remaining 468 acres of steeper upland site areas, the average site-wide aquifer recharge is approximately 176 million gallons, equivalent to an average continuous recharge rate of approximately 335 gallons per minute. Precipitation during extreme drought years may fall by as much a 30 percent, during proportional recharge would be expected to drop to 123 million gallons, for an annualized average of 234 gallons per minute.

A recently-published study also by The Chazen Companies (2006) has identified aquifer recharge rates in the Wappinger Creek watershed for Hydrologic Soil Groups mapped by the Natural Resources Conservation Service. The assessment identified 18.2 annual inches of aquifer recharge through Hydrologic Soil Group (HSG) A and A/D soils, 13.3 inches per year through HSG group B soils, 6.8 inches per year through HSG group C and C/D soils, and 3.8 inches per year through HSG group D soils. Precipitation in the western portion of Amenia averages 42 inches rather than the 40 inches typically occurring in the Wappinger Creek watershed, so aquifer recharge rates on the Silo Ridge site would be proportionally higher: 19.1 annual inches through HSG group A and A/D soils, 14.0 annual inches through HSG group B soils, 7.1 annual inches through HSG group C and C/D soils, and 4.0 annual inches through HSG group D soils on the Silo Ridge site. Figure 2 shows the distribution of Hydrologic Soil Groups on the site along with approximate acreages of each soil group. Using these acreages and recharge rates, on-site annual aquifer recharge is approximately 171 million gallons, averaging 325 gallons per minute. During a drought with 30 percent precipitation reductions, proportional aquifer recharge reduction would fall to 119 million gallons per year, averaging to 227 gpm.

Based on these two recharge prediction methods, average aquifer recharge on the Silo Ridge site lies between of between 325 and 335 gpm during typical years and may fall to approximately 230 gpm during drought years. These values exceed the average proposed daily potable water demand for the site so no off-site groundwater drawdown impacts are anticipated. The proposed location for the discharge of

treated project wastewater is upstream of the irrigation water take-out point, so fully balances the project's irrigation water demand without requiring any further groundwater or surface water resources.

3.0 WELL INSTALLATIONS AND DEVELOPMENT

3.1 Site Wells

Seven water wells were included in the 2006 multi-well pumping test at the site. Well 6 was taken out of service early in the test when its yield fell below a minimum reasonable discharge. All wells installed on the site are described below briefly and locations are shown on Figure 3. Available well logs are included in Appendix A.

- Well PW-1 has been in service for many years at the Silo Ridge Clubhouse. It has been sampled previously and is the listed primary source of water for the existing public water system permit at the site. Based on well sounding, it is approximately 211 feet deep from the casing rim. A pump was installed in the well for the present test with an intake at 207 feet below the casing rim. Casing depth and geologic formations penetrated are unknown.

- Wells 2 through 12 were installed during early 2006 as part of a water supply exploration program on the property. Each of these wells lies a minimum of 200 feet from property lines and the location of each well was selected either on the basis of fracture trace analysis or on sequentially improved understandings of site geology identified during the drilling program. Each new well is six inches in diameter. The most productive of the new wells are PW-2, PW-4, PW-5, PW-9 and PW-11. The rest, including Well 6 are less production and are identified as Well 3, Well 6, Well 7, Well 8, Well 10 and Well 12 in this report. All site wells not pumped during the flow test were used as monitored wells during the 2006 pumping test. A subset of untested wells was used for monitoring purposes during the 2007 test. Well logs are found in Appendix A.

- Several pre-existing bedrock wells existed on the site. One such bedrock well lies near Lake Amenia Road and is referred to as Well 14 in this report. Two other bedrock wells lie south of well PW-9. These are referred to as Well-A6D and Well 13 in this report. These were installed as part of off-site groundwater investigations. An existing well at the maintenance building is referred to in this report as Well 15.

4.0 AQUIFER TEST DESIGN COMPONENTS

4.1 Pumping Test Protocols

The protocol selected for the 2006 test included the following:

- Simultaneous testing of candidate production wells PW-1, PW-2, PW-4, PW-5, Well 6, PW-9 and PW-11. As a practical matter, test wells were started and turned off with up to 2 hour delays between wells.

- The pumping period for each well extended a minimum of 72-hours and was extended in wells PW-9 and PW-11 to confirm stability of adjusted pumping rates during the test.

- Wells monitored during the combined pumping test included the pumping wells and all other known wells on the property, including a well at the maintenance garage, a well along Lake Amenia Road, two bedrock monitoring wells near the south end of the site.

- Reasonable efforts were made to monitor existing domestic wells abutting the site to the north and east.

- Wells were monitored during the pumping test using either pressure sensors equipped with continuous data loggers or monitored using manual water level meters.

- Pumped ground water was conveyed to discharge locations downhill from and downstream from streams and ponds on the site to avoid potential short-circuiting of pumped water back into the aquifer near any pumped well. These discharge locations are shown on Figure 3.

- Off-site and on-site monitoring included pre-test and post-test water level measurements for at least 3 days before and after the test, sufficient to identify regional groundwater level trends. Precipitation records were monitored to help evaluate the influence of groundwater recharge occurring during aquifer testing. Water level recovery after the test was measured until a minimum of approximately 90% recovery was achieved.

- TCC collected water samples for analyses of all constituents listed in the NYS Sanitary Code, Part 5, Sub-Part 5-1 and radon and MTBE.

- Pumped wells within 200 feet of a surface water body were also be sampled for micro-particulates which could be indicative of groundwater recharged directly by surface waters and receiving insufficient natural filtration.

- Staff gages were installed in streams and ponds on the site to help quantify potential drawdown affects of pumping wells on surface water.

The protocol selected for the 2007 test was closely modeled on the 2006 test. Differences consisted only of the following:

- Only wells PW-9 and PW-11 were included in the 2007 test.

- Testing of these wells lasted 72-hours.

- All existing production wells and other existing wells near wells PW-9 and PW-11 were monitored prior to, during, and following the pumping test.

- No off-site monitoring was conducted since no offsite drawdown impacts were identified during the 2006 test and wells PW-9 and PW-11 lie farther from off-site wells than do the other site production wells.

- Wells PW-1, PW-2, PW-4 and PW-5 were not retested in 2007 because no additional yield was desired from these wells and wells PW-9 and PW-11 lie some distance from the other four wells.

- Wells PW-9 and PW-11 were retested for microparticulate constituents.

4.2 Pump and Piping Selection

Prior to conducting the aquifer tests, all test wells were equipped with pumps, downhole piping and electric wiring. All pumps were operated using portable diesel generators.

Pumping rates in all wells were monitored during the test using in-line flow meters. Flow rates were controlled by gate valves at each well head location. Pumped water was conveyed to nearby standing water bodies using flexible fire hose. Discharge locations of pumped water from each well during both tests are shown on Figure 3.

4.3 On-Site Monitoring Program

The on-site monitoring network for the multi-well aquifer test consisted of onsite bedrock monitoring wells, staff gauges in ponds and streams, and two weir gauges (Figure 3).

Aside from the production wells, other wells monitored during the combined 2006 pumping test included wells 3, 6, A6D, 7, 8, 10, 11, 13, 14, and 15.

Water levels at all locations were recorded during 2006 either manually or with depth sensors linked to continuous data recording devices. The accuracy of both methods is normally accurate to 0.01 foot. Water levels in the production wells were evaluated manually with m-scopes or using air pressure tubes. Water level readings were secured rapidly in production wells and monitored wells during test start-up periods and less frequently during later periods of the tests. Monitoring continued beyond the termination of the pumping tests long enough to record groundwater recovery.

Wooden staff gauges SG-1 through SG-8 were installed in streams and ponds on the site. During the 2006 and 2007 test, periodic measurements at these gauges were recorded measuring down from the top of each stake (Table 4). The depth of water overflowing two existing weirs was also recorded periodically.

A vertical-sided bucket was used on the golf course grounds to record precipitation. Accumulated rainfall in the bucket was measured using a tape measure. Significant rain fell only during the second day of the 2006 test (Table 2). No significant rain fell during the 2007 test although approximately 5 inches of rain had fallen a few weeks before the test.

4.4 Off-Site Monitoring Program

Prior to the 2006 test, letters of inquiry were sent and/or hand-delivered to parcel owners and to select property owners situated east and north of the Silo Ridge property. The letters sought permission for TCC to monitor domestic wells during the 2006 aquifer pumping test period.

No property owners along Lake Amenia Road were contacted because most if not all these residences are believed to receive water from the Amenia water district, and because onsite monitored wells 7 and 14 were to be used to estimate likely test impacts extending in off-site directions in this area.

Two residences were contacted along Route 44 near the S curve. Permission was provided by the site owner to monitor the more westerly of these two wells, so TCC equipped the well with a pressure transducer and data logger during the 2006 aquifer pumping test period to monitor water level in the well. The more easterly home on the S curve was offered for monitoring by its owner but was not selected by TCC for monitoring due to restrictive well access and site condition constraints.

Certified mail was sent to the Dutchess County Department of Public Works requesting permission to monitor the water level in a well at the County DPW/ County Sheriff's site on Route 22 immediately north of Silo Ridge. A County representative returned correspondence with a determination that they would not allow water level monitoring.

Residents at two residences across Route 22 from the DPW/Sheriff site were contacted. Permission to monitor these wells was not resolved by the time testing began. On-site monitored of wells 3, 7, 8, 4 and 15 was instead used to estimate likely test impacts on off-site wells in this direction.

A well at the Amenia sportsman's club immediately south of the Silo Ridge main entry was not monitored during the 2006 test because Silo Ridge's Well 15 lay close by and provided an equivalent monitoring point.

5.0 2006 AQUIFER TEST

5.1 Groundwater Response in Pumping Wells

An extended multi-well pumping test was conducted between March 13, 2006 and March 17, 2006. The test initially engaged the seven pumping wells PW-1, PW-2, PW-4, PW-5, Well 6, PW-9, and PW-11. Yield from Well 6 dropped during the early hours of testing so pumping of this well was terminated. Individual well pumping rates and final drawdown values are summarized on Table 1.

The pumps in each production well were activated sequentially during a startup period of approximately 6 hours on March 13, 2006. During the first hours of pumping in each of the wells, manual water level data were collected frequently. Manually collected water level data were thereafter collected several times each day. Some of the production wells were also monitored using air pressure tubes.

Yields and drawdown in wells PW-1, PW-2, PW-4 and PW-5 stabilized early during the 72-hour test period and drawdown in surrounding monitored wells also either stabilized or were beyond areas influenced by the tests and so did not respond to the test. Pumping in these four wells was terminated after 72 hours of testing.

Drawdown in wells being monitored south of well PW-9 had not fully stabilized after approximately 60 hours of pumping, and the pumping rate in well PW-11 had been adjusted upward from 56 gpm to 65 gpm during the test, so discharge from the more southerly wells PW-9 and PW-11 was extended to approximately 90 hours to allow full stabilization of yields and drawdown from these two wells.

Performance summaries based on the 2006 flow test for each candidate production well follows:

5.1.1 Well PW-1

Well PW-1 is approximately 211 feet deep and equipped with a pump installed approximately 207 feet below ground surface (bgs). Figure 5 shows water level and flow rate changes during the 2006 test.

Pumping in Well PW-1 began on March 13, 2006 at a discharge rate approximately 80 gpm. Testing ended on March 16, 2006. By the end of the test, the water level had declined approximately 86 feet below the pre-test static water level. The pumping rate at the end of the test remained stable at 80 gpm.

Projections of the water level decline in well PW-1 through 30, 60, 90 and 180 days of simulated continuous pumping without recharge are depicted in Figure 6. After 90 days of pumping without recharge, the water level is projected to fall to approximately 135 feet below the well casing. After 180 days of pumping without recharge the water level is projected to fall to approximately 145 feet below the rim of the well casing. Both projections remain forty or more feet above the level of the pump intake.

5.1.2 Well PW-2

Well PW-2 is approximately 345 feet deep and equipped with a pump installed approximately 258 feet bgs. Figure 7 shows water level and flow rate changes throughout the 2006 test.

Pumping in Well PW-2 began on March 13, 2006 at a discharge rate approximately 100 gpm. Testing ended on March 16, 2006. By the end of the test, the water level had declined approximately 144 feet below the pre-test static water level. The pumping rate at the end of the test remained stable at 100 gpm.

Projections of the water level decline in well PW-2 through 30, 60, 90 and 180 days of simulated continuous pumping without recharge are depicted in Figure 8. After 90 days of pumping without recharge, the water level is projected to fall to approximately 182 feet below the well casing. After 180 days of pumping without recharge the water level is projected to fall to approximately 190 feet below the rim of the well casing. Both projections remain sixty or more feet above the level of the pump intake.

5.1.3 Well PW-4

Well PW-4 is approximately 445 feet deep and equipped with a pump installed approximately 403 feet bgs for the test. Figure 9 shows water level and flow rate changes throughout the 2006 test. Residual sediment discharges blocked flow meter operation and interfered with the flow value such that the discharge rate varied between approximately 12 to 30 gpm during the test period.

Pumping in Well 4 began on March 13, 2006 at a discharge rate of approximately 15 gpm. Testing ended on March 16, 2006. By the end of the test, the well water level was repeatedly observed at a depth of approximately 80 feet when the well discharge varied between 12 and 15 gpm and drawdown appeared to drop to approximately 170 feet whenever discharge was temporarily increased to as much as 30 gpm. Fracture dimensions in this area appear to rate-limit the well's yield, such that yield and drawdown respond predictably up to yields of approximately 15 gpm, but drawdown increases significantly at any higher pumping rates.

Projections of the water level decline in well PW-4 through 30, 60, 90 and 180 days of continuous pumping without recharge are shown on Figure 10. After 90 days of pumping without recharge, the water level is projected to fall to approximately 138 feet below well casing at discharge rates of between 12 to 15 gpm. After 180 days of pumping without recharge the water level is projected to fall to approximately 140 feet below the rim of the well casing. If the well had been pumped consistently at 30 gpm, it is likely the 180 day drought projection would have fallen to approximately 220 feet below the casing rim. The 15 gpm projections remain nearly 260 feet above the level of the pump intake (Figure 10).

5.1.4 Well PW-5

Well PW-5 is approximately 465 feet deep and equipped with a pump installed approximately 192 feet bgs for the test. Figure 11 shows water level and flow rate changes throughout the 2006 test. Yield was increased during the test from an initial yield of approximately 18 gpm to a final flow of between 20 and 26 gpm after pumping of nearby Well 6 was terminated.

Pumping in Well 5 began on March 13, 2006 at a discharge rate of approximately 18 gpm. Testing ended on March 16, 2006. By the end of the test, the well water level had declined approximately 120 feet and yield varied between 20 and 26 gpm, for an average yield of approximately 23 gpm.

Projections of the water level decline in well PW-5 at a pumping rate of 23 gpm through 30, 60, 90 and 180 days of simulated continuous pumping without recharge are shown on Figure 12. After 90 days of pumping without recharge, the water level is projected to decline to approximately 170 feet below the well casing. After 180 days of pumping without recharge the water level is projected to fall to approximately 275 feet below the rim of the well casing. These projections remain approximately 20 feet above the level of the pump intake and over 200 feet above the bottom of the well.

5.1.5 Well PW-9

Well PW-9 is approximately 405 feet deep and was equipped in 2006 with a pump installed 235 feet bgs. Figure 13 shows water level and flow rate changes during the 2006 test.

Pumping in Well PW-9 began on March 13, 2006 at a discharge rate of 75 gpm. The water level substantially stabilized by the end of the test. Discharge was maintained throughout the test until the pump was shut off on March 17, 2006.

Projection of the general rate of water level decline through 30, 60, 90 and 180 days of continuous pumping at 75 gpm without recharge is depicted in Figure 14. After 90 days of pumping without recharge the water level is projected to fall to approximately 157 feet below grade. After 180 days of pumping without recharge the water level is projected to fall to approximately 158 feet below grade. Both projections remain more than 70 feet above the level of the pump and substantially above the bottom of the well.

5.1.6 Well PW-11

Well PW-11 is approximately 605 feet deep and equipped with a pump installed approximately 572 feet bgs. Figure 15 shows water level and flow rate changes during the 2006 test.

Pumping in Well PW-11 began on March 13, 2006 at a discharge rate of 56 gpm. The water level dropped early in the test to approximately 275 feet below the well casing rim. Yield from the well was increased on March 15 to 65 gpm to explore a higher discharge rate and the test was extended to confirm reliability of the higher rate. Final drawdown at 65 gpm was approximately 490 feet below the pre-test static water level.

Two projections of water level associated with 30, 60, 90 and 180 days of continuous pumping without recharge at 65 gpm are depicted in Figure 16. Based on the final water level observations (Figure 15), the water level in well PW-11 had fully stabilized by the end of the test such that no further decline would occur. The most likely drawdown projection for this well, therefore, is a flat line projection leaving more than 100 feet of water in the well over the pump. An alternate and more conservative drawdown pathway is estimated on Figure 15 in which the water level is projected to decline at approximately the same rate of decline observed during early pumping at 56 gpm. Under this estimation approach, the water level in the well could fall to approximately 540 feet below the casing elevation after 90 days of continuous pumping without recharge at 65 gpm, and to 545 feet below the casing rim after 180 days of pumping without recharge. Both projections remain above the level of the pump.

5.2 Groundwater Responses in Other Monitored Locations

Water level responses observed during the 2006 multi-well test in on-site monitored bedrock wells and the Segalla homeowner well are plotted on Figures 17 through 27. Water level data collected from the stream and pond surface water gauges are listed on Table 4. Sections 5.2.1 and 5.2.2 describe drawdown impacts observed during the multi-well test.

5.2.1 On-Site Monitored Wells, Staff Gauges and Weirs

On-site bedrock wells, one homeowner well, eight staff gauges and two stream weirs were monitored manually during the 2006 test using handheld meters or automated water level recording instruments.

Well 6, Well A6D, and Well 10 recorded a maximum of 10.85 feet, 14.80 feet and 3.36 feet of drawdown, respectively, during the 2006 aquifer test (Figures 18, 26, and 21). Drawdown in Well 6 reflects nearby pumping of well PW-5. Drawdown in wells 10 and A6D reflect pumping in well PW-9 based on proximity of each monitored well to the pumping wells.

No other on-site monitored wells showed measurable responses to the pumping test. Data from wells 3, 7, 8, 13 were essentially unchanged throughout the test period. Monitored wells in the southern portion of the site showed natural regional declines both before and after the pumping tests. Well 13 (Figure 23) showed some gradual groundwater recovery associated with rainfall occurring early during the pumping test. Wells 12 and 14 remained in an artesian condition (flowing freely over the top of well casing) throughout the test.

Staff gauges SG-1 through SG-8 and weirs 1 and 2 were installed in ponds and streams across the site to identify declines in surfacewater bodies related to groundwater testing (Table 4). Rain during the first 36 hours of the 2006 test raised water levels in nearly all staff gauges and weirs. Levels then fell to pre-rainfall levels during the rest of the test period.

5.2.2 Off-Site Monitored Well

A monitored domestic well (Segalla) lies north of wells PW-2 and PW-4 (Figure 3). No other offsite wells were available for monitoring.

The water level in the Segalla rental well fluctuated daily because of domestic water uses but showed no longer-cycle changes in water level between the domestic use periods indicative of the Silo Ridge test. Accordingly, the data identify that the Silo Ridge flow test did not modify the aquifer water level at this site. The resident reported some turbidity in well water when the test began but clarity reportedly returned later in the test, rendering the observation and its cause uncertain and unlikely to be related to the pumping test.

5.3 Multiple Well Pumping Test Impact Analysis

The 2006 multi-well aquifer test demonstrated that the six production wells can supply 358 gpm for extended periods. On the basis of the groundwater recharge

budget estimated for the site, no drawdown impacts would be expected to extend beyond the property perimeter during normal years as long as average daily demand does not exceed 330 gpm. During drought years, drawdown could be expected to extend beyond site boundaries if average daily withdrawal rates exceed 230 gpm.

A contour map showing estimated drawdown associated with the 2006 multi-well bedrock aquifer pumping test is shown on Figure 4. The greatest drawdown impacts occur immediately around each well. The contours shown on Figure 4 are estimates; some variation in contour line shapes is likely depending on the orientation of particular water-bearing fractures supplying each well.

The estimated 10 foot drawdown contour line demonstrates that all meaningful test drawdown remained entirely on the site during the 2006 test. On-site wells near site property lines showed no drawdown effects to the south, east and north of the production wells. These observations indicate that the test imposed no drawdown off-site impacts in locations yet more distant from the production wells.

Test analysis indicates that extended use of these production wells for between 90 and 180 days without recharge from precipitation is not anticipated to bring aquifer levels below pump levels.

5.5 Well Water Chemistry: NYSDOH Sub-part 5 Sampling

Test production wells 1, 2, 4, 5, 9 and 11 were sampled for constituents listed in NYSDOH Sanitary Code Sub-Part 5, applicable to community water system wells. Well PW-1 was selected for representative site sampling for diquat, glyphosate, endothall and dioxin.

Water quality samples were collected during the final day of pumping, after approximately 70 hours of continuous pumping and before termination of the 72-hour flow test. Samples were packed with ice in coolers and transported by a laboratory courier to Eastern Laboratory Services, Inc, (ELS) in Waverly, Pennsylvania.

Copies of the laboratory reports from ELS are provided in Appendix B. Table 5 summarizes the laboratory results and lists NYSDOH drinking water guidance values and standards. Proposed treatment systems are discussed in a water supply report prepared by TCC, bound separately. Iron, manganese, turbidity and/or lead exceeding drinking water standards were detected in wells PW-1, PW-2, PW-4 and PW-5. The elevated metal detections are likely related to turbidity and will decrease as turbidity in the wells clears over extended use periods. Accordingly,

treatment for metals may not be necessary. Coliform bacteria were not detected in any of the production wells.

5.6 Well Water Chemistry: MPA Sampling

Groundwater filtrate samples were collected for microscopic particulate analysis (MPA) from wells PW-2 and PW-11. Well PW-2 is the site's highest capacity well and is situated within 200 feet of a seasonal stream; the composite sample was collected for MPA analysis although the casing extended to a depth of 275 feet including through 110 feet of glacial till.

Well PW-11 was sampled because it is situated near a pond reportedly 100 feet deep. Well PW-11 was constructed with 225 feet of steel casing.

No filtrate sample could be collected from well PW-4 because its construction is comparable to that of well PW-2. No sample could be collected from well PW-5 until further use reduces well turbidity.

Each of the MPA filtrate samples was collected during the third day of the pumping test. For comparison purposes, water quality in the pond by well PW-11 was also sampled for MPA analysis.

The samples were collected, packed in coolers with ice and shipped to Environmental Associates, Ltd. (EA) in Ithaca, NY. EA laboratory reports are provided in Appendix C.

Laboratory results from sampling of well PW-2 were assigned an EPA risk factor of "Low Risk" on the basis of low detected algal counts (Appendix C). Coliform bacteria were not were detected in the Sub-Part 5 sampling analysis in this well (Table 5 and Appendix B).

Results from well PW-11 identified were assigned an EPA risk factor of "High Risk" on the basis of high algal and diatom counts (Appendix C). Coliform bacteria were not detected in the Sub-Part 5 sampling analysis for well PW-11 and turbidity as recorded in NTU units was below detection limits (Table 5 and Appendix B). The water sample from the nearby pond identified "R" (rare) algae and diatoms (Appendix C).

Proposed treatment systems, where appropriate, are discussed in the water supply report prepared by TCC in 2006 and bound separately.

6.0 2007 AQUIFER TEST

The 2006 pumping test program confirmed an available well water supply from the site wellfield. As a result of revised estimates of a water demand which might be needed on this site, wells PW-9 and PW-11 were re-tested in 2007 using a higher pumping rate in well PW-9. Wells PW-1, PW-2, PW-4 and PW-5 were not pumped during this test because wells PW-9 and PW-11 lie considerably south of the other four wells and significant additional yield was only being sought from well PW-9, the southernmost well.

6.1 Groundwater Response in Pumping Wells

An additional multi-well pumping test was conducted between April 23, 2007 and April 26, 2007. The test focused on testing of wells PW-9 and PW-11. The pumping rate in PW-9 was increased from the 2006 test rate of 75 gpm to 105 gpm. The pumping rate in PW-11 remained at the 65 gpm rate used during the 2006 test.

The wells were pumped concurrently because the prior test had suggested drawdown influence between these wells. Individual well pumping rates and final drawdown values are summarized on Table 1.

Pumps in the two production wells were turned on sequentially during a startup period of approximately 1 hour on April 23, 2007. During the first hours of pumping in each well, manual water level data were collected frequently; thereafter, manual water level data were collected at periodically each day.

Yields from both wells stabilized early during the 72-hour test and drawdown in the production wells and surrounding monitored wells also stabilized. Pumping was terminated at the end of a 72-hour test period.

Pre-test unpumped (static) aquifer water levels in all wells were between 1 and 4 feet higher than the static water levels observed prior to the 2006 pumping test. This can be attributed to regional rain events that occurring between April 15 to 17, 2007 and an associated seasonal difference in ground water elevations. Between rainfall events, regional rates of natural groundwater level decline observed in site wells averaged between approximately 0.05 to 0.16 feet per day.

Performance summaries for each of the candidate production wells follow:

6.1.2 Well PW-9

Location of the pump installation within the depth of the well remained approximately the same from the previous test. Figure 28 shows the water level responses in Well PW-9 during the 2007 test.

Pumping in Well PW-9 began on April 23, 2007 at a discharge rate of approximately 120 gpm but was adjusted to 105 gpm after a few hours of pumping on the basis of observed drawdown responses. The test was ended after 72 hours on April 26, 2007. At the end of the test the water level had declined 127 feet below the pre-test static water level. The pump maintained at a stable discharge rate of 105 gpm throughout the test.

Projections of the water level decline in Well PW-9 through 30, 60, 90, and 180 days of simulated continuous pumping at 105 gpm without recharge are depicted in Figure 29. After 90 days of pumping without recharge, the water level is projected to fall approximately 179 feet below the well casing. After 180 days of pumping without recharge the water level is projected to fall to approximately 181 feet below the rim of the well casing. Both projections remain 50 feet or more above the level of the pump intake.

The 90 and 180 day projections for the 2007 pumping test are within 30 feet of the drawdown projections estimated during the 2006 pumping test at the prior pumping rate of 75 gpm. The additional drawdown appears appropriate relative to the 50% yield increase in 2007.

6.1.3 Well PW-11

The pump used in well PW-11 in 2007 was installed at the same depth as during the 2006 test. Figure 30 shows the water level changes in Well PW-11 during the test.

Pumping in Well PW-11 began on April 23, 2007 at a discharge rate of up to 85 gpm. The pumping rate was reduced to approximately 70 gpm after 5 hours of pumping and then returned to the 65 gpm discharge rate used in 2006 after the first full day of pumping. At this pumping rate, the water level maintained stability for the duration of the test. The test was ended after 72 hours on April 26, 2007. By the end of the test, the well water level was observed at a constant depth of 234 feet below the pre-test static water level. The pumping rate at the end of the test remained stable at 65 gpm. The response of the well suggests that yield from well PW-11 is limited by particular fracture dimensions, such that pumping at any rate higher than approximately 65 gpm results in continuous water level declines

because fracture dimensions rather than aquifer shortcomings prevent more rapid water inflow to the well.

Water level projections in Well PW-9 through 30, 60, 90, and 180 days of simulated continuous pumping at 65 gpm without recharge are depicted in Figure 31. The waterlevel after extended periods of pumping are project4ed to remain relatively stable. After 90 days of pumping without recharge, the water level is projected to fall to approximately 258 feet below the well casing. After 180 days of pumping without recharge the water level is projected to fall to approximately 259 feet below the rim of the well casing. These levels are slightly above the flatlined projections identified in 2006. Both projections remain 310 feet or more above the level of the pump intake.

6.2 Groundwater Responses in Other Monitored Locations

The monitoring network for the 2007 pumping test included only wells near the pumping wells. Water levels were recorded in six onsite monitoring wells (Well 10, Well 12, Well 13, Well A6D, PW-2 and PW-4), two pond surface water gauges (SG-4 and SG-4) and Weir 1.

Water level responses observed during the 2007 test in on-site monitored bedrock wells are plotted on Figures 32 through 36. Water level data collected from pond surface water gauges are listed on Table 8.

Onsite monitoring wells were monitored manually with handheld meters and automated water level recording instruments during the 2007 aquifer test.

Well 10, Well 13, Well A6D, PW-2 and PW-4 recorded a maximum of 17.87 feet, 0.22 feet, 4.63 feet, 2.22 feet, and 1.03 feet of drawdown, respectively (Figures 32, 34, 35, 36, and 37; Table 6). Well 12 remained artesian throughout the pumping test. Drawdown in wells PW-2 and PW-4 was modest and likely influenced drawdown observed in these wells during the 2006 test since well PW-11 was pumped at the same discharge rate during both tests.

Staff gauges SG-4 and SG-5, and Weir 1 were installed in ponds and streams located near the pumping wells to identify any effects of the pumping test on surface water bodies during the pumping test (Table 8). The stakes and weirs recorded a regional decline in water levels of the surface water bodies following precipitation prior to the test. No water level drawdown relating to the pumping test was observed.

6.3 Multiple Well Pumping Test Impact Analysis

Focused retesting of PW-9 and PW-11 in 2007 demonstrated that PW-9 can support withdrawals of 105 gpm with minimal additional impacts to other pumping or monitored wells. Well PW-11 was tested at the same flow rate as the 2006 test and confirmed the previously achieved yield.

The 2007 test identified a combined wellfield yield of 388 gpm with all wells pumping continuously. Well PW-9 provides the highest yield of any well in the wellfield, at 105 gpm; the wellfield can provide 283 gpm with all wells except PW-9 in continuous use.

6.4 Well Water Chemistry: MPA Sampling

Sampling of well PW-9 and PW-11 identified water from this well as "low risk" for inadequately filtered potential surfacewater entry into the well. This result is better than the result identified in 2006 and may relate to different seasonal conditions or the additional beneficial flushing received by PW-9 and PW-11 after a second full-length aquifer test.

7.0 CONCLUSIONS

The site pumping tests indicate that wells PW-1, PW-2, PW-4, PW-5, PW-9 and PW-11 supported a combined yield of approximately 388 gallons per minute during 72 hour pumping tests. Drawdown projections for each well indicate that water levels in each well will remain above pump levels during periods as long as 180 days without recharge.

On-site bedrock wells, one private residence wells, eight stream staff gauges and two weirs were monitored during the aquifer pumping tests. All pumped and monitored wells showed stabilization by the termination of the tests. Stream and pond water and weir levels were effectively unchanged through the test period although rose during a 2006 rainfall event occurring during that test.

Water quality from the groundwater wells was tested for conformance with NYSDOH drinking water standards and will require standard treatment for select parameters. The proposed treatment systems are discussed in the water supply report prepared by TCC in 2006 and bound separately. A determination will be needed by NYSDOH as to whether wells PW-9 or PW-11 are categorized as being under the direct influence of surfacewater quality.

8.0 REFERENCES

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FIGURES

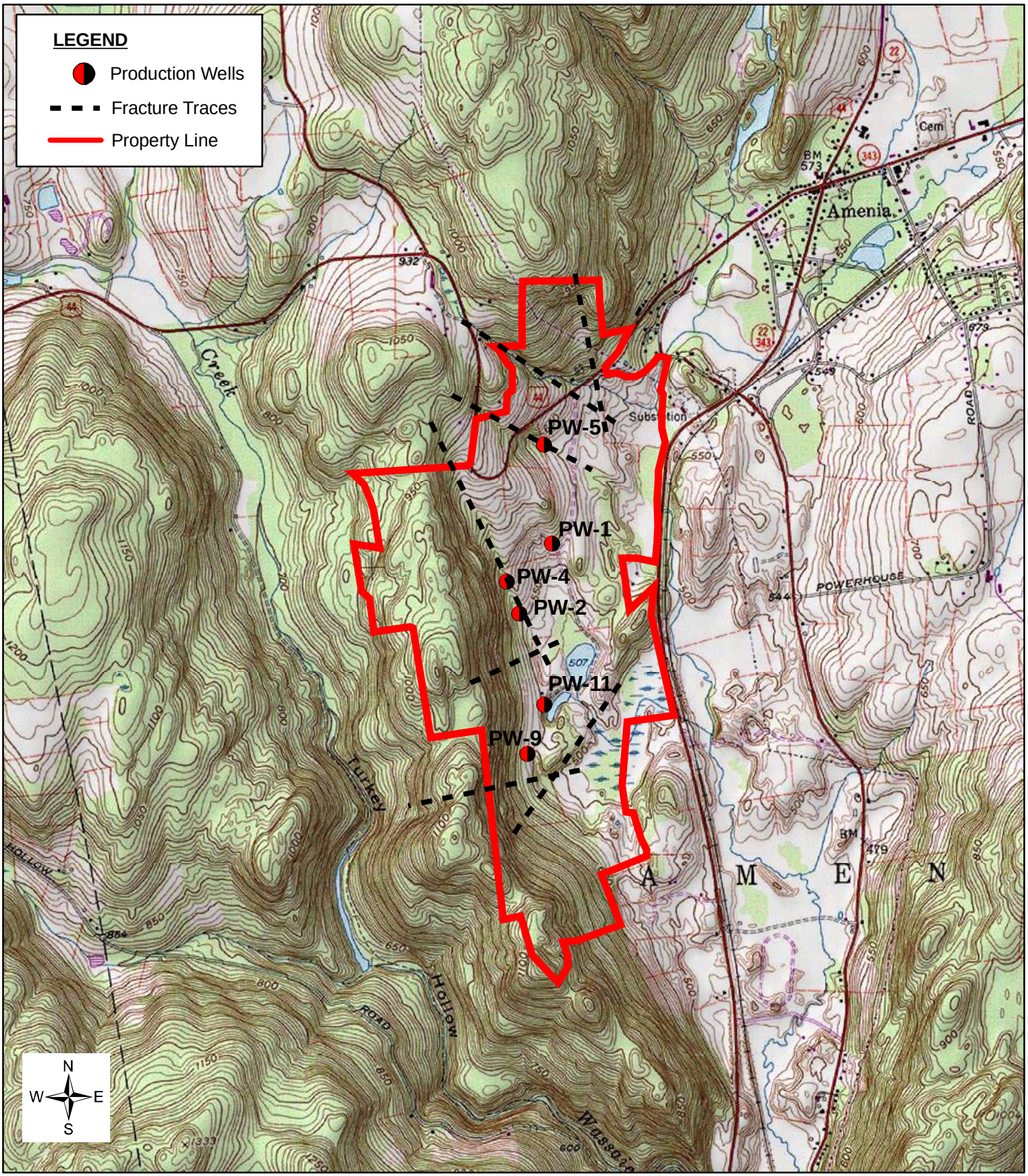

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FIGURE 1 - SITE LOCATION MAP WITH FRACTURE TRACES AND PRODUCTION WELLS

Silo Ridge

Town of Amenia, Dutchess County, New York

USGS Topographic Map of the Amenia, New York Quadrangle
Dated 1984. Photo Revised 1989. 7.5 Minute Series

Date:
April 2006

Scale:
1:2,000 ft

Project #:
10454.01

Hydrologic Soil Groups

- Approximately 6 Acres
- A/D, 25.7 Acres
- B, 187.7 Acres
- C and C/D, 441.9 Acres
- D, 7.2 Acres

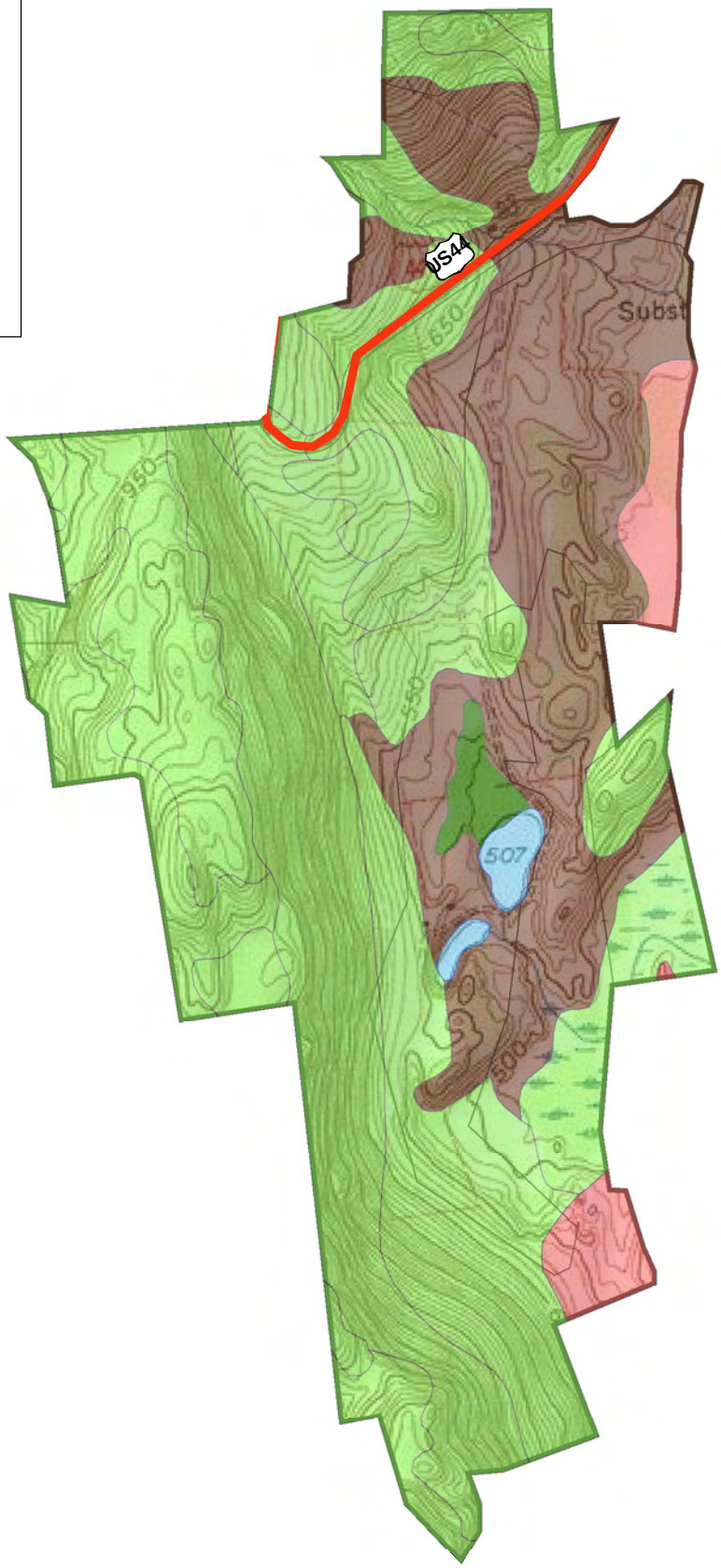

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FIGURE 2 - HYDROLOGIC SOIL GROUPS

Silo Ridge

Town of Amenia, Dutchess County, New York

USGS Topographic Map of the Amenia, New York Quadrangle
Dated 1984. Photo Revised 1989. 7.5 Minute Series

Date:
April 2006

Scale:
1 in equals 1,250 ft

Project #:
10454.01

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Feet
0 200 400 800 1,200 1,600

Figure 3
Map showing Production and
Observed Wells, Staff Gauges, Weirs, and Test Discharge Locations

Silo Ridge

Town of Amenia, Dutchess County, New York

Source: 2004 Orthophotos

Drawn:	TRO
Date:	4/12/06
Scale:	1:600
Project:	10454.00
Figure:	3

Legend

- Project Boundary
- Production Wells, drawdown in feet
- Observed Wells, Weirs, and Staff Gauges, drawdown in feet
- Approximate drawdown contours

Well 9
103 ft
Well 10
15 ft
50 ft.
150 ft.
Well 11
443 ft
Well A6D
3.3 ft
10 ft.
Well 12
0 ft
Well 13
0 ft
Weir #2
SG-2
0 ft
SG-3
0 ft
SG-5
0 ft
Weir #1
0 ft.
SG-4
0 ft
SG-6
0 ft
Well 4
90 ft.
SG-7
0 ft.
Well 2
144 ft.
50 ft.
10 ft.
Well 1
86 ft.
50 ft.
10 ft.
Well 15
0 ft.
Well 3
0 ft
Segalla Rental
0 ft.
Well 5
135 ft.
SG-8
0 ft
Well 6
11 ft.
50 ft.
10 ft.
SG-1
0 ft
Well 8
0 ft
Well 7
0 ft.
Well 14
0 ft.

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Feet
0 195 390 780 1,170 1,560

Figure 4
Drawdown After 72 hour Pumping Test

Silo Ridge

Town of Amenia, Dutchess County, New York

Source: 2004 Orthophotos

Drawn:	TRO
Date:	4/12/06
Scale:	1:600
Project:	10454.00
Figure:	4

Figure 5 - PW-1 pumping test response during the 2006 pumping test

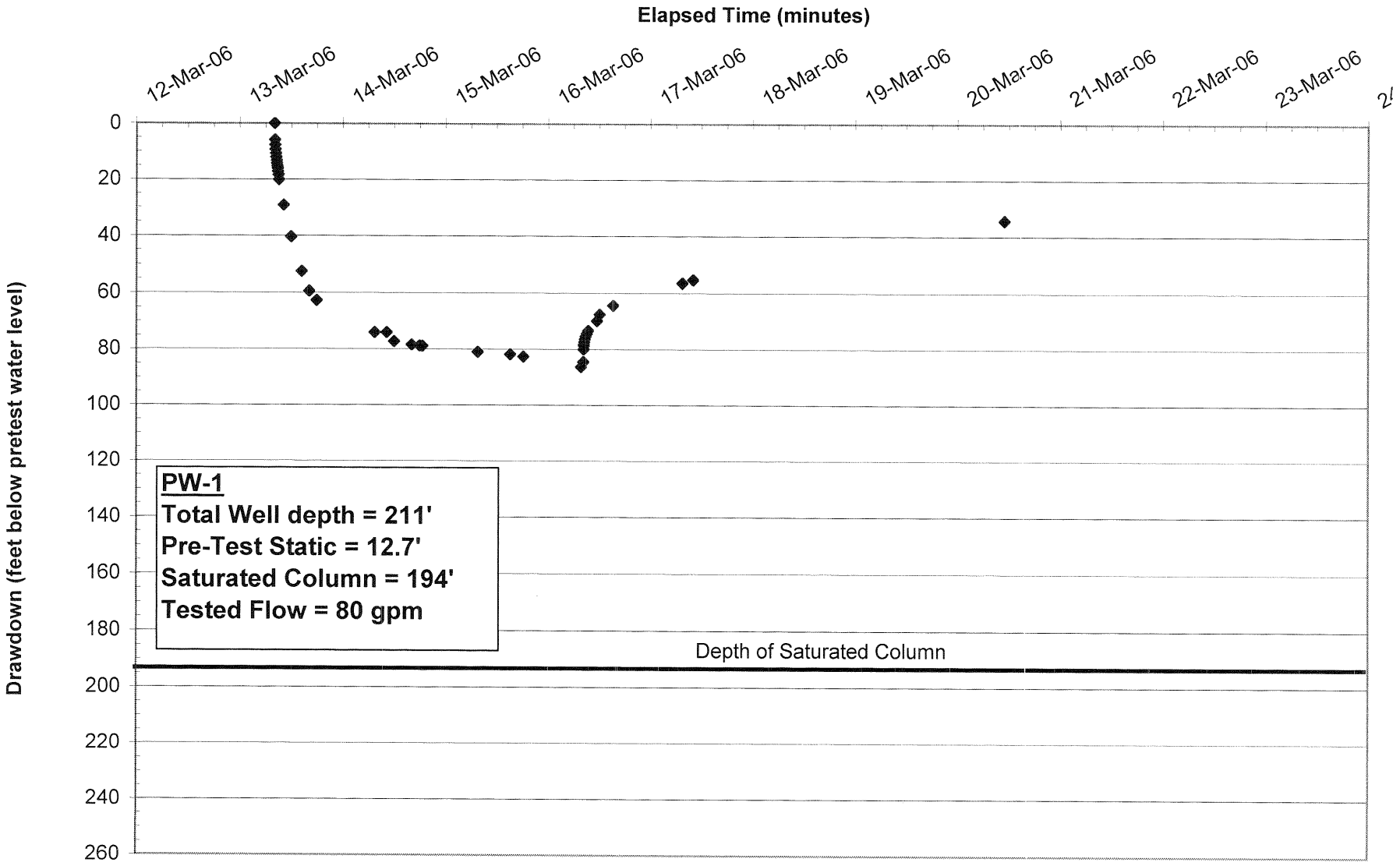

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Figure 6 - PW-1 30, 60, 90 and 180 day drought projections during the 2006 pumping test

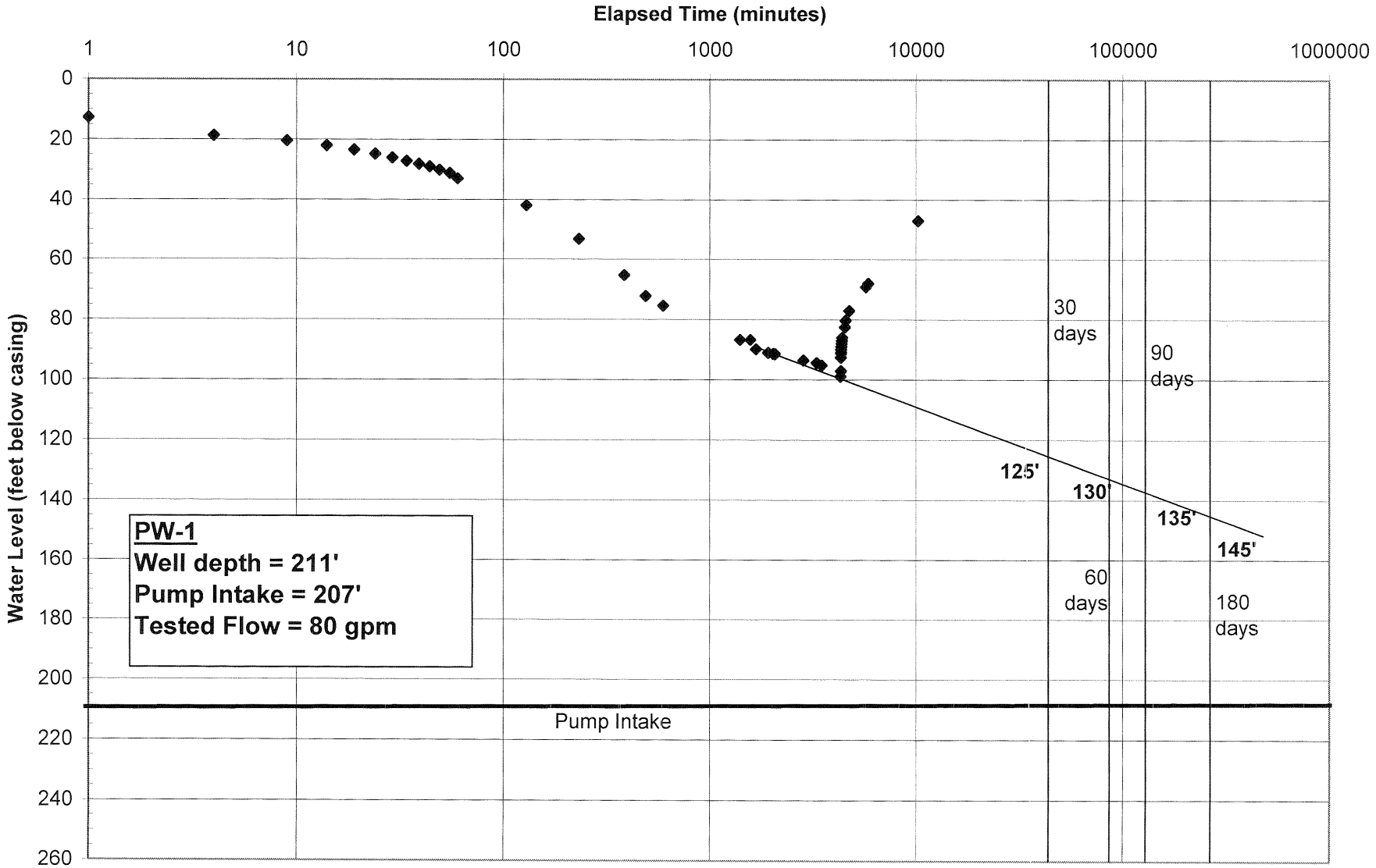

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Figure 7 - PW-2 pumping test response during the 2006 pumping test

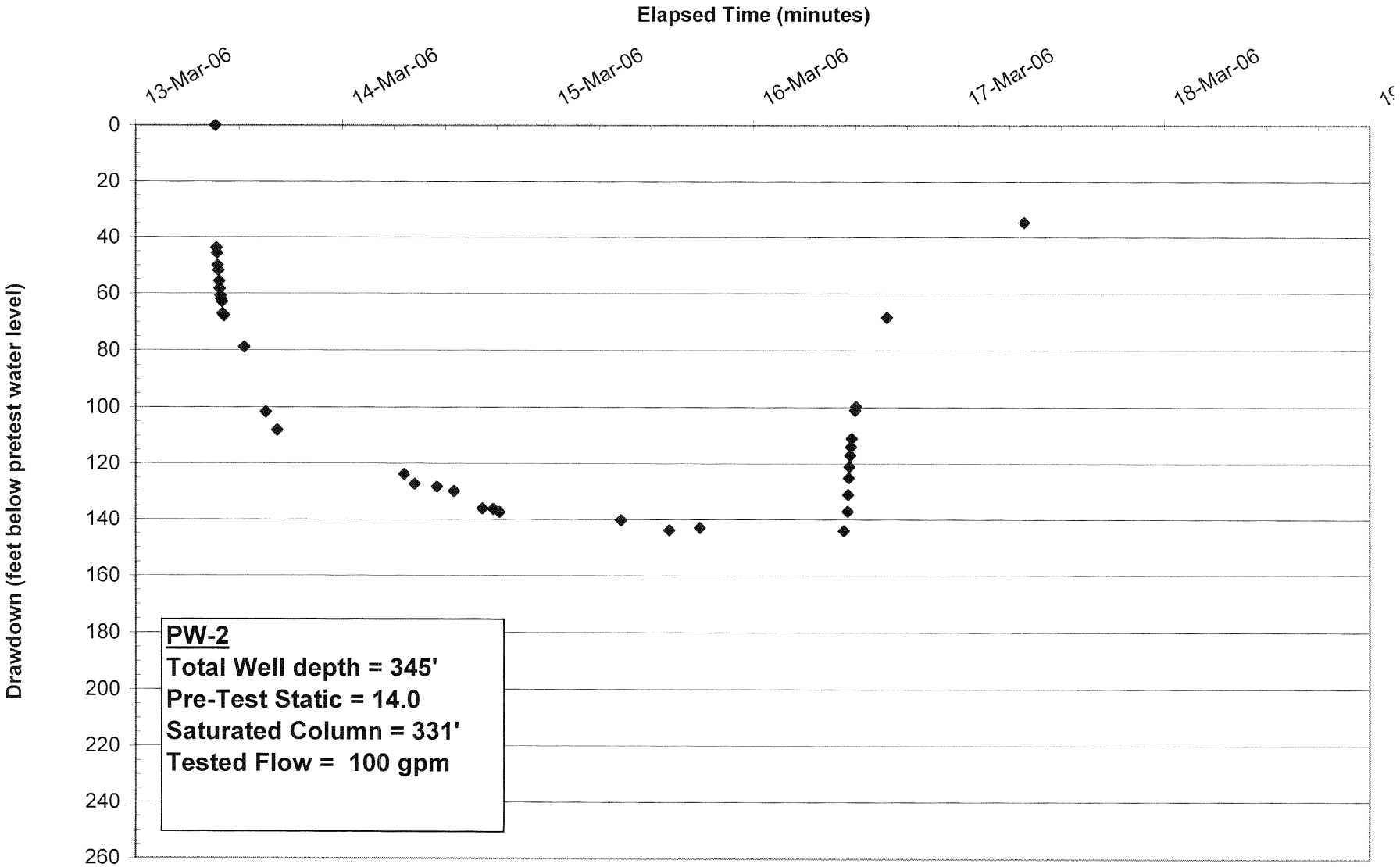

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Figure 8 - PW-2 30, 60, 90 and 180 day drought projections during the 2006 pumping test

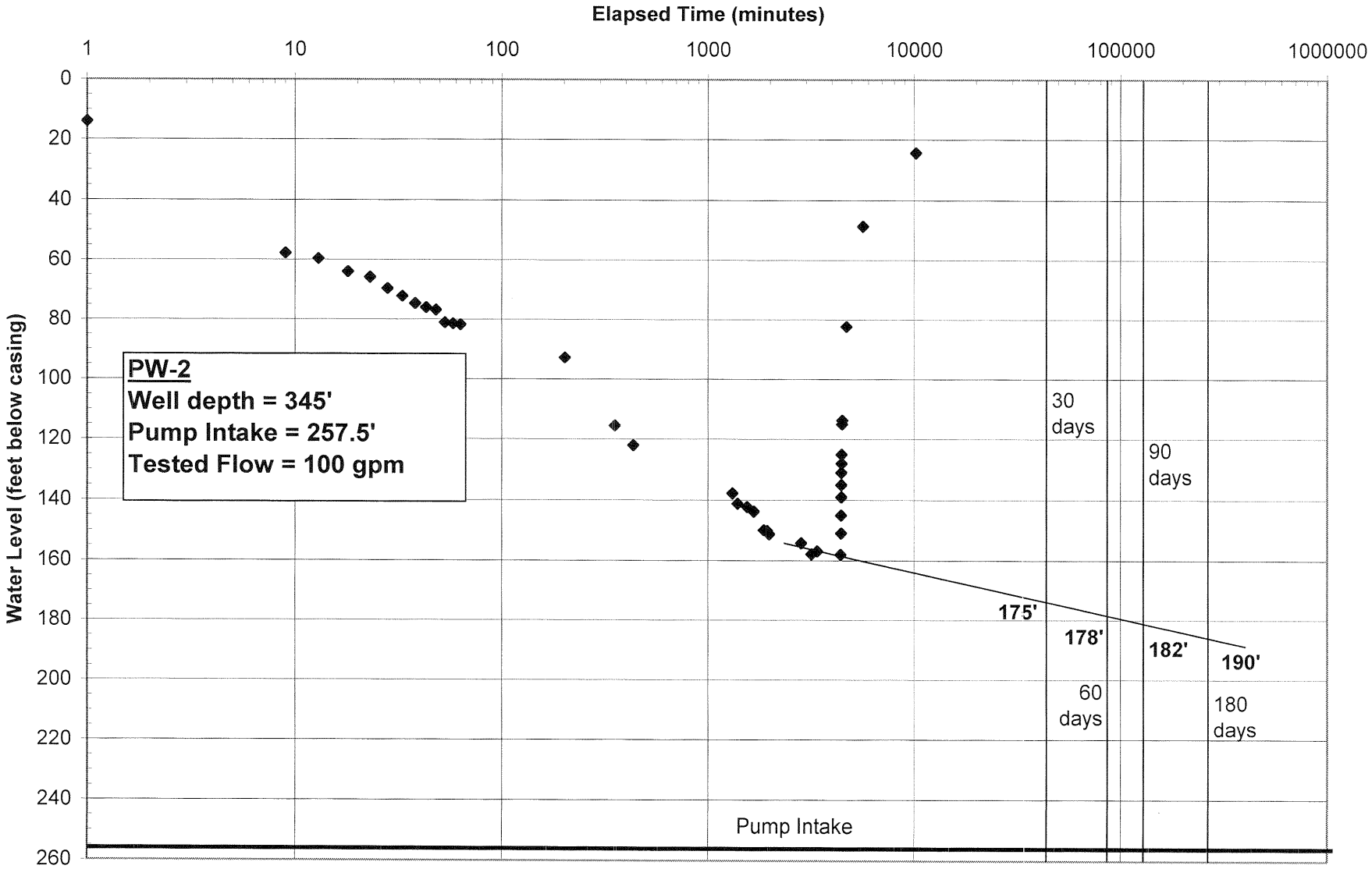

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Figure 9 - PW-4 pumping test response during the 2006 pumping test

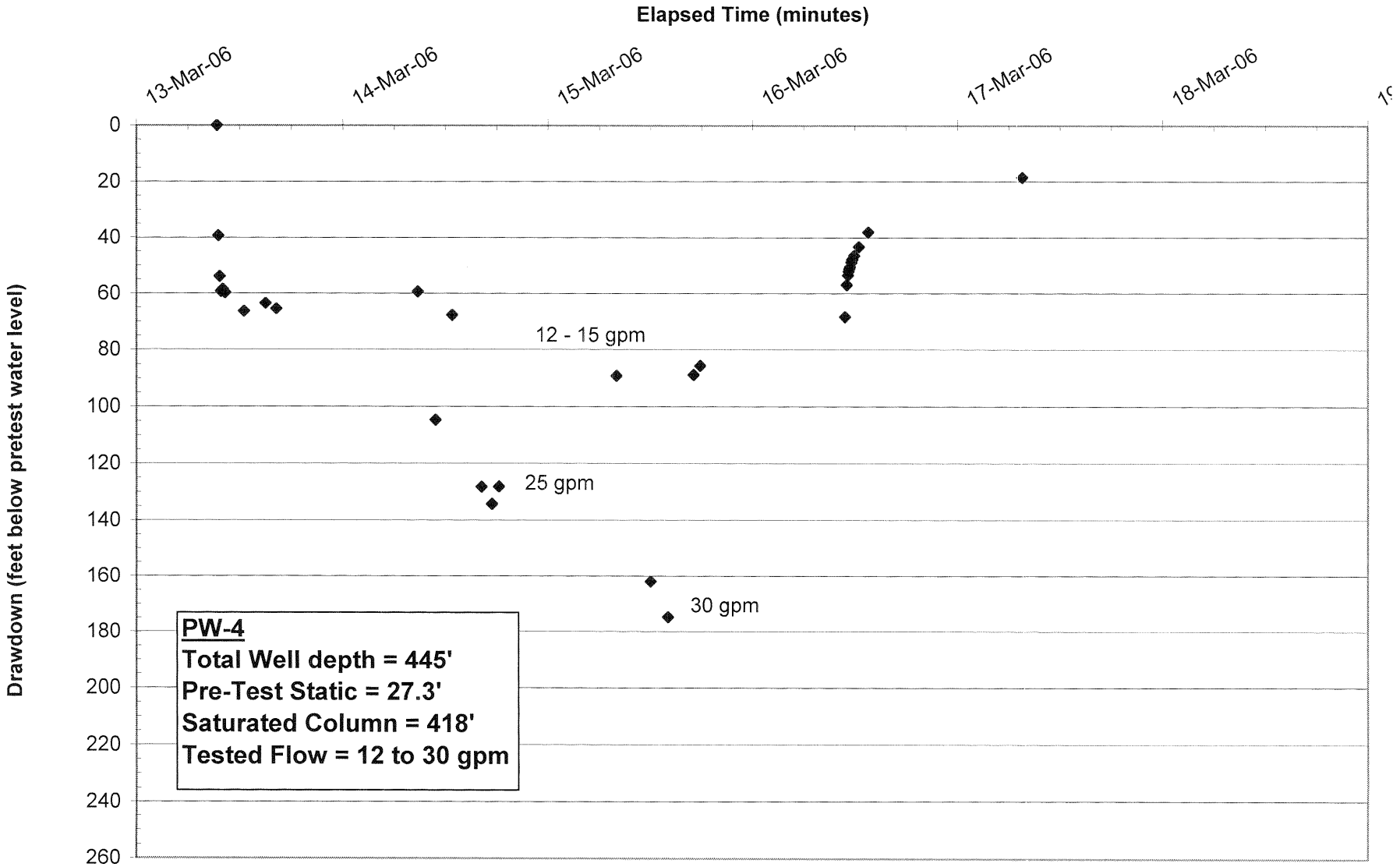

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Figure 10 - PW-4 30, 60, 90 and 180 day drought projections during the 2006 pumping test

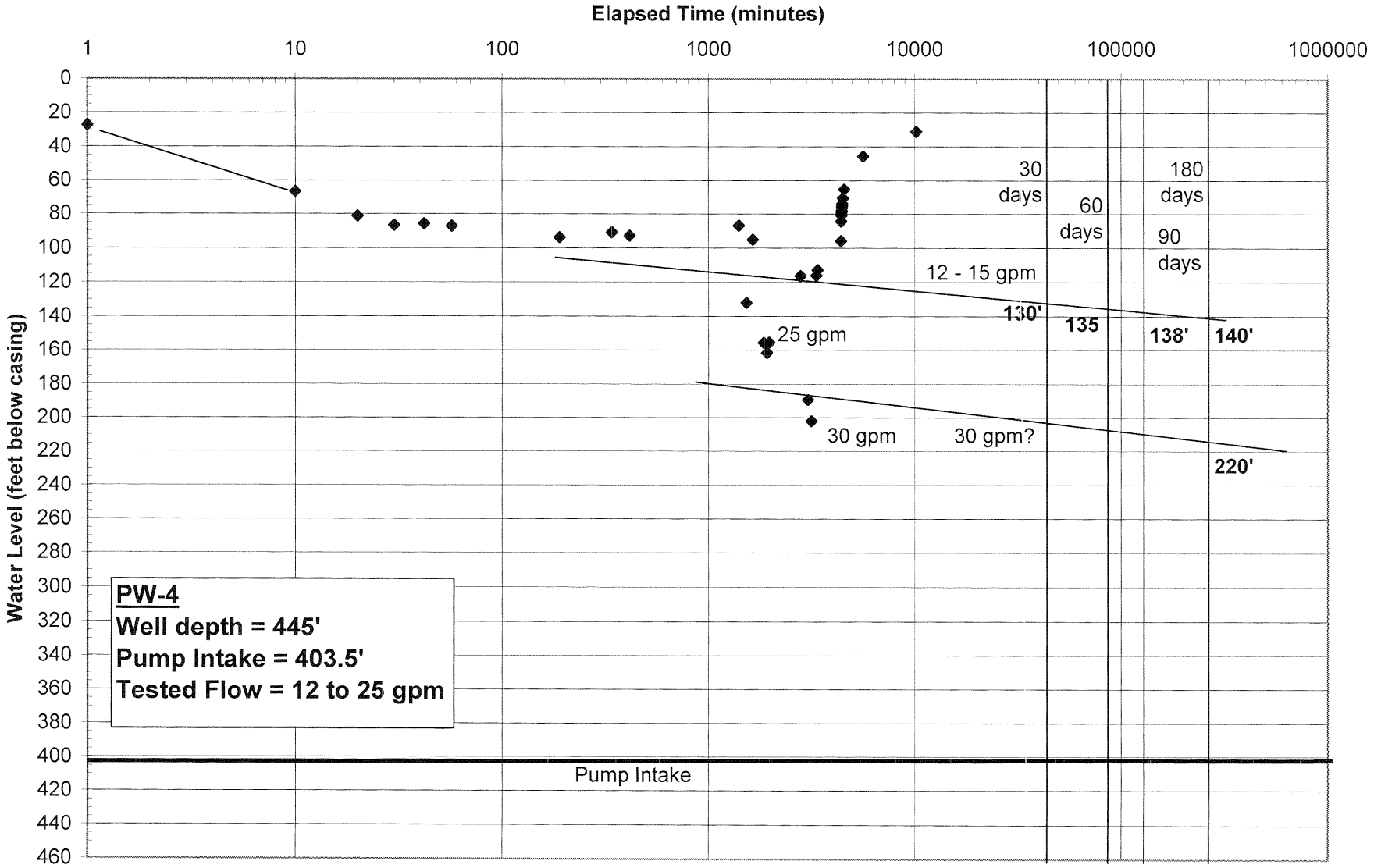

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Figure 11 -PW-5 pumping test response during the 2006 pumping test

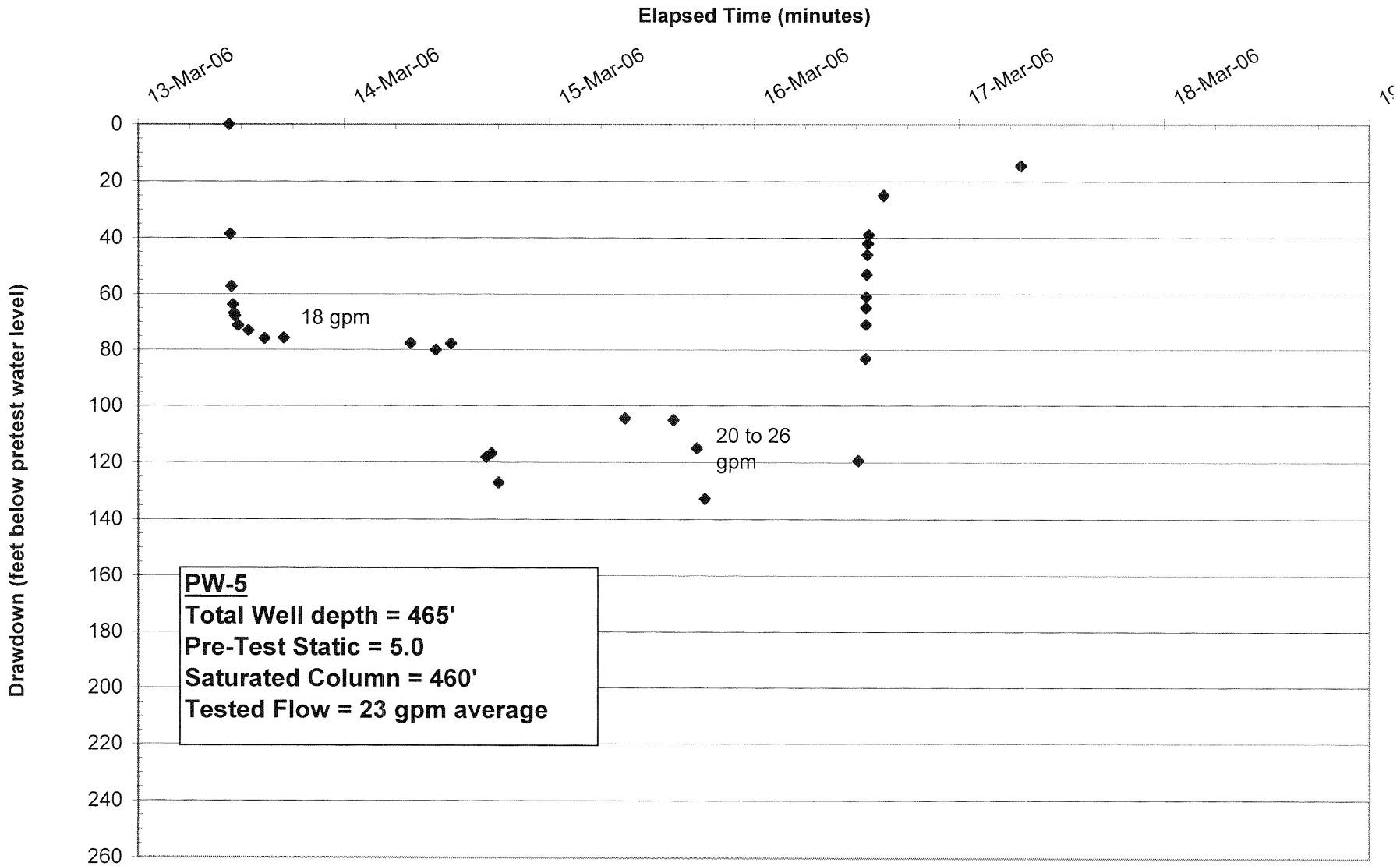

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Figure 12 -PW-5 30, 60, 90 and 180 day drought projections during the 2006 pumping test

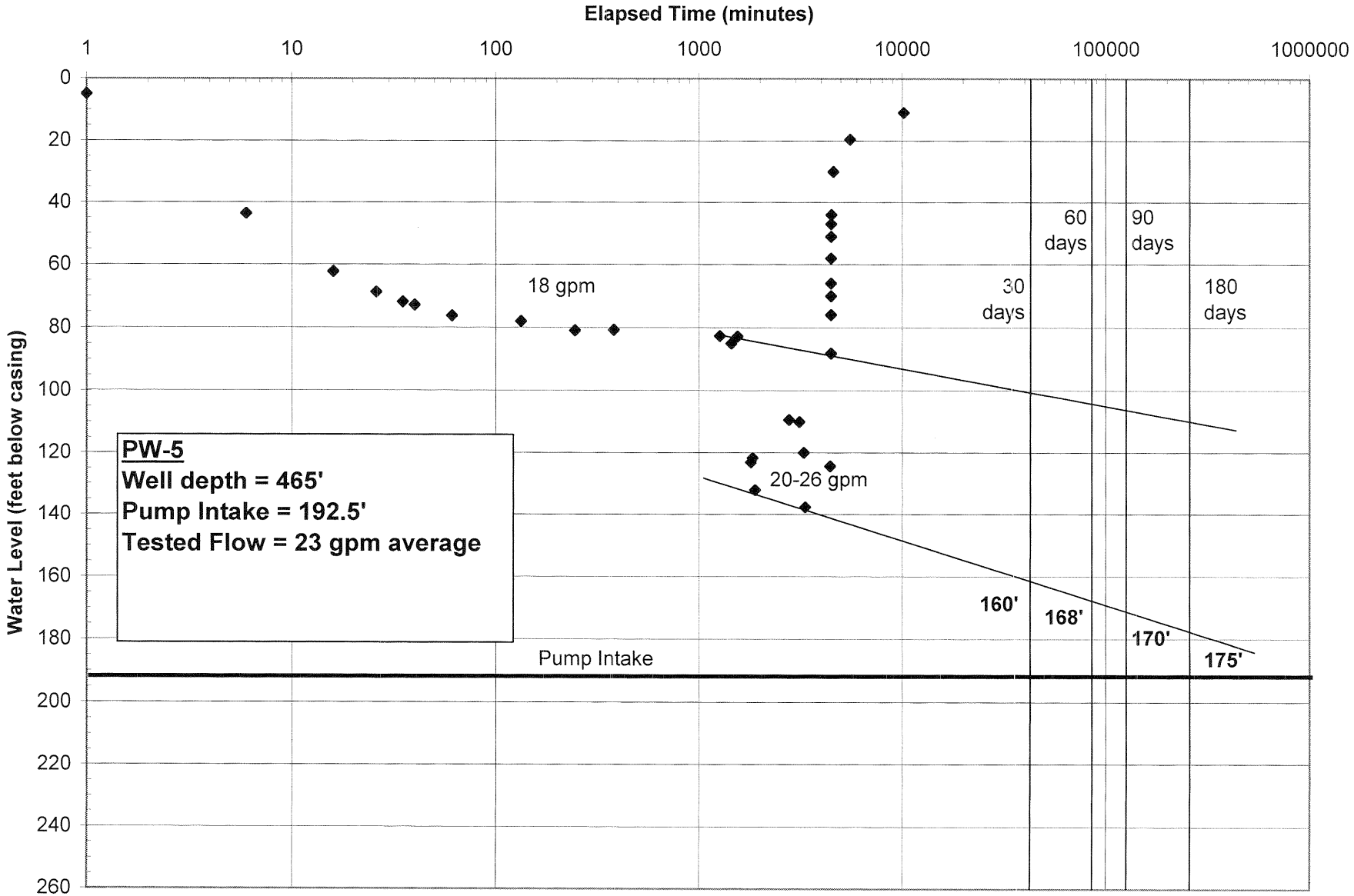

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Figure 13 - PW-9 pumping test response during the 2006 pumping test

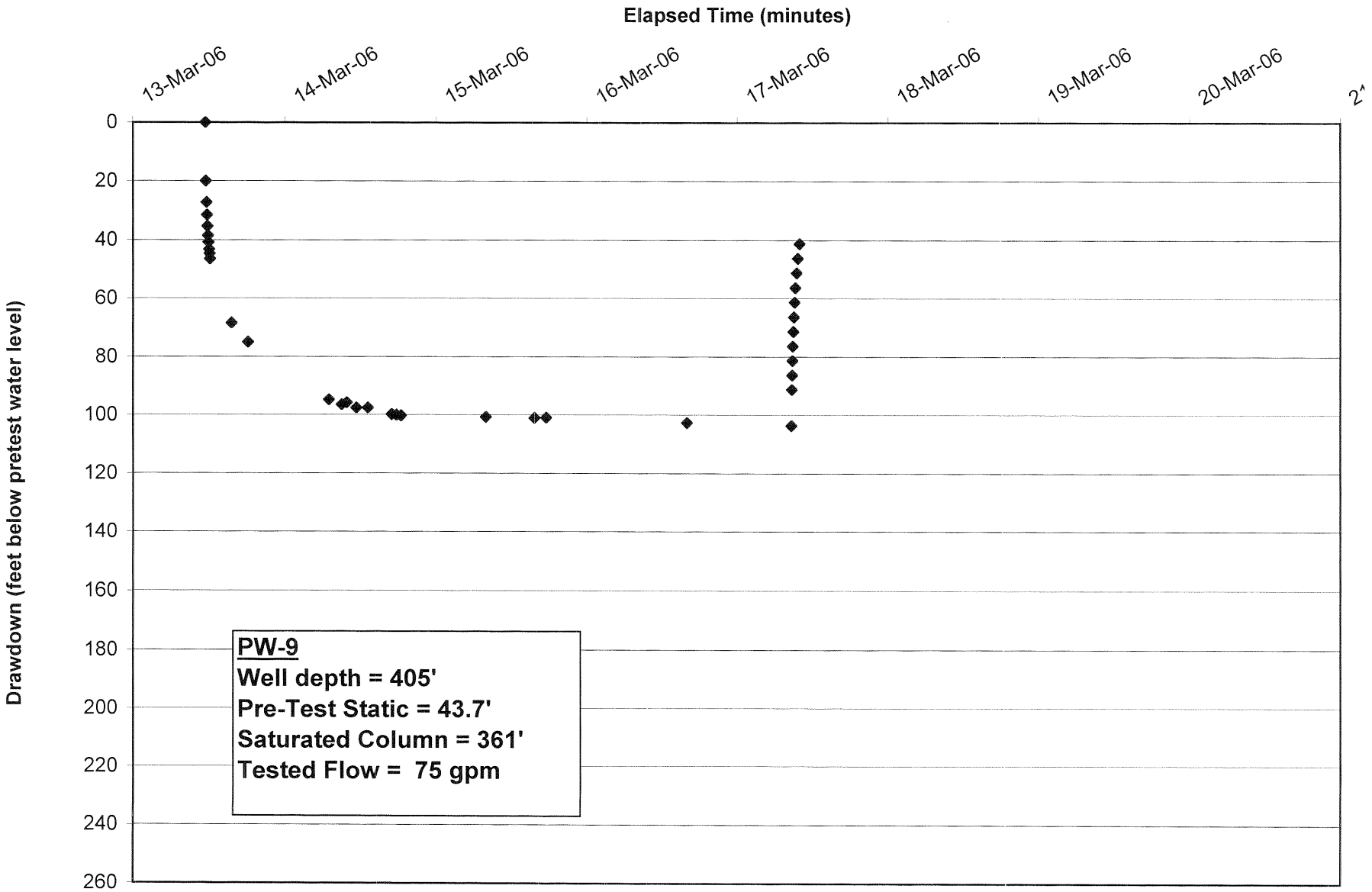

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Figure 14 - PW-9 30, 60, 90 and 180 day drought projection during the 2006 pumping test

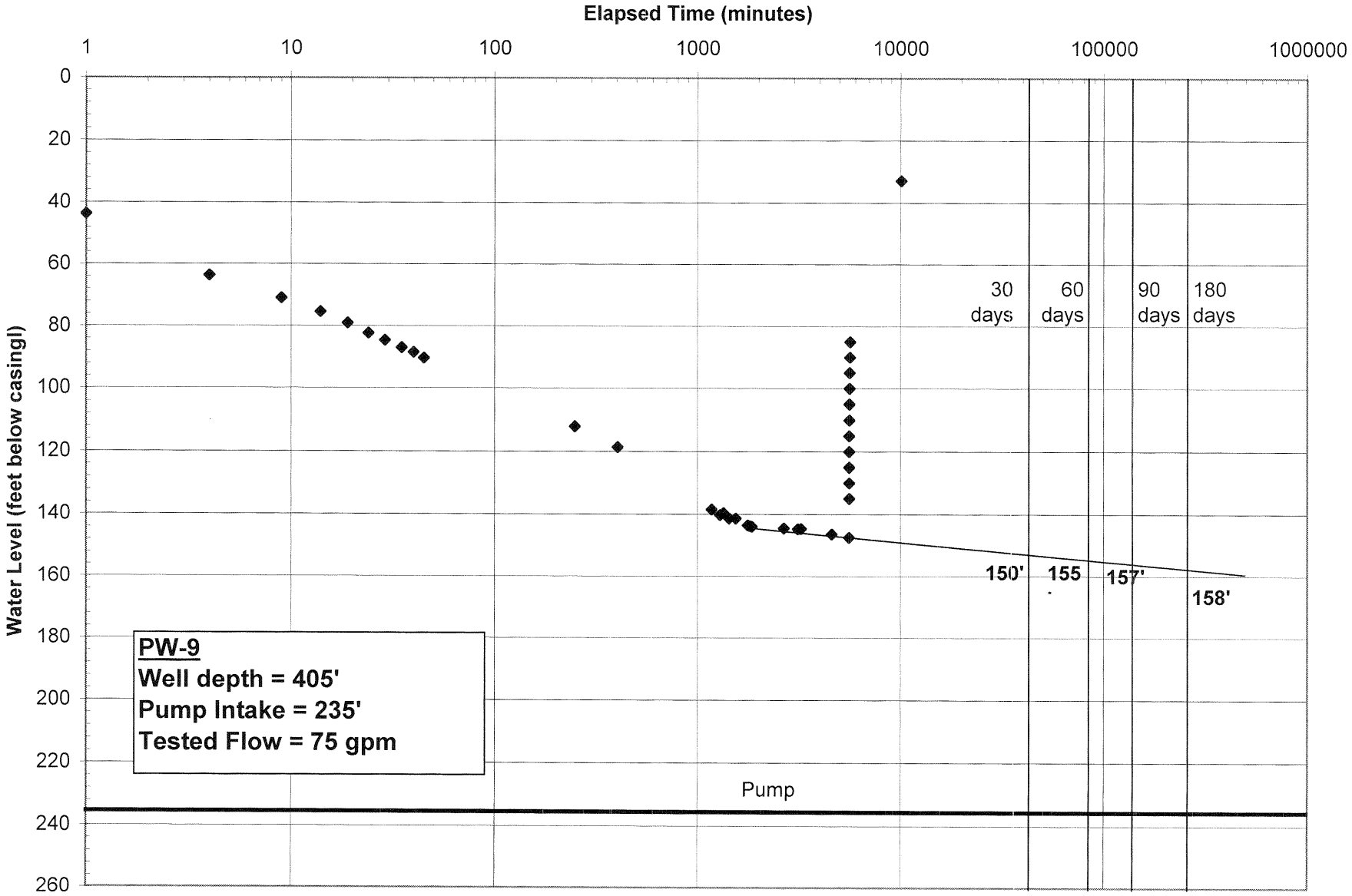

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Figure 15 - PW-11 pumping test response during the 2006 pumping test

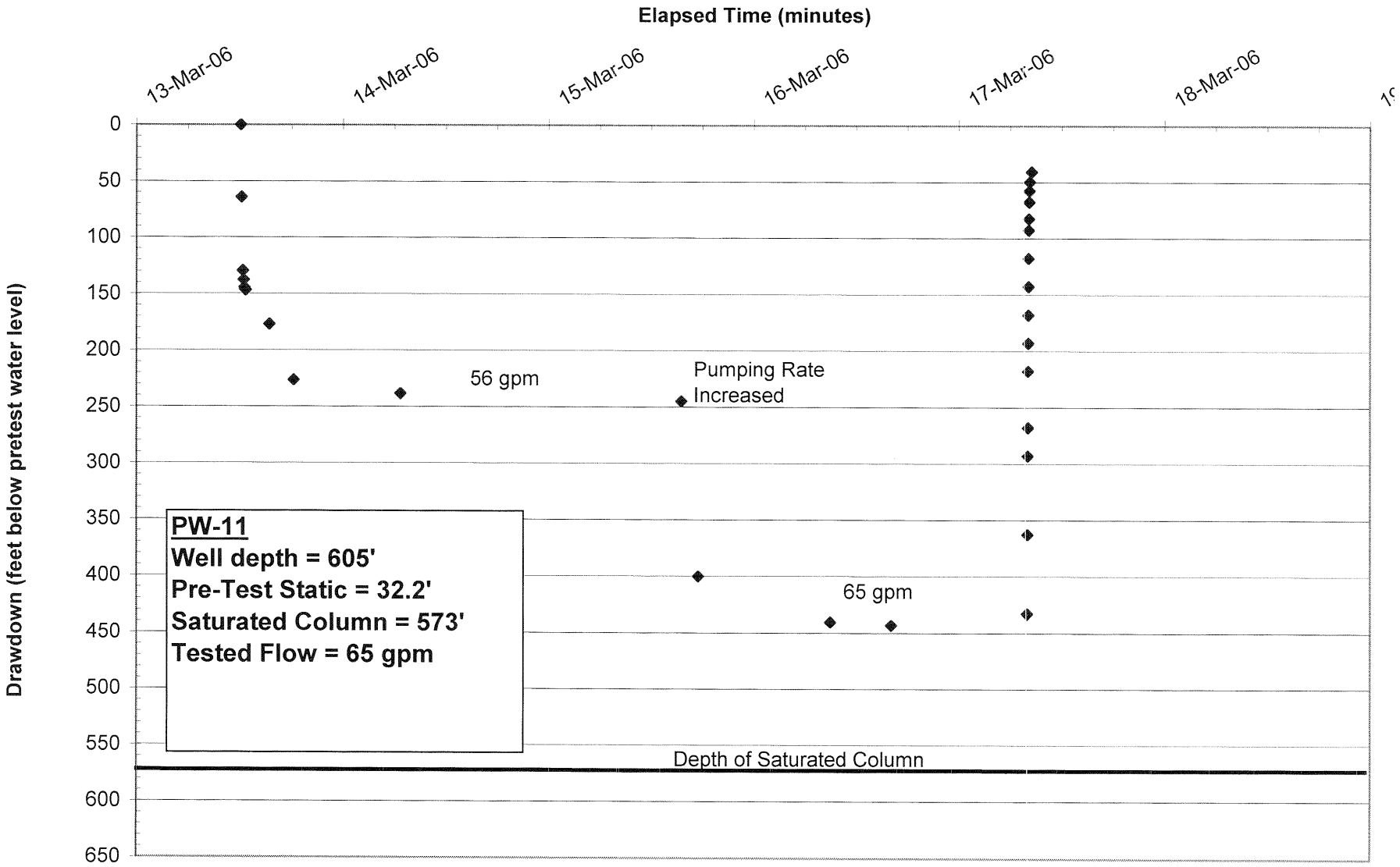

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Figure 16 - PW-11 30, 60, 90 and 180 day drought projections during the 2006 pumping test

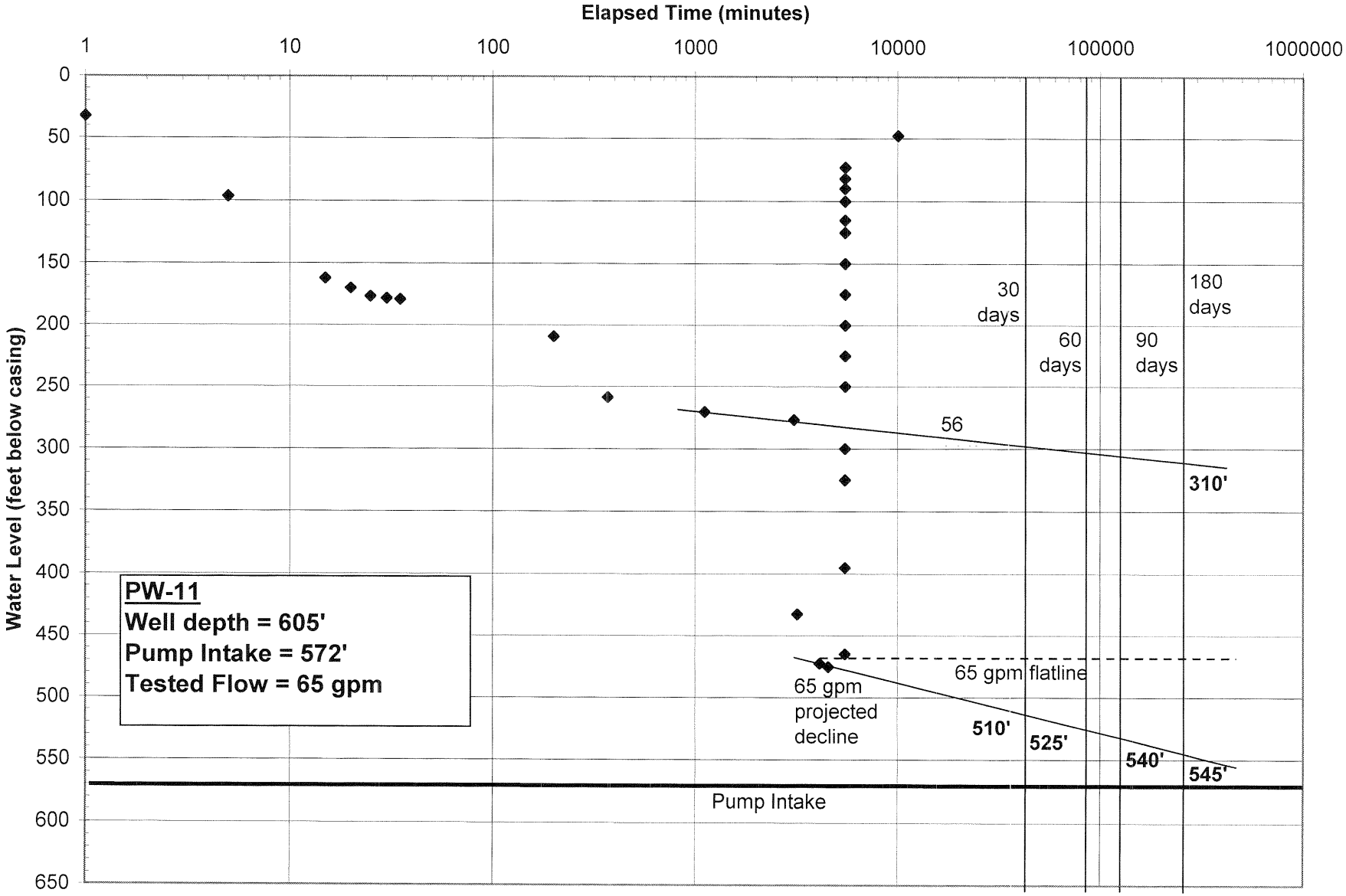

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Figure 17 - Water level record for Well 3 during the 2006 pumping test

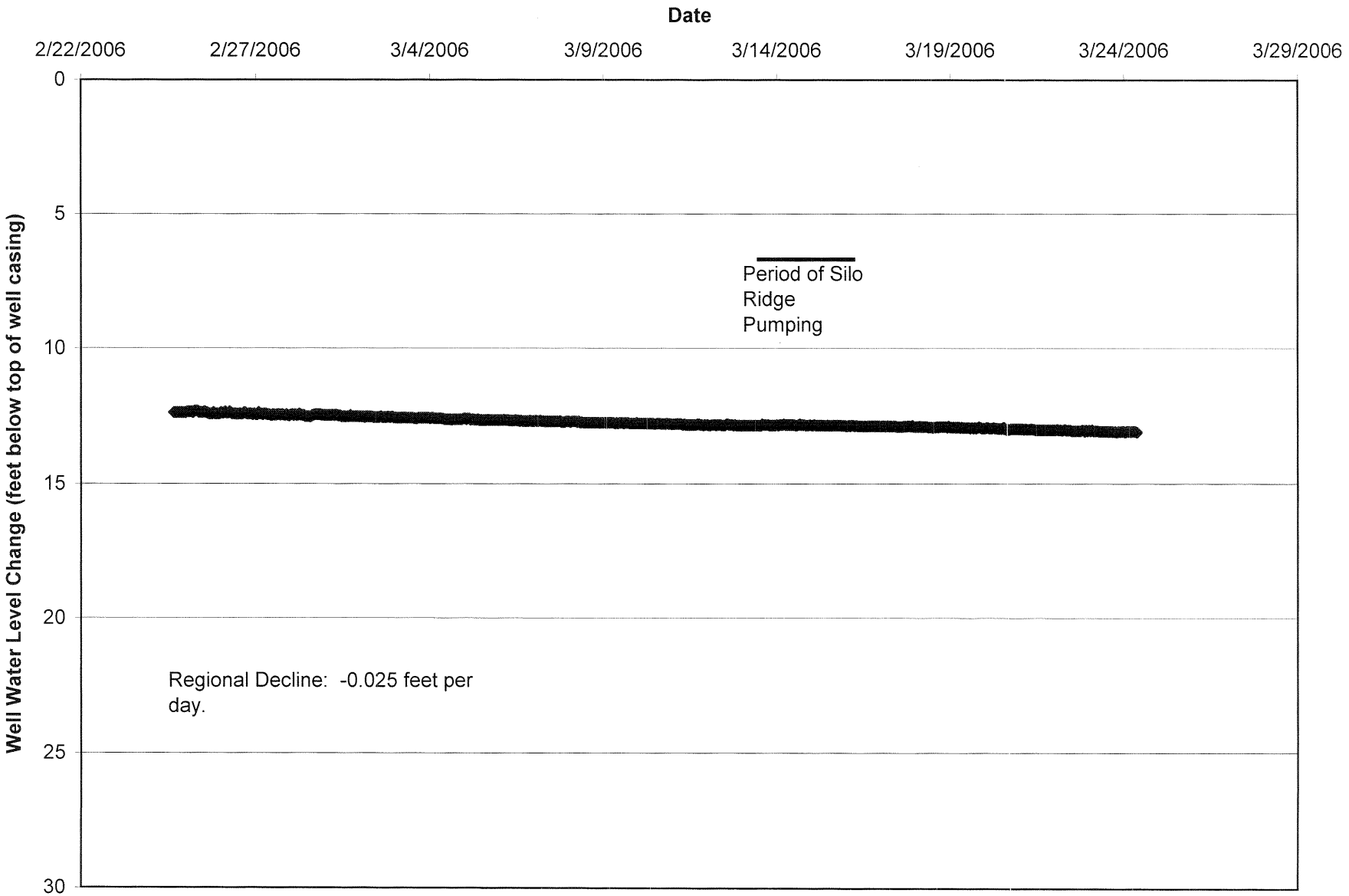

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Figure 18 - Water level record for Well 6 during the 2006 pumping test

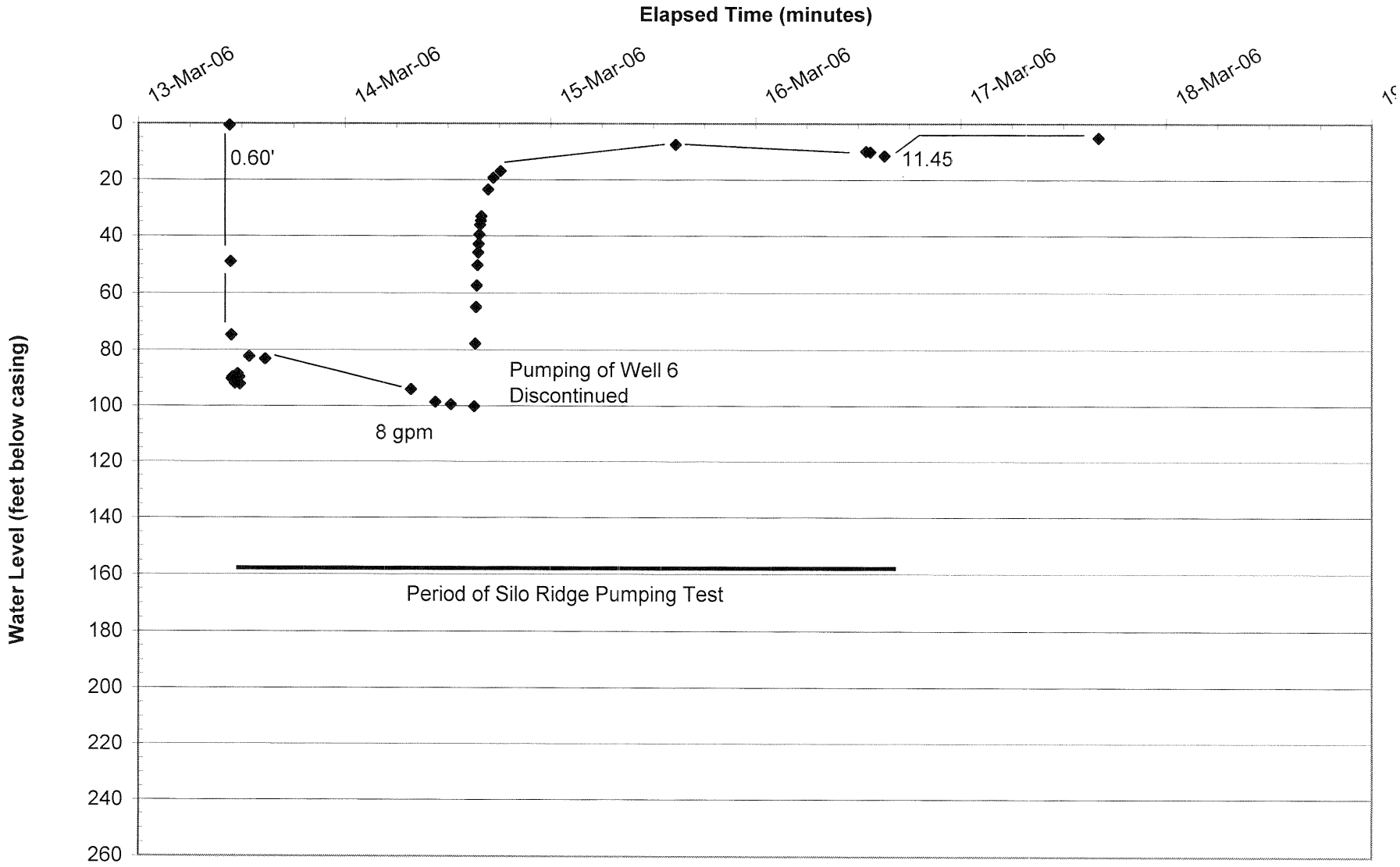

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Figure 19: Water level record for Well 7 during the 2006 pumping test

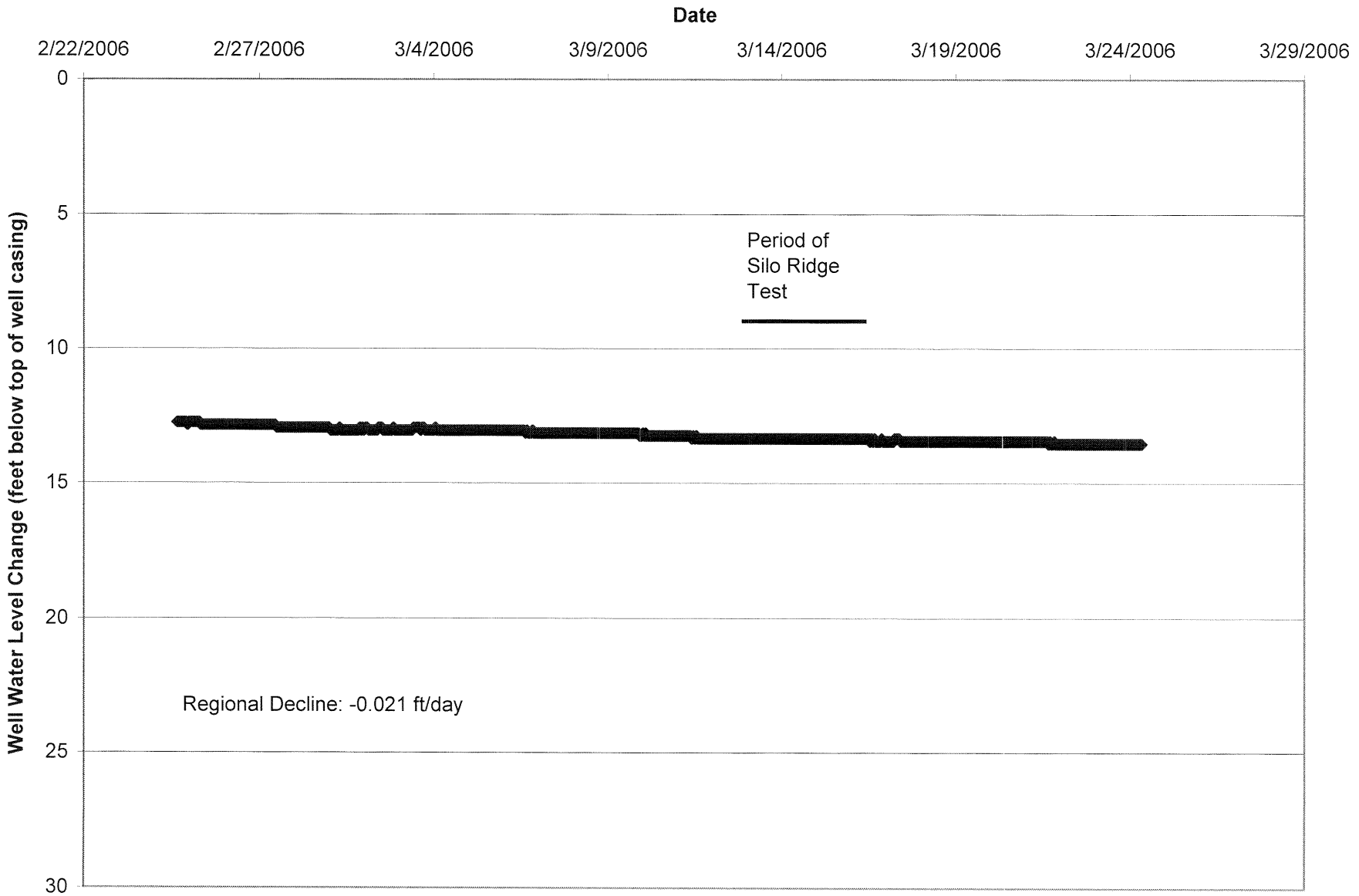

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Figure 20 - Water level record for Well 8 during the 2006 pumping test

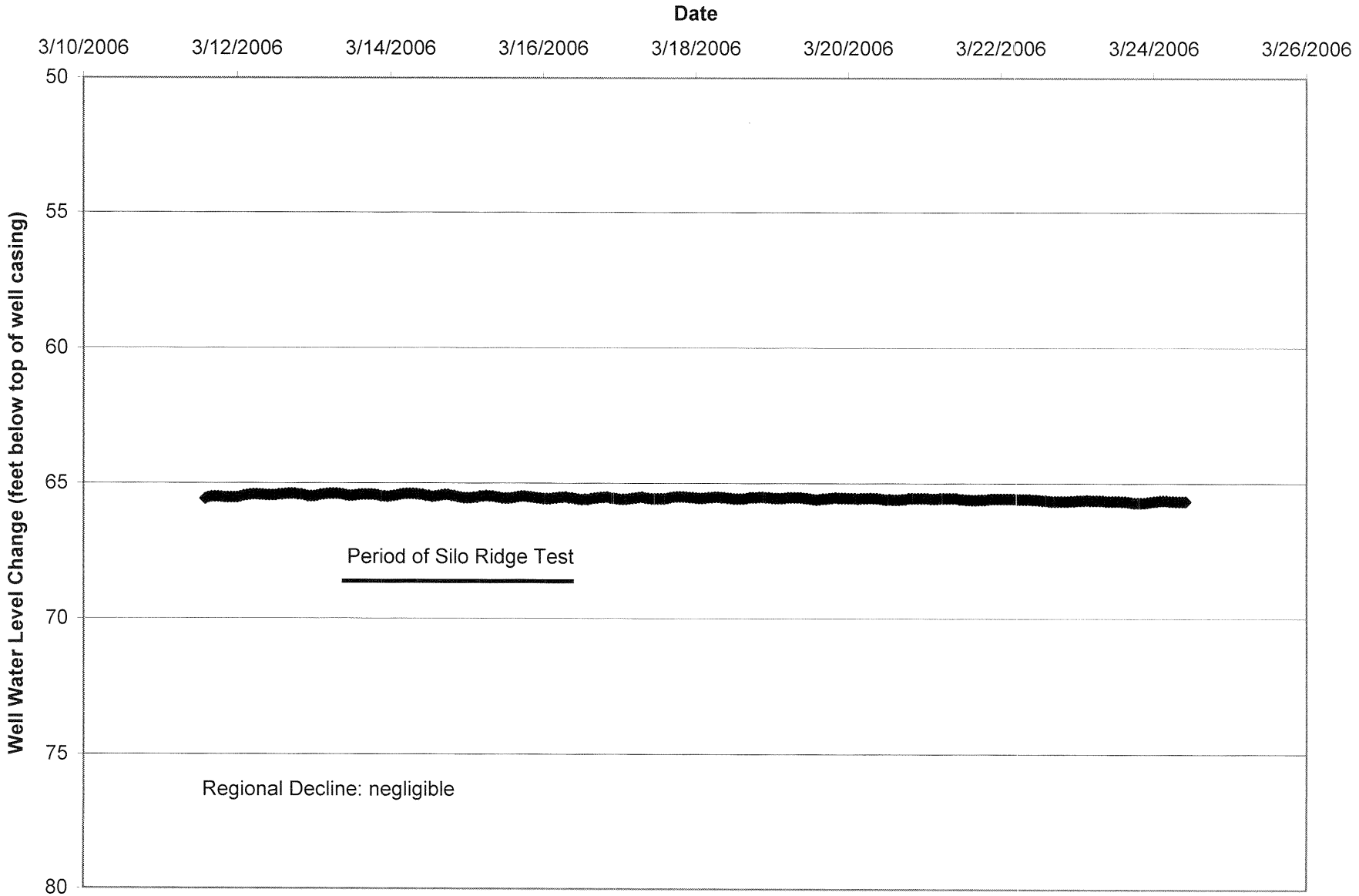

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Figure 21 - Water level record for Well 10 during the 2006 pumping test

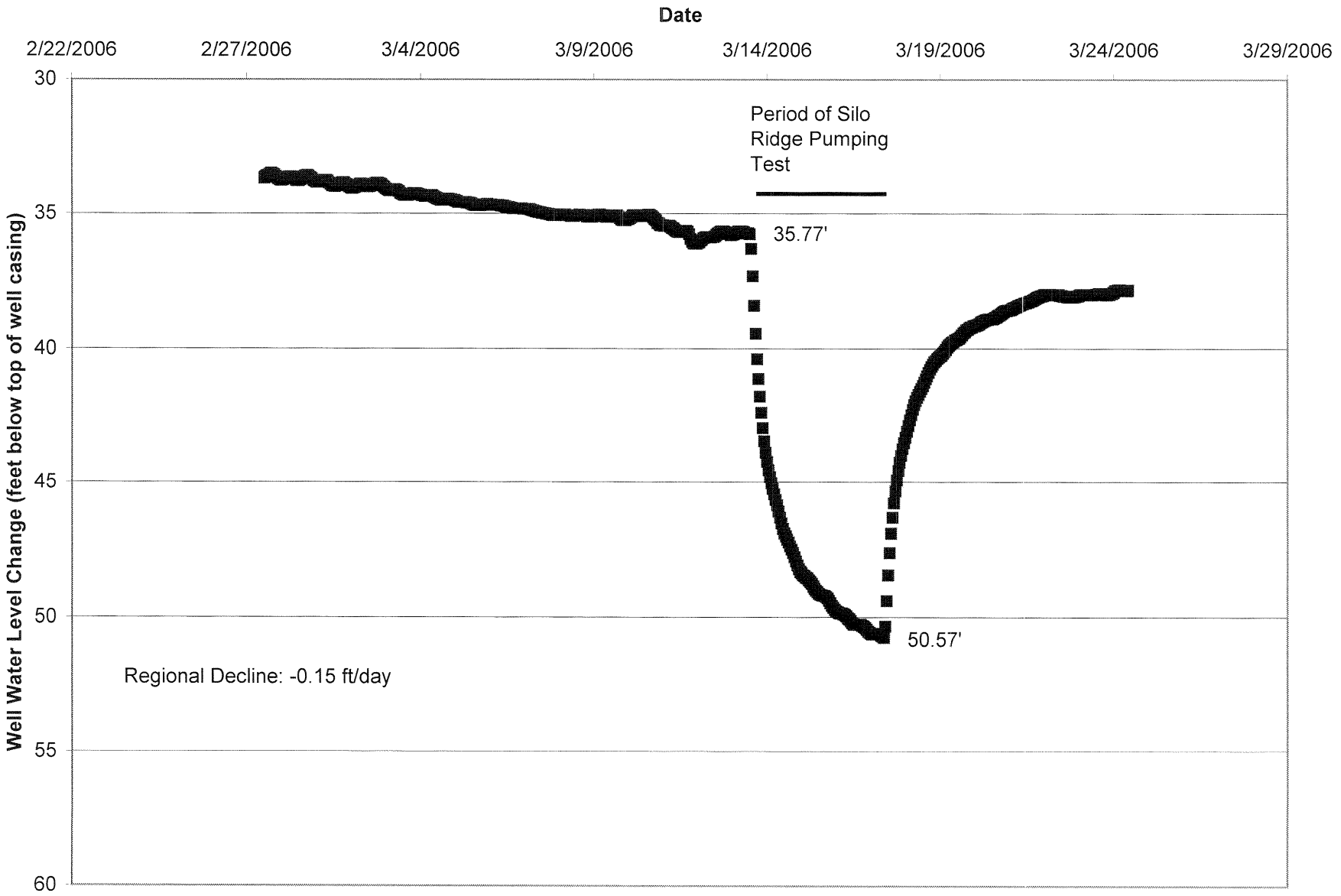

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Figure 22: Water level record for Well 12 during the 2006 pumping test

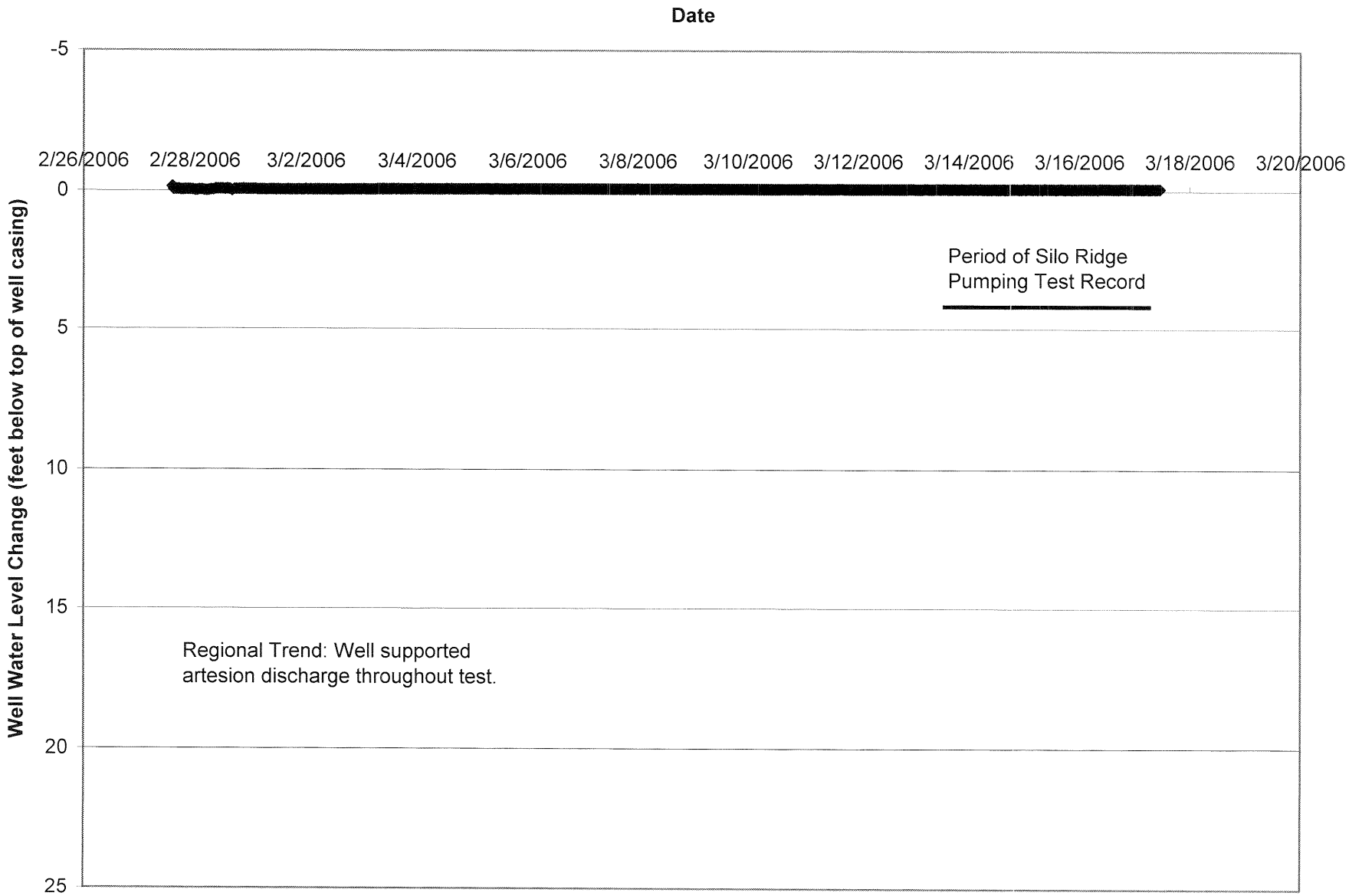

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Figure 23: Well water level record for Well 13 during the 2006 pumping test

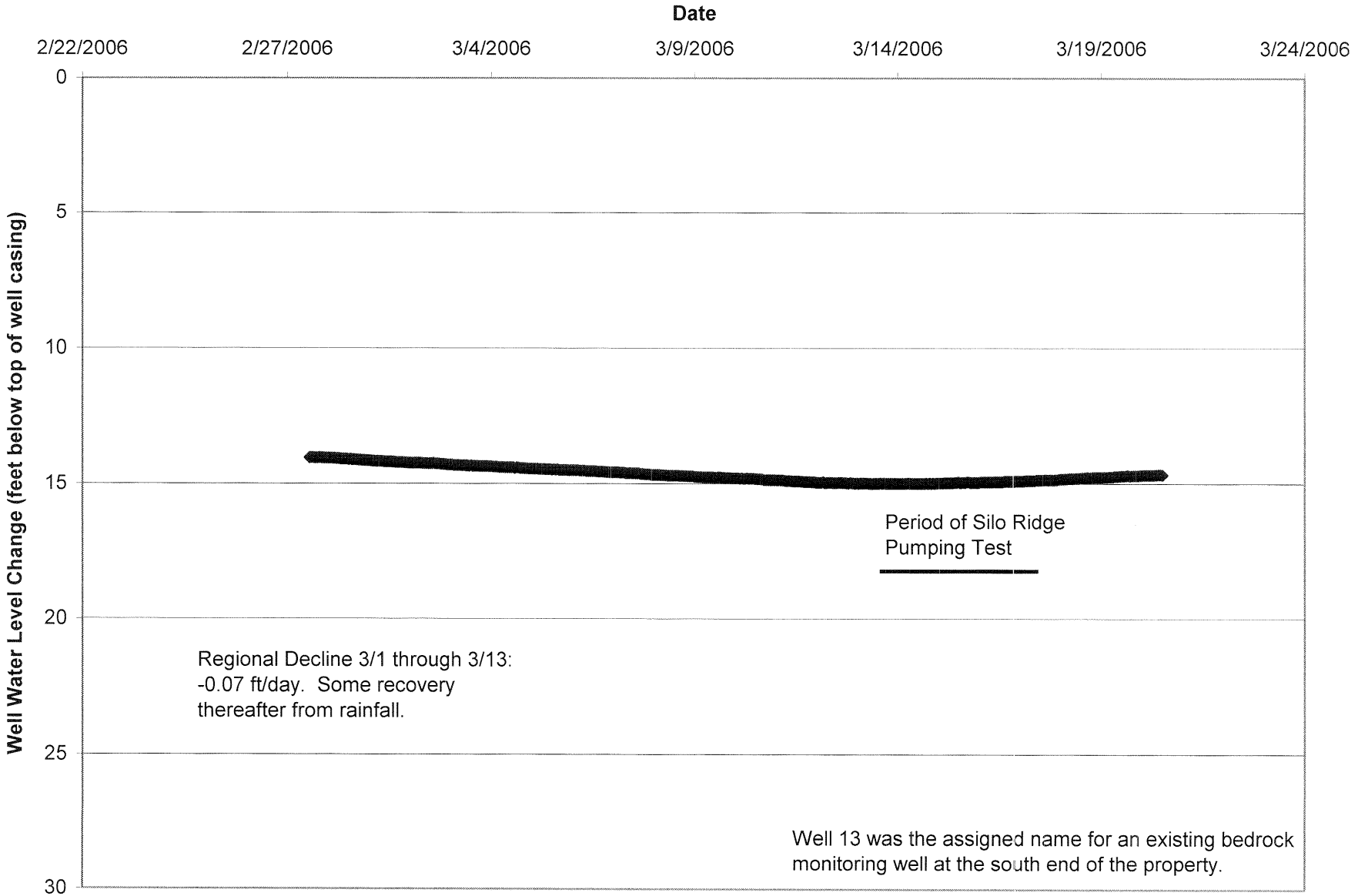

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Figure 24: Water Level Record for Monitoring Well 14 during the 2006 pumping test

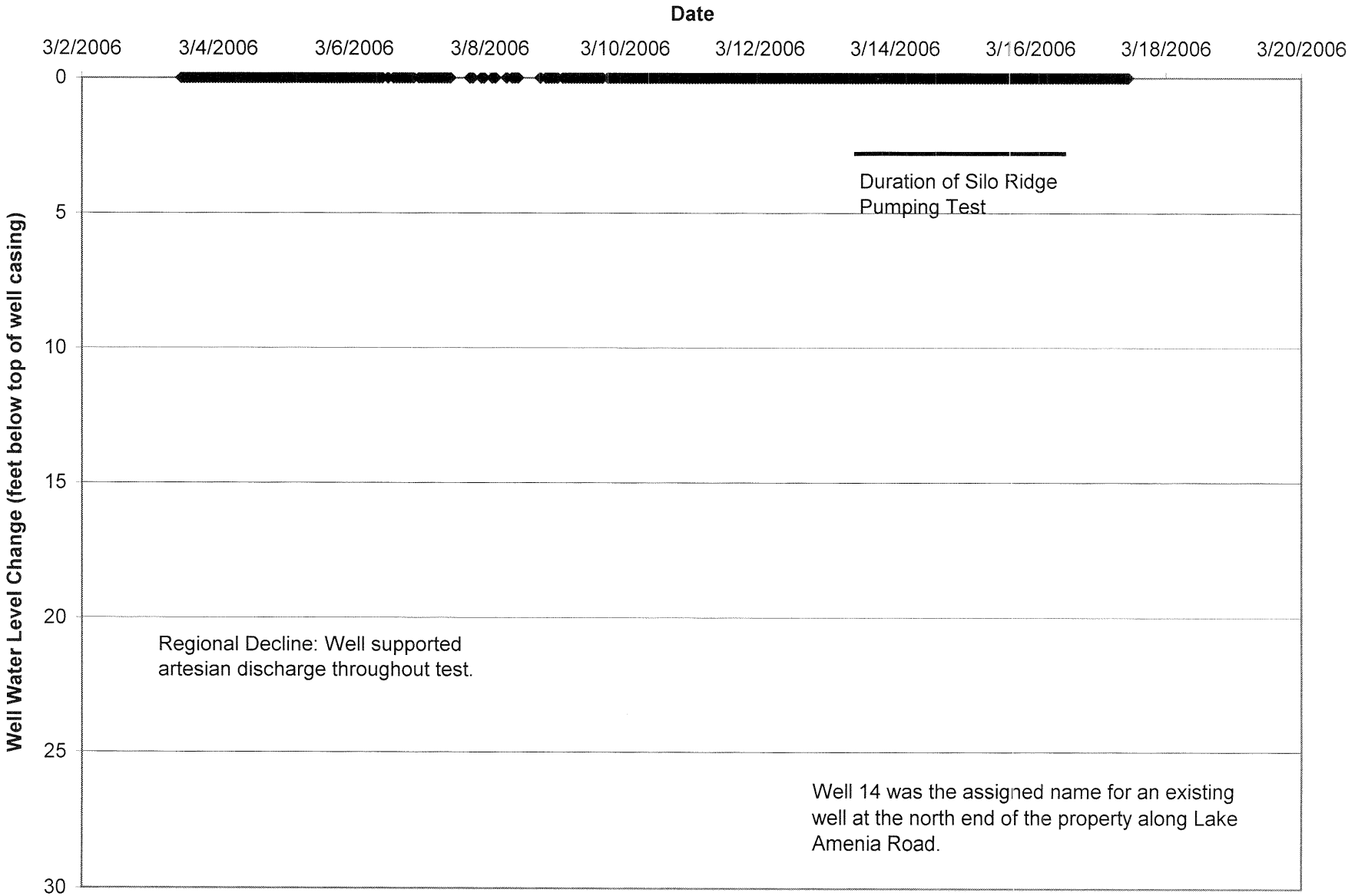

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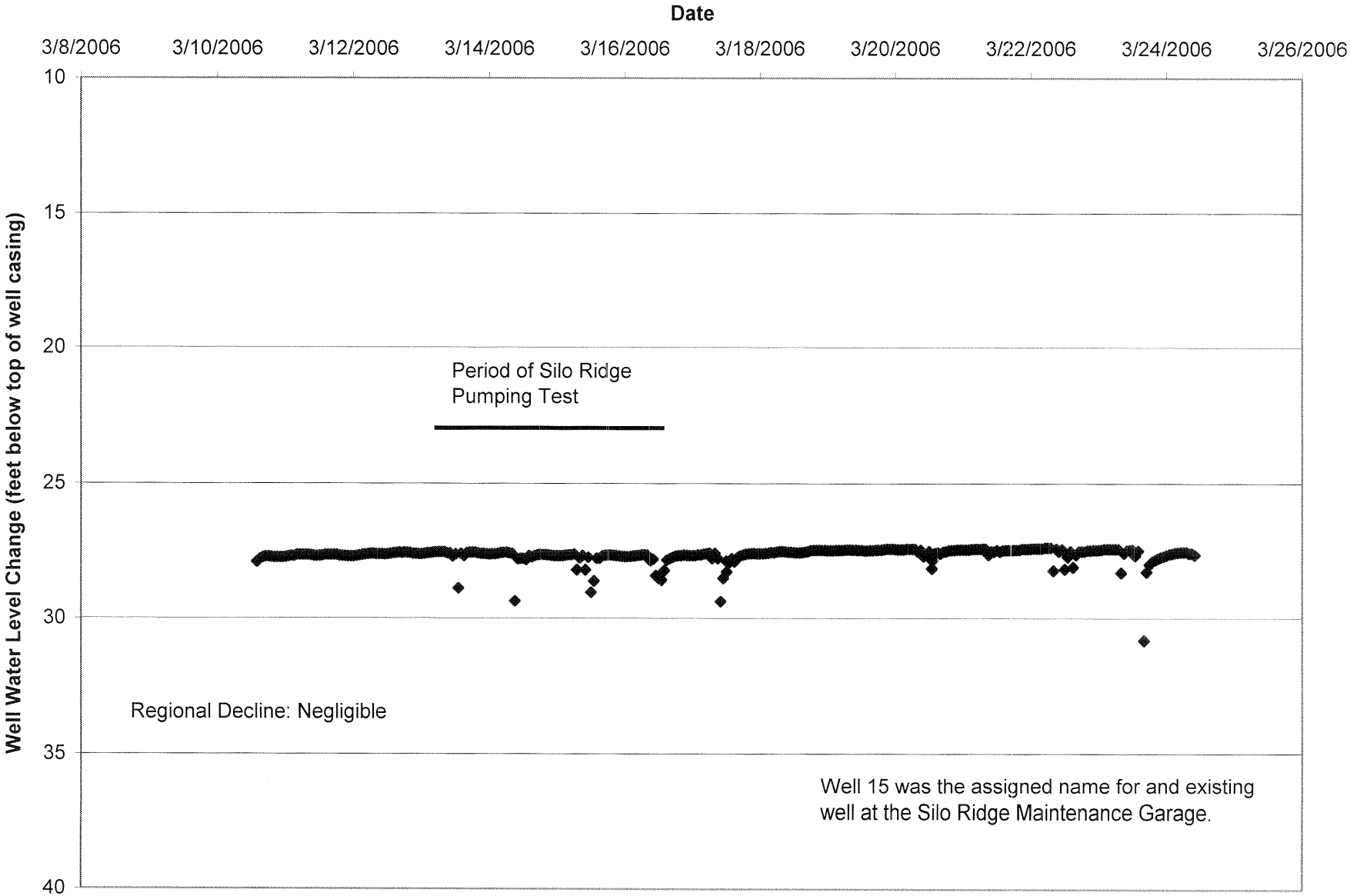
Figure 25: Water level record for Well 15 during the 2006 pumping test



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May 2007

Figure 26: Water level record for Well A6D during the 2006 pumping test

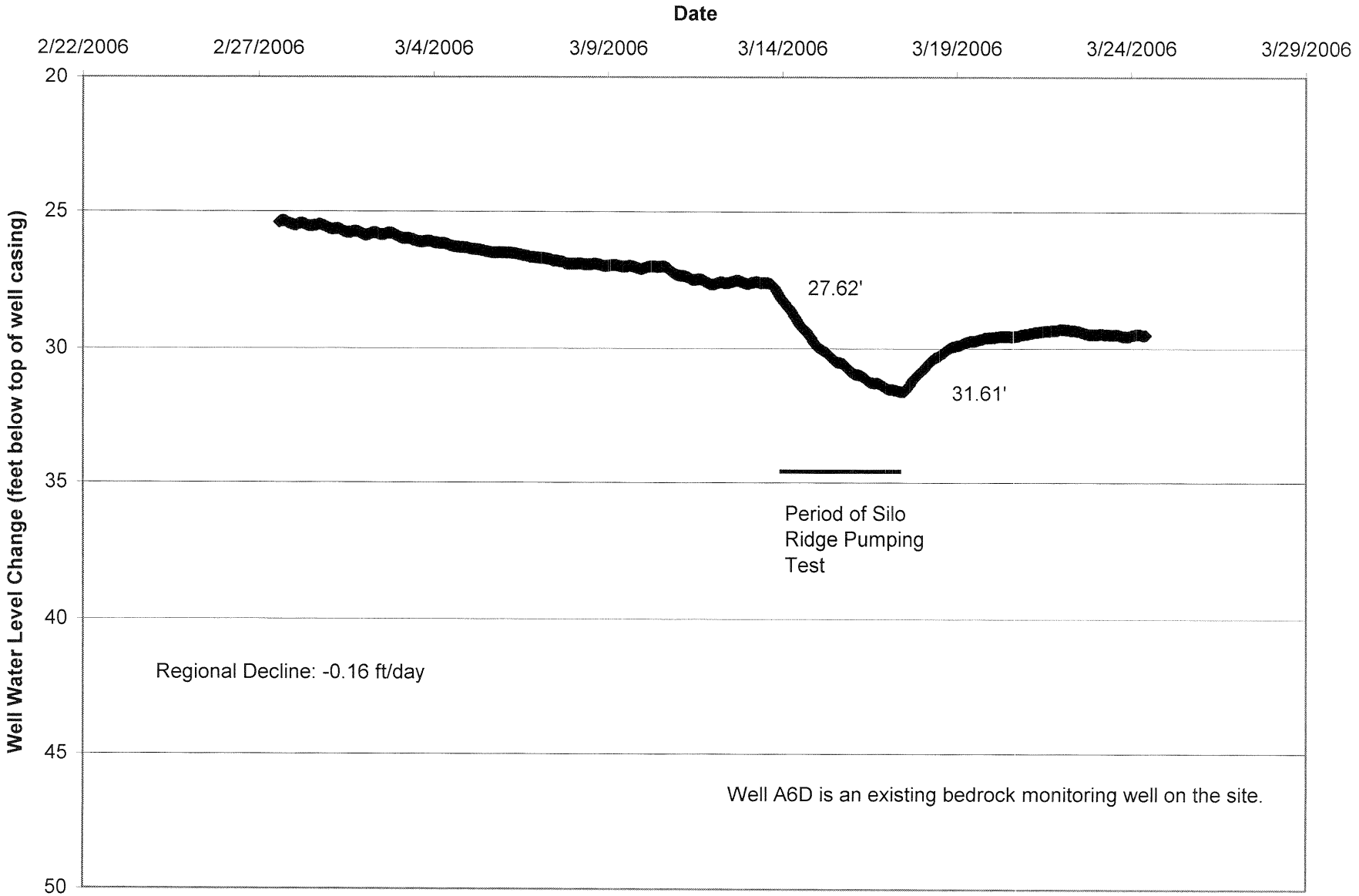

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Figure 27: Water level record for domestic well at off-site Segalla rental during the 2006 pumping test

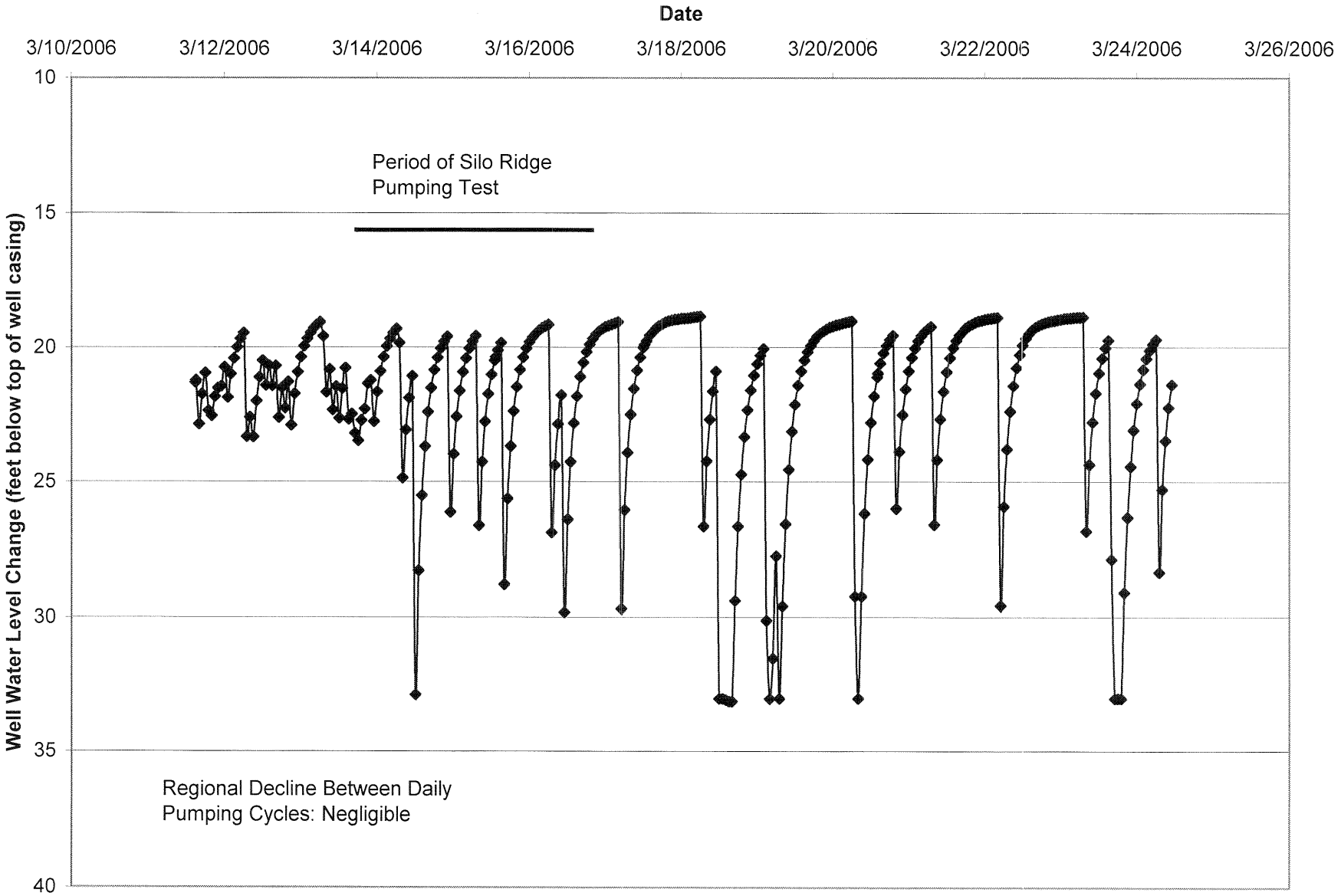

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Figure 28: Well water level record for Pumping Well 9 during the 2007 test

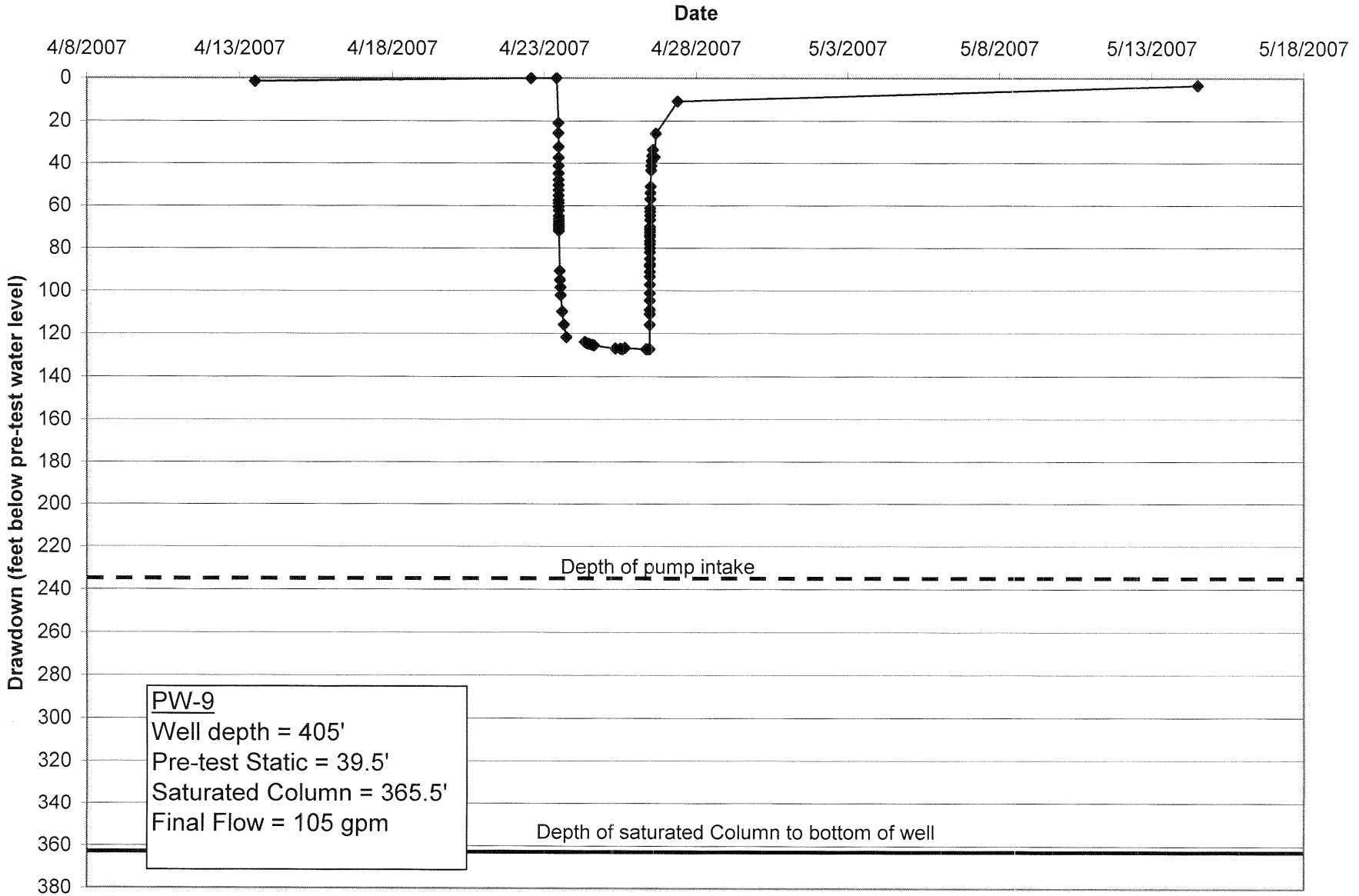

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Figure 29: PW-9 30, 60, 90 and 180 day drought projections during the 2007 pumping test

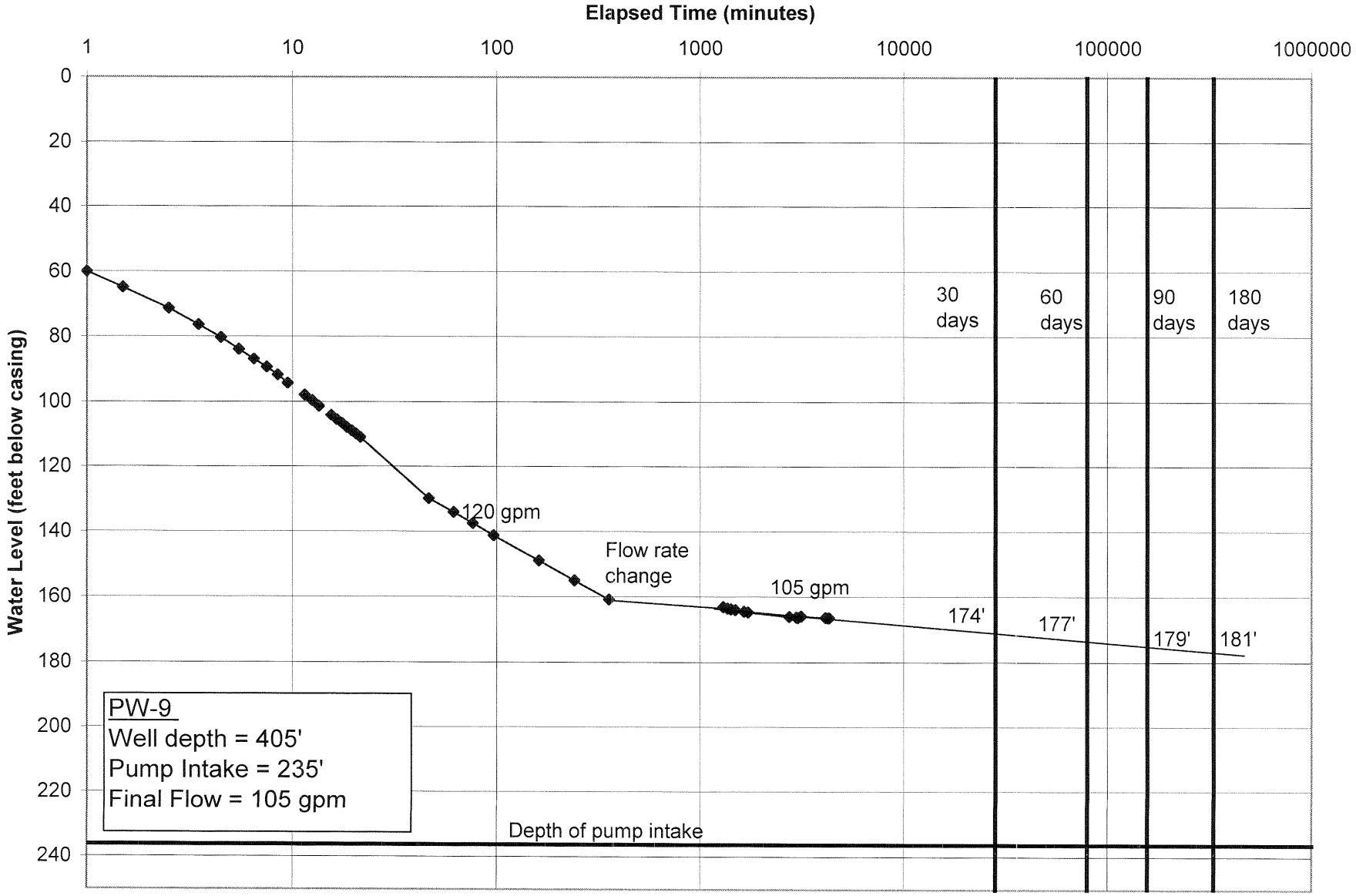

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Figure 30: PW-11 pumping test response during the 2007 pumping test

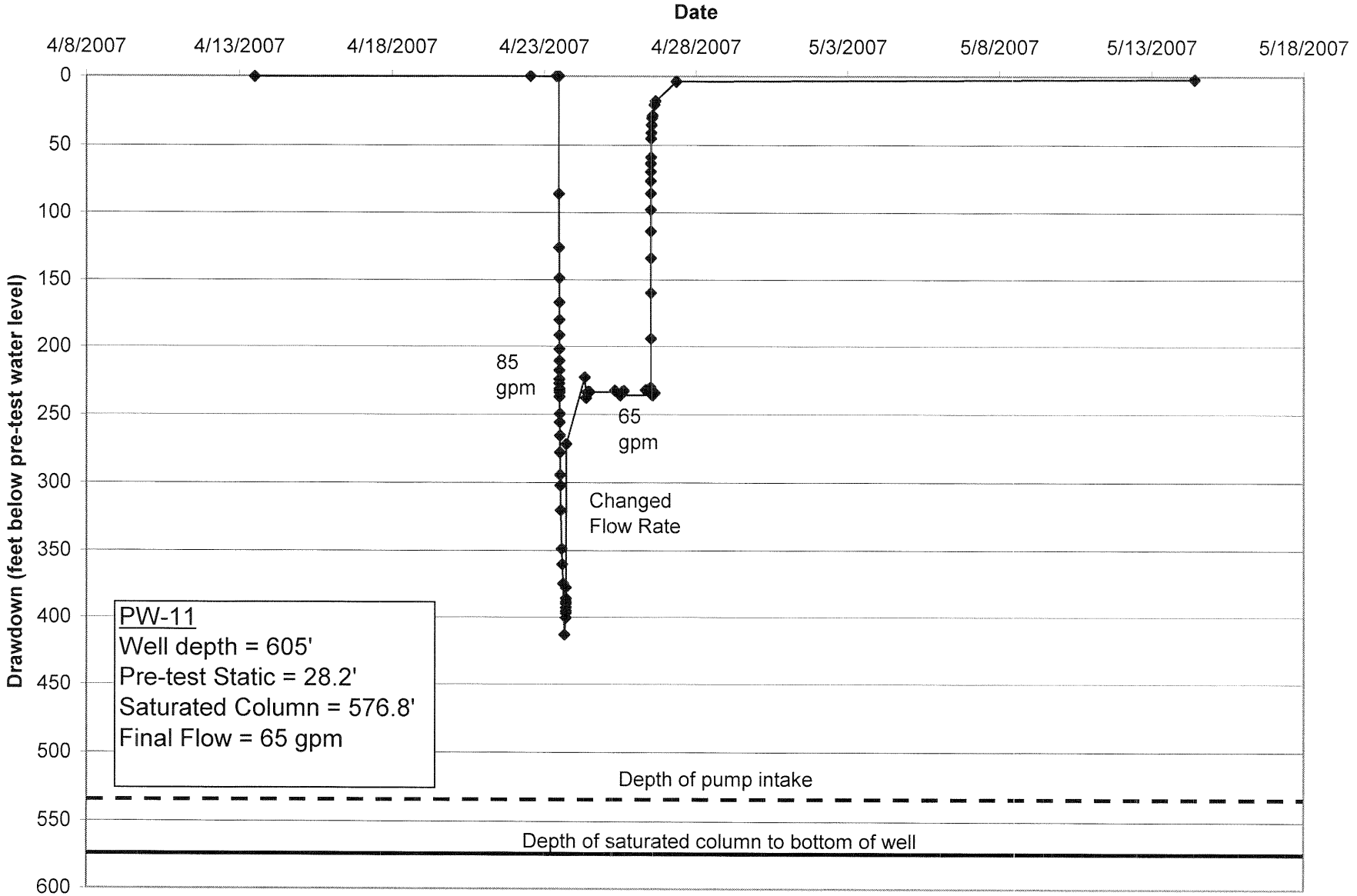

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Figure 31: PW-11 30, 60, 90 and 180 day drought projections during the 2007 pumping test

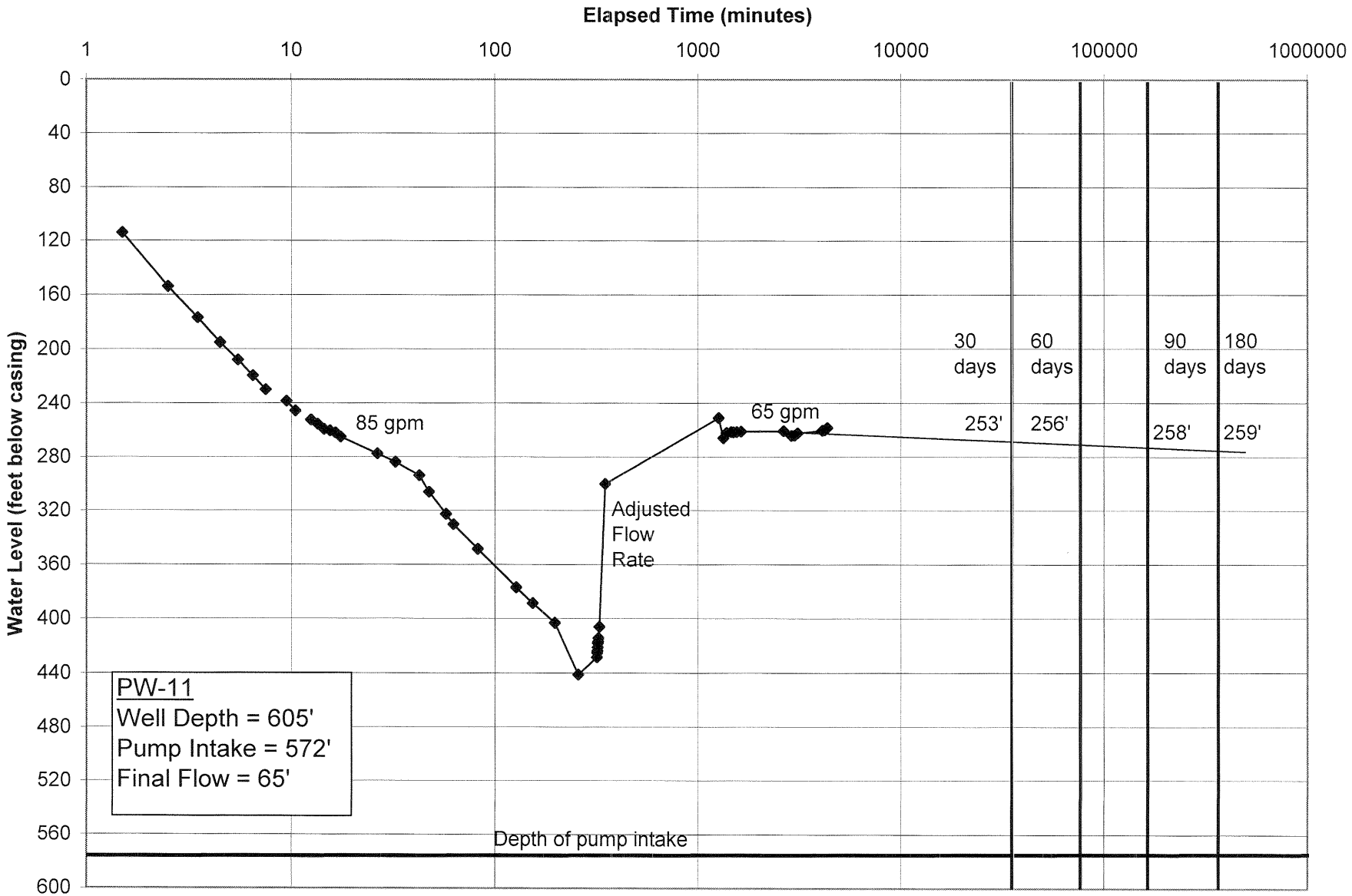

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Figure 32 - Water Level Record for Well 10 during 2007 test

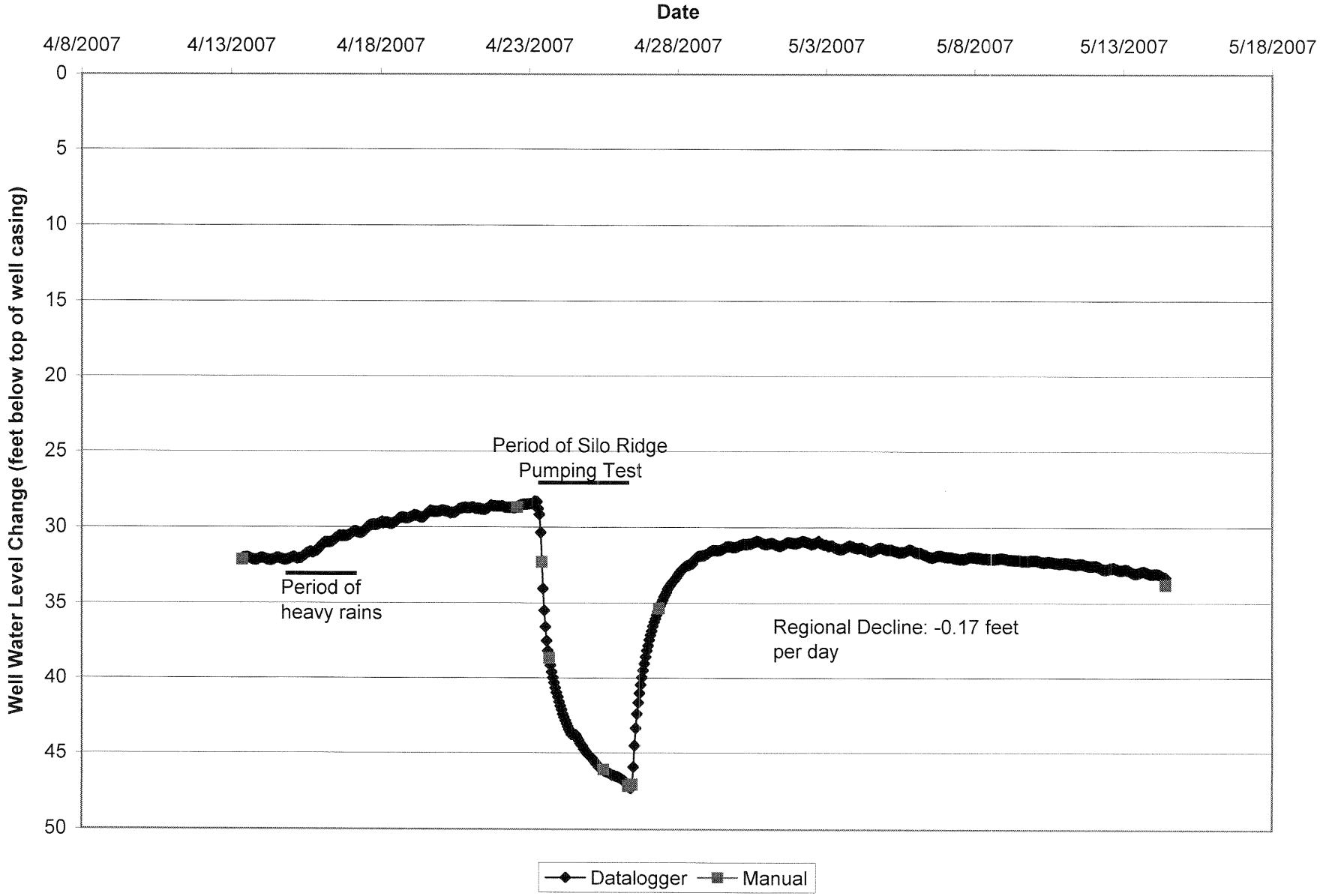

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Figure 33: Water level record for Well 12 during 2007 test

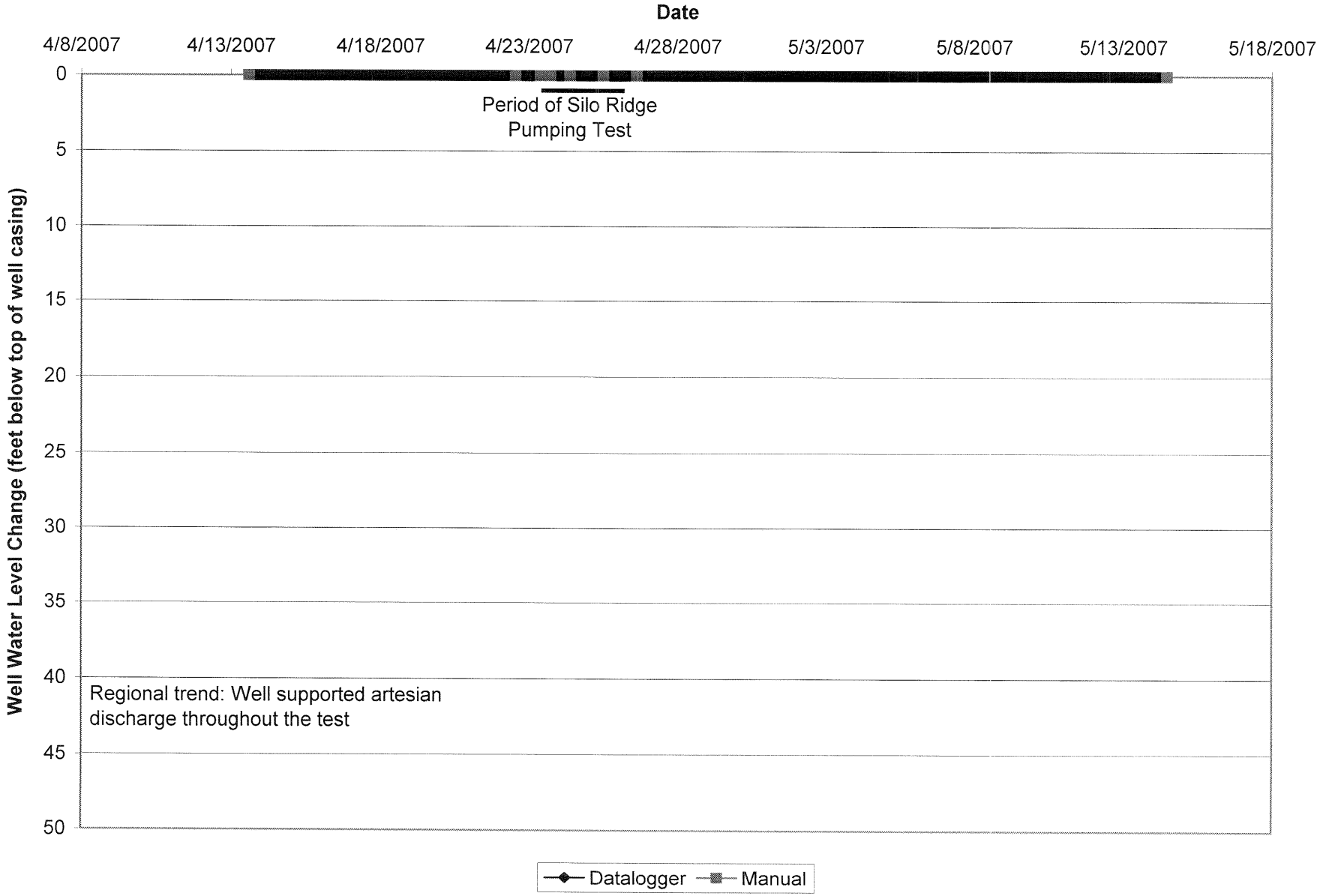

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Figure 34: Water level record for Well 13 during the 2007 test

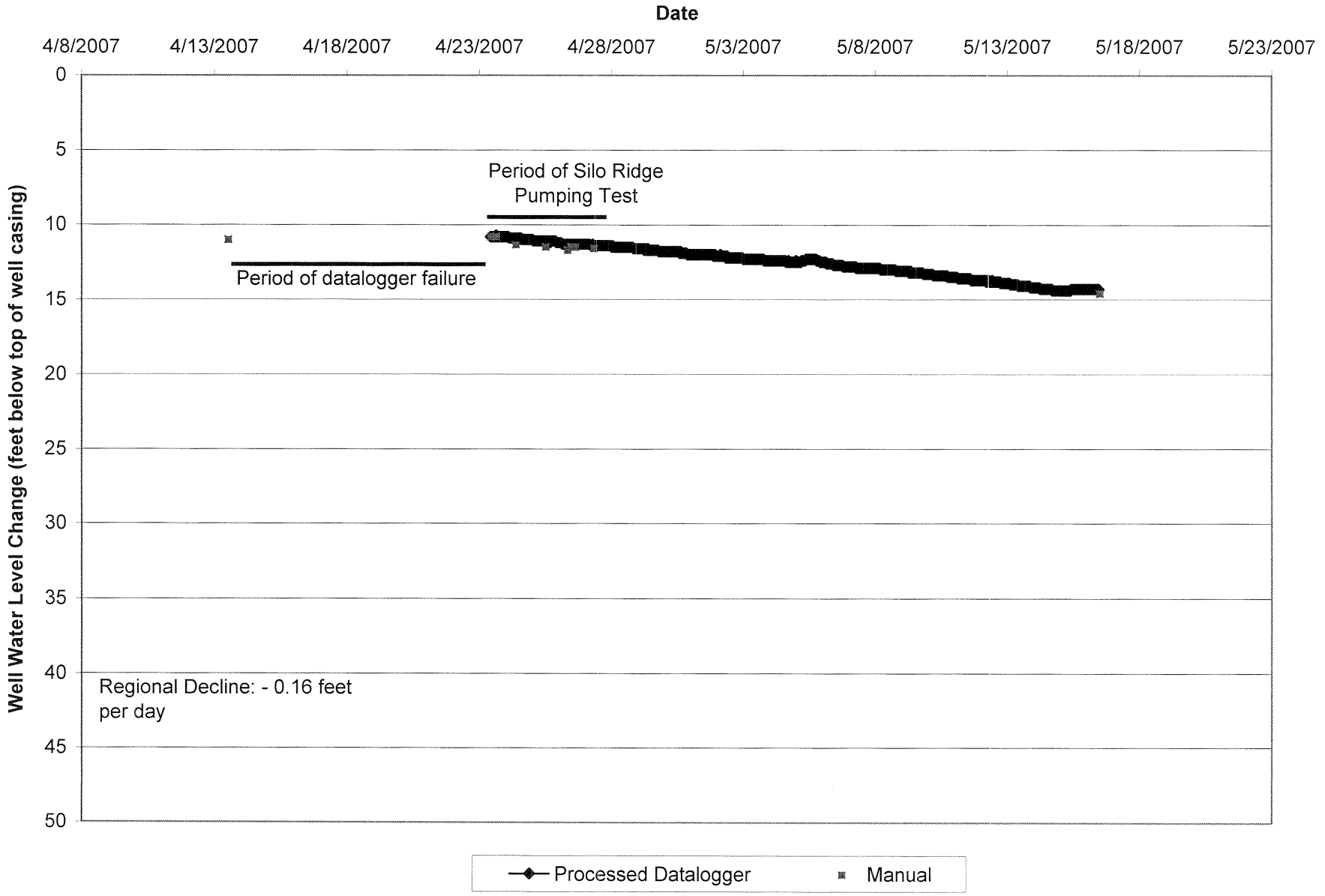

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Figure 35: Water level record for Well A6D during the 2007 test

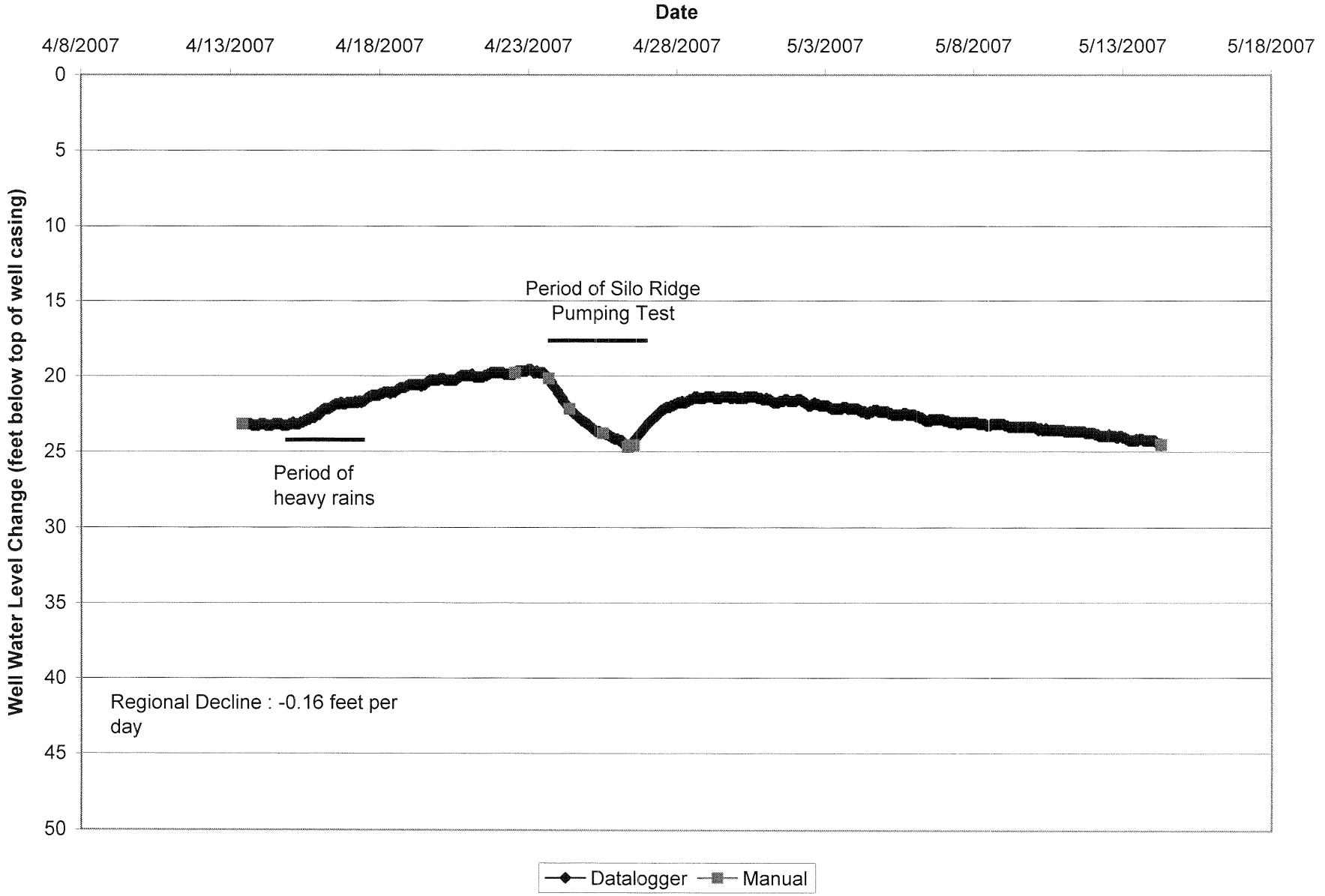

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Figure 36: Water level record for Well PW 2 durning the 2007 test

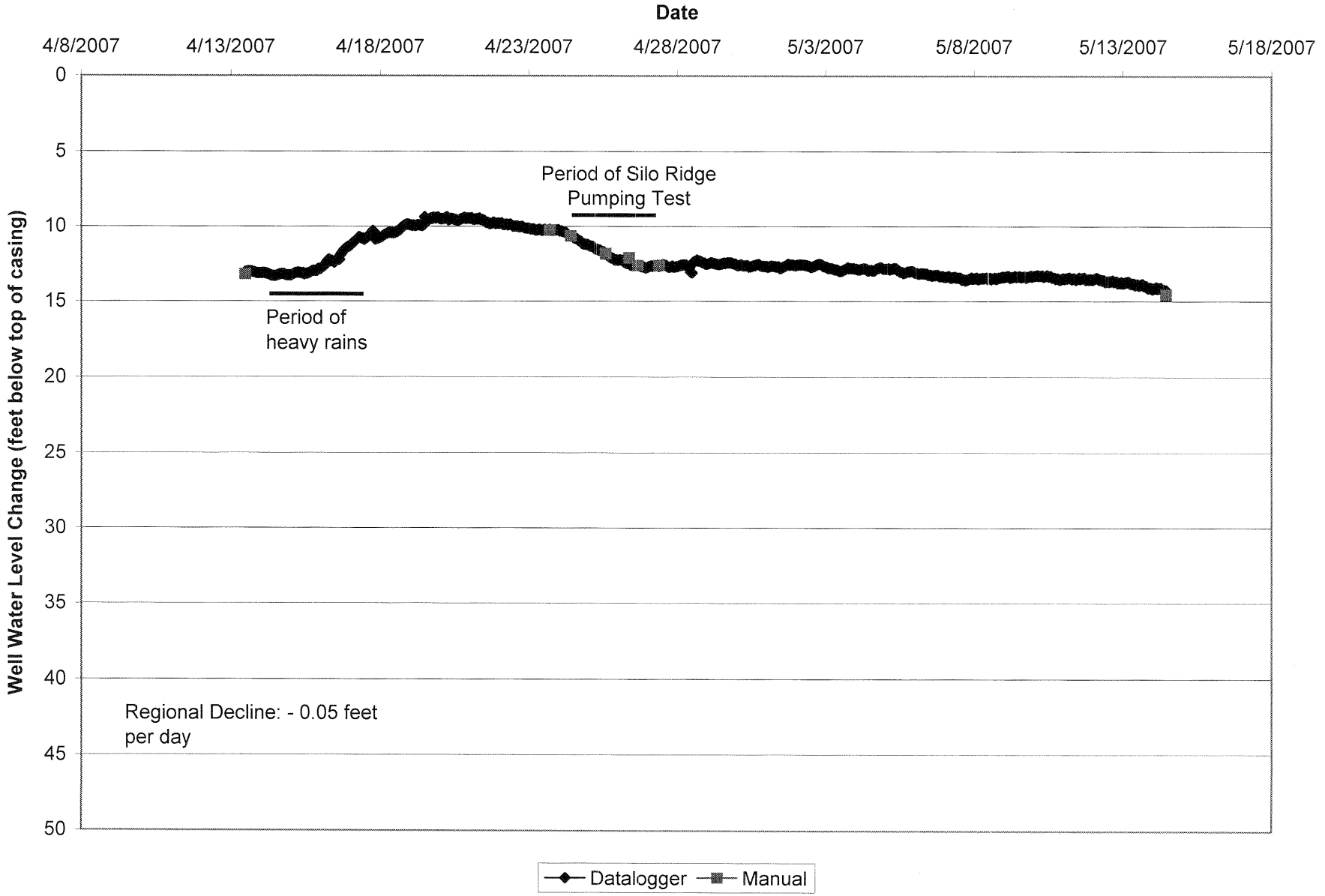

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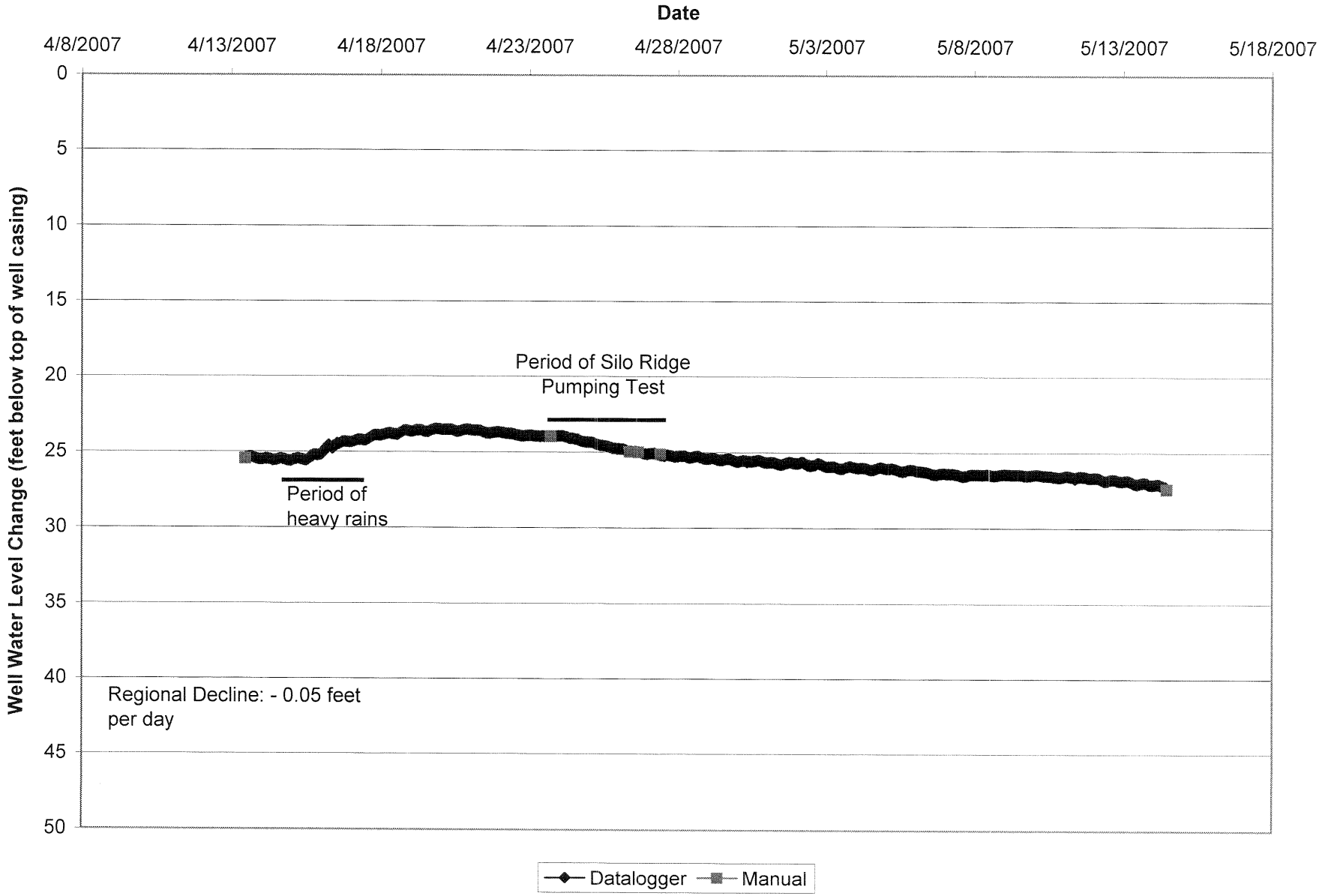
Figure 37: Well water level for Well PW 4 during the 2007 test



TABLES

Table 1 - Summary of production well yields and drawdown during the 2006 and 2007 pumping tests

Well Number	Flow rate at end of test (gpm)	Well Water Level (feet below casing)					
		72-Hour	30 day*	60 day*	90 day*	180 day*	Pump Depth
PW-1	80	98.9	125	130	135	145	207
PW-2	100	158	175	178	182	190	257
PW-4	15	89	130	135	138	140	403
PW-5	23	140	160	168	170	175	192
PW-9**	105	166	174	177	179	181	235
PW-11**	65	258	253	256	258	259	572
Total:	***388***						

*From projections of 72-hour test drawdown data during 2006 pumping test (Figures 6, 8, 10, 12, 14, 16).
**Projections of 72-hour test drawdown data during the 2007 pumping test (Figures 29 & 31)

Table 2 - Precipitation during the 2006 pumping test

Observation Dates	Observations	Cummulative Water Depth Recorded in Bucket* (inches)	Estimated Average Daily Precipitation (inches)	Daily Record
February 27, 2006		0.00	0.00	February 27, 2006
			0.00	February 28, 2006
			0.00	March 1, 2006
March 2, 2006		0.00	0.00	March 2, 2006
			0.00	March 3, 2006
			0.00	March 4, 2006
			0.00	March 5, 2006
			0.00	March 6, 2006
			0.00	March 7, 2006
			0.00	March 8, 2006
			0.00	March 9, 2006
March 10, 2006		0.00	0.00	March 10, 2006
			0.00	March 11, 2006
			0.00	March 12, 2006
March 13, 2006	light rain	0.13	**0.13**	March 13, 2006
March 14, 2006	AM Rain	0.63	**0.50**	March 14, 2006
March 15, 2006	dry	0.50	0.00	March 15, 2006
March 16, 2006	dry	0.25	0.00	March 16, 2006
March 17, 2006	dry	0.00	0.00	March 17, 2006
			0.00	March 18, 2006
			0.00	March 19, 2006
March 20, 2006		0.00	0.00	March 20, 2006

* daily evaporation rate in bucket estimated at 0.13 to 0.25 inches/day.

Table 3 - Summary of the 2006 pumping test drawdown in monitored wells near test

Monitored Well	*Water Level at Start of Test (feet below casing)*	*72-hour drawdown* (feet)*
Well 3	12.99	0.00
Well 6	0.60	10.85
Well 7	12.25	0.00
Well 8	65.51	0.00
Well 10	35.15	14.80
Well 12	0.00	0.00
Well 13	15.75	0.00
Well 14	0.00	0.00
Well 15	27.91	0.00
Well A6D	26.11	3.35
Segalla Rental	21.52	0.00

*After correction for regional decline in each observed well, and after 90 hours observation for monitored wells near production wells PW-9 and PW-11.

Table 4 - Stage gauge and weir water depth data during the 2006 pumping test

SG-1 (H)	
Date & Time	Elevation below top of stake (feet)
2/23/06 11:00	0.92
3/10/06 11:00	0.92
3/13/06 17:00	0.79
3/14/06 12:35	0.81
3/15/06 14:50	0.83
3/16/06 15:25	0.86

SG-2 (J1) W1	
Date & Time	Elevation below top of stake (feet)
2/23/06 11:00	1.10
3/10/06 13:00	1.06
3/13/06 17:30	1.04
3/14/06 23:35	1.04
3/15/06 15:13	1.06
3/16/06 15:52	1.07

SG-3 (J2)	
Date & Time	Elevation below top of stake (feet)
2/23/06 11:00	1.25
3/10/06 13:00	1.41
3/13/06 17:30	1.44
3/14/06 11:40	1.40
3/15/06 15:15	1.45
3/16/06 15:53	1.47

SG-4 (Z)	
Date & Time	Elevation below top of stake (feet)
2/23/06 11:00	1.46*
3/10/06 13:00	1.83
3/13/06 17:43	1.77
3/14/06 11:30	1.43
3/15/06 16:57	1.52
3/16/06 16:32	1.47

*stake moved prior to next reading

SG-5 (K)	
Date & Time	Elevation below top of stake (feet)
2/23/2006 NA	1.07
3/10/2006 NA	1.10
3/13/06 15:42	1.08
3/14/06 11:30	1.13
3/15/06 16:53	1.15
3/16/06 16:30	1.14

SG-6	
Date & Time	Elevation below top of stake (feet)
2/23/2006 NA	NA
3/11/2006 NA	2.24
3/13/06 15:05	2.25
3/14/06 11:00	2.24
3/15/06 14:15	2.24
3/16/2006 NA	NA

SG-7	
Date & Time	Elevation below top of stake (feet)
2/23/2006 NA	NA
3/11/06 NA	2.27
3/13/06 15:00	2.24
3/14/06 10:55	2.25
3/15/06 14:19	2.24
3/16/2006 NA	NA

SG-8	
Date & Time	Elevation below top of stake (feet)
2/23/2006 NA	NA
3/11/06 NA	DRY
3/13/2006 NA	DRY
3/14/2006 NA	DRY
3/15/06 14:42	DRY
3/16/2006 NA	DRY

Weir 1 (Pump House)	
Date & Time	Depth of Water (feet)
3/1/06 NA	0.38
3/13/2006 NA	0.08
3/14/06 11:30	0.08
3/15/06 16:55	0.07
3/16/06 16:30	0.06

Weir 1 (Pump House)	
Date & Time	Depth of Water (feet)
3/1/06 NA	0.06
3/13/2006 NA	0.08
3/14/06 11:35	0.10
3/15/06 15:13	0.08
3/16/06 15:51	0.06

Table 5 - NYS DOH Sub-Part 5 Laboratory Results

Contaminants	MCL*	PW-1 results (Clubhouse Well)	PW-2 Results	PW-4 Results	PW-5 Results	PW-9 Results	PW-11 Results
Asbestos	7MF/>10um S/L 10^6	ND	ND	ND	ND	ND	ND
Antimony-Total	0.006 mg/L	ND	ND	ND	ND	ND	ND
Arsenic	0.05 mg/L	ND	ND	ND	<0.003	ND	ND
Barium	2 mg/L	0.0094	0.0061	0.013	0.0069	ND	ND
Beryllium-Total	0.004 mg/L	ND	ND	ND	ND	ND	ND
Cadmium	0.005 mg/L	ND	ND	ND	ND	ND	ND
Chromium	0.1 mg/L	ND	ND	ND	ND	ND	ND
Cyanide-Total	0.2 mg/L	ND	ND	ND	ND	ND	ND
Mercury	0.002 mg/L	ND	ND	ND	ND	ND	ND
Selenium	0.05 mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver	0.1 mg/l	ND	ND	ND	ND	ND	ND
Thallium-Total	0.002 mg/L	ND	ND	ND	ND	ND	ND
Fluoride	2.2 mg/L	ND	0.2	ND	ND	ND	ND
Chloride	250 mg/L	10	2	3	2	2	3
Iron	0.3 mg/L	**0.88**	**0.43**	**2.2**	**1.8**	0.086	0.095
Manganese	0.3 mg/L	0.21	0.23	**0.37**	**0.31**	0.024	0.2
Sodium	No designated limits	5.5	ND	ND	ND	ND	ND
Sulfate	250 mg/L	30	19	27	27	25	24
Zinc	5 mg/L	0.024	0.12	0.31	0.27	0.02	0.029
Color	15.0 PtCoU (DL)	Nd	ND	ND	ND	ND	ND
Odor	3 TON	ND	ND	ND	ND	ND	ND
Turbidity	1 NTU	**3.8**	**1.2**	**3.5**	**5.5**	0.3	ND
Corrosivity	No Table 1-7 MCL	0.2	-0.2	-0.52	-0.57	-0.07	-0.18
Alkalinity	No Table 1-7 MCL	126	129	102	98	107	75
Calcium, Total	No Table 1-7 MCL	48	41	37	35	35	29
ph	6.5-8.5 Units	7.86	7.49	7.32	7.29	7.81	7.89
Total Dissolved Solids	500 mg/L	214	130	147	85	172	109
Lead	0.015 mg/L	**0.016**	**0.02**	**0.015**	**0.016**	0.001	0.004
Nickel-Total	0.1 mg/L	ND	0.0073	ND	ND	ND	ND
Copper	1.3 mg/L	ND	ND	ND	ND	ND	ND
Nitrate	10 mg/L (As Nitrogen)	ND	ND	ND	ND	ND	0.06
Nitrite	1 mg/L (As Nitrogen)	ND	ND	ND	ND	ND	ND
Total Nitrate and Nitrite	10 mg/L (As Nitrogen)	ND	ND	ND	ND	ND	0.06
Benzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Bromobenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Bromochloromethane	5.0 ug/L	ND	ND	ND	ND	ND	ND
Bromomethane	5.0 ug/L	ND	ND	ND	ND	ND	ND

Sample Date: March 16, 2006

Table 5 - NYS DOH Sub-Part 5 Laboratory Results

Contaminants	MCL*	PW-1 results (Clubhouse Well)	PW-2 Results	PW-4 Results	PW-5 Results	PW-9 Results	PW-11 Results
n-Butylbenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5.0 ug/L	ND	ND	ND	ND	ND	ND
Chlorobenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Chloroethane	5.0 ug/L	ND	ND	ND	ND	ND	ND
Chloromethane	5.0 ug/L	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5.0 ug/L	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Dibromomethane	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5.0 ug/L	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.0 ug/L	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5.0 ug/L	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5.0 ug/L	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.0 ug/L	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Styrene	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5.0 ug/L	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Toluene	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND

Sample Date: March 16, 2006

Table 5 - NYS DOH Sub-Part 5 Laboratory Results

Contaminants	MCL*	PW-1 results (Clubhouse Well)	PW-2 Results	PW-4 Results	PW-5 Results	PW-9 Results	PW-11 Results
1,2,4-Trichlorobenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5.0 ug/L	ND	ND	ND	ND	ND	ND
Trichloroethene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5.0 ug/L	ND	ND	ND	ND	ND	ND
m-Xylene	5.0 ug/L	ND	ND	ND	ND	ND	ND
o-Xylene	5.0 ug/L	ND	ND	ND	ND	ND	ND
p-Xylene	5.0 ug/L	ND	ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	NA	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NA	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NA	ND	ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	NA	ND	ND	ND	ND	ND	ND
Total Trihalomethanes	100 ug/L	ND	ND	ND	ND	ND	ND
Vinyl chloride	2.0 ug/L	ND	ND	ND	ND	ND	ND
Alachlor	2.0 ug/L	ND	ND	ND	ND	ND	ND
Aldicarb	3.0 ug/L	ND	ND	ND	ND	ND	ND
Aldicarb sulfone	2.0 ug/L	ND	ND	ND	ND	ND	ND
Aldicarb sulfoxide	4.0 ug/L	ND	ND	ND	ND	ND	ND
Atrazine	3.0 ug/L	ND	ND	ND	ND	ND	ND
Carbofuran	40 ug/L	ND	ND	ND	ND	ND	ND
Chlorodane	2.0 ug/L	ND	ND	ND	ND	ND	ND
Dibromochloropropane (DBCP)	0.2 ug/L	ND	ND	ND	ND	ND	ND
2,4-D	50 ug/L	ND	ND	ND	ND	ND	ND
Endrin	2.0 ug/L	ND	ND	ND	ND	ND	ND
Ethlyene dibromide (EDB)	0.05 ug/L	ND	ND	ND	ND	ND	ND
Heptachlor	0.4 ug/L	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.2 ug/L	ND	ND	ND	ND	ND	ND
Lindane	0.2 ug/L	ND	ND	ND	ND	ND	ND
Methoxychlor	40.0 ug/L	ND	ND	ND	ND	ND	ND
PCB 1016	0.5 ug/L	Absence	Absence	Absence	Absence	Absence	Absence
PCB 1221	0.5 ug/L	Absence	Absence	Absence	Absence	Absence	Absence
PCB 1232	0.5 ug/L	Absence	Absence	Absence	Absence	Absence	Absence
PCB 1242	0.5 ug/L	Absence	Absence	Absence	Absence	Absence	Absence

Sample Date: March 16, 2006

Table 5 - NYS DOH Sub-Part 5 Laboratory Results

Contaminants	MCL*	PW-1 results (Clubhouse Well)	PW-2 Results	PW-4 Results	PW-5 Results	PW-9 Results	PW-11 Results
PCB 1248	0.5 ug/L	Absence	Absence	Absence	Absence	Absence	Absence
PCB 1260	0.5 ug/L	Absence	Absence	Absence	Absence	Absence	Absence
Pentachlorophenol	1.0 ug/L	ND	ND	ND	ND	ND	ND
Toxaphene	3.00 ug/L	ND	ND	ND	ND	ND	ND
2,4,5-TP(Silvex)	10 ug/L	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.2 ug/L	ND	ND	ND	ND	ND	ND
Di(2-ethylhexyl)phthalate	6.0 ug/L	ND	ND	ND	ND	ND	ND
Dinoseb	7.0 ug/L	ND	ND	ND	ND	ND	ND
Diquat	20 ug/L	ND	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED
Hexachlorobenzene	1.0 ug/L	ND	ND	ND	ND	ND	ND
Methomyl	50 ug/L	ND	ND	ND	ND	ND	ND
Oxamyl vydate	200 ug/L	ND	ND	ND	ND	ND	ND
Simazine	4.0 ug/L	ND	ND	ND	ND	ND	ND
2,3,7,8-TCDD (dioxin)	30 pg/L	ND	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED
Aldrin	5.0 ug/L	ND	ND	ND	ND	ND	ND
Butachlor	50 ug/L	ND	ND	ND	ND	ND	ND
Carbaryl	50 ug/L	ND	ND	ND	ND	ND	ND
Dalapon	50 ug/L	ND	ND	ND	ND	ND	ND
Di(2-ethylhexyl)adipate	400 ug/L	ND	ND	ND	ND	ND	ND
Dicamba	50 ug/L	ND	ND	ND	ND	ND	ND
Dieldrin	5.0 ug/L	ND	ND	ND	ND	ND	ND
Endothall	50 ug/L	ND	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED
Glyphosate	50 ug/L	ND	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED	NOT ANALYZED
Hexachlorocyclopentadiene	50 ug/L	ND	ND	ND	ND	ND	ND
3-Hydroxycarbofuran	50 ug/L	ND	ND	ND	ND	ND	ND
Metolachlor	50 ug/L	ND	ND	ND	ND	ND	ND
Metribuzin	50 ug/L	ND	ND	ND	ND	ND	ND
Pichloram	50 ug/L	ND	ND	ND	ND	ND	ND
Propachlor	50 ug/L	ND	ND	ND	ND	ND	ND
Total coliform	Any positive sample	Absent	Absent	Absent	Absent	Absent	Absent
Escherichia coli (E.coli)	Any positive sample	Absent	Absent	Absent	Absent	Absent	Absent
Radium-226	5 picocuries per liter	0.33 +/-0.15	1.15 +/-0.3	0.21 +/-0.16	0.3 +/-0.13	0.35 +/-0.18	0.13 +/-0.1
Radium-228	5 picocuries per liter	1.6 +/-1.51	1.3 +/-1.29	-1.0 +/-1.26	2.5 +/-1.42	2.0 +/-1.11	2.9 +/-1.9
Gross Alpha	15 picocuries per liter	3.0 +/-1.5	1.7 +/-1.1	2.3 +/-1.4	12.7 +/-3.1	1.4 +/-1	0.8 +/-0.9
Gross Beta	50 picocuries per liter	3.6 +/-0.9	2.6 +/-0.9	6.5 +/-1.1	16.7 +/-1.7	3.0 +/-0.9	2.4 +/-0.8
Methyl tert butyl ether	10 ug/L	ND	ND	ND	ND	ND	ND

Sample Date: March 16, 2006

Contaminants	MCL*	PW-1 results (Clubhouse Well)	PW-2 Results	PW-4 Results	PW-5 Results	PW-9 Results	PW-11 Results
Radon In Water	40,000 picocuries per liter	1300	560	1700	1500	1200	2200

Results not meeting MCLs are presented in **BOLD**

ND - not detected above method detection limit

* = MCL from Subpart 5-1.

Table 6: Summary of drawdown in monitored wells near test during 2007 pumping test

Monitored Well	Water level at start of test (feet below casing)	72 hour drawdown* (feet below casing)
Well 10	28.69	17.87
Well 12	Artesian	Artesian
Well 13	10.8	0.22
Well A6D	19.58	4.63
Well PW2	10.25	2.22
Well PW4	23.95	1.03

* After correction for regional decline in each observed well and after 90 hours observation for monitored wells near production well PW-9 and PW-11

Table 7: Percipiation during the 2007 pumping test

Observation Dates	Observations	Cummulative Water Depth Recorded in Bucket** (inches)	Estimated Average Daily Precipitation (inches)	Daily Record
April 13, 2007	Sunny Warm		0.00	April 13, 2007
			0.00*	April 14, 2007
	Flooding Period		3.51*	April 15, 2007
	Flooding Period		1.47*	April 16, 2007
			0.00*	April 17, 2007
			0.00*	April 18, 2007
			0.00*	April 19, 2007
			0.00*	April 20, 2007
			0.00*	April 21, 2007
April 22, 2007	Sunny, Warm 85deg	0.00	0.00	April 22, 2007
April 23, 2007	Sunny, Warm 85deg	0.00	0.00	April 23, 2007
April 24, 2007	Sunny, Warm 70deg	0.00	0.00	April 24, 2007
April 25, 2007	Warm, PM rain	0.03	0.04	April 25, 2007
April 26, 2007	Cool, PM rain	0.03	0.04	April 26, 2007
April 27, 2007	Cool, AM frost & rain	0.11	0.13	April 27, 2007
April 28, 2007	Sunny, Cool	0.00	0.00	April 28, 2007

* Precipitation not measured by TCC, data measured from Harlem Valley, Wingdale, New York (Source: www.wunderground.com)

** Bucket placed on site for daily measurements beginning on April 22, 2007. Daily evaporation rate in bucket estimated at 0.20 inches/day.

Table 8: Staff Gauge and Weir Water Depth Data

SG-4	
Date & Time	Elevation below top of stake (feet)
4/13/2007 13:00	1.41
4/23/2007 16:50	1.7
4/24/2007 9:42	1.71
4/25/2007 10:51	1.81
4/26/2007 8:47	1.87
4/26/2007 13:42	1.9
4/27/2007 9:36	1.99
5/14/2007 10:40	2.01

SG-5	
Date & Time	Elevation below top of stake (feet)
4/13/2007 13:05	1.87
4/23/2007 16:52	1.32
4/24/2007 9:40	1.31
4/25/2007 10:35	1.31
4/26/2007 8:45	1.31
4/26/2007 13:41	1.31
4/27/2007 9:34	1.31
5/14/2007 10:41	Dammed

Weir 1	
Date & Time	Depth of water (feet)
4/23/2007 14:35	0.3
4/24/2007 9:44	0.3
4/25/2007 10:47	0.29
4/26/2007 8:42	0.29
4/27/2007 13:38	0.28
5/14/2007 10:38	Dammed

APPENDICES

APPENDIX A – WELL LOGS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Dutchess

(2) TOWN Amenia

(3) DEC Well Number DU 6840

WATER WELL COMPLETION REPORT

(4) OWNER
Higher Ground Country Club Management Co. LLC

(5) ADDRESS
P.O. Box 86 Route 22 Amenia, N.Y. 12501

(6) LOCATION OF WELL (See Instructions On Reverse)
Show Lat/Long if available and method used: N41°49.885' W073°34.480' well #(1)
☑ GPS ☐ Map Interpolation
Chazen well #2

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 345'

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

CASINGS

(9) DIAMETER	7 in.	in.	in.	in.
(10) LENGTH	275 ft.	ft.	ft.	in.

(11) GROUT TYPE / SEALING

(12) GROUT / SEALING INTERVAL (feet) FROM 0 TO 275

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 12/28/05

(19) DURATION OF TEST 4 hours

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

(21) STABILIZED DISCHARGE (GPM) 125

(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 ___ 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 Air Percussion

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

(36) DATE DRILLING WORK STARTED 12/23/05

(37) DATE DRILLING WORK COMPLETED 12/28/05

(38) DATE REPORT FILED

(39) REGISTERED COMPANY Albert M. Hyatt + Sons

(40) DEC REGISTRATION NO. NYRD 10194

(41) CERTIFIED DRILLER (Print name) Rex Hyatt

(42) CERTIFIED DRILLER SIGNATURE Rex Hyatt

* Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary

LOG *

Ground Surface EL. _____ ft. above sea level

Top Of Casing is located +2 ft. above (+) or below (-) ground surface

TOP OF WELL

0'-10' Sand + Gravel
10"-110' Hardpan
110'-150' Soft yellow Sandstone,
150'-160' Limestone
160'-270' Soft yellow Sandstone,
270'-285' Cavernous Void
Water Bearing
285'-345' Grey Schist

0-275 Steel Cased
275'-345 open Hole

345'
BOTTOM OF HOLE

OWNER COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Dutchess

(2) TOWN Amenia

(3) DEC Well Number
D068444

WATER WELL COMPLETION REPORT

(4) OWNER
Higher Ground Country Club Management Co, LLC

(5) ADDRESS
P.O. Box 86 Route 22 Amenia N.Y. 12501

(6) LOCATION OF WELL (See Instructions On Reverse)
Show Lat/Long if available and method used: N 41°50.157 W 073°34.081 Well #2 Chazen Well #3
☑ GPS ☐ Map Interpolation

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 505'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 9' DATE MEASURED 1/4/06

CASINGS

(9) DIAMETER	(10) LENGTH
7 in.	41 ft.
in.	ft.
in.	ft.
in.	in.

(11) GROUT TYPE / SEALING
Bentonite

(12) GROUT / SEALING INTERVAL (feet) FROM 10 TO 41

SCREENS

(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)

YIELD TEST

(18) DATE 12/30/05

(19) DURATION OF TEST ~1 hour

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

(21) STABILIZED DISCHARGE (GPM) 1

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

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

(24) RECOVERY (Time in hours/minutes)

(25) Was the water produced during the test discharged away from immediate area? Yes ___ 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 Air Percussion
☐ Rotary ☐ Cable Tool ☑ Other

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

(36) DATE DRILLING WORK STARTED 12/30/05

(37) DATE DRILLING WORK COMPLETED 12/30/05

(38) DATE REPORT FILED 12/31/05

(39) REGISTERED COMPANY Albert M. Hyatt + Sons

(40) DEC REGISTRATION NO. NYRD 10194

(41) CERTIFIED DRILLER (Print name) Rex Hyatt

(42) CERTIFIED DRILLER SIGNATURE Rex Hyatt

* Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary.

LOG *

Ground Surface EL. _____ ft. above sea level

Top Of Casing is located +1 ft. above (+) or below (-) ground surface

TOP OF WELL

0'-15' Sandy Till	0'-41' Steel Casing
15'-25' Silt	41'-505' open hole in Bedrock
25'-34' Hardpan	
34'-505' Shale	

505' BOTTOM OF HOLE

OWNER COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Dutchess

(2) TOWN Amenia

(3) DEC Well Number DU6845

WATER WELL COMPLETION REPORT

(4) OWNER Higher Ground Country Club Management CO, LLC

(5) ADDRESS P.O. Box 86 Route 22 Amenia, NY. 12501

(6) LOCATION OF WELL (See Instructions On Reverse)
Show Lat/Long if available and method used: N 41°49.966' W 073°34.519 well # 3 Chazen well #4
☑ GPS ☐ Map Interpolation

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 445'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 92' DATE MEASURED 1/6/06

CASINGS

(9) DIAMETER	7 in.	in.	in.	in.
(10) LENGTH	102 ft.	ft.	ft.	in.

(11) GROUT TYPE / SEALING Bentonite

(12) GROUT / SEALING INTERVAL (feet) FROM 10' TO 102'

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 1/4/06

(19) DURATION OF TEST 1 hour

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

(21) STABILIZED DISCHARGE (GPM) 20

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

(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) 325'

(24) RECOVERY (Time in hours/minutes)

(25) Was the water produced during the test discharged away from immediate area? Yes ___ 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 Air Percussion
☐ Rotary ☐ Cable Tool ☑ Other ___

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

(36) DATE DRILLING WORK STARTED 1/4/06

(37) DATE DRILLING WORK COMPLETED 1/4/06

(38) DATE REPORT FILED 1/6/06

(39) REGISTERED COMPANY Albert M. Hyatt + Sons

(40) DEC REGISTRATION NO. NYRD 10194

(41) CERTIFIED DRILLER (Print name) Rex Hyatt

(42) CERTIFIED DRILLER SIGNATURE Rex Hyatt

* Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary.

LOG *

Ground Surface EL. _____ ft. above sea level

Top Of Casing is located +1 ft. above (+) or below (-) ground surface

TOP OF WELL

0'-15' Clay, Till
15'-90' Soft schist
90'-390' Schist
390'-445' Soft caving Schist. Water Bearing

0-102' Steel Case
102'-445' open hole

445' BOTTOM OF HOLE

OWNER COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Dutchess

(2) TOWN Amenia

(3) DEC Well Number DU 6848

WATER WELL COMPLETION REPORT

(4) OWNER Higher Ground Country Club Management CO, LLC

(5) ADDRESS P.O. Box 86 Route 22 Amenia, N.Y. 12501

(6) LOCATION OF WELL (See Instructions On Reverse)
Show Lat/Long if available and method used: N41°50.313 W073°34.383 Well #4 Chazen well #5
☑ GPS ☐ Map Interpolation

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 465'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) over Flowing DATE MEASURED 1/6/06

CASINGS

(9) DIAMETER	7 in.	in.	in.	in.
(10) LENGTH	61 ft.	ft.	ft.	in.

(11) GROUT TYPE / SEALING Bentonite

(12) GROUT / SEALING INTERVAL (feet) FROM 10' TO 61'

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 1/6/06

(19) DURATION OF TEST 1 hour

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

(21) STABILIZED DISCHARGE (GPM) 20

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

(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) 220'

(24) RECOVERY (Time in hours/minutes)

(25) Was the water produced during the test discharged away from immediate area? Yes ____ 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 Compressed Air percussion

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

(36) DATE DRILLING WORK STARTED 1/5/06

(37) DATE DRILLING WORK COMPLETED 1/6/06

(38) DATE REPORT FILED 1/7/06

(39) REGISTERED COMPANY Albert M. Hyatt + Sons

(40) DEC REGISTRATION NO. NYRD 10194

(41) CERTIFIED DRILLER (Print name) Rex Hyatt

(42) CERTIFIED DRILLER SIGNATURE Rex Hyatt

* Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach

LOG *

Ground Surface EL. _____ ft. above sea level

Top Of Casing is located +1 ft. above (+) or below (-) ground surface

TOP OF WELL

0'-13' Soil
13'-40' hardpan
40'-230' Shale
230'-235' Soft Fractured Caving Shale
235'-465' Shale

0-61' Steel Casing
61'-465' open hole

465' BOTTOM OF HOLE

OWNER COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Dutchess

(2) TOWN Amenia

(3) DEC Well Number DU6849

WATER WELL COMPLETION REPORT

(4) OWNER
Higher Ground Country Club Management Co, LLC

(5) ADDRESS
P.O. Box 86 Route 22 Amenia, N.Y. 12501

(6) LOCATION OF WELL (See Instructions On Reverse)
Show Lat/Long if available and method used: N 41°50.300 W 073°34.332 Well # 5 Chazen well 6
☑ GPS ☐ Map Interpolation

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 465'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) over Flowing DATE MEASURED 1/9/06

CASINGS

(9) DIAMETER	(10) LENGTH
7 in.	105 ft.
in.	ft.
in.	ft.
in.	in.

(11) GROUT TYPE / SEALING: Bentonite

(12) GROUT / SEALING INTERVAL (feet) FROM 10' TO 105'

SCREENS

(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)

YIELD TEST

(18) DATE 1/6/06

(19) DURATION OF TEST 1 hour

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

(21) STABILIZED DISCHARGE (GPM) 20

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

(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) 150'

(24) RECOVERY (Time in hours/minutes)

(25) Was the water produced during the test discharged away from immediate area? Yes ____ 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 Compressed Air
☐ Rotary ☐ Cable Tool ☑ Other Percussion

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

(36) DATE DRILLING WORK STARTED 1/6/06

(37) DATE DRILLING WORK COMPLETED 1/9/06

(38) DATE REPORT FILED 1/9/06

(39) REGISTERED COMPANY Albert M. Hyatt & Sons

(40) DEC REGISTRATION NO. NYRD 10194

(41) CERTIFIED DRILLER (Print name) Rex Hyatt

(42) CERTIFIED DRILLER SIGNATURE Rex Hyatt

* Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe

LOG *

Ground Surface EL. _____ ft. above sea level

Top Of Casing is located +2 ft. above (+) or below (-) ground surface

TOP OF WELL

0'-10' Soft Soil
10'-76' Hardpan
76'-150' Schist
150'-155' Fractured Water Bearing Caving Schist
155'-465' Schist

0'-105' Steel Casing
105'-465' open Hole

465'
BOTTOM OF HOLE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Dutchess

(2) TOWN Amenia

(3) DEC Well Number DU 6854

WATER WELL COMPLETION REPORT

(4) OWNER Higher Ground Country Club Management Co, LLC

(5) ADDRESS P.O. Box 86 Route 22 Amenia N.Y. 12501

(6) LOCATION OF WELL (See Instructions On Reverse)
Show Lat/Long if available and method used: N 41°50.396 W073°34.198 well # 6 Chazen well #7
☑ GPS ☐ Map Interpolation

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 465'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) Dry hole DATE MEASURED 1/11/06

CASINGS

(9) DIAMETER	7 in.	in.	in.	in.
(10) LENGTH	41 ft.	ft.	ft.	in.

(11) GROUT TYPE / SEALING Bentonite

(12) GROUT / SEALING INTERVAL (feet) FROM 10' TO 41'

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 1/10/06

(19) DURATION OF TEST 1 hour

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

(21) STABILIZED DISCHARGE (GPM) Dry hole

(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 ____ 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 Air Percussion

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

(36) DATE DRILLING WORK STARTED 1/9/06

(37) DATE DRILLING WORK COMPLETED 1/10/06

(38) DATE REPORT FILED 1/11/06

(39) REGISTERED COMPANY Albert M. Hyatt + Sons

(40) DEC REGISTRATION NO. NYRD 10194

(41) CERTIFIED DRILLER (Print name) Rex Hyatt

(42) CERTIFIED DRILLER SIGNATURE Rex Hyatt

* Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary.

LOG *

Ground Surface EL. _____ ft. above sea level

Top Of Casing is located +1 ft. above (+) or below (-) ground surface

TOP OF WELL

0'-17' Clay Till
17'-465' Shale

0'-41' Steel Casing
41'-465' open hole

465
BOTTOM OF HOLE

OWNER COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Dutchess

(2) TOWN Amenia

(3) DEC Well Number DU 6855

WATER WELL COMPLETION REPORT

(4) OWNER Higher Ground Country Club Management Co, LLC

(5) ADDRESS P.O. Box 86 Route 22 Amenia, N.Y. 12501

(6) LOCATION OF WELL (See Instructions On Reverse)
Show Lat/Long if available and method used: N41°50.246 W073°34.229 Well # 7 Chazen well #8
☑ GPS ☐ Map Interpolation

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 525'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 19' DATE MEASURED 11/19/06

CASINGS

(9) DIAMETER in. | in. | in. | in.

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

(11) GROUT TYPE / SEALING

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

SCREENS

(13) MAKE & MATERIAL

(14) OPENINGS

(15) DIAMETER 7 in. | in. | in. | in.

(16) LENGTH 41 ft. | ft. | ft. | in.

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

YIELD TEST

(18) DATE 1/11/06

(19) DURATION OF TEST 1 hour

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

(21) STABILIZED DISCHARGE (GPM) 7

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

(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) 290'

(24) RECOVERY (Time in hours/minutes)

(25) Was the water produced during the test discharged away from immediate area? Yes ____ 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 Air Percussion

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

(36) DATE DRILLING WORK STARTED 1/11/06

(37) DATE DRILLING WORK COMPLETED 1/11/06

(38) DATE REPORT FILED 1/12/06

(39) REGISTERED COMPANY Albert M. Hyatt + Sons

(40) DEC REGISTRATION NO. NYRD 10194

(41) CERTIFIED DRILLER (Print name) Rex Hyatt

(42) CERTIFIED DRILLER SIGNATURE Rex Hyatt

* Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary

LOG *

Ground Surface EL. _____ ft. above sea level

Top Of Casing is located +1 ft. above (+) or below (-) ground surface

TOP OF WELL

0-9' Soft Clay

9'-28' Hardpan,

28'-525' Shale Water Bearing Fracture at 290'

0-41' Steel Cas

41'-525' open hol In Bedro

525'

BOTTOM OF HOLE

OWNER COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Dutchess

(2) TOWN Amenia

(3) DEC Well Number DU6861

WATER WELL COMPLETION REPORT

(4) OWNER Higher Ground Country Club Management Co, LLC

(5) ADDRESS P.O. Box 86 Route 22 Amenia N.Y. 12501

(6) LOCATION OF WELL (See Instructions On Reverse)
Show Lat/Long if available and method used: N41°49.530' W073°34.449 well # 8 Chozen well #9
☑ GPS ☐ Map Interpolation

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 405'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 40' DATE MEASURED 1/24/06

CASINGS

(9) DIAMETER 7 in. | in. | in. | in.

(10) LENGTH 102 ft. | ft. | ft. | in.

(11) GROUT TYPE / SEALING Bentonite

(12) GROUT / SEALING INTERVAL (feet) FROM 10' TO 102'

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 1/24/06

(19) DURATION OF TEST 11 hours

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

(21) STABILIZED DISCHARGE (GPM) 75

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

(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) 250'

(24) RECOVERY (Time in hours/minutes)

(25) Was the water produced during the test discharged away from immediate area? Yes ____ 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 Air Percussion

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

(36) DATE DRILLING WORK STARTED 1/19/06

(37) DATE DRILLING WORK COMPLETED 1/24/06

(38) DATE REPORT FILED 1/25/06

(39) REGISTERED COMPANY Albert M. Hyatt + Sons

(40) DEC REGISTRATION NO. NYRD 10194

(41) CERTIFIED DRILLER (Print name) Rex Hyatt

(42) CERTIFIED DRILLER SIGNATURE Rex Hyatt

* Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary.

LOG *

Ground Surface EL. _____ ft. above sea level

Top Of Casing is located +1 ft. above (+) or below (-) ground surface

TOP OF WELL

0'-15' Clay Till
15'-95' Soft Schist
95'-230' Limestone
230'-270' Fractured Caving Limestone water Bearing
270'-405' Limestone

0'-102' Steel Case
102'-405' open hole in Bedrock

405'
BOTTOM OF HOLE

OWNER COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Dutchess

(2) TOWN Amenia

(3) DEC Well Number DU 6864

WATER WELL COMPLETION REPORT

(4) OWNER Higher Ground Country Club Management Co, LLC

(5) ADDRESS P.O. Box 86 Route 22 Amenia, NY. 12501

(6) LOCATION OF WELL (See Instructions On Reverse)
Show Lat/Long if available and method used: N41°49.450' W073°34.440' well # 9 Chazen well #10
☑ GPS ☐ Map Interpolation

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 465'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 30' DATE MEASURED 1/27/06

CASINGS

(9) DIAMETER	7 in.	in.	in.
(10) LENGTH	62 ft.	ft.	ft. / in.

(11) GROUT TYPE / SEALING Bentonite

(12) GROUT / SEALING INTERVAL (feet) FROM 10' TO 62'

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 1/25/06

(19) DURATION OF TEST 2 hours

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

(21) STABILIZED DISCHARGE (GPM) .5 ½ GPM

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

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

(24) RECOVERY (Time in hours/minutes)

(25) Was the water produced during the test discharged away from immediate area? Yes ____ 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 Compressed Air
☐ Rotary ☐ Cable Tool ☑ Other Percussion

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

(36) DATE DRILLING WORK STARTED 1/25/06

(37) DATE DRILLING WORK COMPLETED 1/26/06

(38) DATE REPORT FILED 1/27/06

(39) REGISTERED COMPANY Albert M. Hyatt + Sons

(40) DEC REGISTRATION NO. NYRD 10194

(41) CERTIFIED DRILLER (Print name) Rex Hyatt

(42) CERTIFIED DRILLER SIGNATURE Rex Hyatt

* Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach

LOG *

Ground Surface EL. _____ ft. above sea level

Top Of Casing is located +1 ft. above (+) or below (-) ground surface

TOP OF WELL

0'-40' Clay	0'-62' Steel Case
40-50 yellow ocher	62'-465' open hole in Bedrock
50'-465'	

465' BOTTOM OF HOLE

OWNER COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Dutchess

(2) TOWN Amenia

(3) DEC Well Number DU6869

WATER WELL COMPLETION REPORT

(4) OWNER Higher Ground Country Club Management Co, LLC

(5) ADDRESS P.O. Box 86 Route 22 Amenia N.Y. 12501 ~~Well # 10~~

(6) LOCATION OF WELL (See instructions On Reverse)
Show Lat/Long if available and method used: N41°49.640' W073°34.397' well # 10 Chazen well #1
☑ GPS ☐ Map Interpolation

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 605'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 28' DATE MEASURED 1/30/06

CASINGS

(9) DIAMETER	7 in.	in.	in.	in.
(10) LENGTH	225 ft.	ft.	ft.	in.

(11) GROUT TYPE / SEALING Bentonite

(12) GROUT / SEALING INTERVAL (feet) FROM 10' TO 225'

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 1/27/06

(19) DURATION OF TEST 4 hours

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

(21) STABILIZED DISCHARGE (GPM) 40

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

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

(24) RECOVERY (Time in hours/minutes)

(25) Was the water produced during the test discharged away from immediate area? Yes ___ 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 Air Percussion
☐ Rotary ☐ Cable Tool ☑ Other ___

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

(36) DATE DRILLING WORK STARTED 1/27/06

(37) DATE DRILLING WORK COMPLETED 1/30/06

(38) DATE REPORT FILED 2/1/06

(39) REGISTERED COMPANY Albert M. Hyatt + Sons

(40) DEC REGISTRATION NO. NYRD 10194

(41) CERTIFIED DRILLER (Print name) Rex Hyatt

(42) CERTIFIED DRILLER SIGNATURE Rex Hyatt

* Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary.

LOG *

Ground Surface EL. ___ ft. above sea level

Top Of Casing is located +1 ft. above (+) or below (-) ground surface

TOP OF WELL

0'-190' hardpan
190'-220' rotten rock
220'-605' Shale

0'-225' Steel Case
225'-605' open hole in Bedrock

605'
BOTTOM OF HOLE

OWNER COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY Dutchess

(2) TOWN Amenia

(3) DEC Well Number: Du 6880

WATER WELL COMPLETION REPORT

(4) OWNER: Higher Ground Country Club Management Co, LLC

(5) ADDRESS: P.O. Box 86 Route 22 Amenia, N.Y. 12501

(6) LOCATION OF WELL (See Instructions On Reverse)
Show Lat/Long if available and method used: N41°49.501 W073°34.280 well #11 Chazen well #12
☑ GPS ☐ Map Interpolation

(7) DEPTH OF WELL BELOW LAND SURFACE (feet): 465'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet): over Flowing DATE MEASURED: 2/1/06

CASINGS

(9) DIAMETER	7 in.	in.	in.	in.
(10) LENGTH	114 ft.	ft.	ft.	in.

(11) GROUT TYPE / SEALING: Bentonite

(12) GROUT / SEALING INTERVAL (feet) FROM 10 TO 114'

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: 2/1/06

(19) DURATION OF TEST: 2 hours

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

(21) STABILIZED DISCHARGE (GPM): 2

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

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

(24) RECOVERY (Time in hours/minutes)

(25) Was the water produced during the test discharged away from immediate area? Yes ____ 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 Air Percussion
☐ Rotary ☐ Cable Tool ☑ Other

(35) USE OF WATER (See instructions for choices): Test

(36) DATE DRILLING WORK STARTED: 1/30/06

(37) DATE DRILLING WORK COMPLETED: 2/2/06

(38) DATE REPORT FILED: 2/3/06

(39) REGISTERED COMPANY: Albert M. Hyatt + Sons

(40) DEC REGISTRATION NO.: NYRD 10194

(41) CERTIFIED DRILLER (Print name): Rex Hyatt

(42) CERTIFIED DRILLER SIGNATURE: Rex Hyatt

* Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary.

LOG *

Ground Surface EL. _____ ft. above sea level

Top Of Casing is located +1 ft. above (+) or below (-) ground surface

TOP OF WELL

0'-60' wet Clay
60'-70' Sand + Gravel
70'-75' hardpan
75-85 Sand + Gravel
85'-110' yellow Ocher
110'-465' Limestone

0'-114' Steel Casing
114'-465' open hole in Bedrock

465'
BOTTOM OF HOLE

OWNER COPY

APPENDIX B – NYSDOH SUB-PART 5 ANALYSES

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-2
6C17088-01 (Drinking Water)

Date Sampled: 03/16/06 09:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Alkalinity as CaCO3	129	0	mg/l	03/23/06 12:00	03/23/06 12:00	SM18-2320B	RN	
Chloride	2	250	mg/l	03/21/06 10:30	03/21/06 10:30	EPA 325.3	KAL	
Corrosivity	-0.20	0	SI	03/31/06 00:00	03/31/06 00:00	Calculation	IC	Corr., pHDW
Nitrate as N	<0.05	10	mg/l	03/17/06 00:00	03/17/06 00:00	EPA 353.2	IC	
Nitrite as N	<0.02	1	mg/l	03/17/06 12:48	03/17/06 14:36	"	IC	
pH	7.49	0	pH Units	03/17/06 14:25	03/17/06 14:25	EPA 150.1	JP	pHD
Total Dissolved Solids	130	500	mg/l	03/23/06 00:00	03/23/06 00:00	EPA 160.1	IC	
Sulfate as SO4	19	250	mg/l	03/28/06 09:00	03/28/06 09:00	SM18-4500SO4-D	KAL	
Miscellaneous Physical/Conventional Chemistry Parameters								
Asbestos	<0.190	7	S/L10^6	03/18/06 00:00	03/28/06 00:00	ELAP 198.2		EMSL*
Temperature	19.6	0	°C	03/17/06 14:25	03/17/06 14:25	EPA 150.1	JP	
Chemical and Physical Parameters by APHA/ASTM/EPA Methods								
Color	<5.00	0	Pt Co	03/17/06 15:00	03/18/06 15:00	SM20, 2120B	RN	
Odor	<1	3	T.O.N.	03/17/06 12:00	03/17/06 12:00	EPA 140.1	RN	ROT
Turbidity	1.20	0	NTU	03/17/06 12:50	03/17/06 12:50	EPA 180.1	IC	
EPA 502.2 Volatile Organic Compounds (NY List)								TB
Benzene	<0.5	5	ug/l	03/22/06 00:00	03/22/06 00:00	EPA 502.2	CY	
Bromobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Bromochloromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Bromomethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
n-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
sec-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
tert-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Carbon tetrachloride	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chloromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
2-Chlorotoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
4-Chlorotoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

The results in this report apply to the samples, as received by the laboratory, analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. The test results meet all requirements of NELAC.

PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-2
6C17088-01 (Drinking Water)

Date Sampled: 03/16/06 09:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 502.2 Volatile Organic Compounds (NY List)								TB
Dibromomethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Dichlorodifluoromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
cis-1,2-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
trans-1,2-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
2,2-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Ethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Hexachlorobutadiene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Isopropylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
p-Isopropyltoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Methylene chloride	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
n-Propylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Styrene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Tetrachloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Toluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-2
6C17088-01 (Drinking Water)

Date Sampled: 03/16/06 09:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 502.2 Volatile Organic Compounds (NY List)								TB
1,1,1-Trichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	EPA 502.2	CY	
1,1,2-Trichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Trichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Trichlorofluoromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Vinyl chloride	<0.5	2	ug/l	03/22/06 00:00	"	"	CY	
m,p-Xylene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
o-Xylene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Methyl tert-butyl ether	<0.5	10	ug/l	03/22/06 00:00	"	"	CY	
Surrogate: Chlorofluorobenzene (PID)		*92.0 %*	*80-120*		"	"	CY	
Surrogate: Chlorofluorobenzene (ELCD)		*94.0 %*	*80-120*		"	"	CY	
Chloroform	<0.5	80	ug/l	03/22/06 00:00	03/22/06 00:00	EPA 502.2	CY	
Bromodichloromethane	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Chlorodibromomethane	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Bromoform	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Total Trihalomethanes	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Surrogate: Chlorofluorobenzene (ELCD)		*94.0 %*	*80-120*		"	"	CY	
EPA 504.1 Microextractables								TB
1,2-Dibromoethane (EDB)	<0.01	0.05	ug/l	03/22/06 00:00	03/23/06 22:55	EPA 504.1	PDB	
1,2-Dibromo-3-chloropropane	<0.01	0.2	ug/l	03/22/06 00:00	"	"	PDB	
Surrogate: Tetrachloro-meta-xylene		*119 %*	*70-130*		"	"	PDB	
EPA 508 Pesticides and PCB Screen								
Chlordane (tech)	<0.10	2	ug/l	03/23/06 00:00	03/30/06 05:08	EPA 508	PDB	
Toxaphene	<0.25	3	ug/l	03/23/06 00:00	"	"	PDB	
PCBs as Aroclors (screen)	Absence	0.5	ug/l	03/23/06 00:00	"	"	PDB	
Surrogate: beta-BHC		*110 %*	*70-130*		"	"	PDB	

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-2
6C17088-01 (Drinking Water)

Date Sampled: 03/16/06 09:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 515.3 Herbicides (NY)								BNCH*
2,4-D	<0.5	70	ug/l	03/22/06 08:15	03/23/06 00:00	EPA 515.3		
Dalapon	<3.0	200	ug/l	03/22/06 08:15	"	"		
Dicamba	<0.3	50	ug/l	03/22/06 08:15	"	"		
Dinoseb	<0.5	7	ug/l	03/22/06 08:15	"	"		
Pentachlorophenol	<0.3	1	ug/l	03/22/06 08:15	"	"		
Picloram	<0.3	500	ug/l	03/22/06 08:15	"	"		
2,4,5-TP (Silvex)	<0.3	50	ug/l	03/22/06 08:15	"	"		
EPA 525.2 Semivolatile Organic Compounds								
Alachlor	<0.10	2	ug/l	03/20/06 00:00	03/20/06 00:00	EPA 525.2	RJH	
Aldrin	<0.10	5	ug/l	03/20/06 00:00	"	"	RJH	
Atrazine	<0.10	3	ug/l	03/20/06 00:00	"	"	RJH	
Benzo (a) pyrene	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Di(2-ethylhexyl)adipate	<2.00	400	ug/l	03/20/06 00:00	"	"	RJH	
Di(2-ethylhexyl)phthalate	<2.00	6	ug/l	03/20/06 00:00	"	"	RJH	
Butachlor	<2.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Endrin	<0.10	2	ug/l	03/20/06 00:00	"	"	RJH	
Heptachlor	<0.10	0.4	ug/l	03/20/06 00:00	"	"	RJH	
Heptachlor epoxide	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Hexachlorobenzene	<0.10	1	ug/l	03/20/06 00:00	"	"	RJH	
Hexachlorocyclopentadiene	<0.10	50	ug/l	03/20/06 00:00	"	"	RJH	
HCH-gamma (Lindane)	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Methoxychlor	<0.10	40	ug/l	03/20/06 00:00	"	"	RJH	
Metolachlor	<2.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Metribuzin	<1.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Propachlor	<1.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Simazine	<0.10	4	ug/l	03/20/06 00:00	"	"	RJH	
Dieldrin	<0.10	5	ug/l	03/20/06 00:00	"	"	RJH	
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*104 %*	*70-130*		"	"	RJH	
Surrogate: Triphenyl phosphate		*103 %*	*70-130*		"	"	RJH	

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-2
6C17088-01 (Drinking Water)

Date Sampled: 03/16/06 09:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 525.2 Semivolatile Organic Compounds								
Surrogate: Perylene-d12		*64.2 %*	*70-130*		"	EPA 525.2	RJH	SURR
EPA 531.1 Carbamate Pesticides								
Aldicarb sulfoxide	<1.0	4	ug/l	03/27/06 00:00	03/28/06 00:00	EPA 531.1	IC	
Aldicarb sulfone	<1.0	2	ug/l	03/27/06 00:00	"	"	IC	
Oxamyl	<1.0	200	ug/l	03/27/06 00:00	"	"	IC	
Methomyl	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
3-Hydroxycarbofuran	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
Aldicarb	<1.0	3	ug/l	03/27/06 00:00	"	"	IC	
Carbofuran	<1.0	40	ug/l	03/27/06 00:00	"	"	IC	
Carbaryl	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
Cyanide by Semi-Automated Spectrophotometry and FIA								
Cyanide (total)	<0.010	0.2	mg/l	03/24/06 00:00	03/27/06 00:00	EPA 335.4	RN	
Fluoride by Ion Selective Electrode								
Fluoride	0.2	2	mg/l	03/27/06 13:30	03/27/06 13:30	SM18-4500F-C	KAL	
Mercury by EPA 245.1								
Mercury	<0.0002	0.002	mg/l	03/30/06 00:00	03/30/06 16:10	EPA 245.1	JD	
Metals by EPA 200 Series Methods								
Antimony	<0.0050	0.006	mg/l	03/27/06 00:00	03/27/06 14:02	EPA 200.9	JD	
Thallium	<0.002	0.002	mg/l	03/22/06 00:00	03/22/06 14:46	"	JD	
Drinking Water Metals by EPA 200 Series Methods								
Silver	<0.0010	0.1	mg/l	03/20/06 00:00	03/29/06 02:53	EPA 200.7	JD	
Arsenic	<0.005	0.01	mg/l	03/20/06 11:13	03/20/06 16:08	EPA 200.9	JD	
Barium	0.0061	2	mg/l	03/20/06 00:00	03/29/06 02:53	EPA 200.7	JD	
Beryllium	<0.0010	0.004	mg/l	03/20/06 00:00	"	"	JD	
Calcium	41	0	mg/l	03/22/06 00:00	03/22/06 09:25	"	JD	
Cadmium	<0.0020	0.005	mg/l	03/20/06 00:00	03/29/06 02:53	"	JD	
Chromium	<0.0050	0.1	mg/l	03/20/06 00:00	"	"	JD	
Copper	<0.25	1.3	mg/l	03/22/06 00:00	03/22/06 09:25	"	JD	
Iron	0.43	0.3	mg/l	03/22/06 00:00	"	"	JD	

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21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-2
6C17088-01 (Drinking Water)

Date Sampled: 03/16/06 09:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Drinking Water Metals by EPA 200 Series Methods								
Manganese	0.23	0.05	mg/l	03/22/06 00:00	"	EPA 200.7	JD	
Sodium	<5.0	0	mg/l	03/22/06 00:00	"	"	JD	
Nickel	0.0073	0.1	mg/l	03/20/06 00:00	03/29/06 02:53	"	JD	
Lead	0.020	0.015	mg/l	03/28/06 00:00	03/28/06 12:41	EPA 200.9	JD	LDR
Selenium	<0.005	0.05	mg/l	04/05/06 00:00	04/05/06 12:40	"	JD	
Zinc	0.12	5	mg/l	03/22/06 00:00	03/22/06 09:25	EPA 200.7	JD	

BNCH* = Analysis performed by PA DEP#39-401, NY DOH#11827
Corr. = For corrosivity a slight positive number usually indicates a non-corrosive condition, while a negative number tends toward corrosion.
EMSL* = Analyzed by NYS DOH#11606, PA DEP#282
LDR = The reported value is above the high calibration standard, but within the linear dynamic range of the instrument and is considered an accurate value.
pHD = The maximum holding time is 1 hour according to NY ELAP or 15 minutes according to PA Critical Elements.
pHDW = The MCL for pH is 6.4-8.5.
ROT = Received and analyzed out of holding time.
SURR = Surrogate recovery was outside method limits.
TB = Trip Blank not analyzed - sample results did not exceed the MDL for this method.

PW-4
6C17088-02 (Drinking Water)

Date Sampled: 03/16/06 08:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Alkalinity as CaCO3	102	0	mg/l	03/23/06 12:00	03/23/06 12:00	SM18-2320B	RN	
Chloride	3	250	mg/l	03/21/06 10:30	03/21/06 10:30	EPA 325.3	KAL	
Corrosivity	-0.52	0	SI	03/31/06 00:00	03/31/06 00:00	Calculation	IC	Corr., pHDW
Nitrate as N	<0.05	10	mg/l	03/17/06 00:00	03/17/06 00:00	EPA 353.2	IC	
Nitrite as N	<0.02	1	mg/l	03/17/06 12:48	03/17/06 16:48	"	IC	
pH	7.32	0	pH Units	03/17/06 14:35	03/17/06 14:35	EPA 150.1	JP	pHD
Total Dissolved Solids	147	500	mg/l	03/23/06 00:00	03/23/06 00:00	EPA 160.1	IC	
Sulfate as SO4	27	250	mg/l	03/28/06 09:00	03/28/06 09:00	SM18-4500SO4-D	KAL	
Miscellaneous Physical/Conventional Chemistry Parameters								

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-4
6C17088-02 (Drinking Water)

Date Sampled: 03/16/06 08:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Miscellaneous Physical/Conventional Chemistry Parameters								
Asbestos	<0.970	7	S/L10^6	03/18/06 00:00	03/28/06 00:00	ELAP 198.2		AA, EMSL*
Temperature	19.7	0	°C	03/17/06 14:35	03/17/06 14:35	EPA 150.1	JP	
Chemical and Physical Parameters by APHA/ASTM/EPA Methods								
Color	<5.00	0	Pt Co	03/17/06 15:00	03/18/06 15:00	SM20, 2120B	RN	
Odor	<1	3	T.O.N.	03/17/06 12:00	03/17/06 12:00	EPA 140.1	RN	ROT
Turbidity	3.50	0	NTU	03/17/06 12:50	03/17/06 12:50	EPA 180.1	IC	
EPA 502.2 Volatile Organic Compounds (NY List)								TB
Benzene	<0.5	5	ug/l	03/22/06 00:00	03/22/06 00:00	EPA 502.2	CY	
Bromobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Bromochloromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Bromomethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
n-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
sec-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
tert-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Carbon tetrachloride	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chloromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
2-Chlorotoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
4-Chlorotoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Dibromomethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Dichlorodifluoromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
cis-1,2-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	

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Certificate of Analysis

Chazen Companies 21 Fox Street Poughkeepsie NY, 12601	Project: Sub Part 5 Project No: Silo Ridge/10454.01 Project Manager: Monian	**Reported:** 04/07/06 09:46

PW-4
6C17088-02 (Drinking Water)

Date Sampled: 03/16/06 08:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 502.2 Volatile Organic Compounds (NY List)								TB
trans-1,2-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	EPA 502.2	CY	
1,2-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
2,2-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Ethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Hexachlorobutadiene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Isopropylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
p-Isopropyltoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Methylene chloride	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
n-Propylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Styrene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Tetrachloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Toluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Trichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Trichlorofluoromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Vinyl chloride	<0.5	2	ug/l	03/22/06 00:00	"	"	CY	
m,p-Xylene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	

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Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-4
6C17088-02 (Drinking Water)

Date Sampled: 03/16/06 08:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 502.2 Volatile Organic Compounds (NY List)								TB
o-Xylene	<0.5	5	ug/l	03/22/06 00:00	"	EPA 502.2	CY	
Methyl tert-butyl ether	<0.5	10	ug/l	03/22/06 00:00	"	"	CY	
Surrogate: Chlorofluorobenzene (PID)		*89.0 %*	*80-120*		"	"	CY	
Surrogate: Chlorofluorobenzene (ELCD)		*90.0 %*	*80-120*		"	"	CY	
Chloroform	<0.5	80	ug/l	03/22/06 00:00	03/22/06 00:00	EPA 502.2	CY	
Bromodichloromethane	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Chlorodibromomethane	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Bromoform	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Total Trihalomethanes	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Surrogate: Chlorofluorobenzene (ELCD)		*90.0 %*	*80-120*		"	"	CY	
EPA 504.1 Microextractables								TB
1,2-Dibromoethane (EDB)	<0.01	0.05	ug/l	03/22/06 00:00	03/23/06 23:29	EPA 504.1	PDB	
1,2-Dibromo-3-chloropropane	<0.01	0.2	ug/l	03/22/06 00:00	"	"	PDB	
Surrogate: Tetrachloro-meta-xylene		*116 %*	*70-130*		"	"	PDB	
EPA 508 Pesticides and PCB Screen								
Chlordane (tech)	<0.10	2	ug/l	03/23/06 00:00	03/30/06 05:30	EPA 508	PDB	
Toxaphene	<0.25	3	ug/l	03/23/06 00:00	"	"	PDB	
PCBs as Aroclors (screen)	Absence	0.5	ug/l	03/23/06 00:00	"	"	PDB	
Surrogate: beta-BHC		*83.6 %*	*70-130*		"	"	PDB	
EPA 515.3 Herbicides (NY)								BNCH*
2,4-D	<0.5	70	ug/l	03/22/06 08:15	03/23/06 00:00	EPA 515.3		
Dalapon	<3.0	200	ug/l	03/22/06 08:15	"	"		
Dicamba	<0.3	50	ug/l	03/22/06 08:15	"	"		
Dinoseb	<0.5	7	ug/l	03/22/06 08:15	"	"		
Pentachlorophenol	<0.3	1	ug/l	03/22/06 08:15	"	"		
Picloram	<0.3	500	ug/l	03/22/06 08:15	"	"		
2,4,5-TP (Silvex)	<0.3	50	ug/l	03/22/06 08:15	"	"		
EPA 525.2 Semivolatile Organic Compounds								

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Certificate of Analysis

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21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-4
6C17088-02 (Drinking Water)

Date Sampled: 03/16/06 08:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 525.2 Semivolatile Organic Compounds								
Alachlor	<0.10	2	ug/l	03/20/06 00:00	03/20/06 00:00	EPA 525.2	RJH	
Aldrin	<0.10	5	ug/l	03/20/06 00:00	"	"	RJH	
Atrazine	<0.10	3	ug/l	03/20/06 00:00	"	"	RJH	
Benzo (a) pyrene	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Di(2-ethylhexyl)adipate	<2.00	400	ug/l	03/20/06 00:00	"	"	RJH	
Di(2-ethylhexyl)phthalate	<2.00	6	ug/l	03/20/06 00:00	"	"	RJH	
Butachlor	<2.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Endrin	<0.10	2	ug/l	03/20/06 00:00	"	"	RJH	
Heptachlor	<0.10	0.4	ug/l	03/20/06 00:00	"	"	RJH	
Heptachlor epoxide	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Hexachlorobenzene	<0.10	1	ug/l	03/20/06 00:00	"	"	RJH	
Hexachlorocyclopentadiene	<0.10	50	ug/l	03/20/06 00:00	"	"	RJH	
HCH-gamma (Lindane)	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Methoxychlor	<0.10	40	ug/l	03/20/06 00:00	"	"	RJH	
Metolachlor	<2.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Metribuzin	<1.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Propachlor	<1.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Simazine	<0.10	4	ug/l	03/20/06 00:00	"	"	RJH	
Dieldrin	<0.10	5	ug/l	03/20/06 00:00	"	"	RJH	
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*93.2 %*	*70-130*		"	"	RJH	
Surrogate: Triphenyl phosphate		*106 %*	*70-130*		"	"	RJH	
Surrogate: Perylene-d12		*79.6 %*	*70-130*		"	"	RJH	
EPA 531.1 Carbamate Pesticides								
Aldicarb sulfoxide	<1.0	4	ug/l	03/27/06 00:00	03/28/06 00:00	EPA 531.1	IC	
Aldicarb sulfone	<1.0	2	ug/l	03/27/06 00:00	"	"	IC	
Oxamyl	<1.0	200	ug/l	03/27/06 00:00	"	"	IC	
Methomyl	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
3-Hydroxycarbofuran	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
Aldicarb	<1.0	3	ug/l	03/27/06 00:00	"	"	IC	

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Irene Chu

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-4
6C17088-02 (Drinking Water)

Date Sampled: 03/16/06 08:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 531.1 Carbamate Pesticides								
Carbofuran	<1.0	40	ug/l	03/27/06 00:00	"	EPA 531.1	IC	
Carbaryl	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
Cyanide by Semi-Automated Spectrophotometry and FIA								
Cyanide (total)	<0.010	0.2	mg/l	03/24/06 00:00	03/27/06 00:00	EPA 335.4	RN	
Fluoride by Ion Selective Electrode								
Fluoride	<0.2	2	mg/l	03/27/06 13:30	03/27/06 13:30	SM18-4500F-C	KAL	
Mercury by EPA 245.1								
Mercury	<0.0002	0.002	mg/l	03/30/06 00:00	03/30/06 16:10	EPA 245.1	JD	
Metals by EPA 200 Series Methods								
Antimony	<0.0050	0.006	mg/l	03/27/06 00:00	03/27/06 14:02	EPA 200.9	JD	
Thallium	<0.002	0.002	mg/l	03/22/06 00:00	03/22/06 14:55	"	JD	
Drinking Water Metals by EPA 200 Series Methods								
Silver	<0.0010	0.1	mg/l	03/20/06 00:00	03/29/06 02:56	EPA 200.7	JD	
Arsenic	<0.005	0.01	mg/l	03/20/06 11:13	03/20/06 16:08	EPA 200.9	JD	
Barium	0.013	2	mg/l	03/20/06 00:00	03/29/06 02:56	EPA 200.7	JD	
Beryllium	<0.0010	0.004	mg/l	03/20/06 00:00	"	"	JD	
Calcium	37	0	mg/l	03/22/06 00:00	03/22/06 09:31	"	JD	
Cadmium	<0.0020	0.005	mg/l	03/20/06 00:00	03/29/06 02:56	"	JD	
Chromium	<0.0050	0.1	mg/l	03/20/06 00:00	"	"	JD	
Copper	<0.25	1.3	mg/l	03/22/06 00:00	03/22/06 09:31	"	JD	
Iron	2.2	0.3	mg/l	03/22/06 00:00	"	"	JD	
Manganese	0.37	0.05	mg/l	03/22/06 00:00	"	"	JD	
Sodium	<5.0	0	mg/l	03/22/06 00:00	"	"	JD	
Nickel	<0.0020	0.1	mg/l	03/20/06 00:00	03/29/06 02:56	"	JD	
Lead	0.015	0.015	mg/l	03/28/06 00:00	03/28/06 12:41	EPA 200.9	JD	
Selenium	<0.005	0.05	mg/l	04/05/06 00:00	04/05/06 12:40	"	JD	
Zinc	0.31	5	mg/l	03/22/06 00:00	03/22/06 09:31	EPA 200.7	JD	

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project:	Sub Part 5	
21 Fox Street	Project No:	Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager:	Monian	04/07/06 09:46

AA = Sample received after holding time expired. Sample analyzed at client's request . Unable to achieve required analytical sensitivity, due to interfering particulate in sample.
BNCH* = Analysis performed by PA DEP#39-401, NY DOH#11827
Corr. = For corrosivity a slight positive number usually indicates a non-corrosive condition, while a negative number tends toward corrosion.
EMSL* = Analyzed by NYS DOH#11606, PA DEP#282
pHD = The maximum holding time is 1 hour according to NY ELAP or 15 minutes according to PA Critical Elements.
pHDW = The MCL for pH is 6.4-8.5.
ROT = Received and analyzed out of holding time.
TB = Trip Blank not analyzed - sample results did not exceed the MDL for this method.

PW-5
6C17088-03 (Drinking Water)

Date Sampled: 03/16/06 11:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Alkalinity as CaCO3	98	0	mg/l	03/23/06 12:00	03/23/06 12:00	SM18-2320B	RN	
Chloride	2	250	mg/l	03/21/06 10:30	03/21/06 10:30	EPA 325.3	KAL	
Corrosivity	-0.57	0	SI	03/31/06 00:00	03/31/06 00:00	Calculation	IC	Corr., pHDW
Nitrate as N	<0.05	10	mg/l	03/17/06 00:00	03/17/06 00:00	EPA 353.2	IC	
Nitrite as N	<0.02	1	mg/l	03/17/06 12:48	03/17/06 16:48	"	IC	
pH	7.29	0	pH Units	03/17/06 15:20	03/17/06 15:20	EPA 150.1	JP	pHD
Total Dissolved Solids	85.0	500	mg/l	03/23/06 00:00	03/23/06 00:00	EPA 160.1	IC	
Sulfate as SO4	27	250	mg/l	03/28/06 09:00	03/28/06 09:00	SM18-4500SO4-D	KAL	
Miscellaneous Physical/Conventional Chemistry Parameters								
Asbestos	<4.80	7	S/L10^6	03/18/06 00:00	03/28/06 00:00	ELAP 198.2		AAa, EMSL*
Temperature	18.6	0	°C	03/17/06 15:20	03/17/06 15:20	EPA 150.1	JP	
Chemical and Physical Parameters by APHA/ASTM/EPA Methods								
Color	<5.00	0	Pt Co	03/17/06 15:00	03/18/06 15:00	SM20, 2120B	RN	
Odor	<1	3	T.O.N.	03/17/06 12:00	03/17/06 12:00	EPA 140.1	RN	ROT
Turbidity	5.50	0	NTU	03/17/06 12:50	03/17/06 12:50	EPA 180.1	IC	
EPA 502.2 Volatile Organic Compounds (NY List)								TB
Benzene	<0.5	5	ug/l	03/22/06 00:00	03/22/06 00:00	EPA 502.2	CY	
Bromobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Bromochloromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Bromomethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
n-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-5
6C17088-03 (Drinking Water)

Date Sampled: 03/16/06 11:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 502.2 Volatile Organic Compounds (NY List)								TB
sec-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	EPA 502.2	CY	
tert-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Carbon tetrachloride	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chloromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
2-Chlorotoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
4-Chlorotoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Dibromomethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Dichlorodifluoromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
cis-1,2-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
trans-1,2-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
2,2-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Ethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Hexachlorobutadiene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Isopropylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
p-Isopropyltoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Methylene chloride	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-5
6C17088-03 (Drinking Water)

Date Sampled: 03/16/06 11:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 502.2 Volatile Organic Compounds (NY List)								TB
n-Propylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	EPA 502.2	CY	
Styrene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Tetrachloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Toluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Trichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Trichlorofluoromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Vinyl chloride	<0.5	2	ug/l	03/22/06 00:00	"	"	CY	
m,p-Xylene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
o-Xylene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Methyl tert-butyl ether	<0.5	10	ug/l	03/22/06 00:00	"	"	CY	
Surrogate: Chlorofluorobenzene (PID)		*90.0 %*	*80-120*		"	"	CY	
Surrogate: Chlorofluorobenzene (ELCD)		*92.0 %*	*80-120*		"	"	CY	
Chloroform	<0.5	80	ug/l	03/22/06 00:00	03/22/06 00:00	EPA 502.2	CY	
Bromodichloromethane	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Chlorodibromomethane	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Bromoform	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Total Trihalomethanes	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Surrogate: Chlorofluorobenzene (ELCD)		*92.0 %*	*80-120*		"	"	CY	
EPA 504.1 Microextractables								TB
1,2-Dibromoethane (EDB)	<0.01	0.05	ug/l	03/22/06 00:00	03/24/06 00:04	EPA 504.1	PDB	

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-5
6C17088-03 (Drinking Water)

Date Sampled: 03/16/06 11:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 504.1 Microextractables								TB
1,2-Dibromo-3-chloropropane	<0.01	0.2	ug/l	03/22/06 00:00	"	EPA 504.1	PDB	
Surrogate: Tetrachloro-meta-xylene		*123 %*	*70-130*		"	"	PDB	
EPA 508 Pesticides and PCB Screen								
Chlordane (tech)	<0.10	2	ug/l	03/23/06 00:00	03/30/06 05:53	EPA 508	PDB	
Toxaphene	<0.25	3	ug/l	03/23/06 00:00	"	"	PDB	
PCBs as Aroclors (screen)	Absence	0.5	ug/l	03/23/06 00:00	"	"	PDB	
Surrogate: beta-BHC		*102 %*	*70-130*		"	"	PDB	
EPA 515.3 Herbicides (NY)								BNCH*
2,4-D	<0.5	70	ug/l	03/22/06 08:15	03/23/06 00:00	EPA 515.3		
Dalapon	<3.0	200	ug/l	03/22/06 08:15	"	"		
Dicamba	<0.3	50	ug/l	03/22/06 08:15	"	"		
Dinoseb	<0.5	7	ug/l	03/22/06 08:15	"	"		
Pentachlorophenol	<0.3	1	ug/l	03/22/06 08:15	"	"		
Picloram	<0.3	500	ug/l	03/22/06 08:15	"	"		
2,4,5-TP (Silvex)	<0.3	50	ug/l	03/22/06 08:15	"	"		
EPA 525.2 Semivolatile Organic Compounds								
Alachlor	<0.10	2	ug/l	03/20/06 00:00	03/20/06 00:00	EPA 525.2	RJH	
Aldrin	<0.10	5	ug/l	03/20/06 00:00	"	"	RJH	
Atrazine	<0.10	3	ug/l	03/20/06 00:00	"	"	RJH	
Benzo (a) pyrene	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Di(2-ethylhexyl)adipate	<2.00	400	ug/l	03/20/06 00:00	"	"	RJH	
Di(2-ethylhexyl)phthalate	<2.00	6	ug/l	03/20/06 00:00	"	"	RJH	
Butachlor	<2.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Endrin	<0.10	2	ug/l	03/20/06 00:00	"	"	RJH	
Heptachlor	<0.10	0.4	ug/l	03/20/06 00:00	"	"	RJH	
Heptachlor epoxide	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Hexachlorobenzene	<0.10	1	ug/l	03/20/06 00:00	"	"	RJH	
Hexachlorocyclopentadiene	<0.10	50	ug/l	03/20/06 00:00	"	"	RJH	

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-5
6C17088-03 (Drinking Water)

Date Sampled: 03/16/06 11:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 525.2 Semivolatile Organic Compounds								
HCH-gamma (Lindane)	<0.10	0.2	ug/l	03/20/06 00:00	"	EPA 525.2	RJH	
Methoxychlor	<0.10	40	ug/l	03/20/06 00:00	"	"	RJH	
Metolachlor	<2.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Metribuzin	<1.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Propachlor	<1.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Simazine	<0.10	4	ug/l	03/20/06 00:00	"	"	RJH	
Dieldrin	<0.10	5	ug/l	03/20/06 00:00	"	"	RJH	
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*95.6 %*	*70-130*		"	"	RJH	
Surrogate: Triphenyl phosphate		*46.2 %*	*70-130*		"	"	RJH	SURR
Surrogate: Perylene-d12		*44.8 %*	*70-130*		"	"	RJH	SURR
EPA 531.1 Carbamate Pesticides								
Aldicarb sulfoxide	<1.0	4	ug/l	03/27/06 00:00	03/28/06 00:00	EPA 531.1	IC	
Aldicarb sulfone	<1.0	2	ug/l	03/27/06 00:00	"	"	IC	
Oxamyl	<1.0	200	ug/l	03/27/06 00:00	"	"	IC	
Methomyl	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
3-Hydroxycarbofuran	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
Aldicarb	<1.0	3	ug/l	03/27/06 00:00	"	"	IC	LLFM
Carbofuran	<1.0	40	ug/l	03/27/06 00:00	"	"	IC	
Carbaryl	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
Cyanide by Semi-Automated Spectrophotometry and FIA								
Cyanide (total)	<0.010	0.2	mg/l	03/24/06 00:00	03/27/06 00:00	EPA 335.4	RN	
Fluoride by Ion Selective Electrode								
Fluoride	<0.2	2	mg/l	03/27/06 13:30	03/27/06 13:30	SM18-4500F-C	KAL	
Mercury by EPA 245.1								
Mercury	<0.0002	0.002	mg/l	03/30/06 00:00	03/30/06 16:10	EPA 245.1	JD	
Metals by EPA 200 Series Methods								
Antimony	<0.0050	0.006	mg/l	03/20/06 00:00	03/27/06 14:02	EPA 200.9	JD	

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-5
6C17088-03 (Drinking Water)

Date Sampled: 03/16/06 11:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Drinking Water Metals by EPA 200 Series Methods								
Silver	<0.0010	0.1	mg/l	03/20/06 00:00	03/29/06 03:00	EPA 200.7	JD	
Arsenic	<0.003	0.01	mg/l	03/20/06 00:00	04/04/06 12:27	EPA 200.9	JD	
Barium	0.0069	2	mg/l	03/20/06 00:00	03/29/06 03:00	EPA 200.7	JD	
Beryllium	<0.0010	0.004	mg/l	03/20/06 00:00	"	"	JD	
Calcium	35	0	mg/l	03/20/06 00:00	03/20/06 09:45	"	JD	
Cadmium	<0.0020	0.005	mg/l	03/20/06 00:00	03/29/06 03:00	"	JD	
Chromium	<0.0050	0.1	mg/l	03/20/06 00:00	"	"	JD	
Copper	<0.25	1.3	mg/l	03/20/06 00:00	"	"	JD	
Iron	1.8	0.3	mg/l	03/20/06 00:00	"	"	JD	LDR
Manganese	0.31	0.05	mg/l	03/20/06 00:00	"	"	JD	LDR
Sodium	<5.0	0	mg/l	03/20/06 00:00	03/20/06 09:45	"	JD	
Nickel	<0.0020	0.1	mg/l	03/20/06 00:00	03/29/06 03:00	"	JD	
Lead	0.016	0.015	mg/l	03/20/06 00:00	03/28/06 17:05	EPA 200.9	JD	
Selenium	<0.005	0.05	mg/l	03/20/06 00:00	04/05/06 12:40	"	JD	
Zinc	0.27	5	mg/l	03/20/06 00:00	03/29/06 03:00	EPA 200.7	JD	

AAa = Unable to achieve required analytical sensitivity, due to interfering particulate in sample.
BNCH* = Analysis performed by PA DEP#39-401, NY DOH#11827
Corr. = For corrosivity a slight positive number usually indicates a non-corrosive condition, while a negative number tends toward corrosion.
EMSL* = Analyzed by NYS DOH#11606, PA DEP#282
LDR = The reported value is above the high calibration standard, but within the linear dynamic range of the instrument and is considered an accurate value.
LLFM = Matrix spike % Recovery below acceptance limits.
pHD = The maximum holding time is 1 hour according to NY ELAP or 15 minutes according to PA Critical Elements.
pHDW = The MCL for pH is 6.4-8.5.
ROT = Received and analyzed out of holding time.
SURR = Surrogate recovery was outside method limits.
TB = Trip Blank not analyzed - sample results did not exceed the MDL for this method.

PW-9
6C17088-04 (Drinking Water)

Date Sampled: 03/16/06 10:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-9
6C17088-04 (Drinking Water)

Date Sampled: 03/16/06 10:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Alkalinity as CaCO3	107	0	mg/l	03/23/06 12:00	03/23/06 12:00	SM18-2320B	RN	
Chloride	2	250	mg/l	03/21/06 10:30	03/21/06 10:30	EPA 325.3	KAL	
Corrosivity	-0.07	0	SI	03/31/06 00:00	03/31/06 00:00	Calculation	IC	Corr., pHDW
Nitrate as N	<0.05	10	mg/l	03/17/06 00:00	03/17/06 00:00	EPA 353.2	IC	
Nitrite as N	<0.02	1	mg/l	03/17/06 12:48	03/17/06 16:48	"	IC	
pH	7.81	0	pH Units	03/17/06 15:28	03/17/06 15:28	EPA 150.1	JP	pHD
Total Dissolved Solids	172	500	mg/l	03/23/06 00:00	03/23/06 00:00	EPA 160.1	IC	
Sulfate as SO4	25	250	mg/l	03/28/06 09:00	03/28/06 09:00	SM18-4500SO4-D	KAL	
Miscellaneous Physical/Conventional Chemistry Parameters								
Asbestos	<0.120	7	S/L10^6	03/18/06 00:00	03/28/06 00:00	ELAP 198.2		EMSL*
Temperature	18.2	0	°C	03/17/06 15:28	03/17/06 15:28	EPA 150.1	JP	
Chemical and Physical Parameters by APHA/ASTM/EPA Methods								
Color	<5.00	0	Pt Co	03/17/06 15:00	03/18/06 15:00	SM20, 2120B	RN	
Odor	<1	3	T.O.N.	03/17/06 12:00	03/17/06 12:00	EPA 140.1	RN	ROT
Turbidity	0.300	0	NTU	03/17/06 12:50	03/17/06 12:50	EPA 180.1	IC	
EPA 502.2 Volatile Organic Compounds (NY List)								TB
Benzene	<0.5	5	ug/l	03/22/06 00:00	03/22/06 00:00	EPA 502.2	CY	
Bromobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Bromochloromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Bromomethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
n-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
sec-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
tert-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Carbon tetrachloride	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chloromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
2-Chlorotoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
4-Chlorotoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-9
6C17088-04 (Drinking Water)

Date Sampled: 03/16/06 10:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 502.2 Volatile Organic Compounds (NY List)								TB
Dibromomethane	<0.5	5	ug/l	03/22/06 00:00	"	EPA 502.2	CY	
1,2-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Dichlorodifluoromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
cis-1,2-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
trans-1,2-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
2,2-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Ethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Hexachlorobutadiene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Isopropylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
p-Isopropyltoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Methylene chloride	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
n-Propylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Styrene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Tetrachloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Toluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-9
6C17088-04 (Drinking Water)

Date Sampled: 03/16/06 10:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 502.2 Volatile Organic Compounds (NY List)								TB
1,1,1-Trichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	EPA 502.2	CY	
1,1,2-Trichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Trichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Trichlorofluoromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Vinyl chloride	<0.5	2	ug/l	03/22/06 00:00	"	"	CY	
m,p-Xylene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
o-Xylene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Methyl tert-butyl ether	<0.5	10	ug/l	03/22/06 00:00	"	"	CY	
Surrogate: Chlorofluorobenzene (PID)		*92.0 %*	*80-120*		"	"	CY	
Surrogate: Chlorofluorobenzene (ELCD)		*94.0 %*	*80-120*		"	"	CY	
Chloroform	<0.5	80	ug/l	03/22/06 00:00	03/22/06 00:00	EPA 502.2	CY	
Bromodichloromethane	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Chlorodibromomethane	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Bromoform	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Total Trihalomethanes	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Surrogate: Chlorofluorobenzene (ELCD)		*94.0 %*	*80-120*		"	"	CY	
EPA 504.1 Microextractables								TB
1,2-Dibromoethane (EDB)	<0.01	0.05	ug/l	03/22/06 00:00	03/24/06 00:38	EPA 504.1	PDB	
1,2-Dibromo-3-chloropropane	<0.01	0.2	ug/l	03/22/06 00:00	"	"	PDB	
Surrogate: Tetrachloro-meta-xylene		*105 %*	*70-130*		"	"	PDB	
EPA 508 Pesticides and PCB Screen								
Chlordane (tech)	<0.10	2	ug/l	03/23/06 00:00	03/30/06 06:16	EPA 508	PDB	
Toxaphene	<0.25	3	ug/l	03/23/06 00:00	"	"	PDB	
PCBs as Aroclors (screen)	Absence	0.5	ug/l	03/23/06 00:00	"	"	PDB	
Surrogate: beta-BHC		*87.7 %*	*70-130*		"	"	PDB	

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-9
6C17088-04 (Drinking Water)

Date Sampled: 03/16/06 10:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 515.3 Herbicides (NY)								BNCH*
2,4-D	<0.5	70	ug/l	03/22/06 08:15	03/23/06 00:00	EPA 515.3		
Dalapon	<3.0	200	ug/l	03/22/06 08:15	"	"		
Dicamba	<0.3	50	ug/l	03/22/06 08:15	"	"		
Dinoseb	<0.5	7	ug/l	03/22/06 08:15	"	"		
Pentachlorophenol	<0.3	1	ug/l	03/22/06 08:15	"	"		
Picloram	<0.3	500	ug/l	03/22/06 08:15	"	"		
2,4,5-TP (Silvex)	<0.3	50	ug/l	03/22/06 08:15	"	"		
EPA 525.2 Semivolatile Organic Compounds								
Alachlor	<0.10	2	ug/l	03/20/06 00:00	03/20/06 00:00	EPA 525.2	RJH	
Aldrin	<0.10	5	ug/l	03/20/06 00:00	"	"	RJH	
Atrazine	<0.10	3	ug/l	03/20/06 00:00	"	"	RJH	
Benzo (a) pyrene	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Di(2-ethylhexyl)adipate	<2.00	400	ug/l	03/20/06 00:00	"	"	RJH	
Di(2-ethylhexyl)phthalate	<2.00	6	ug/l	03/20/06 00:00	"	"	RJH	
Butachlor	<2.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Endrin	<0.10	2	ug/l	03/20/06 00:00	"	"	RJH	
Heptachlor	<0.10	0.4	ug/l	03/20/06 00:00	"	"	RJH	
Heptachlor epoxide	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Hexachlorobenzene	<0.10	1	ug/l	03/20/06 00:00	"	"	RJH	
Hexachlorocyclopentadiene	<0.10	50	ug/l	03/20/06 00:00	"	"	RJH	
HCH-gamma (Lindane)	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Methoxychlor	<0.10	40	ug/l	03/20/06 00:00	"	"	RJH	
Metolachlor	<2.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Metribuzin	<1.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Propachlor	<1.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Simazine	<0.10	4	ug/l	03/20/06 00:00	"	"	RJH	
Dieldrin	<0.10	5	ug/l	03/20/06 00:00	"	"	RJH	
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*94.0 %*	*70-130*		"	"	RJH	
Surrogate: Triphenyl phosphate		*108 %*	*70-130*		"	"	RJH	

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-9
6C17088-04 (Drinking Water)

Date Sampled: 03/16/06 10:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 525.2 Semivolatile Organic Compounds								
Surrogate: Perylene-d12		*81.4 %*	*70-130*		"	EPA 525.2	RJH	
EPA 531.1 Carbamate Pesticides								
Aldicarb sulfoxide	<1.0	4	ug/l	03/27/06 00:00	03/28/06 00:00	EPA 531.1	IC	
Aldicarb sulfone	<1.0	2	ug/l	03/27/06 00:00	"	"	IC	
Oxamyl	<1.0	200	ug/l	03/27/06 00:00	"	"	IC	
Methomyl	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
3-Hydroxycarbofuran	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
Aldicarb	<1.0	3	ug/l	03/27/06 00:00	"	"	IC	
Carbofuran	<1.0	40	ug/l	03/27/06 00:00	"	"	IC	
Carbaryl	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
Cyanide by Semi-Automated Spectrophotometry and FIA								
Cyanide (total)	<0.010	0.2	mg/l	03/24/06 00:00	03/27/06 00:00	EPA 335.4	RN	
Fluoride by Ion Selective Electrode								
Fluoride	<0.2	2	mg/l	03/27/06 13:30	03/27/06 13:30	SM18-4500F-C	KAL	
Mercury by EPA 245.1								
Mercury	<0.0002	0.002	mg/l	03/30/06 00:00	03/30/06 16:10	EPA 245.1	JD	
Metals by EPA 200 Series Methods								
Antimony	<0.0050	0.006	mg/l	03/27/06 00:00	03/27/06 14:02	EPA 200.9	JD	
Thallium	<0.002	0.002	mg/l	03/22/06 00:00	03/22/06 15:00	"	JD	
Drinking Water Metals by EPA 200 Series Methods								
Silver	<0.0010	0.1	mg/l	03/20/06 00:00	03/29/06 03:03	EPA 200.7	JD	
Arsenic	<0.005	0.01	mg/l	03/20/06 11:13	03/20/06 16:08	EPA 200.9	JD	
Barium	<0.0020	2	mg/l	03/20/06 00:00	03/29/06 03:03	EPA 200.7	JD	
Beryllium	<0.0010	0.004	mg/l	03/20/06 00:00	"	"	JD	
Calcium	35	0	mg/l	03/22/06 00:00	03/22/06 09:38	"	JD	
Cadmium	<0.0020	0.005	mg/l	03/20/06 00:00	03/29/06 03:03	"	JD	
Chromium	<0.0050	0.1	mg/l	03/20/06 00:00	"	"	JD	
Copper	<0.25	1.3	mg/l	03/22/06 00:00	03/22/06 09:38	"	JD	
Iron	0.086	0.3	mg/l	03/22/06 00:00	"	"	JD	

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-9
6C17088-04 (Drinking Water)

Date Sampled: 03/16/06 10:40
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Drinking Water Metals by EPA 200 Series Methods								
Manganese	0.024	0.05	mg/l	03/22/06 00:00	"	EPA 200.7	JD	
Sodium	<5.0	0	mg/l	03/22/06 00:00	"	"	JD	
Nickel	<0.0020	0.1	mg/l	03/20/06 00:00	03/29/06 03:03	"	JD	
Lead	0.001	0.015	mg/l	03/28/06 00:00	03/28/06 12:41	EPA 200.9	JD	
Selenium	<0.005	0.05	mg/l	04/05/06 00:00	04/05/06 12:40	"	JD	
Zinc	0.020	5	mg/l	03/22/06 00:00	03/22/06 09:38	EPA 200.7	JD	

BNCH* = Analysis performed by PA DEP#39-401, NY DOH#11827
Corr. = For corrosivity a slight positive number usually indicates a non-corrosive condition, while a negative number tends toward corrosion.
EMSL* = Analyzed by NYS DOH#11606, PA DEP#282
pHD = The maximum holding time is 1 hour according to NY ELAP or 15 minutes according to PA Critical Elements.
pHDW = The MCL for pH is 6.4-8.5.
ROT = Received and analyzed out of holding time.
TB = Trip Blank not analyzed - sample results did not exceed the MDL for this method.

PW-11
6C17088-05 (Drinking Water)

Date Sampled: 03/16/06 10:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Alkalinity as CaCO3	75	0	mg/l	03/23/06 12:00	03/23/06 12:00	SM18-2320B	RN	
Chloride	3	250	mg/l	03/21/06 10:30	03/21/06 10:30	EPA 325.3	KAL	
Corrosivity	-0.18	0	SI	03/31/06 00:00	03/31/06 00:00	Calculation	IC	Corr., pHDW
Nitrate as N	0.06	10	mg/l	03/17/06 00:00	03/17/06 00:00	EPA 353.2	IC	
Nitrite as N	<0.02	1	mg/l	03/17/06 12:48	03/17/06 16:48	"	IC	
pH	7.89	0	pH Units	03/17/06 15:35	03/17/06 15:35	EPA 150.1	JP	pHD
Total Dissolved Solids	109	500	mg/l	03/23/06 00:00	03/23/06 00:00	EPA 160.1	IC	
Sulfate as SO4	24	250	mg/l	03/28/06 09:00	03/28/06 09:00	SM18-4500SO4-D	KAL	
Miscellaneous Physical/Conventional Chemistry Parameters								
Asbestos	<0.120	7	S/L10^6	03/18/06 00:00	03/28/06 00:00	ELAP 198.2		EMSL*
Temperature	18.3	0	°C	03/17/06 15:35	03/17/06 15:35	EPA 150.1	JP	
Chemical and Physical Parameters by APHA/ASTM/EPA Methods								

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-11
6C17088-05 (Drinking Water)

Date Sampled: 03/16/06 10:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Chemical and Physical Parameters by APHA/ASTM/EPA Methods								
Color	<5.00	0	Pt Co	03/17/06 15:00	03/18/06 15:00	SM20, 2120B	RN	
Odor	<1	3	T.O.N.	03/17/06 12:00	03/17/06 12:00	EPA 140.1	RN	ROT
Turbidity	<0.200	0	NTU	03/17/06 12:50	03/17/06 12:50	EPA 180.1	IC	
EPA 502.2 Volatile Organic Compounds (NY List)								TB
Benzene	<0.5	5	ug/l	03/22/06 00:00	03/22/06 00:00	EPA 502.2	CY	
Bromobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Bromochloromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Bromomethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
n-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
sec-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
tert-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Carbon tetrachloride	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chloromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
2-Chlorotoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
4-Chlorotoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Dibromomethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Dichlorodifluoromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
cis-1,2-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
trans-1,2-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-11
6C17088-05 (Drinking Water)

Date Sampled: 03/16/06 10:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 502.2 Volatile Organic Compounds (NY List)								TB
2,2-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	EPA 502.2	CY	
1,1-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Ethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Hexachlorobutadiene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Isopropylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
p-Isopropyltoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Methylene chloride	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
n-Propylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Styrene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,1,2-Tetrachloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Tetrachloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Toluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Trichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Trichlorofluoromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Vinyl chloride	<0.5	2	ug/l	03/22/06 00:00	"	"	CY	
m,p-Xylene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
o-Xylene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Methyl tert-butyl ether	<0.5	10	ug/l	03/22/06 00:00	"	"	CY	
Surrogate: Chlorofluorobenzene (PID)		*90.0 %*	*80-120*		"	"	CY	

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-11
6C17088-05 (Drinking Water)

Date Sampled: 03/16/06 10:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 502.2 Volatile Organic Compounds (NY List)								TB
Surrogate: Chlorofluorobenzene (ELCD)		*92.0 %*	*80-120*		"	EPA 502.2	CY	
Chloroform	<0.5	80	ug/l	03/22/06 00:00	03/22/06 00:00	EPA 502.2	CY	
Bromodichloromethane	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Chlorodibromomethane	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Bromoform	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Total Trihalomethanes	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Surrogate: Chlorofluorobenzene (ELCD)		*92.0 %*	*80-120*		"	"	CY	
EPA 504.1 Microextractables								TB
1,2-Dibromoethane (EDB)	<0.01	0.05	ug/l	03/22/06 00:00	03/24/06 01:13	EPA 504.1	PDB	
1,2-Dibromo-3-chloropropane	<0.01	0.2	ug/l	03/22/06 00:00	"	"	PDB	
Surrogate: Tetrachloro-meta-xylene		*115 %*	*70-130*		"	"	PDB	
EPA 508 Pesticides and PCB Screen								
Chlordane (tech)	<0.10	2	ug/l	03/23/06 00:00	03/30/06 06:38	EPA 508	PDB	
Toxaphene	<0.25	3	ug/l	03/23/06 00:00	"	"	PDB	
PCBs as Aroclors (screen)	Absence	0.5	ug/l	03/23/06 00:00	"	"	PDB	
Surrogate: beta-BHC		*89.3 %*	*70-130*		"	"	PDB	
EPA 515.3 Herbicides (NY)								BNCH*
2,4-D	<0.5	70	ug/l	03/22/06 08:15	03/23/06 00:00	EPA 515.3		
Dalapon	<3.0	200	ug/l	03/22/06 08:15	"	"		
Dicamba	<0.3	50	ug/l	03/22/06 08:15	"	"		
Dinoseb	<0.5	7	ug/l	03/22/06 08:15	"	"		
Pentachlorophenol	<0.3	1	ug/l	03/22/06 08:15	"	"		
Picloram	<0.3	500	ug/l	03/22/06 08:15	"	"		
2,4,5-TP (Silvex)	<0.3	50	ug/l	03/22/06 08:15	"	"		
EPA 525.2 Semivolatile Organic Compounds								
Alachlor	<0.10	2	ug/l	03/20/06 00:00	03/20/06 00:00	EPA 525.2	RJH	
Aldrin	<0.10	5	ug/l	03/20/06 00:00	"	"	RJH	
Atrazine	<0.10	3	ug/l	03/20/06 00:00	"	"	RJH	

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21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-11
6C17088-05 (Drinking Water)

Date Sampled: 03/16/06 10:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 525.2 Semivolatile Organic Compounds								
Benzo (a) pyrene	<0.10	0.2	ug/l	03/20/06 00:00	"	EPA 525.2	RJH	
Di(2-ethylhexyl)adipate	<2.00	400	ug/l	03/20/06 00:00	"	"	RJH	
Di(2-ethylhexyl)phthalate	<2.00	6	ug/l	03/20/06 00:00	"	"	RJH	
Butachlor	<2.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Endrin	<0.10	2	ug/l	03/20/06 00:00	"	"	RJH	
Heptachlor	<0.10	0.4	ug/l	03/20/06 00:00	"	"	RJH	
Heptachlor epoxide	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Hexachlorobenzene	<0.10	1	ug/l	03/20/06 00:00	"	"	RJH	
Hexachlorocyclopentadiene	<0.10	50	ug/l	03/20/06 00:00	"	"	RJH	
HCH-gamma (Lindane)	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Methoxychlor	<0.10	40	ug/l	03/20/06 00:00	"	"	RJH	
Metolachlor	<2.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Metribuzin	<1.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Propachlor	<1.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Simazine	<0.10	4	ug/l	03/20/06 00:00	"	"	RJH	
Dieldrin	<0.10	5	ug/l	03/20/06 00:00	"	"	RJH	
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*97.6 %*	*70-130*		"	"	RJH	
Surrogate: Triphenyl phosphate		*104 %*	*70-130*		"	"	RJH	
Surrogate: Perylene-d12		*78.6 %*	*70-130*		"	"	RJH	
EPA 531.1 Carbamate Pesticides								
Aldicarb sulfoxide	<1.0	4	ug/l	03/27/06 00:00	03/28/06 00:00	EPA 531.1	IC	
Aldicarb sulfone	<1.0	2	ug/l	03/27/06 00:00	"	"	IC	
Oxamyl	<1.0	200	ug/l	03/27/06 00:00	"	"	IC	
Methomyl	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
3-Hydroxycarbofuran	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
Aldicarb	<1.0	3	ug/l	03/27/06 00:00	"	"	IC	
Carbofuran	<1.0	40	ug/l	03/27/06 00:00	"	"	IC	
Carbaryl	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
Cyanide by Semi-Automated Spectrophotometry and FIA								

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-11
6C17088-05 (Drinking Water)

Date Sampled: 03/16/06 10:15
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Cyanide by Semi-Automated Spectrophotometry and FIA								
Cyanide (total)	<0.010	0.2	mg/l	03/24/06 00:00	03/27/06 00:00	EPA 335.4	RN	
Fluoride by Ion Selective Electrode								
Fluoride	<0.2	2	mg/l	03/27/06 13:30	03/27/06 13:30	SM18-4500F-C	KAL	
Mercury by EPA 245.1								
Mercury	<0.0002	0.002	mg/l	03/30/06 00:00	03/30/06 16:10	EPA 245.1	JD	
Metals by EPA 200 Series Methods								
Antimony	<0.0050	0.006	mg/l	03/27/06 00:00	03/27/06 14:02	EPA 200.9	JD	
Thallium	<0.002	0.002	mg/l	03/22/06 00:00	03/22/06 15:13	"	JD	
Drinking Water Metals by EPA 200 Series Methods								
Silver	<0.0010	0.1	mg/l	03/20/06 00:00	03/29/06 03:07	EPA 200.7	JD	
Arsenic	<0.005	0.01	mg/l	03/20/06 11:13	03/20/06 16:08	EPA 200.9	JD	
Barium	<0.0020	2	mg/l	03/20/06 00:00	03/29/06 03:07	EPA 200.7	JD	
Beryllium	<0.0010	0.004	mg/l	03/20/06 00:00	"	"	JD	
Calcium	29	0	mg/l	03/22/06 00:00	03/22/06 09:59	"	JD	
Cadmium	<0.0020	0.005	mg/l	03/20/06 00:00	03/29/06 03:07	"	JD	
Chromium	<0.0050	0.1	mg/l	03/20/06 00:00	"	"	JD	
Copper	<0.25	1.3	mg/l	03/22/06 00:00	03/22/06 09:59	"	JD	
Iron	0.095	0.3	mg/l	03/22/06 00:00	"	"	JD	
Manganese	0.20	0.05	mg/l	03/22/06 00:00	"	"	JD	
Sodium	<5.0	0	mg/l	03/22/06 00:00	"	"	JD	
Nickel	<0.0020	0.1	mg/l	03/20/06 00:00	03/29/06 03:07	"	JD	
Lead	0.004	0.015	mg/l	03/28/06 00:00	03/28/06 12:41	EPA 200.9	JD	
Selenium	<0.005	0.05	mg/l	04/05/06 00:00	04/05/06 12:40	"	JD	
Zinc	0.029	5	mg/l	03/22/06 00:00	03/22/06 09:59	EPA 200.7	JD	

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

BNCH* = Analysis performed by PA DEP#39-401, NY DOH#11827
Corr. = For corrosivity a slight positive number usually indicates a non-corrosive condition, while a negative number tends toward corrosion.
EMSL* = Analyzed by NYS DOH#11606, PA DEP#282
pHD = The maximum holding time is 1 hour according to NY ELAP or 15 minutes according to PA Critical Elements.
pHDW = The MCL for pH is 6.4-8.5.
ROT = Received and analyzed out of holding time.
TB = Trip Blank not analyzed - sample results did not exceed the MDL for this method.

PW-1 Clubhouse Well
6C17088-06 (Drinking Water)

Date Sampled: 03/16/06 07:45
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Alkalinity as CaCO3	126	0	mg/l	03/23/06 12:00	03/23/06 12:00	SM18-2320B	RN	
Chloride	10	250	mg/l	03/21/06 10:30	03/21/06 10:30	EPA 325.3	KAL	
Corrosivity	0.20	0	SI	03/31/06 00:00	03/31/06 00:00	Calculation	IC	Corr., pHDW
Nitrate as N	<0.05	10	mg/l	03/17/06 00:00	03/17/06 00:00	EPA 353.2	IC	
Nitrite as N	<0.02	1	mg/l	03/17/06 12:48	03/17/06 14:36	"	IC	
pH	7.86	0	pH Units	03/17/06 15:20	03/17/06 15:20	EPA 150.1	JP	pHD
Total Dissolved Solids	214	500	mg/l	03/23/06 00:00	03/23/06 00:00	EPA 160.1	IC	
Sulfate as SO4	30	250	mg/l	03/28/06 09:00	03/28/06 09:00	SM18-4500SO4-D	KAL	
Miscellaneous Physical/Conventional Chemistry Parameters								
Asbestos	<0.240	7	S/L10^6	03/18/06 00:00	03/28/06 00:00	ELAP 198.2		AA, EMSL*
Temperature	19.7	0	°C	03/17/06 15:20	03/17/06 15:20	EPA 150.1	JP	
Chemical and Physical Parameters by APHA/ASTM/EPA Methods								
Color	<5.00	0	Pt Co	03/17/06 15:00	03/18/06 15:00	SM20, 2120B	RN	
Odor	<1	3	T.O.N.	03/17/06 12:00	03/17/06 12:00	EPA 140.1	RN	ROT
Turbidity	3.80	0	NTU	03/17/06 12:50	03/17/06 12:50	EPA 180.1	IC	
EPA 502.2 Volatile Organic Compounds (NY List)								TB
Benzene	<0.5	5	ug/l	03/22/06 00:00	03/22/06 00:00	EPA 502.2	CY	
Bromobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Bromochloromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Bromomethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
n-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
sec-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	

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Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-1 Clubhouse Well
6C17088-06 (Drinking Water)

Date Sampled: 03/16/06 07:45
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 502.2 Volatile Organic Compounds (NY List)								TB
tert-Butylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	EPA 502.2	CY	
Carbon tetrachloride	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Chloromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
2-Chlorotoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
4-Chlorotoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Dibromomethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,4-Dichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Dichlorodifluoromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
cis-1,2-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
trans-1,2-Dichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
2,2-Dichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
cis-1,3-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
trans-1,3-Dichloropropene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Ethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Hexachlorobutadiene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Isopropylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
p-Isopropyltoluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Methylene chloride	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
n-Propylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-1 Clubhouse Well
6C17088-06 (Drinking Water)

Date Sampled: 03/16/06 07:45
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 502.2 Volatile Organic Compounds (NY List)								TB
Styrene	<0.5	5	ug/l	03/22/06 00:00	"	EPA 502.2	CY	
1,1,1,2-Tetrachloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,2,2-Tetrachloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Tetrachloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Toluene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,3-Trichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,4-Trichlorobenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,1-Trichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,1,2-Trichloroethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Trichloroethene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Trichlorofluoromethane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,3-Trichloropropane	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,2,4-Trimethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
1,3,5-Trimethylbenzene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Vinyl chloride	<0.5	2	ug/l	03/22/06 00:00	"	"	CY	
m,p-Xylene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
o-Xylene	<0.5	5	ug/l	03/22/06 00:00	"	"	CY	
Methyl tert-butyl ether	<0.5	10	ug/l	03/22/06 00:00	"	"	CY	
Surrogate: Chlorofluorobenzene (PID)		*88.0 %*	*80-120*		"	"	CY	
Surrogate: Chlorofluorobenzene (ELCD)		*91.0 %*	*80-120*		"	"	CY	
Chloroform	<0.5	80	ug/l	03/22/06 00:00	03/22/06 00:00	EPA 502.2	CY	
Bromodichloromethane	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Chlorodibromomethane	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Bromoform	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Total Trihalomethanes	<0.5	80	ug/l	03/22/06 00:00	"	"	CY	
Surrogate: Chlorofluorobenzene (ELCD)		*91.0 %*	*80-120*		"	"	CY	
EPA 504.1 Microextractables								TB
1,2-Dibromoethane (EDB)	<0.01	0.05	ug/l	03/22/06 00:00	03/24/06 01:47	EPA 504.1	PDB	
1,2-Dibromo-3-chloropropane	<0.01	0.2	ug/l	03/22/06 00:00	"	"	PDB	

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-1 Clubhouse Well
6C17088-06 (Drinking Water)

Date Sampled: 03/16/06 07:45
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 504.1 Microextractables								TB
Surrogate: Tetrachloro-meta-xylene		*118 %*	*70-130*		"	EPA 504.1	PDB	
EPA 508 Pesticides and PCB Screen								
Chlordane (tech)	<0.10	2	ug/l	03/23/06 00:00	03/30/06 07:01	EPA 508	PDB	
Toxaphene	<0.25	3	ug/l	03/23/06 00:00	"	"	PDB	
PCBs as Aroclors (screen)	Absence	0.5	ug/l	03/23/06 00:00	"	"	PDB	
Surrogate: beta-BHC		*80.6 %*	*70-130*		"	"	PDB	
EPA 515.3 Herbicides (NY)								BNCH*
2,4-D	<0.5	70	ug/l	03/22/06 08:15	03/23/06 00:00	EPA 515.3		
Dalapon	<3.0	200	ug/l	03/22/06 08:15	"	"		
Dicamba	<0.3	50	ug/l	03/22/06 08:15	"	"		
Dinoseb	<0.5	7	ug/l	03/22/06 08:15	"	"		
Pentachlorophenol	<0.3	1	ug/l	03/22/06 08:15	"	"		
Picloram	<0.3	500	ug/l	03/22/06 08:15	"	"		
2,4,5-TP (Silvex)	<0.3	50	ug/l	03/22/06 08:15	"	"		
EPA 525.2 Semivolatile Organic Compounds								
Alachlor	<0.10	2	ug/l	03/20/06 00:00	03/20/06 00:00	EPA 525.2	RJH	
Aldrin	<0.10	5	ug/l	03/20/06 00:00	"	"	RJH	
Atrazine	<0.10	3	ug/l	03/20/06 00:00	"	"	RJH	
Benzo (a) pyrene	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Di(2-ethylhexyl)adipate	<2.00	400	ug/l	03/20/06 00:00	"	"	RJH	
Di(2-ethylhexyl)phthalate	<2.00	6	ug/l	03/20/06 00:00	"	"	RJH	
Butachlor	<2.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Endrin	<0.10	2	ug/l	03/20/06 00:00	"	"	RJH	
Heptachlor	<0.10	0.4	ug/l	03/20/06 00:00	"	"	RJH	
Heptachlor epoxide	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	
Hexachlorobenzene	<0.10	1	ug/l	03/20/06 00:00	"	"	RJH	
Hexachlorocyclopentadiene	<0.10	50	ug/l	03/20/06 00:00	"	"	RJH	
HCH-gamma (Lindane)	<0.10	0.2	ug/l	03/20/06 00:00	"	"	RJH	

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-1 Clubhouse Well
6C17088-06 (Drinking Water)

Date Sampled: 03/16/06 07:45
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
EPA 525.2 Semivolatile Organic Compounds								
Methoxychlor	<0.10	40	ug/l	03/20/06 00:00	"	EPA 525.2	RJH	
Metolachlor	<2.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Metribuzin	<1.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Propachlor	<1.00	50	ug/l	03/20/06 00:00	"	"	RJH	
Simazine	<0.10	4	ug/l	03/20/06 00:00	"	"	RJH	
Dieldrin	<0.10	5	ug/l	03/20/06 00:00	"	"	RJH	
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*97.4 %*	*70-130*		"	"	RJH	
Surrogate: Triphenyl phosphate		*107 %*	*70-130*		"	"	RJH	
Surrogate: Perylene-d12		*67.6 %*	*70-130*		"	"	RJH	SURR
EPA 531.1 Carbamate Pesticides								
Aldicarb sulfoxide	<1.0	4	ug/l	03/27/06 00:00	03/28/06 00:00	EPA 531.1	IC	
Aldicarb sulfone	<1.0	2	ug/l	03/27/06 00:00	"	"	IC	
Oxamyl	<1.0	200	ug/l	03/27/06 00:00	"	"	IC	
Methomyl	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
3-Hydroxycarbofuran	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
Aldicarb	<1.0	3	ug/l	03/27/06 00:00	"	"	IC	
Carbofuran	<1.0	40	ug/l	03/27/06 00:00	"	"	IC	
Carbaryl	<1.0	0	ug/l	03/27/06 00:00	"	"	IC	
EPA 547 Glyphosate by HPLC								
Glyphosate	<0.05	700	mg/l	03/17/06 00:00	03/17/06 00:00	EPA 547	IC	
EPA 548.1 Endothall								
Endothall	<0.05	0.1	mg/l	03/21/06 16:30	03/29/06 10:20	EPA 548.1		FCOL*
EPA 549.2 Diquat by HPLC								
Diquat	<0.8	20	ug/l	03/17/06 00:00	03/22/06 00:00	EPA 549.2	IC	
EPA 1613 Dioxin								PACE*
2,3,7,8-TCDD	<5	30	pg/l	03/21/06 00:00	03/23/06 05:18	EPA 1613B		

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Irene Chu

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:46

PW-1 Clubhouse Well
6C17088-06 (Drinking Water)

Date Sampled: 03/16/06 07:45
Date Received: 03/17/06 12:48

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Cyanide by Semi-Automated Spectrophotometry and FIA								
Cyanide (total)	<0.010	0.2	mg/l	03/24/06 00:00	03/27/06 00:00	EPA 335.4	RN	
Fluoride by Ion Selective Electrode								
Fluoride	<0.2	2	mg/l	03/27/06 13:30	03/27/06 13:30	SM18-4500F-C	KAL	
Mercury by EPA 245.1								
Mercury	<0.0002	0.002	mg/l	03/30/06 00:00	03/30/06 16:10	EPA 245.1	JD	
Metals by EPA 200 Series Methods								
Antimony	<0.0050	0.006	mg/l	03/27/06 00:00	03/27/06 14:02	EPA 200.9	JD	
Thallium	<0.002	0.002	mg/l	03/22/06 00:00	03/22/06 15:17	"	JD	
Drinking Water Metals by EPA 200 Series Methods								
Silver	<0.0010	0.1	mg/l	03/20/06 00:00	03/29/06 03:21	EPA 200.7	JD	
Arsenic	<0.005	0.01	mg/l	03/20/06 11:13	03/20/06 16:08	EPA 200.9	JD	
Barium	0.0094	2	mg/l	03/20/06 00:00	03/29/06 03:21	EPA 200.7	JD	
Beryllium	<0.0010	0.004	mg/l	03/20/06 00:00	"	"	JD	
Calcium	48	0	mg/l	03/22/06 00:00	03/22/06 10:06	"	JD	
Cadmium	<0.0020	0.005	mg/l	03/20/06 00:00	03/29/06 03:21	"	JD	
Chromium	<0.0050	0.1	mg/l	03/20/06 00:00	"	"	JD	
Copper	<0.25	1.3	mg/l	03/22/06 00:00	03/22/06 10:06	"	JD	
Iron	0.88	0.3	mg/l	03/22/06 00:00	"	"	JD	
Manganese	0.21	0.05	mg/l	03/22/06 00:00	"	"	JD	
Sodium	5.5	0	mg/l	03/22/06 00:00	"	"	JD	
Nickel	<0.0020	0.1	mg/l	03/20/06 00:00	03/29/06 03:21	"	JD	
Lead	0.016	0.015	mg/l	03/28/06 00:00	03/28/06 12:41	EPA 200.9	JD	
Selenium	<0.005	0.05	mg/l	04/05/06 00:00	04/05/06 12:40	"	JD	
Zinc	0.024	5	mg/l	03/22/06 00:00	03/22/06 10:06	EPA 200.7	JD	

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Irene Chu

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project:	Sub Part 5	
21 Fox Street	Project No:	Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager:	Monian	04/07/06 09:46

AA	= Sample received after holding time expired. Sample analyzed at client's request . Unable to achieve required analytical sensitivity, due to interfering particulate in sample.
BNCH*	= Analysis performed by PA DEP#39-401, NY DOH#11827
Corr.	= For corrosivity a slight positive number usually indicates a non-corrosive condition, while a negative number tends toward corrosion.
EMSL*	= Analyzed by NYS DOH#11606, PA DEP#282
FCOL*	= Analysis performed by NYS DOH#10552, PA DEP#20-073
PACE*	= Analysis performed by NYS DOH #11647
pHD	= The maximum holding time is 1 hour according to NY ELAP or 15 minutes according to PA Critical Elements.
pHDW	= The MCL for pH is 6.4-8.5.
ROT	= Received and analyzed out of holding time.
SURR	= Surrogate recovery was outside method limits.
TB	= Trip Blank not analyzed - sample results did not exceed the MDL for this method.

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Irene Chu

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PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Total Coliform	
21 Fox Street	Project No: [none]	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:53

Silo Ridge PW-1
6C17087-01 (Drinking Water)

Date Sampled: 03/16/06 07:45
Date Received: 03/17/06 12:35

Analyte	Result	MCL	Analyzed	Method	Analyst	Notes
Total Coliform P/A by SM9223B						
Total Coliforms	Absence	Absence	03/17/06 12:45	SM18-9223B	KM	
E. Coli	Absence	Absence	"	"	KM	

Interpretation of Total Coliform results indicate that the sample was tested and is currently IN COMPLIANCE with the bacteriological drinking water standards, as established under the Safe Drinking Water Act of the Environmental Protection Agency.

Eastern Laboratory Services, Ltd.

Kimberly Murray

Reviewed by Kimberly Murray, Microbiology Supervisor

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CT PH-0318 MD 313
PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Total Coliform	
21 Fox Street	Project No: [none]	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:53

Silo Ridge PW-2
6C17087-02 (Drinking Water)

Date Sampled: 03/16/06 07:15
Date Received: 03/17/06 12:35

Analyte	Result	MCL	Analyzed	Method	Analyst	Notes
Total Coliform P/A by SM9223B						
Total Coliforms	Absence	Absence	03/17/06 12:45	SM18-9223B	KM	
E. Coli	Absence	Absence	"	"	KM	

Interpretation of Total Coliform results indicate that the sample was tested and is currently IN COMPLIANCE with the bacteriological drinking water standards, as established under the Safe Drinking Water Act of the Environmental Protection Agency.

Eastern Laboratory Services, Ltd.

Kimberly Murray

Reviewed by Kimberly Murray, Microbiology Supervisor

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CT PH-0318 MD 313
PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Total Coliform	
21 Fox Street	Project No: [none]	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:53

Silo Ridge PW-4
6C17087-03 (Drinking Water)

Date Sampled: 03/16/06 08:40
Date Received: 03/17/06 12:35

Analyte	Result	MCL	Analyzed	Method	Analyst	Notes
Total Coliform P/A by SM9223B						
Total Coliforms	Absence	Absence	03/17/06 12:45	SM18-9223B	KM	
E. Coli	Absence	Absence	"	"	KM	

Interpretation of Total Coliform results indicate that the sample was tested and is currently IN COMPLIANCE with the bacteriological drinking water standards, as established under the Safe Drinking Water Act of the Environmental Protection Agency.

Eastern Laboratory Services, Ltd.

Kimberly Murray

Reviewed by Kimberly Murray, Microbiology Supervisor

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CT PH-0318 MD 313
PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Total Coliform	
21 Fox Street	Project No: [none]	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:53

Silo Ridge PW-5
6C17087-04 (Drinking Water)

Date Sampled: 03/16/06 11:15
Date Received: 03/17/06 12:35

Analyte	Result	MCL	Analyzed	Method	Analyst	Notes
Total Coliform P/A by SM9223B						
Total Coliforms	Absence	Absence	03/17/06 12:45	SM18-9223B	KM	
E. Coli	Absence	Absence	"	"	KM	

Interpretation of Total Coliform results indicate that the sample was tested and is currently IN COMPLIANCE with the bacteriological drinking water standards, as established under the Safe Drinking Water Act of the Environmental Protection Agency.

Eastern Laboratory Services, Ltd.

Kimberly Murray

Reviewed by Kimberly Murray, Microbiology Supervisor

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CT PH-0318 MD 313
PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Total Coliform	
21 Fox Street	Project No: [none]	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:53

Silo Ridge PW-11
6C17087-05 (Drinking Water)

Date Sampled: 03/16/06 10:15
Date Received: 03/17/06 12:35

Analyte	Result	MCL	Analyzed	Method	Analyst	Notes
Total Coliform P/A by SM9223B						
Total Coliforms	Absence	Absence	03/17/06 12:45	SM18-9223B	KM	
E. Coli	Absence	Absence	"	"	KM	

Interpretation of Total Coliform results indicate that the sample was tested and is currently IN COMPLIANCE with the bacteriological drinking water standards, as established under the Safe Drinking Water Act of the Environmental Protection Agency.

Eastern Laboratory Services, Ltd.

Kimberly Murray

Reviewed by Kimberly Murray, Microbiology Supervisor

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CT PH-0318 MD 313
PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Total Coliform	
21 Fox Street	Project No: [none]	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Monian	04/07/06 09:53

Silo Ridge PW-9
6C17087-06 (Drinking Water)

Date Sampled: 03/16/06 10:40
Date Received: 03/17/06 12:35

Analyte	Result	MCL	Analyzed	Method	Analyst	Notes
Total Coliform P/A by SM9223B						
Total Coliforms	Absence	Absence	03/17/06 12:45	SM18-9223B	KM	
E. Coli	Absence	Absence	"	"	KM	

Interpretation of Total Coliform results indicate that the sample was tested and is currently IN COMPLIANCE with the bacteriological drinking water standards, as established under the Safe Drinking Water Act of the Environmental Protection Agency.

Eastern Laboratory Services, Ltd.

Kimberly Murray

Reviewed by Kimberly Murray, Microbiology Supervisor

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CT PH-0318 MD 313
PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Yong Wang	04/07/06 09:44

PW-2
6C17089-01 (Drinking Water)

Date Sampled: 03/16/06 09:15
Date Received: 03/17/06 13:04

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Radiologicals by EPA/SM/ASTM Methods								WST*
Gross Alpha	1.7+/-1.1	0	pCi/L	03/27/06 00:00	04/01/06 00:00	EPA 900		<MD, Alpha
Gross Beta	2.6+/-0.9	0	pCi/L	03/27/06 00:00	"	EPA 900.0		Beta
Radium 226	1.15+/-0.3	0	pCi/L	03/28/06 00:00	03/31/06 00:00	7500 RaB Mod.		Radiu
Radium 228	1.3+/-1.29	0	pCi/L	03/30/06 00:00	04/03/06 00:00	EPA 904.0		Radiu
Radon	560	40000	pCi/L	03/21/06 00:00	03/21/06 00:00	SM 7500 Rn-B		

<MD = Analyte detected below quantitation limit.
ACCU* = Analysis performed by NYS DOH #11769, PA DEP #19-36
Alpha = The MCL for Gross Alpha is 15 pCi/L after exclusion of Uranium.
Beta = The MCL is 50 pCi/L with an actual of 4 mrem/year using the assumption that this is in compliance and no man made radioactive material is present.
Radiu = Radium 226 and 228 combined has a MCL of 5.
WST* = Analysis performed by NYS DOH #11179, PA DEP #68757.

PW-4
6C17089-02 (Drinking Water)

Date Sampled: 03/16/06 08:40
Date Received: 03/17/06 13:04

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Radiologicals by EPA/SM/ASTM Methods								WST*
Gross Alpha	2.3+/-1.4	0	pCi/L	03/27/06 00:00	04/01/06 00:00	EPA 900		<MD, Alpha
Gross Beta	6.5+/-1.1	0	pCi/L	03/27/06 00:00	"	EPA 900.0		Beta
Radium 226	0.21+/-0.16	0	pCi/L	03/28/06 00:00	03/31/06 00:00	7500 RaB Mod.		<MD, Radiu
Radium 228	-1.0+/-1.26	0	pCi/L	03/30/06 00:00	04/03/06 00:00	EPA 904.0		<MD, Radiu
Radon	1700	40000	pCi/L	03/21/06 00:00	03/21/06 00:00	SM 7500 Rn-B		

<MD = Analyte detected below quantitation limit.
ACCU* = Analysis performed by NYS DOH #11769, PA DEP #19-36
Alpha = The MCL for Gross Alpha is 15 pCi/L after exclusion of Uranium.
Beta = The MCL is 50 pCi/L with an actual of 4 mrem/year using the assumption that this is in compliance and no man made radioactive material is present.
Radiu = Radium 226 and 228 combined has a MCL of 5.
WST* = Analysis performed by NYS DOH #11179, PA DEP #68757.

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

The results in this report apply to the samples, as received by the laboratory, analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. The test results meet all requirements of NELAC.

PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Yong Wang	04/07/06 09:44

PW-5
6C17089-03 (Drinking Water)

Date Sampled: 03/16/06 11:15
Date Received: 03/17/06 13:04

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Radiologicals by EPA/SM/ASTM Methods								WST*
Gross Alpha	12.7+/-3.1	0	pCi/L	03/27/06 00:00	04/01/06 00:00	EPA 900		Alpha
Gross Beta	16.7+/-1.7	0	pCi/L	03/27/06 00:00	"	EPA 900.0		Beta
Radium 226	0.30+/-0.13	0	pCi/L	03/28/06 00:00	03/31/06 00:00	7500 RaB Mod.		Radiu
Radium 228	2.5+/-1.42	0	pCi/L	03/30/06 00:00	04/03/06 00:00	EPA 904.0		Radiu
Radon	1500	40000	pCi/L	03/21/06 00:00	03/21/06 00:00	SM 7500 Rn-B		

ACCU* = Analysis performed by NYS DOH #11769, PA DEP #19-36
Alpha = The MCL for Gross Alpha is 15 pCi/L after exclusion of Uranium.
Beta = The MCL is 50 pCi/L with an actual of 4 mrem/year using the assumption that this is in compliance and no man made radioactive material is present.
Radiu = Radium 226 and 228 combined has a MCL of 5.
WST* = Analysis performed by NYS DOH #11179, PA DEP #68757.

PW-9
6C17089-04 (Drinking Water)

Date Sampled: 03/16/06 10:40
Date Received: 03/17/06 13:04

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Radiologicals by EPA/SM/ASTM Methods								WST*
Gross Alpha	1.4+/-1	0	pCi/L	03/27/06 00:00	04/01/06 00:00	EPA 900		<MD, Alpha
Gross Beta	3.0+/-0.9	0	pCi/L	03/27/06 00:00	"	EPA 900.0		Beta
Radium 226	0.35+/-0.18	0	pCi/L	04/03/06 00:00	04/06/06 00:00	7500 RaB Mod.		Radiu
Radium 228	2.0+/-1.11	0	pCi/L	03/30/06 00:00	04/03/06 00:00	EPA 904.0		Radiu
Radon	1200	40000	pCi/L	03/21/06 00:00	03/21/06 00:00	SM 7500 Rn-B		

<MD = Analyte detected below quantitation limit.
ACCU* = Analysis performed by NYS DOH #11769, PA DEP #19-36
Alpha = The MCL for Gross Alpha is 15 pCi/L after exclusion of Uranium.
Beta = The MCL is 50 pCi/L with an actual of 4 mrem/year using the assumption that this is in compliance and no man made radioactive material is present.
Radiu = Radium 226 and 228 combined has a MCL of 5.
WST* = Analysis performed by NYS DOH #11179, PA DEP #68757.

PW-11
6C17089-05 (Drinking Water)

Date Sampled: 03/16/06 10:15
Date Received: 03/17/06 13:04

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

The results in this report apply to the samples, as received by the laboratory, analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. The test results meet all requirements of NELAC.

PA 08380 NY 11216

Certificate of Analysis

Chazen Companies	Project: Sub Part 5	
21 Fox Street	Project No: Silo Ridge/10454.01	**Reported:**
Poughkeepsie NY, 12601	Project Manager: Yong Wang	04/07/06 09:44

Radiologicals by EPA/SM/ASTM Methods

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	WST*
Gross Alpha	0.8+/-0.9	0	pCi/L	03/27/06 00:00	04/01/06 00:00	EPA 900	<MD, Alpha
Gross Beta	2.4+/-0.8	0	pCi/L	03/27/06 00:00	"	EPA 900.0	Beta
Radium 226	0.13+/-0.1	0	pCi/L	04/03/06 00:00	04/06/06 00:00	7500 RaB Mod.	Radiu
Radium 228	2.9+/-1.9	0	pCi/L	03/30/06 00:00	04/03/06 00:00	EPA 904.0	Radiu
Radon	2200	40000	pCi/L	03/21/06 00:00	03/21/06 00:00	SM 7500 Rn-B	

<MD = Analyte detected below quantitation limit.
ACCU* = Analysis performed by NYS DOH #11769, PA DEP #19-36
Alpha = The MCL for Gross Alpha is 15 pCi/L after exclusion of Uranium.
Beta = The MCL is 50 pCi/L with an actual of 4 mrem/year using the assumption that this is in compliance and no man made radioactive material is present.
Radiu = Radium 226 and 228 combined has a MCL of 5.
WST* = Analysis performed by NYS DOH #11179, PA DEP #68757.

PW-1 Clubhouse Well
6C17089-06 (Drinking Water)

Date Sampled: 03/16/06 07:45
Date Received: 03/17/06 13:04

Radiologicals by EPA/SM/ASTM Methods

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Gross Alpha	3.0+/-1.5	0	pCi/L	03/27/06 00:00	04/01/06 00:00	EPA 900		WST* Alpha
Gross Beta	3.6+/-0.9	0	pCi/L	03/27/06 00:00	"	EPA 900.0		Beta
Radium 226	0.33+/-0.15	0	pCi/L	04/03/06 00:00	04/06/06 00:00	7500 RaB Mod.		Radiu
Radium 228	1.6+/-1.51	0	pCi/L	03/30/06 00:00	04/06/06 17:44	EPA 904.0		Radiu
Radon	1300	40000	pCi/L	03/21/06 00:00	03/21/06 00:00	SM 7500 Rn-B		

ACCU* = Analysis performed by NYS DOH #11769, PA DEP #19-36
Alpha = The MCL for Gross Alpha is 15 pCi/L after exclusion of Uranium.
Beta = The MCL is 50 pCi/L with an actual of 4 mrem/year using the assumption that this is in compliance and no man made radioactive material is present.
Radiu = Radium 226 and 228 combined has a MCL of 5.
WST* = Analysis performed by NYS DOH #11179, PA DEP #68757.

Eastern Laboratory Services, Ltd.

Irene Chu

Reviewed by Irene Chu, Laboratory Director

The results in this report apply to the samples, as received by the laboratory, analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. The test results meet all requirements of NELAC.

PA 08380 NY 11216

APPENDIX C – MPA ANALYSES

PW-2

ENVIRONMENTAL ASSOCIATES LTD. Water Source ID Sheet

Name of Next-Day Service	Tracking Number	Date Shipped

SEND ALL SAMPLES FOR NEXT-DAY DELIVERY BY UPS or FED.EX . (Please Do Not Use Fed Ex. Pickup Code)

Client Information

City/ Utility Elo Ridge Country Club	Agency/Engineering Firm Chazen
Contact Person Robert Caeners	Contact Person Dan Michaud
Address Rte. 22 Amenia, NY	Address 21 Fox Street Poughkeepsie, NY 12601
Phone	Phone (845) 454-3980
FAX	FAX (845) 454-9026
Send report to above address Yes No X	Send report to above address Yes X No

Billing Information

NOTE: -----> To Insure Proper Billing Please Include P.O.# !!

Address is the same as City/ Utility ☐ Agency/Engineering Firm ☐ (Check one only)

If address is different, please make changes below.

Office	Purchase Order No. E07471
Contact Person	Are Voucher Forms Required Yes No X
Address	If voucher is needed, it must be furnished with this form. Req. #
Phone	FAX# Special Instructions

Sample Information

NOTE: -----> *The total number of gallons sampled must be** * recorded for us to process samples.

	Meter Reading
Collector of Sample Dan Michaud	
Date Sampled 3/16/06	Finish [illegible]
Water Source Location PW-2	Start
Sample Taken From Sample Tap @ well	Total Gallons -->

Water Source ID

In order to speed sample processing please fill out this section. (please indicate with a mark)

Tests Requested:		Select Method:		Select Method:
Drinking Water:	Giardia & Cryptosporidium:	EPA-ICR X		EPA1623
	Enteric Virus Analysis:	EPA-ICR		Other
	Microscopic Particle Analysis to Determine Filter Plant Efficiency			
	Microscopic Particle Analysis to determine Groundwater under Surface Water Influence	X		
	Microscopic Particle Analysis to Characterize Source Water			
	Algal Analysis	Laser Particle Counting		Other
Waste Water & Biosolids:	Enteric Viruses	Salmonella		Coliform
	Helminth Ova	Coliphage		Giardia & Crypto.

I	Surface Water:	Impoundment	River	Other		
II	Filtered Water:	Type Filter Plant				
III	Ground Water:	Spring	Infill Gallery	Artesian Well	Dug Well	
		If Well: X	Depth 465'	Distance From River/Stream/Lake	50 feet	
IV	Waste Water:	Influent	Effluent	Biosolid		

Field Measurements	Date	Turbidity	pH	~~Total Cl~~	~~Free Cl~~	Water Temp	~~TC/100ml~~	~~FC/100ml~~	~~HPC/ml~~
Setup 3/15/06	3/15/06	clear	6.23	75 (us)		9.24			
Pickup 3/16/06	3/16/06	clear	6.70	198 (us)		9.80			
Comments									

*** PLEASE INDICATE WHETHER RUSH SERVICE IS REQUIRED***				Please indicate the requested rush service:	1 day	2 days
					3 days	Weekend
Telephone Result	Yes	No	Telephone No.			
FAX Result	Yes	No	FAX No.			

MAIN OFFICE
24 Oak Brook Drive • Ithaca, NY 14850 • (607) 272-8902 • Fax (607) 256-7092 • www.EAL-Labs.com • E-Mail: SusanBoutros@EAL-Labs.com

REPORT: PARTICULATES, GIARDIA, AND CRYPTOSPORIDIUM

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

Filter ID: 24208 Client: The Chazen Companies

Station/Body of water: PW-2

RECEIPT OF FILTER:

Date Received: 3/17/2006 # of filters: 2 Type: 1µm Carrier: UPS Overnight

COLLECTION:

Collector: Dan Michaud Date collected: 3/16/2006
Temperature: 9.80 °C Turbidity: ----
Water Type: Ground Water

FILTER PROCESSING

Color of water around filter: cloudy Total volume of sediment: 3 ml
Filter color: grey Volume of sediment/100 gallons: 0.4 ml/100gal.
Color of sediment: grey IFA equivalent liter volume examined: 227l
gallons filtered: 840 Phase equivalent gallon volume examined: 58gal.

GIARDIA/CRYPTOSPORIDIUM

	# Observed	Calc. #/100 Gallons
Giardia cyst confirmed:	0	0
Giardia cyst presumptive :	0	0
Cryptosporidium oocyst confirmed:	0	0
Cryptosporidium oocyst presumptive:	0	0

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	R	2/100gal plant debris w/out chlorophyll

PROTOZOANS

	Quantity	Description
Other Coccidia	NF	
Other protozoans	NF	

ALGAE

Green Algae	M	33/100gal. Oocystis
Diatoms	NF	
Blue-Green Algae	NF	
Flagellated Algae	NF	

COMMENTS:

Sediment = to 227 liters examined by IFA for Giardia and Cryptosporidium was negative (limit of detection = < 1 cysts / 100 L). Primary surface water indicators observed: green algae. 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= 9 low risk).

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

PWS ID#	Well ID#	Utility Name	EAL Sample ID:
	PW-2	The Chazen Companies	24208

EPA Relative Surface Water Risk Factors

Date: 3/16/2006

Primary Particulates	#/100 gallon	Relative Frequency	Relative Risk Factor	Comments
Giardia (confirmed)	0	NF	0	
Coccidia (confirmed)	0	NF	0	
Diatoms	0	NF	0	
Other Algae	33	M	9	
Insects/larvae	0	NF	0	
Rotifers	0	NF	0	
Plant Debris (with chloro.)	0	NF	0	
		EPA Relative Risk = 9		Low Risk
Secondary Particulates				
Nematodes	0	NF		
Crustaceans	0	NF		
Amoeba	0	NF		
Non-photo. flag. & ciliates	0	NF		
Photosynthetic flagellates	0	NF		
Other:	2	R		no relative risk factor assigned

COMMENTS: Sediment = to 227 liters examined by IFA for Giardia and Cryptosporidium was negative (limit of detection = < 1 cysts / 100 L). Primary surface water indicators observed: green algae. 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= 9 low risk).

FERENCE: 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.

ORT REVIEWED BY: JHFreyaw DATE: April 10, 2006 Environmental Associates, Ltd.

PW-11

ENVIRONMENTAL ASSOCIATES LTD. Water Source ID Sheet

Name of Next-Day Service	Tracking Number	Date Shipped

SEND ALL SAMPLES FOR NEXT-DAY DELIVERY BY UPS or FED.EX. (Please Do Not Use Fed Ex. Pickup Code)

Client Information

City/ Utility	Silo Ridge Country Club
Contact Person	Rob Caeners
Address	Rte. 22 Amenia, NY
Phone	
FAX	
Send report to above address	Yes / No

Agency/Engineering Firm	Chazen
Contact Person	Dan Michaud
Address	21 Fox Street Poughkeepsie, NY 12601
Phone	(845) 454-3980
FAX	(845) 454-4026
Send report to above address	Yes ✓ / No

Billing Information

NOTE: -----> To Insure Proper Billing Please Include P.O.# !!

Address is the same as City/ Utility [ ] Agency/Engineering Firm [X] (Check one only)

If address is different, please make changes below.

Office	
Contact Person	
Address	
Phone	

Purchase Order No.	EO7471
Are Voucher Forms Required	Yes / No X
If voucher is needed, it must be furnished with this form.	Req. #
FAX#	Special Instructions

Sample Information

Collector of Sample	Dan Michaud
Date Sampled	3/16/06
Water Source Location	PW-11
Sample Taken From	Sample Tap @ well

NOTE: -----> *The total number of gallons sampled must be** * recorded for us to process samples.

Meter Reading	
Finish	
Start	
Total Gallons -->	

Water Source ID

In order to speed sample processing please fill out this section. (please indicate with a mark)

Tests Requested:		Select Method:	Select Method:
Drinking Water:	Giardia & Cryptosporidium:	EPA-ICR X	EPA1623
	Enteric Virus Analysis:	EPA-ICR	Other
	Microscopic Particle Analysis to Determine Filter Plant Efficiency		
	Microscopic Particle Analysis to determine Groundwater under Surface Water Influence	X	
	Microscopic Particle Analysis to Characterize Source Water		
	Algal Analysis	Laser Particle Counting	Other
Waste Water & Biosolids:	Enteric Viruses	Salmonella	Coliform
	Helminth Ova	Coliphage	Giardia & Crypto.

I	Surface Water:	Impoundment	River	Other		
II	Filtered Water:	Type Filter Plant				
III	Ground Water:	Spring	Infill Gallery	Artesian Well	Dug Well	
		If Well: X	Depth 405'	Distance From River/Stream/Lake	~100 feet	
IV	Waste Water:	Influent	Effluent	Biosolid		

Field Measurements	Date	Turbidity	pH	Total Cl	Free Cl	Water Temp	TC/100ml	FC/100ml	HPC/ml
Setup	3/15/06	Clear	7.25	71 (ULS)		~~10.0~~ 9.5 °C			
Pickup	3/16/06	clear	6.82	136 (ULS)		8.7 °C			
Comments									

*** PLEASE INDICATE WHETHER RUSH SERVICE IS REQUIRED***			1 day	2 days
		Please indicate the requested rush service:	3 days	Weekend
Telephone Result	Yes	No	Telephone No.	
FAX Result	Yes	No	FAX No.	

MAIN OFFICE
24 Oak Brook Drive • Ithaca, NY 14850 • (607) 272-8902 • Fax (607) 256-7092 • www.EAL-Labs.com • E-Mail: SusanBoutros@EAL-Labs.com

REPORT: PARTICULATES, GIARDIA, AND CRYPTOSPORIDIUM

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

Filter ID: 24209 Client: The Chazen Companies

Station/Body of water: PW-11

RECEIPT OF FILTER:

Date Received: 3/17/2006 # of filters: 2 Type: 1µm Carrier: UPS Overnight

COLLECTION:

Collector: Dan Michaud
Temperature: 8.71 °C
Water Type: Ground Water
Date collected: 3/16/2006
Turbidity: ------

FILTER PROCESSING

Color of water around filter: cloudy
Filter color: grey
Color of sediment: tan
gallons filtered: 840
Total volume of sediment: 0.8 ml
Volume of sediment/100 gallons: 0.1 ml/100gal.
IFA equivalent liter volume examined: 227l
Phase equivalent gallon volume examined: 8gal.

GIARDIA/CRYPTOSPORIDIUM

	# Observed	Calc. #/100 Gallons
Giardia cyst confirmed:	0	0
Giardia cyst presumptive :	0	0
Cryptosporidium oocyst confirmed:	0	0
Cryptosporidium oocyst presumptive:	0	0

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	EH	964/100gal. Botryococcus
Diatoms	EH	452/100gal. Melosira, Pinnularia, Tabellaria
Blue-Green Algae	NF	
Flagellated Algae	R	12/100gal. Chlorella

COMMENTS:

Sediment = to 227 liters examined by IFA for Giardia and Cryptosporidium was negative (limit of detection = < 1 cysts / 100 L). Primary surface water indicators observed: green algae and diatoms. Based upon microscopic particulate analysis and the proposed EPA risk factors associated with bio-indicators there is a high risk of surface contamination (EPA risk factors= 30 high risk).

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

PWS ID#	Well ID#	Utility Name	EAL Sample ID:
	PW-11	The Chazen Companies	24209

EPA Relative Surface Water Risk Factors

te: 3/16/2006

mary Particulates	#/100 gallon	Relative Frequency	Relative Risk Factor	Comments
rdia (confirmed)	0	NF	0	
ccidia (confirmed)	0	NF	0	
toms	452	EH	16	
ıer Algae	964	EH	14	
ects/larvae	0	NF	0	
ifers	0	NF	0	
nt Debris (with chloro.)	0	NF	0	
		EPA Relative Risk = 30		High Risk
condary Particulates				
natodes	0	NF		
staceans	0	NF		
oeba	0	NF		
-photo. flag. & ciliates	0	NF		
tosynthetic flagellates	12	R		no relative risk factor assigned
er:	0	NF		

MMENTS: Sediment = to 227 liters examined by IFA for Giardia and Cryptosporidium was negative (limit of detection = < 1 cysts / 100 L). Primary surface water indicators observed: green algae and diatoms. Based upon microscopic particulate analysis and the proposed EPA risk factors associated with bio-indicators there is a high risk of surface contamination (EPA risk factors= 30 high risk).

RENCE: 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.

L072892

vironmental Associates Ltd. certifies that all quality control elements, as required by NELAP, associated with the above data have been met.

REVIEWED BY: DATE: April 10, 2006 Environmental Associates, Ltd.

04/10/2006 08:46 6072567092 EAL PAGE 05/07

Spring Pond

ENVIRONMENTAL ASSOCIATES LTD. Water Source ID Sheet

Name of Next-Day Service	Tracking Number	Date Shipped

SEND ALL SAMPLES FOR NEXT-DAY DELIVERY BY UPS or FED.EX. (Please Do Not Use Fed Ex. Pickup Code)

Client Information

City/ Utility	Slo Ridge Country Club
Contact Person	Robert Caenes
Address	Rte. 22 Amenia, NY
Phone	
FAX	
Send report to above address	Yes / No X

Agency/Engineering Firm	Chazen
Contact Person	Dan Michaud
Address	21 Fox Street Poughkeepsie, NY 12601
Phone	(845) 454-3980
FAX	(845) 454-4026
Send report to above address	Yes X / No

Billing Information

NOTE: -----> To Insure Proper Billing Please Include P.O.# !!

Address is the same as City/ Utility ☐ Agency/Engineering Firm ☐ (Check one only)

If address is different, please make changes below.

Office	
Contact Person	
Address	
Phone	

Purchase Order No.		
Are Voucher Forms Required	Yes	No
If voucher is needed, it must be furnished with this form.	Req. #	
FAX#	Special Instructions	

Sample Information

Collector of Sample	Dan Michaud
Date Sampled	3/16/00
Water Source Location	Spring Pond
Sample Taken From	

NOTE: -----> *The total number of gallons sampled must be** * recorded for us to process samples.

Meter Reading

Finish	
Start	
Total Gallons -->	

Water Source ID

In order to speed sample processing please fill out this section. (please indicate with a mark)

Tests Requested:		Select Method:	Select Method:
Drinking Water:	Giardia & Cryptosporidium:	EPA-ICR X	EPA1623
	Enteric Virus Analysis:	EPA-ICR	Other
	Microscopic Particle Analysis to Determine Filter Plant Efficiency		
	Microscopic Particle Analysis to determine Groundwater under Surface Water Influence		
	Microscopic Particle Analysis to Characterize Source Water		
	Algal Analysis	Laser Particle Counting	Other
Waste Water & Biosolids:	Enteric Viruses	Salmonella	Coliform
	Helminth Ova	Coliphage	Giardia & Crypto.

I	Surface Water:	Impoundment Pond	River	Other		
II	Filtered Water:	Type Filter Plant				
III	Ground Water:	Spring	Infill Gallery	Artesian Well	Dug Well	
		If Well:	Depth	Distance From River/Stream/Lake		
IV	Waste Water:	Influent	Effluent	Biosolid		

Field Measurements	Date	Turbidity	pH	Temp °F	Cond.	Water Temp	TC/100ml	FC/100ml	HPC/ml
Setup	3/16/00	Clear	7.02	79	(uS)	7.93			
Pickup	3/16/00	Clear	7.02	79	(uS)	7.92			
Comments									

*** PLEASE INDICATE WHETHER RUSH SERVICE IS REQUIRED***			Please indicate the requested rush service:	1 day	2 days	3 days	Weekend
Telephone Result	Yes	No	Telephone No.				
FAX Result	Yes	No	FAX No.				

MAIN OFFICE
24 Oak Brook Drive • Ithaca, NY 14850 • (607) 272-8902 • Fax (607) 256-7092 • www.EAL-Labs.com • E-Mail: SusanBoutros@EAL-Labs.com

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

Laboratory Results
for Microscopic Particulate Analysis

ACCOUNT NO. AD-7529
The Chazen Companies
21 Fox Street
Poughkeepsie NY 12601

CONTACT
Mr. Dan Michaud
Phone 1 (845) 454-3980 Fax 1 (845) 454-4026

P.O. No.

SAMPLE NO. 24210 | SAMPLE SITE: SPRING POND | CLIENT IDENTIFICATION

SAMPLE DATA

FILTER SAMPLE

WATER TYPE ..... Surface water
DATE COLLECTED ..... Mar 16, 2006
DATE RECEIVED ..... Mar 17, 2006
RECEIPT TEMPERATURE ... 3.4°C
ELUTION START DATE/TIME .. Mar 17, 2006 11:00am
TOTAL VOLUME OF SEDIMENT ..... 6 ml
SEDIMENT PER UNIT VOLUME 1.6 ml/100L
PHASE EQUIVALENT VOLUME 0.2L

SAMPLE COLLECTOR ..... Dan Michaud
AMOUNT COLLECTED .... 100 gal (378.54 L)
TURBIDITY ..... data not submitted
pH 7.62
FILTER COLOR ..... brown

SAMPLE NOTES
Sample condition was acceptable.

ANALYSIS TYPE

EXAMINED
SW ICR

METHOD MPA for Filtration Plant Optimization (MPA/FPO)(EPA/910/R/96/001)

Method Remarks MPA/FPO compares type, size, & quantities of particles in raw water and treated water. Particle count/size distribution was performed on sample concentrate by Met-One Particle Counter.

RESULTS

SEDIMENT COMPOSITION
Particle size in µm

Average Diameter of Algae: 6.9 µm

Particle Sizes

2 to 5 µm	6.12E8 PER 100L
5 to 10 µm	2.61E8 PER 100L
10 to 20 µm	1.17E8 PER 100L
20 to 100 µm	8.93E5 PER 100L
Total Particles	**9.9E8** PER 100L

ANALYSIS OF PARTICULATES

ALGAE	Rating	Description
Green Algae	R	2.32E7/100L Chlorella, Ankistrodesmus, Microspora
Blue-Green Algae	R	8.24E7/100L Oscillatoria, Anabaena
Diatoms	R	1.33E8/100L Navicula, Synedra, Achnanthes
Flagellated Algae	R	6.34E6/100L Dinobryon

PROTOZOANS	
Other Coccidia	ND
Other Protozoans	ND

TOTAL ALGAE PER 100L 2.45E8

PARTICULATE DEBRIS	Rating	Description
Large particles ≥5µm	EH	silt & sand
Small particles ≤ 5µm	EH	fine amorphous debris
Plant debris	ND	

OTHER ORGANISMS	
Rotifers	ND
Rotifer Eggs	ND
Iron Bacteria	ND
Crustaceans	ND
Crustacean Parts	ND
Crustacean Eggs	ND
Insects	ND
Nematodes	ND
Nematode eggs	ND
Annelids	ND
Other	ND

Rating Key†
(EH) Extremely Heavy >20 per field
(H) Heavy 10-20 per field
(M) Moderate 4-9 per field
(R) Rare <1-3 per field
(ND) None Detected 0 per field
†Analysis at 100X

COMMENTS
All limitations of analytical methods, laboratory dilutions, and instruments apply.

TECHNICIAN Dr. Madelyn Stafford-Glase ANALYSIS DATE April 7, 2006

REPORT CERTIFICATION BY Jeff Runyan DATE April 7, 2006

ENVIRONMENTAL ASSOCIATES LTD.
24 Oak Brook Drive · Ithaca · NY · 14850-8717 · Phone (607) 272-8902 · Fax (607) 256-7092

Laboratory Results
for *Giardia* & *Cryptosporidium* Analysis

ACCREDITED IN ACCORDANCE WITH nelac

ACCOUNT NO. AD-7529

The Chazen Companies
21 Fox Street
Poughkeepsie NY 12601

CONTACT
Mr. Dan Michaud
1 (845) 454-3980 FAX 1 (845) 454-4026

P.O. NO.

SAMPLE NO. 24210 | SAMPLE SITE: SPRING POND | CLIENT IDENTIFICATION:

SAMPLE DATA

FILTER SAMPLE

WATER TYPE:	Surface water	SAMPLE COLLECTOR:	Dan Michaud
DATE COLLECTED:	Mar 16, 2006	AMOUNT COLLECTED:	100 gal (378.54 L)
DATE RECEIVED:	Mar 17, 2006	TURBIDITY:	data not submitted
RECEIPT TEMPERATURE:	3.4°C	pH:	7.62
ELUTION START DATE/TIME:	Mar 17, 2006 11:00am	FILTER COLOR:	brown
TOTAL VOLUME OF SEDIMENT:	6 ml		
SEDIMENT PER UNIT VOLUME:	1.6 ml/100L		

SAMPLE NOTES: Sample condition was acceptable.

ANALYSIS TYPE

SW ICR

METHOD ICR Protozoan Method (EPA/600/R-95/178)

Method Remarks
ICR Protozoan Method employs an immunofluorescent stain for Giardia and Cryptosporidium. Positive and Negative Controls were stained and examined concurrently.

RESULTS

	ANALYTE	Cysts Observed	Result per 100L
Giardia	Empty *Giardia* Cysts Detected	0	ND
	Giardia Cysts with Amorphous Structure	0	ND
	Giardia Cysts with One Internal Structure	0	ND
	Giardia Cysts with More than One Internal Structure	0	ND
	Total IFA *Giardia* Count per 100L	**0**	**ND**

	ANALYTE	Oocysts Observed	Result per 100L
Cryptosporidium	Empty *Cryptosporidium* Oocysts Detected	0	ND
	Cryptosporidium Oocysts with Amorphous Structure	0	ND
	Cryptosporidium Oocysts with Internal Structure	0	ND
	Total IFA *Cryptosporidium* Count per 100L	**0**	**ND**

EQUIVALENT VOLUME EXAMINED: 32 L | DETECTION LIMIT PER 100L: <3.13

COMMENTS: All limitations of analytical methods, laboratory dilutions, and instruments apply.

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

TECHNICIAN Jeff Runyan, Senior Analyst DATE COMPLETED March 24, 2006

ANALYSIS CERTIFIED BY Jeff Runyan DATE CERTIFIED April 7, 2006

REPORT: PARTICULATES, GIARDIA, AND CRYPTOSPORIDIUM

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

Filter ID: 26927 Client: The Chazen Companies

Station/Body of water: MW11-Sample tap

RECEIPT OF FILTER:

Date Received: 4/26/2007 # of filters: 2 Type: 1µm Carrier: DHL

COLLECTION:

Collector: Colleen Wells Date collected: 4/25/2007
Temperature: 11.14 °C Turbidity: ------
Water Type: Ground Water

FILTER PROCESSING

Color of water around filter: clear Total volume of sediment: 0.01 ml
Filter color: white Volume of sediment/100 gallons: 0.002 ml/100gal.
Color of sediment: tan IFA equivalent liter volume examined: 100.1L
gallons filtered: 538.75 Phase equivalent gallon volume examined: 102gal.

GIARDIA/CRYPTOSPORIDIUM	# Observed	Calc. #/100 Gallons
Giardia cyst confirmed:	0	0
Giardia cyst presumptive :	0	0
Cryptosporidium oocyst confirmed:	0	0
Cryptosporidium oocyst presumptive:	0	0

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	H	fine silt & sand
Small part. up to 5 µm	EH	fine brown amorphous
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:

Sediment = to 100.1 liters examined by IFA for Giardia and Cryptosporidium was negative (limit of detection = < 1 cysts / 100 L). 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).

Environmental Associates Ltd. certifies that all quality control elements, as required by NELAP, associated with

PWS ID#	Well ID#	Utility Name	EAL Sample ID:
	MW11-Sample tap	The Chazen Companies	26927

EPA Relative Surface Water Risk Factors

e: 4/25/2007

ıary Particulates	#/100 gallon	Relative Frequency	Relative Risk Factor	Comments
dia (confirmed)	0	NF	0	
cidia (confirmed)	0	NF	0	
oms	0	NF	0	
er Algae	0	NF	0	
cts/larvae	0	NF	0	
fers	0	NF	0	
ıt Debris (with chloro.)	0	NF	0	
		EPA Relative Risk = 0		Low Risk
ondary Particulates				
ıatodes	0	NF		
staceans	0	NF		
oeba	0	NF		
-photo. flag. & ciliates	0	NF		
tosynthetic flagellates	0	NF		
er:	0	NF		

MMENTS: Sediment = to 100.1 liters examined by IFA for Giardia and Cryptosporidium was negative (limit of detection = < 1 cysts / 100 L). 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).

ERENCE: 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.

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vironmental Associates Ltd. certifies that all quality control elements, as required by NELAP, associated with the above data have been met.

T REVIEWED BY: Jeff Bryan DATE: May 9, 2007 Environmental Associates, Ltd.

REPORT: PARTICULATES, GIARDIA, AND CRYPTOSPORIDIUM

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

Filter ID: 26928 Client: The Chazen Companies

Station/Body of water: Well 9-Sample tap

RECEIPT OF FILTER:

Date Received: 4/26/2007 # of filters: 2 Type: 1µm Carrier: DHL

COLLECTION:

Collector: Colleen Wells Date collected: 4/25/2007
Temperature: 11.58 °C Turbidity: ------
Water Type: Ground Water

FILTER PROCESSING

Color of water around filter: clear Total volume of sediment: 0.1 ml
Filter color: off-white Volume of sediment/100 gallons: 0.02 ml/100gal
Color of sediment: tan IFA equivalent liter volume examined: 100.1l
gallons filtered: 528.75 Phase equivalent gallon volume examined: 100gal

GIARDIA/CRYPTOSPORIDIUM	# Observed	Calc. #/100 Gallons
Giardia cyst confirmed:	0	0
Giardia cyst presumptive :	0	0
Cryptosporidium oocyst confirmed:	0	0
Cryptosporidium oocyst presumptive:	0	0

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	H	fine silt & sand
Small part. up to 5 µm	H	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:

Sediment = to 100.1 liters examined by IFA for Giardia and Cryptosporidium was negative (limit of detection = < 1 cysts / 100 L). 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).

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PWS ID#	Well ID#	Utility Name	EAL Sample ID:
	Well 9-Sample tap	The Chazen Companies	26928

EPA Relative Surface Water Risk Factors

e: 4/25/2007

nary Particulates	#/100 gallon	Relative Frequency	Relative Risk Factor	Comments
rdia (confirmed)	0	NF	0	
cidia (confirmed)	0	NF	0	
oms	0	NF	0	
er Algae	0	NF	0	
cts/larvae	0	NF	0	
ifers	0	NF	0	
nt Debris (with chloro.)	0	NF	0	
		EPA Relative Risk = 0		Low Risk

ondary Particulates			
natodes	0	NF	
staceans	0	NF	
oeba	0	NF	
n-photo. flag. & ciliates	0	NF	
otosynthetic flagellates	0	NF	
er:	0	NF	

MMENTS: Sediment = to 100.1 liters examined by IFA for Giardia and Cryptosporidium was negative (limit of detection = < 1 cysts / 100 L). 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).

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RT REVIEWED BY: DATE: May 9, 2007 Environmental Associates, Ltd.