APPENDIX G

HYDROGEOLOGY
AND
AQUIFER IMPACT ASSESSMENT REPORT

PROPOSED WARWICK VIEWS SUBDIVISION
72-HOUR PUMPING TESTS OF WELLS 1, 2 AND 5
AQUIFER IMPACT ASSESSMENT
TOWN OF WARWICK, NEW YORK

Prepared For:

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PROPOSED WARWICK VIEWS SUBDIVISION
72-HOUR PUMPING TESTS OF WELLS 1, 2 AND 5
AQUIFER IMPACT ASSESSMENT
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INTRODUCTION

The following are the results of the Aquifer Impact Assessment and related 72-hour pumping test events completed by Leggette, Brashears & Graham, Inc. (LBG) on Wells 1, 2 and 5 located on the Warwick View study parcel on Blooms Corners Road in Warwick, New York (figure 1). A portion of the study parcel lies within the Town of Warwick's Aquifer Overlay District (Plate 1), however no development is proposed within the District area.

The 72-hour pumping test on Wells 1 and 2 was completed between May 7, 2007 and May 10, 2007. Following the completion of the pumping test, Well 1 was determined to have potential impacts on the adjacent wetland feature. Test Wells 4 and 5 were subsequently drilled to find a suitable replacement for Well 1. Well 5 was determined be the most suitable replacement well and a pumping test was conducted September 10 through September 14, 2007.

Both pumping test programs followed the guidelines and requirements for the New York State Department of Environmental Conservation's (NYSDEC) "Recommended Pump Test Procedures for Water Supply Application", January 2002. The Pumping Test Programs were submitted to the Town of Warwick Engineer, Tectonic, prior to both test events for approval. Verbal permission to proceed was received prior to the start of the respective pumping tests.

ESTIMATED WATER DEMAND

The estimated average daily water demand for the 53 proposed single-family residences at 400 gpd per residence is 21,200 gpd (gallons per day) or about 14.7 gpm. The New York State Department of Health (NYSDOH) requires that the available water supply for the proposed development equal or exceed twice the average daily demand estimate. Therefore, the water supply must have the capacity to produce a minimum of 42,400 gpd or about 29.5 gpm. The NYSDOH requires proof of this supply with the most productive well out of service; therefore, a minimum of two sources was required for the proposed water supply.

HYDROGEOLOGIC SETTING

The proposed development is located on Blooms Corner Road in the northwestern portion of the Town of Warwick, Orange County, New York. Elevations on the property range from approximately 450 feet, in the central wetland area of the site, to 560 feet on the northern portion of the property. The site is characterized by gentle rolling hills on the southeastern side of the site and steeper, wooded terrain on the northwest side. A large wetland feature and northwesterly flowing stream bisect the central portion of the study parcel.

Surficial Soils

The Soil Survey of Orange County, New York indicates that the predominant soil types found on the property are the Farmington, Pittsfield, Erie, Madalin and Carlisle Series (1981). The Farmington Series, located mainly on the northwest portion of the site, consists of shallow, well drained, sloping soils formed in glacial till. The Pittsfield and Erie Series are located on the southeastern area of the property and consist of deep, well to somewhat poorly drained, nearly level to moderately sloping soils formed in glacial till. Glacial till is described as non-sorted, non-stratified sediments deposited by glacial activity. The sediments consist of varying amounts of clay, silt, sand, gravel and boulders. Till is generally not suitable for well development.

The Madalin and Carlisle Series are located in the central, wetland portion of the site. They are described as deep, poorly to very poorly drained, nearly level soils. The Madalin soils originate from glacial lake deposits and the Carlisle soils form in organic deposits in low depressional areas. Glacial lake deposits consist of well sorted layers of fine material, generally silt and clay. These deposits are generally not suitable for high yielding well development. This area has been mapped as a stratified-drift aquifer and coincides with the Town of Warwick's Aquifer Protection Overlay District (Plate 1).

Bedrock

Bedrock underlying the site consists of Calcite and Dolomite Marble on the northern and western portions of the property and the Wappinger Group, which consists of limestone and dolomite, under the remainder of the study parcel (plate 1).

The Wappinger Group unit consists of dark gray to gray-black limestone dolomite units and consists of the following formations:

- Balmville Limestone – limestone
- Rockdale Formation – limestone, dolomite
- Halcyon Lake Dolostone – calcareous, dolomite, cherty
- Briarcliff Dolostone – dolomite
- Pine Plains Formation – dolomite, shale
- Stissing Formation – dolomite, shale

The carbonate rock is relatively brittle and, under deformation stress, forms numerous open fractures. The limestone and dolomite are relatively soluble; consequently, the fractures in the bedrock are frequently widened by dissolution. The unit exhibits low to moderate permeability based on the porosity of the bedrock and secondary permeability caused by the presence of many interconnected fractures and dissolution cavities can be low to high.

The Calcite and Dolomite Marble consists of white-whitish gray calcite and dolomite marble. The unit is brittle and under deformational stress forms numerous open fractures. The marble exhibits low primary permeability based on the porosity of the bedrock and low to high secondary permeability caused by the presence of many interconnected fractures.

Local Recharge/Discharge Estimates

A ground-water balance compares the available recharge to a property with the estimated water-supply demand of a proposed development. This comparison determines if the property is self-sufficient in providing the water that will be required by the proposed development, or whether the proposed water demand exceeds the available recharge. If the projected demand exceeds the estimated available recharge, periodically ground-water recharge would have to be drawn from beyond the property boundaries. For sites with planned new development, water availability within the watershed becomes important to determine if the proposed demand would oversubscribe the available resources. If onsite recharge meets or exceeds the proposed demand, the water supply should be reliable and not adversely affect the aquifer in offsite areas. Although water-budget analyses are useful in estimating available ground water resources, drilling and testing supply wells is the only definitive indicator and confirmation of ground water availability from the aquifer source and any potential impacts to neighboring water supplies.

Recharge is generally related to precipitation, but the amount of rainfall, which becomes ground-water recharge, is difficult to measure directly. In Orange County, the average precipitation is about 43 inches per year (LBG, 2003). About half this amount is lost to evaporation and transpiration processes; the remainder is available to become surface-water and ground-water runoff. Ground-water recharge results from the portion of total rainfall and snowmelt that infiltrates the soil and overburden materials. A portion of the total runoff that infiltrates into the soil and overburden materials eventually recharges the bedrock fracture system and is available for capture by bedrock wells.

LBG has conducted extensive reviews of several published studies to develop estimates of ground-water recharge to aquifers in Orange County for the Orange County Water Authority (LBG 1995, LBG 2003).

The most appropriate study to apply to the subject area is the 1980 report developed for the Fishkill-Beacon area (Snavely, 1980) which indicates that recharge to the till-covered metasedimentary bedrock is approximately 400,000 gpd/sq. mi. (gallons per day per square mile) or about 8 inches annually. This recharge to bedrock represents approximately 19 percent of the average annual local precipitation. Recharge directly to the 249.9-acre contiguous study parcel would indicate recharge under normal conditions to the bedrock aquifer to be about 156,190 gpd. The average one-year-in-30 drought record for Orange County indicates average precipitation of 29.5 inches (LBG, 2003). The average drought precipitation is approximately 69 percent of the average annual precipitation in Orange County which indicates recharge would be reduced to about 107,770 gpd for the study parcel. The recharge estimate significantly exceeds the estimated average water demands (21,200 gpd) for the proposed residential development under both normal and drought conditions.

Onsite Test Wells

Test Wells 1, 2, 3, 4 and 5 are located on the Warwick Views study parcel. The wells were drilled by Turnbull Well Drilling Associates, LLC (Turnbull). Wells 1, 2, 4 and 5 were drilled as proposed test wells for the project under the supervision of LBG, from February to July 2007. Well 3 was drilled by the applicant prior to purchase of the property, for due diligence purposes. Well 3 was not considered for water supply development due to the marginal yield.

The following table summarizes the available well completion details for the onsite wells and the driller's well completion reports are included in Appendix I.

Well ID	Date Completed	Casing Length (feet)	Total Depth (feet)	Estimate Yield (gpm)
Well 1	2/21/2007	100	250	75
Well 2	2/24/2007	100	200	100+
Well 3	3/2006	40	500	15
Well 4	6/12/2007	202	260	100
Well 5	7/3/2007	160	340	75

gpm Gallons per minute

SEWAGE RENOVATION

Individual septic systems are proposed for the 53 single-family homes on the study property. Nitrogen and phosphate levels in the soil can rise as a result of the additional load from the septic leachfields, potentially impacting surface-water bodies, wetlands and neighboring wells. The following sections estimate the increase in nitrogen and phosphate concentrations associated with the proposed subdivision and potential impacts to the ground-water environment.

Nitrogen Dilution

Nitrogen originates in domestic sewage as ammonia nitrogen and organic nitrogen from human waste products. Based on research studies, domestic sewage typically contains about 40 mg/l (milligrams per liter) of nitrogen, of which 40 percent is lost to the atmosphere as ammonia and nitrogen gas from the anaerobic septic tank and leaching facility or is trapped in the septic-tank sludge, and about 60 percent, or about 24 mg/l, is released to the ground by the leaching facility (Healy & May, 1982). When ammonia and organic nitrogen reaches the aerobic ground water, it is rapidly transformed by an oxidizing process known as nitrification to unstable nitrite-nitrogen (NO_2) and then to the highly stable nitrate-nitrogen ion (NO_3). Nitrate-nitrogen is the common limiting factor in the volume of sewage that a property can accept without causing the receiving ground water to exceed a drinking water standard.

By comparing the amount of nitrogen in the sewage discharged to the ground-water system to the amount of recharge to the local ground water, the long-term steady state nitrogen concentration in the ground water can be calculated by the simple and conservative mass-balance equation:

$$N = \frac{[Q_s \times N_s] + [Q_p \times N_p]}{[Q_s + Q_p]}$$

in which:

N	=	the resultant steady-state concentration of nitrate-nitrogen in ground water in mg/l as nitrogen (N);
Q_s	=	the volume of sewage in gpd;
N_s	=	the nitrogen concentration of the sewage discharge from the leaching facility, in mg/l;
Q_p	=	the average rate of recharge to the ground water on the available land, in gpd; and
N_p	=	the average nitrogen concentration in local precipitation, in mg/l, taken as 0.7 mg/l for this suburban area

The average rate of recharge to the shallow glacial till soils located on the site is conservatively estimated as approximately 8 inches annually. The approximate 100-acres of wetland area located on the central and eastern portion of the site is mapped as silt and clay stratified drift. Because of the potential for standing water in this area, the infiltration rate for precipitation for this portion of the site has been conservatively estimated to be zero.

Inputting the site-specific values described above, the steady-state nitrate-nitrogen concentration in the ground water at the site becomes 5.0 mg/l. The NYSDOH maximum concentration level (MCL) for nitrate in drinking water is 10 mg/l, so the estimated impact, not considering wetland nitrate attenuation, is well within the acceptable range.

This nitrate concentration was calculated assuming that the ground water available for dilution is limited to direct precipitation on the subdivision property. However, the total ground water actually available for dilution is not limited to direct precipitation within the property

boundary, but would include ground-water recharge from the watershed to the study parcel. Consequently, the calculated nitrate-nitrogen concentration would be even less than reported.

Phosphorus Adsorption

Phosphorus, in the form of phosphates, is common in soaps and detergents. Normal domestic sewage contains an average of about 20 mg/l of phosphorus. About 40 percent of this quantity is retained in the septic tank sludge and leachfield system, with the remaining 60 percent delivered to the soil by the leaching facility (Healy & May, 1982). After the wastewater leaves the leaching facility, the phosphorus is readily adsorbed on fine particles of soil by molecular attraction. Research literature has shown that the adsorbed phosphorus combines with iron, calcium and/or aluminum in the soil within four to six months to form less soluble precipitates, in effect regenerating the sorption capacity of the soil to adsorb more phosphorus (Sahwney & Hill, 1975).

Soils beneath the proposed development are derived from glacial till and contain an abundance of fine particles to provide adsorption sites. The literature provides phosphorus sorption capacities for glacial till ranging from 10 to 30 milligram per 100 gram of soil. The range is due to the differing percentages of fine particles present in the soil. A higher silt and clay content corresponds with a greater sorption rate.

Assuming a conservative sewage flow of 400 gpd and a phosphorus content of 20 mg/l, each proposed house would generate about 5.5 kg (kilograms) of phosphorus in a six-month period, of which 60 percent or 3.3 kg would be delivered to the soil. Depending on the design and configuration of the septic galleries and leaching fields, the phosphorus generated from sewage deposable should be adsorbed within a maximum of 10 feet horizontally and 1.0 feet vertical from its point of origin.

PUMPING TEST PROGRAM-WELLS 1 AND 2

A simultaneous 72-hour pumping test was completed on Wells 1 and 2 between May 7, 2007 and May 10, 2007. The goal of the pumping test was to demonstrate the development of an adequate water source for the project as required by the regulatory agencies.

The start up of the wells was staggered by two hours. Pumping began with the start of Well 1 at 1040-hours, followed by the start of Well 2 at 1245-hours. The flow rate of the pumping wells was monitored with a flow meter attached to the discharge line and the flow rate from the meter was confirmed/calibrated with a measured bucket and stop watch. Ground-water discharge from the pumping wells was diverted downgradient from the respective wells and their adjacent piezometers. The discharge locations for Wells 1 and 2 are shown on figure 2.

Well 1

Following the start of the pump in Well 1, the pumping rate of the well was set at 39 gpm where it remained constant for the duration of the pumping test. The static water level in Well 1 just prior to the start of pumping was 9.82 ft btoc (feet below top of casing). The pumping water-level just prior to the shut down of the test at 1246-hours on May 10, 2007 was 22.49 ft btoc, for a drawdown of 12.67 feet. The pumping rate and water-level were stable for the last 48 hours of the testing period. Well 1 was pumped for a total of 74 hours and 5 minutes. A table summarizing water-level measurements collected and a hydrograph for Well 1 are located in Appendix II.

Water-level recovery in Well 1 was rapid following shutdown of the pump. Based upon the pre-test measured static water level of 9.82 ft btoc and a drawdown of 12.67 feet, the water-level was 90 percent recovered within 6 hours of shut down. During the pre-test data collection period, the water level in Well 1 showed a slight decreasing trend. By projecting this trend through the pumping period, the water level in Well 1 is estimated to be 100 percent recovered approximately 24 hours after shutdown.

Well 2

Following the start of pumping of Well 2, the pumping rate was set at 39 gpm where it remained constant for the duration of the pumping test. The static water level in Well 2 just prior to the start of pumping was 23.25 ft btoc. The pumping water-level just prior to the shutdown of the test at 1301-hours on May 10, 2007 was 24.19 ft btoc, for a drawdown of 0.94 feet. The pumping rate and water-level were stable for the last 72 hours of the testing period. Well 2 was pumped for a total of 72 hours and 16 minutes. A table summarizing water-level measurements collected and a hydrograph for Well 2 are located in Appendix II.

Water-level recovery in Well 2 was rapid following shutdown of the pump. Based upon the pre-test measured static water level of 23.25 ft btoc and a drawdown of 0.94 feet, the water-level was 90 percent recovered within 6 hours of shut down of the pump. By projecting the slight decreasing water-level trend observed regionally during the pre-test data collection period, Well 2 is estimated to be 100 percent recovered approximately 28 hours after shutdown.

WELL MONITORING PROGRAM-WELLS 1 AND 2

During the 72-hour pumping test on Wells 1 and 2, a well monitoring program was conducted which included onsite Well 3 and 17 offsite domestic wells in the surrounding area (figure 2). Solicitation of homeowners for participation in the well monitoring program began with the mailing of certified letters to all homeowners within a 2,500-foot radius of the pumping wells, followed by hand solicitation.

The purpose of the well monitoring program was to determine if the pumping of Wells 1 and 2 for a minimum of 72 hours at pumping rates exceeding twice the average water demand of the project would significantly affect water-level and/or yields of existing neighboring wells. LBG installed two piezometers into the onsite wetland feature, adjacent to the pumping wells, to determine any hydraulic connection between the bedrock aquifer and the wetlands under pumping conditions.

A portable weather station was also installed onsite to monitor weather conditions during the pumping test event by collecting temperature, barometric pressure and precipitation measurements. A graph of the data collected is located in Appendix III.

The well monitoring program began on May 3, 2007 with the installation of monitoring equipment in the onsite and offsite monitoring wells, and continued until May 14, 2007, when all monitoring equipment was removed.

Onsite Well

Onsite Well 3 was monitored during the 72-hour pumping test of Wells 1 and 2. Approximately 5.0 feet of water-level drawdown was observed in the well as a result of the pumping of Wells 1 and 2 at a combined rate of 78 gpm. The hydrograph for Well 3 is located in

Appendix IV along with a table summarizing observed water-level drawdown and approximate distance from the pumping wells.

Offsite Wells

The hydrographs for many of the offsite wells indicated minor fluctuations in water level from their domestic use. An example of fluctuations from domestic water use (i.e., showering, laundry, etc.) is a rapid decline (drawdown) in the water level from the pumping of the well followed by the rapid rise in the water level from the pump turning off. The hydrograph for the residence located at 5 Amity Road in Appendix IV shows a good example of the water-level fluctuations from domestic usage.

No water-level drawdown was measured in any of the neighboring offsite homeowner wells during the 72-hour pumping test of Wells 1 and 2 on the Warwick Views study parcel. Hydrographs for the wells and a table summarizing observed drawdown and distance to the pumping wells is located in Appendix IV.

Piezometers

Two piezometers, PZ-A and PZ-B, were installed in the onsite wetland feature adjacent to Wells 1 and 2 to measure any potential hydraulic interconnection between the wells and the wetland feature under pumping conditions. Hydrographs for the piezometers are located in Appendix IV.

Water-level drawdown was observed in PZ-A, which is located adjacent to Well 1 (figure 2), during the 72-hour pumping test event. A declining trend, observed during the pre-test monitoring period, increased in magnitude following the start of pumping and water-level recovery was observed in the piezometer after the shutdown of the test. The water-level decline and recovery coincide with the pump in Well 1 turning on and off respectively; therefore, the slight water level decline is likely attributed to the ground-water withdrawals from Well 1. By projecting the pre-test water-level trend, a water-level drawdown of about 0.2 feet was observed in PZ-A during the test.

No water-level drawdown was measured in PZ-B, which is located adjacent to Well 2, (figure 2), during the 72-hour pumping test. The pre-test data shows a gradual increasing trend in water-level which continued throughout the pumping period.

PUMPING TEST PROGRAM - WELL 5

An individual 72-hour pumping test was completed on Well 5 between September 10, 2007 and September 14, 2007. The goal of the pumping test was to demonstrate the development of an adequate water source for the project as required by the regulatory agencies.

The flow rate of the pumping well was initially monitored with a flow meter attached to the discharge line and the flow rate from the meter was confirmed/calibrated with a measured bucket and stop watch.

Ground-water discharge from Well 5 was diverted downgradient from the well and the adjacent piezometer. The discharge location for Well 5 is shown on figure 3.

Well 5

The pump in Well 5 was initially started at 1259-hours on September 10, 2007. Eight minutes into the test, the well was shutdown to clear debris which had clogged the flow meter. Well 5 was restarted at 1318-hours. The pumping rate following the second start-up of the well was 31 gpm, which declined to 30 gpm after 2 hours of pumping.

At 0809-hours on September 11, the well was shutdown for one minute to replace the malfunctioning flow meter. Following the meter replacement, several rate adjustments were made over the course of the next two days in an attempt to maintain a constant pumping rate. During the over night hours of September 12 and 13, rapid rate fluctuations caused by the clogging of the discharge line prompted a manual rate increase to 40 gpm to compensate. At approximately 0400-hours on September 13, a large obstruction was forced from the discharge line, and with its removal the rate increased to 50 gpm. At 0550-hours, the pumping rate was manually decreased to 32 gpm where it remained for the duration of the test.

The pre-test static water-level in Well 5 prior to the start of the test was 12.04 ft btoc. The pumping water-level in Well 5 just prior to the shutdown of the pump was 76.8 ft btoc, for a drawdown of 64.97 feet. The pumping rate was stable for the last 32 hours of the test and water-level was rising gradually over the last 8 hours. Well 5 was shut down at 1232-hours on September 14, 2007. Well 5 was pumped for a total of 95 hours and 22 minutes. A table

summarizing water-level measurements collected and a hydrograph for Well 5 are located in Appendix II.

Water-level recovery in Well 5 was rapid following shutdown of the pump. Based upon the pre-test measured static water level of 12.04 ft btoc and a drawdown of 64.97 feet, the water-level was 90 percent recovered within 4 hours of shut down. During the pre-test data collection period, the water level in Well 5 showed a very slight declining trend. By projecting this trend through the pumping period, the water level in Well 5 is estimated to be fully recovered approximately 72 hours after shutdown of the test.

WELL MONITORING PROGRAM - WELL 5

During the 72-hour pumping test on Well 5, a well monitoring program was conducted which included onsite Wells 1, 2, 3 and 4 and 24 offsite domestic wells in the surrounding area (figure 3). Solicitation of homeowners for participation in the well monitoring program began with the mailing of certified letters to all homeowners within a 2,500-foot radius of Well 5, as well as several homeowners outside of the radius who participated in the original well monitoring program for pumping test of Wells 1 and 2, followed with hand solicitation.

The purpose of the well monitoring program was to determine if the pumping of Well 5 for a minimum of 72 hours at pumping rates exceeding twice the average water demand of the project would significantly affect water-level and/or yields of existing neighboring wells. LBG installed a new piezometer into the onsite wetland feature, adjacent to Well 5, to determine any potential hydraulic connection between the bedrock aquifer and the adjacent wetland area under pumping conditions.

A portable weather station was also installed onsite to monitor weather conditions during the pumping test. The weather station collected temperature, barometric pressure and precipitation measurements throughout the pumping test. A graph of the data collected is located in Appendix III.

The well monitoring program began on September 6, 2007 with the installation of monitoring equipment in the onsite and offsite residential monitoring wells, and continued until September 18, 2007, when all monitoring equipment was removed.

results are used in the determination of ground water under the direct influence of surface water (GWUDI). The Surface Water Treatment Rule is applied to any well determined to be under the direct influence of surface-water bodies. Copies of the laboratory results for the Part 5 analyses and MPA's are located in Appendix V.

Physical parameter measurements of pH, temperature, conductivity and turbidity were collected from the discharge water from Well 2 and from surface water within 200 feet of the well. A table of the measurements collected and graphs comparing the two locations are located in Appendix VI. Measurements were not collected from Wells 1 and 5 during their respective pumping tests because no surface water was present within 200 feet of the wells. Physical parameter measurements, used in conjunction with MPA results, are useful in identification of potential GWUDI.

Part 5, Subpart 5-1

Ground-water samples collected from Wells 1, 2 and 5 meet all New York State Drinking Water Standards with the exception of the presence of total coliform in Wells 1 and 2. As described above, because of the water-level drawdown observed in the adjacent piezometer during the pumping test, Well 1 will not be placed in service as a community water supply well for the Warwick Views Project; therefore, no treatment is necessary at this time for the well. Well 2 should be disinfected and resampled for total coliform prior to being placed in service.

Microparticulate Analyses

The presence of algae and diatoms were reported in the MPA sample collected from Well 1 and algae was reported in the sample from Well 2. The MPA sample for Well 5 reported the presence of plant debris showing chlorophyll fluorescence and the laboratory notes a heavy sediment load in the sample which may have prevented the identification of additional chlorophyll containing organisms. Algae, diatoms and plant debris are all considered primary indicators of GWUDI; however, typically ground-water samples are considered at moderate to high risk for GWUDI when two or more indicator organisms are identified in the samples. Wells 2 and 5 reported only a single indicator organism in each of the respective samples. LBG recommends additional MPA samples be collected from Wells 2 and 5 prior to being placed into service to further evaluate the GWUDI and treatment requirements, if necessary.

Physical Parameters

The data for physical parameters pH, temperature, conductivity and turbidity were collected from the discharge water from Well 2 and the nearby surface water body. The data show no correlation in values measured between the discharge water and the surface water for any of the parameters. Also, the data collected from the Well 2 discharge water show consistent values over the 72-hour testing period, in contrast to the surface water which showed a large range of fluctuation in values for all the parameters measured. The comparison of physical parameters indicates a low potential for GWUDI in Well 2; however, as recommended above, the presence of algae in the MPA sample for Well 2 warrants further evaluation of the well for potential GWUDI.

CONCLUSIONS AND RECOMMENDATIONS

- The estimated average water demand for the 53 proposed 4-bedroom single family residences is 14.7 gpm or 21,200 gpd. The NYSDOH requires the water supply for a proposed development equal or exceed twice the average water demand. Therefore, the water supply for the proposed Warwick Views Subdivision must have the capacity to produce a minimum of approximately 42,400 gpd or about 29.5 gpm, with the most productive well out of service.

- Well 1 is not considered for water supply source for the project due to the observed water-level drawdown in the adjacent wetland during the pumping test. The well will not be developed to eliminate any potential impact to the adjacent wetland feature.

- Data from the pumping tests indicate that Wells 2 and 5 can be safely pumped at 39 gpm (56,160 gpd) and 32 gpm (46,080 gpd), respectively, and that this well supply did not adversely impact neighboring offsite wells or adjacent surface water features. Both Wells 2 and 5 have the capacity to meet the water demands of the proposed Warwick Views Project individually. The pumping data indicate higher sustainable yields could likely be developed from Wells 2 and 5. This would require an additional pumping test to demonstrate the higher safe yields of the respective wells.

- The wetland features on the Warwick Views Subdivision are expected to exhibit no significant effects from the ground-water supply withdrawals from deep bedrock wells. The water-level data and hydrographs for the piezometers installed in the onsite wetlands adjacent to Wells 2 and 5 indicate no direct hydraulic connection during the pumping test events on the respective wells.

- Recharge directly to the 249.9-acre contiguous study parcel would indicate recharge under normal conditions to the bedrock aquifer to be about 156,190 gpd. The average one-year-in-30 drought record for Orange County indicates average precipitation of 29.5 inches (LBG, 2003). The average drought precipitation is approximately 69 percent of the average annual precipitation in Orange County which indicates recharge would be reduced to about 107,770 gpd for the study parcel. The recharge estimate significantly exceeds the estimated average water demands (21,200 gpd) for the proposed residential development under both normal and drought conditions.

- Phosphorous from septic system effluent will be effectively retained in the underlying soil and any low concentrations introduced into the ground water will be sorbed within a short distance of the septic system. The data strongly indicate that phosphorous will have no impact on the water quality of the onsite surface-water bodies and wetland features, including the regional aquifer system.

- LBG projected nitrate concentrations for the entire Warwick View property from onsite septic systems to be about 5.0 mg/l, substantially below the drinking water standard of 10 mg/l. This concentration does not include additional dilution from the watershed area to the study parcel. Consequently, the calculated nitrate-nitrogen concentrations would be less than reported. The data strongly indicate nitrates will have no impact on the water quality of onsite surface-water bodies/wetlands and the region ground-water quality.

- The proposed stormwater treatment plan is designed in accordance with the New York State Department of Environmental Conservation design standards. The design affords a plan to remove all relative pollutants to acceptable levels and have minimal impact on

surface water and ground water. The proposed development and storm-water management plan to be developed onsite well have no significant impacts on water quality of the surface-water features and underlying aquifer.

- Approximately 5.0 feet of drawdown was measure in onsite Well 3 during the pumping test of Wells 1 and 2. No water-level drawdown from the pumping of Wells 1 and 2 was measured in any of the offsite homeowner wells monitored.

- During the pumping test of Well 5, water-level drawdown in onsite wells ranged from no discernible drawdown to 2.9 feet. Water-level drawdown of about 3.9 feet was observed in one offsite homeowner well during the pumping test of Well 5. However, considering Well 5 was pumping more than twice the average water demand and that under normal pumping conditions where the wells would be subject to rotational use and shorter duration pumping cycles, drawdown in the offsite well would likely be less.

- The water-quality results for Wells 2 and 5 meet all NYSDOH drinking water standards with the exception of the presence of total coliform detected in Well 2. The well should be disinfected and resampled for total coliform prior to being placed in service.

- The MPA results for Wells 2 and 5 reported the presence of algae and plant debris showing chlorophyll fluorescence, respectively; however, a clear determination of GWUDI can not be drawn from the data available. LBG recommends additional MPA samples be collected from Wells 2 and 5 prior to placement of the wells into service to further evaluate the potential for GWUDI, and any treatment requirements.

- Physical parameter data collection from Well 2 and the adjacent surface water show no indication of a hydraulic connection between the well and the wetland feature.

- The ground-water supply developed for the proposed Warwick Views Subdivision should be reviewed and approved by the New York State Department of Environmental Conservation, NYSDOH and OCDOH prior to being placed in service.

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November 9, 2007
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Onsite Well

Wells 1, 2, 3 and 4 was monitored during the 72-hour pumping test on Well 5. Hydrographs for the wells are located in Appendix IV along with a table summarizing observed water-level drawdown and approximate distance from the pumping well. Drawdown in the onsite wells ranged from no drawdown in Well 3 to 2.9 feet in Well 4.

Offsite Wells

Hydrographs for the offsite wells monitored and a table summarizing observed drawdown and distance to the pumping well are located in Appendix IV. Of the 24 wells monitored, drawdown which can be attributed to the pumping of Well 5 was observed at only one offsite homeowner well. Approximately 3.9 feet of drawdown was measured in the well located at 25 Blooms Corner Road. However, considering Well 5 was pumping more than twice the average water demand and that under normal pumping conditions where the wells would be subject to rotational use and 18-hour pumping cycles, drawdown in the offsite well would likely be less. No other offsite homeowner well experienced any discernible water-level interference effects from the pumping of Well 5.

Piezometers

A piezometer, identified as PZ-E (figure 3), was installed in the onsite wetland feature adjacent to Well 5. A hydrograph for the piezometer is located in Appendix IV. No water-level drawdown was measured in PZ-E during the pumping test on Well 5. The pre-test data shows a gradual declining trend in the piezometer water-level which continued throughout the pumping event.

WATER-QUALITY RESULTS

Water-quality samples were collected from Wells 1, 2 and 5 during their respective 72-hour pumping test events. The samples were submitted to OCL Analytical Services and analyzed for parameters specified in the New York State Department of Health (NYSDOH) Sanitary Code, Part 5, Subpart 5-1. In addition, because the wells are located within 200 feet of a surface-water body, microparticulate analysis (MPA) samples were collected. MPA sample

REFERENCES

Healy, Kent A. and Randy May, 1982, "Seepage and Pollutant Renovation Analysis for Land Treatment, Sewage Disposal Systems", Connecticut Department of Environmental Protection, Water Compliance Unit.

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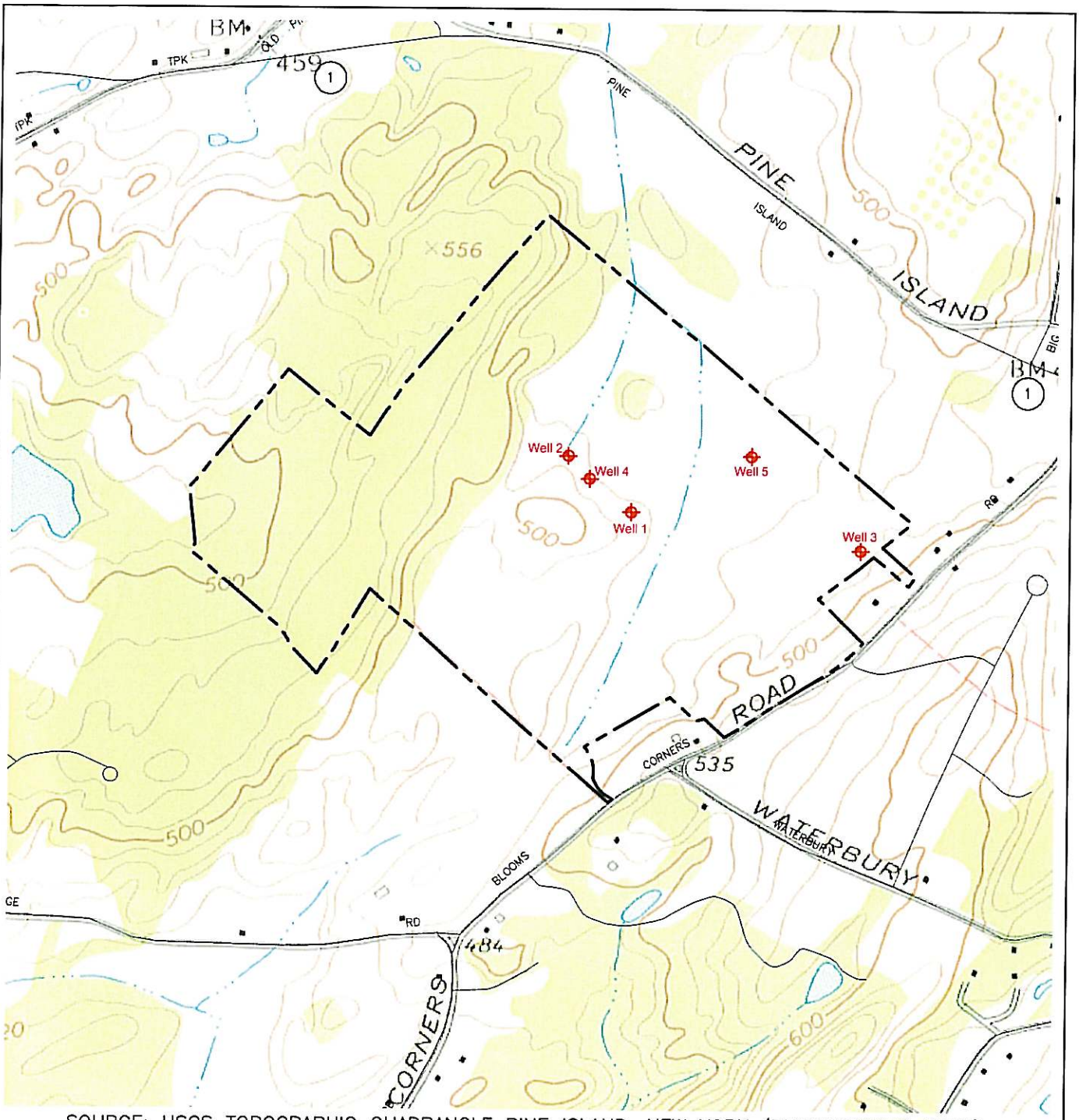
Sahwney, B.L. and D.E. Hill, 1975, "Phosphate Sorption Characteristics of Soils Treated with Domestic Waste Water", Journal of Environmental Quality, Vol. 4, No3.

Snavely, Deborah S., 1980 "Ground-Water Appraisal of Fishkill-Beacon Area Dutchess County, New York", U.S. Geological Survey, Open File Report 80-437.

United States Department of Agriculture, 1981, "Soil Survey of Orange County, New York".

H:\Warwick Views\2007\Warwick View Pumping test report-Wells 2 and 5.doc

FIGURES



SOURCE: USGS TOPOGRAPHIC QUADRANGLE PINE ISLAND, NEW YORK (PHOTOREVISED 1969).

LEGEND

Well 1 — APPROXIMATE BEDROCK WELL LOCATION

PROPERTY LINE

QUADRANGLE LOCATION

0 1000

SCALE IN FEET

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

SITE LOCATION MAP

DATE	REVISED

PREPARED BY:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
4 Research Drive
Suite 301
Shelton, Connecticut 06484
(203) 929-8555

DRAWN:	FCS	CHECKED:	SS	DATE:	10/3/07	FIGURE:	1

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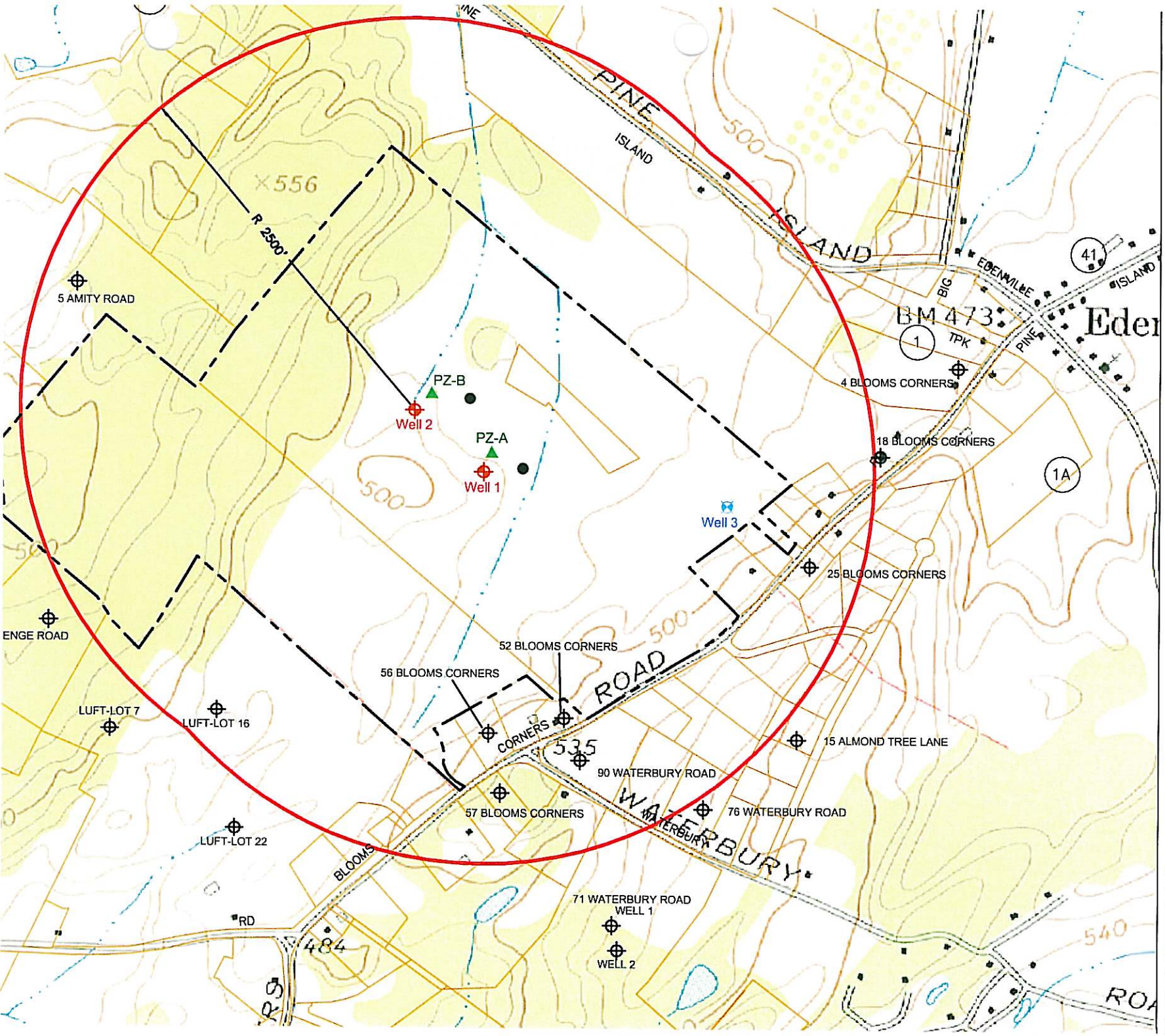

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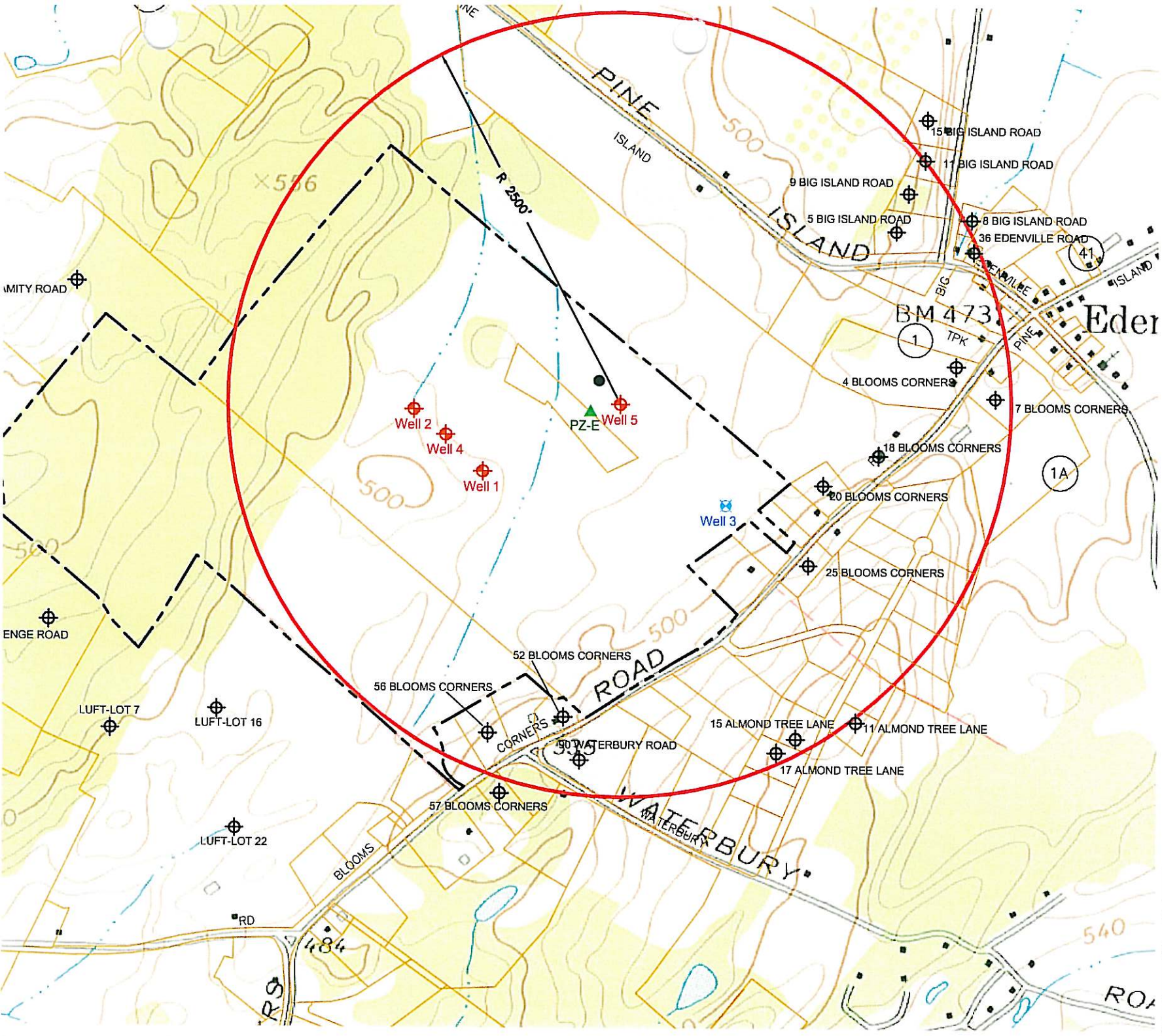
SITE MAP A
WELLS 1

DATE	REVISED	PR


PINE ISLAND
ISLAND
R 2500'
15 BIG ISLAND ROAD
11 BIG ISLAND ROAD
9 BIG ISLAND ROAD
5 BIG ISLAND ROAD
8 BIG ISLAND ROAD
36 EDENVILLE ROAD
41
BIG
EDENVILLE
ISLAND
BM 473
Eden
1
TPK
PINE
4 BLOOMS CORNERS
7 BLOOMS CORNERS
18 BLOOMS CORNERS
1A
20 BLOOMS CORNERS
25 BLOOMS CORNERS
AMITY ROAD
Well 2
Well 4
Well 1
PZ-E
Well 5
Well 3
500
ENGE ROAD
52 BLOOMS CORNERS
56 BLOOMS CORNERS
ROAD
CORNERS
LUFT-LOT 7
LUFT-LOT 16
90 WATERBURY ROAD
15 ALMOND TREE LANE
11 ALMOND TREE LANE
17 ALMOND TREE LANE
57 BLOOMS CORNERS
WATERBURY
WATERBURY
LUFT-LOT 22
BLOOMS
RD
484
540
ROA
LEGI
PRO
APP
Well 1
APP
Well 3
APP
PZ-E
APP
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REVISED
PR

APPENDIX I

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY ORANGE

(2) TOWN WARWICK

(3) DEC Well Number 08109

WATER WELL COMPLETION REPORT

(4) OWNER WARWICK VIEWS L.L.C.

(5) ADDRESS WARWICK

(6) LOCATION OF WELL (See Instructions On Reverse) Show Lat/Long if available and method used: TEST WELL #1

☒ GPS ☐ Map Interpolation 41° 16. 391 N 074° 25. 425 W

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 250

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 40 DATE MEASURED 2-21-07

CASINGS

(9) DIAMETER 6 in. | in. | in. | in.

(10) LENGTH 100 ft. | ft. | ft. | in.

(11) GROUT TYPE / SEALING BENSEAL

(12) GROUT / SEALING INTERVAL (feet) FROM 5 TO 100

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 2-21-07

(19) DURATION OF TEST 4 HRS

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

(21) STABILIZED DISCHARGE (GPM) 30+

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

(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

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

(36) DATE DRILLING WORK STARTED

(37) DATE DRILLING WORK COMPLETED

(38) DATE REPORT FILED

(39) REGISTERED COMPANY

(40) DEC REGISTRATION NO. NYRD

(41) CERTIFIED DRILLER (Print name)

(42) CERTIFIED DRILLER SIGNATURE *

(43) LOG

Ground Surface EL. ____ ft. above sea level

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

TOP OF WELL

CLAY	1-10'
10' BLUE LIMESTONE	BEDROCK
FRACTURE	70' 10GPM
FRACTURE	80' 5GPM
BLUE LIMESTONE	DRINK SHOCK
150' 5 GPM	FRACTURE
220' FRACTURE	30+ GPM

BOTTOM OF HOLE

* By signing this document I hereby affirm that: (1) I am certified to supervise water well drilling activities as defined by Environmental Conservation Law §15-1502; (2) this water well was constructed in accordance with water well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury the information provided in this Well Completion Report is true, accurate and complete, and I understand that any false statement made herein is punishable as a class A Misdemeanor under Penal Law §210.45.

NYSDEC COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY ORANGE

(2) TOWN WARWICK

(3) DEC Well Number 08112

WATER WELL COMPLETION REPORT

(4) OWNER WARWICK VIEWS

(5) ADDRESS WARWICK

(6) LOCATION OF WELL (See Instructions On Reverse) Show Lat/Long if available and method used: TEST WELL #2

☐ ~~GPS~~ ☐ Map Interpolation 41° 16.457 N 074° 25.580 W

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 200'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 25 DATE MEASURED 2-25-07

CASINGS

(9) DIAMETER 6 in. | in. | in. | in.

(10) LENGTH 100 ft. | ft. | ft. | in.

(11) GROUT TYPE / SEALING Bent-Seal

(12) GROUT / SEALING INTERVAL (feet) FROM 5 TO 100

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 2-25-07

(19) DURATION OF TEST 4

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

(21) STABILIZED DISCHARGE (GPM) 100+

(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) 100+

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

(34) METHOD OF DRILLING ☐ Rotary ☐ Cable Tool ☐ Other ____

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

(36) DATE DRILLING WORK STARTED

(37) DATE DRILLING WORK COMPLETED

(38) DATE REPORT FILED

(39) REGISTERED COMPANY

(40) DEC REGISTRATION NO. NYRD ____

(41) CERTIFIED DRILLER (Print name)

(42) CERTIFIED DRILLER SIGNATURE *

(43) LOG

Ground Surface EL. ____ ft. above sea level

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

TOP OF WELL

CLAY		1-5'
BEDROCK		?
BLUE LIMESTONE		
FRACTURE		50' 100GPM
FRACTURE		60 50GPM
	☐	☐ DRUCK SHALE
BLUE LIMESTONE		
FRACTURE		135 50GPM
FRACTURE		160' 50GPM

BOTTOM OF HOLE

* By signing this document I hereby affirm that: (1) I am certified to supervise water well drilling activities as defined by Environmental Conservation Law 515-1502; (2) this water well was constructed in accordance with water well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury the information provided in this Well Completion Report is true, accurate and complete, and I understand that any false statement made herein is punishable

NYSDEC COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY ORANGE

(2) TOWN WARWICK

(3) DEC Well Number 08285

WATER WELL COMPLETION REPORT

(4) OWNER WARWICK VIEWS

(5) ADDRESS WARWICK

(6) LOCATION OF WELL (See Instructions On Reverse) Show Lat/Long if available and method used: TEST WELL #3 Warwick Views Well 4

☒ GPS ☐ Map Interpolation 41° 16.430N 074° 25.519W

(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 260'

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) 20 DATE MEASURED 6-12-07

CASINGS

(9) DIAMETER 6 in. | in. | in. | in.

(10) LENGTH 202 ft. | ft. | ft. | in.

(11) GROUT TYPE / SEALING BEM-SEAL

(12) GROUT / SEALING INTERVAL (feet) FROM 5 TO 202

SCREENS

(13) MAKE & MATERIAL

(14) OPENINGS

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

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

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

YIELD TEST

(18) DATE 6-12-07

(19) DURATION OF TEST 4 HRS

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

(21) STABILIZED DISCHARGE (GPM) 100+

(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing) 20

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

(24) RECOVERY (Time in hours/minutes) 10 min

(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) 100

(33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet) 240'

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

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

(36) DATE DRILLING WORK STARTED 6-11-07

(37) DATE DRILLING WORK COMPLETED 6-12-07

(38) DATE REPORT FILED 6-12-07

(39) REGISTERED COMPANY TURNBULL WELL

(40) DEC REGISTRATION NO. NYRD 10137

(41) CERTIFIED DRILLER (Print name) JOHN D TURNBULL

(42) CERTIFIED DRILLER SIGNATURE *

* By signing this document I hereby affirm that: (1) I am certified to supervise water well drilling activities as defined by Environmental Conservation Law §15-1502; (2) this water well was constructed in accordance with water well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury the information provided in this Well Completion Report is true, accurate and complete, and I under-

(43) LOG

Ground Surface EL. ___ ft. above sea level

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

TOP OF WELL

CLAY TO BEDROCK		1-18'
BEDROCK		
BLUE LIMESTONE FRACTURE 160'		10-6 DM
	☐	☐ DRIVE SHOE
BLUE LIMESTONE FRACTURE 255'		100+
BLUE LIMESTONE		

BOTTOM OF HOLE

NYSDEC COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) COUNTY ORANGE

(2) TOWN WARWICK

(3) DEC Well Number 08327

WATER WELL COMPLETION REPORT

(4) OWNER: WARWICK VIEWS

(5) ADDRESS: WARWICK

(6) LOCATION OF WELL (See Instructions On Reverse) Show Lat/Long if available and method used: TEST WELL #4 Warwick Views Well 5

☒ GPS ☐ Map Interpolation 41° 16.449N 074° 25.280W

(7) DEPTH OF WELL BELOW LAND SURFACE (feet): 340

(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet): 30 DATE MEASURED: 7-30-07

CASINGS

(9) DIAMETER: 6 in. | in. | in. | in.

(10) LENGTH: 160 ft. | ft. | ft. | in.

(11) GROUT TYPE/SEALING: BEN-SEAL

(12) GROUT / SEALING INTERVAL (feet) FROM 5 TO 160

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: 7-30-07

(19) DURATION OF TEST: 4 HRS

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

(21) STABILIZED DISCHARGE (GPM): 75

(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing): 30

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

(24) RECOVERY (Time in hours/minutes): 15 MIN

(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): 75

(33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet): 360

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

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

(36) DATE DRILLING WORK STARTED: 7-27-07

(37) DATE DRILLING WORK COMPLETED: 7-30-07

(38) DATE REPORT FILED: 7-31-07

(39) REGISTERED COMPANY: TURNBULL WELL

(40) DEC REGISTRATION NO. NYRD 10137

(41) CERTIFIED DRILLER (Print name): JOHN D TURNBULL

(42) CERTIFIED DRILLER SIGNATURE *

* By signing this document I hereby affirm that: (1) I am certified to supervise water well drilling activities as defined by Environmental Conservation Law §15-1502; (2) this water well was constructed in accordance with water well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury the information provided in this Well Completion Report is true, accurate and complete, and I under- [illegible] made herein is punishable as a class A Misdemeanor under Penal Law §210.45.

(43) LOG

Ground Surface EL. ____ ft. above sea level

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

TOP OF WELL

CLAY		1-10'
BLUE LIMESTONE FRACTU 50'		56 PM
BLUE LIMESTONE	☐	☐ DRIVE SHOE
BLUE LIMESTONE FRACTURE 250'		106 PM
FRACTURE 310'		656 PM

BOTTOM OF HOLE

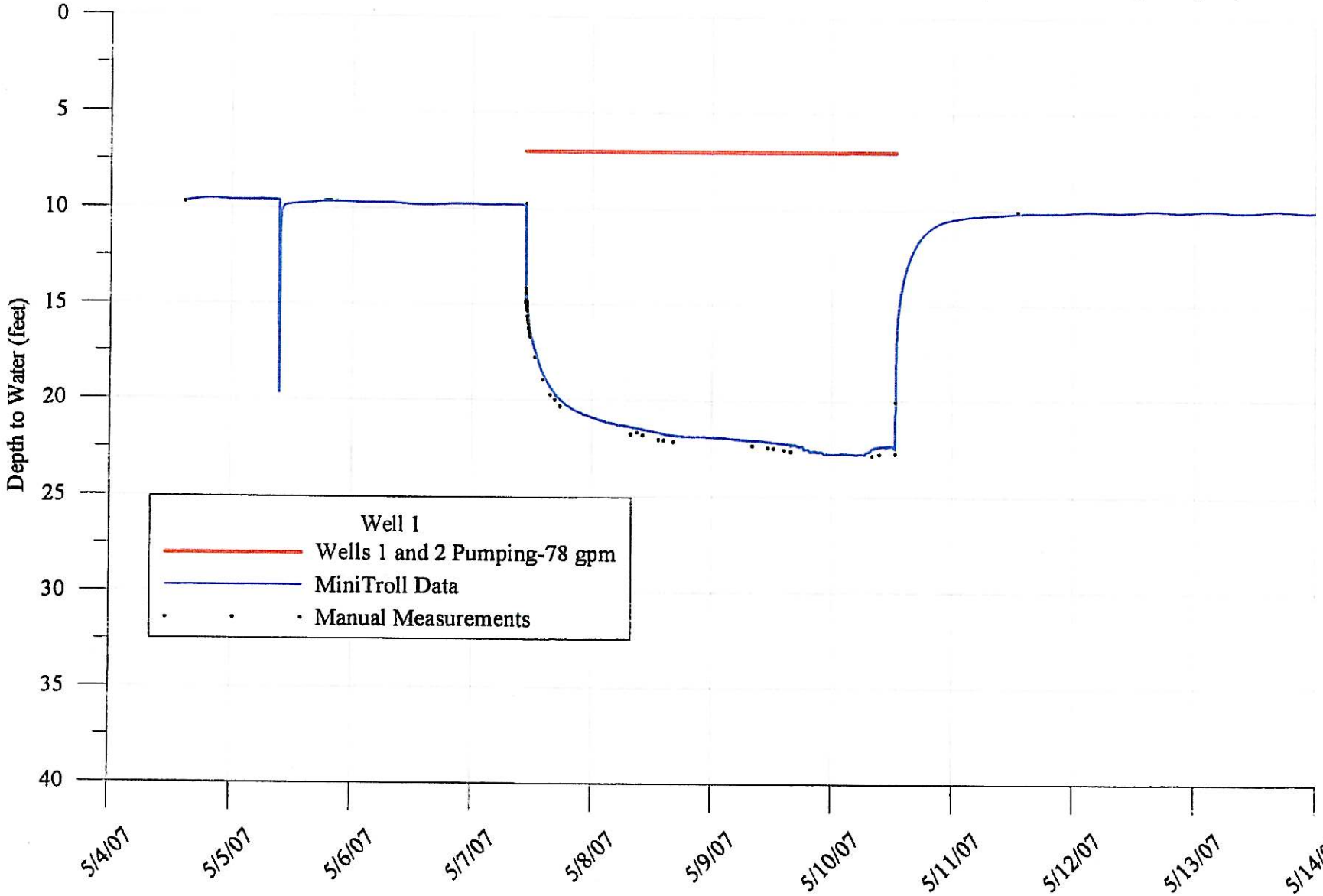
NYSDEC COPY

APPENDIX II

WELL 1

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of Well 1 During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2, May 7, 2007 Through May 10, 2007



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LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 1

Date	Time	Depth to Water (ft btoc)	Comments
5/4/2007	15:00	9.68	Installed MiniTroll.
5/4/2007	16:00	9.64	
5/4/2007	17:00	9.61	
5/4/2007	18:00	9.58	
5/4/2007	19:00	9.57	
5/4/2007	20:00	9.56	
5/4/2007	21:00	9.57	
5/4/2007	22:00	9.57	
5/4/2007	23:00	9.59	
5/5/2007	0:00	9.61	
5/5/2007	1:00	9.62	
5/5/2007	2:00	9.62	
5/5/2007	3:00	9.61	
5/5/2007	4:00	9.61	
5/5/2007	5:00	9.60	
5/5/2007	6:00	9.59	
5/5/2007	7:00	9.60	
5/5/2007	8:00	9.60	
5/5/2007	9:00	9.63	
5/5/2007	10:00	10.13	
5/5/2007	11:00	9.85	
5/5/2007	12:00	9.81	
5/5/2007	13:00	9.79	
5/5/2007	14:00	9.78	
5/5/2007	15:00	9.76	
5/5/2007	16:00	9.74	
5/5/2007	17:00	9.71	
5/5/2007	18:00	9.70	
5/5/2007	19:00	9.68	
5/5/2007	20:00	9.68	
5/5/2007	21:00	9.68	
5/5/2007	22:00	9.68	
5/5/2007	23:00	9.70	
5/6/2007	0:00	9.71	
5/6/2007	1:00	9.72	
5/6/2007	2:00	9.73	
5/6/2007	3:00	9.73	
5/6/2007	4:00	9.73	
5/6/2007	5:00	9.73	
5/6/2007	6:00	9.73	
5/6/2007	7:00	9.73	
5/6/2007	8:00	9.74	
5/6/2007	9:00	9.75	
5/6/2007	10:00	9.77	
5/6/2007	11:00	9.79	
5/6/2007	12:00	9.81	
5/6/2007	13:00	9.83	
5/6/2007	14:00	9.84	
5/6/2007	15:00	9.83	
5/6/2007	16:00	9.83	
5/6/2007	17:00	9.81	
5/6/2007	18:00	9.80	
5/6/2007	19:00	9.78	
5/6/2007	20:00	9.78	
5/6/2007	21:00	9.77	

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 1

Date	Time	Depth to Water (ft btoc)	Comments
5/6/2007	22:00	9.78	
5/6/2007	23:00	9.78	
5/7/2007	0:00	9.78	
5/7/2007	1:00	9.78	
5/7/2007	2:00	9.79	
5/7/2007	3:00	9.79	
5/7/2007	4:00	9.79	
5/7/2007	5:00	9.79	
5/7/2007	6:00	9.79	
5/7/2007	7:00	9.79	
5/7/2007	8:00	9.79	
5/7/2007	9:00	9.80	
5/7/2007	10:00	9.81	
5/7/2007	10:39	9.82	
5/7/2007	10:40	13.00	Pump in Well 1 started.
5/7/2007	10:41	14.92	Pumping rate 39 gpm.
5/7/2007	10:42	14.96	
5/7/2007	10:43	14.83	
5/7/2007	10:44	14.52	
5/7/2007	10:45	14.36	
5/7/2007	10:46	14.41	
5/7/2007	10:47	14.43	
5/7/2007	10:48	14.51	
5/7/2007	10:49	14.58	
5/7/2007	10:50	14.64	
5/7/2007	10:51	14.68	
5/7/2007	10:52	14.79	
5/7/2007	10:53	14.86	
5/7/2007	10:54	14.93	
5/7/2007	10:55	15.01	
5/7/2007	10:56	15.06	
5/7/2007	10:57	15.10	
5/7/2007	10:58	15.17	
5/7/2007	10:59	15.23	
5/7/2007	11:00	15.27	
5/7/2007	11:01	15.34	
5/7/2007	11:02	15.38	
5/7/2007	11:03	15.41	
5/7/2007	11:04	15.47	
5/7/2007	11:05	15.50	
5/7/2007	11:06	15.56	
5/7/2007	11:07	15.60	
5/7/2007	11:08	15.64	
5/7/2007	11:09	15.67	
5/7/2007	11:10	15.68	
5/7/2007	11:11	15.73	
5/7/2007	11:12	15.76	
5/7/2007	11:13	15.80	
5/7/2007	11:14	15.82	
5/7/2007	11:15	15.88	
5/7/2007	11:16	15.90	
5/7/2007	11:17	15.93	
5/7/2007	11:18	15.96	
5/7/2007	11:19	15.98	
5/7/2007	11:20	16.03	Rate 39 gpm.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 1

Date	Time	Depth to Water (ft btoc)	Comments
5/7/2007	11:21	16.05	Rate 39 gpm.
5/7/2007	11:22	16.07	
5/7/2007	11:23	16.10	
5/7/2007	11:24	16.13	
5/7/2007	11:25	16.17	
5/7/2007	11:26	16.18	
5/7/2007	11:27	16.21	
5/7/2007	11:28	16.24	
5/7/2007	11:29	16.25	
5/7/2007	11:30	16.28	
5/7/2007	11:31	16.31	
5/7/2007	11:32	16.32	
5/7/2007	11:33	16.34	
5/7/2007	11:34	16.39	
5/7/2007	11:35	16.41	
5/7/2007	11:36	16.42	
5/7/2007	11:37	16.43	
5/7/2007	11:38	16.48	
5/7/2007	11:39	16.50	
5/7/2007	11:40	16.51	
5/7/2007	11:00	15.27	
5/7/2007	12:00	16.92	
5/7/2007	12:45	17.62	Pump in Well 2 started.
5/7/2007	13:00	17.83	
5/7/2007	14:00	18.59	
5/7/2007	15:00	19.09	
5/7/2007	16:00	19.50	
5/7/2007	17:00	19.85	
5/7/2007	18:00	20.11	
5/7/2007	19:00	20.32	
5/7/2007	20:00	20.47	
5/7/2007	21:00	20.63	
5/7/2007	22:00	20.73	
5/7/2007	23:00	20.83	
5/8/2007	0:00	20.91	
5/8/2007	1:00	21.01	
5/8/2007	2:00	21.09	
5/8/2007	3:00	21.16	
5/8/2007	4:00	21.24	
5/8/2007	5:00	21.30	
5/8/2007	6:00	21.32	
5/8/2007	7:00	21.37	
5/8/2007	8:00	21.43	
5/8/2007	9:00	21.46	
5/8/2007	10:00	21.52	
5/8/2007	11:00	21.58	
5/8/2007	12:00	21.62	
5/8/2007	13:00	21.70	
5/8/2007	14:00	21.75	
5/8/2007	15:00	21.79	
5/8/2007	16:00	21.83	
5/8/2007	17:00	21.86	
5/8/2007	18:00	21.87	
5/8/2007	19:00	21.87	
5/8/2007	20:00	21.92	Rate 39 gpm.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 1

Date	Time	Depth to Water (ft btoc)	Comments
5/8/2007	21:00	21.89	Rate 39 gpm.
5/8/2007	22:00	21.89	
5/8/2007	23:00	21.89	
5/9/2007	0:00	21.91	
5/9/2007	1:00	21.93	
5/9/2007	2:00	21.94	
5/9/2007	3:00	21.97	
5/9/2007	4:00	22.00	
5/9/2007	5:00	22.02	
5/9/2007	6:00	22.03	
5/9/2007	7:00	22.06	
5/9/2007	8:00	22.09	
5/9/2007	9:00	22.11	
5/9/2007	10:00	22.13	
5/9/2007	11:00	22.13	
5/9/2007	12:00	22.16	
5/9/2007	13:00	22.20	
5/9/2007	14:00	22.21	
5/9/2007	15:00	22.26	
5/9/2007	16:00	22.29	
5/9/2007	17:00	22.32	
5/9/2007	18:00	22.38	
5/9/2007	19:00	22.53	
5/9/2007	20:00	22.61	
5/9/2007	21:00	22.65	
5/9/2007	22:00	22.65	
5/9/2007	23:00	22.73	
5/10/2007	0:00	22.76	
5/10/2007	1:00	22.74	
5/10/2007	2:00	22.75	
5/10/2007	3:00	22.73	
5/10/2007	4:00	22.78	
5/10/2007	5:00	22.82	
5/10/2007	6:00	22.77	
5/10/2007	7:00	22.65	
5/10/2007	8:00	22.47	
5/10/2007	9:00	22.43	
5/10/2007	10:00	22.40	
5/10/2007	11:00	22.37	
5/10/2007	12:00	22.35	
5/10/2007	12:44	22.50	Rate 39 gpm.
5/10/2007	12:45	22.49	Pump in Well 1 shut down.
5/10/2007	12:46	20.68	
5/10/2007	12:47	19.46	
5/10/2007	12:48	18.75	
5/10/2007	12:49	18.45	
5/10/2007	12:50	18.21	
5/10/2007	12:51	17.97	
5/10/2007	12:52	17.75	
5/10/2007	12:53	17.57	
5/10/2007	12:54	17.40	
5/10/2007	12:55	17.24	
5/10/2007	12:56	17.11	
5/10/2007	12:57	16.98	
5/10/2007	12:58	16.86	

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 1

Date	Time	Depth to Water (ft btoc)	Comments
5/10/2007	12:59	16.75	
5/10/2007	13:00	16.65	
5/10/2007	13:01	16.55	Pump in Well 2 shut down.
5/10/2007	13:02	16.47	
5/10/2007	13:03	16.38	
5/10/2007	13:04	16.29	
5/10/2007	13:05	16.22	
5/10/2007	13:06	16.14	
5/10/2007	13:07	16.07	
5/10/2007	13:08	16.01	
5/10/2007	13:09	15.94	
5/10/2007	13:10	15.88	
5/10/2007	13:11	15.82	
5/10/2007	13:12	15.76	
5/10/2007	13:13	15.71	
5/10/2007	13:14	15.65	
5/10/2007	13:15	15.60	
5/10/2007	13:16	15.55	
5/10/2007	13:17	15.50	
5/10/2007	13:18	15.45	
5/10/2007	13:19	15.41	
5/10/2007	13:20	15.37	
5/10/2007	13:21	15.32	
5/10/2007	13:22	15.27	
5/10/2007	13:23	15.23	
5/10/2007	13:24	15.19	
5/10/2007	13:25	15.16	
5/10/2007	13:26	15.11	
5/10/2007	13:27	15.08	
5/10/2007	13:28	15.04	
5/10/2007	13:29	15.00	
5/10/2007	13:30	14.96	
5/10/2007	13:31	14.93	
5/10/2007	13:32	14.89	
5/10/2007	13:33	14.86	
5/10/2007	13:34	14.82	
5/10/2007	13:35	14.79	
5/10/2007	13:36	14.76	
5/10/2007	13:37	14.73	
5/10/2007	13:38	14.69	
5/10/2007	13:39	14.66	
5/10/2007	13:40	14.63	
5/10/2007	13:41	14.60	
5/10/2007	13:42	14.57	
5/10/2007	13:43	14.54	
5/10/2007	13:44	14.51	
5/10/2007	13:45	14.48	
5/10/2007	13:00	16.65	
5/10/2007	14:00	14.09	
5/10/2007	15:00	12.98	
5/10/2007	16:00	12.26	
5/10/2007	17:00	11.77	
5/10/2007	18:00	11.40	
5/10/2007	19:00	11.12	Water level 90% recovered in Well 1.
5/10/2007	20:00	10.92	

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 1

Date	Time	Depth to Water (ft btoc)	Comments
5/10/2007	21:00	10.76	
5/10/2007	22:00	10.64	
5/10/2007	23:00	10.56	
5/11/2007	0:00	10.50	
5/11/2007	1:00	10.45	
5/11/2007	2:00	10.41	
5/11/2007	3:00	10.37	
5/11/2007	4:00	10.35	
5/11/2007	5:00	10.33	
5/11/2007	6:00	10.31	
5/11/2007	7:00	10.30	
5/11/2007	8:00	10.29	
5/11/2007	9:00	10.27	
5/11/2007	10:00	10.25	
5/11/2007	11:00	10.24	
5/11/2007	12:00	10.21	
5/11/2007	13:00	10.19	
5/11/2007	14:00	10.17	
5/11/2007	15:00	10.16	
5/11/2007	16:00	10.17	
5/11/2007	17:00	10.17	
5/11/2007	18:00	10.17	
5/11/2007	19:00	10.17	
5/11/2007	20:00	10.17	
5/11/2007	21:00	10.17	
5/11/2007	22:00	10.16	
5/11/2007	23:00	10.14	
5/12/2007	0:00	10.13	
5/12/2007	1:00	10.11	
5/12/2007	2:00	10.09	
5/12/2007	3:00	10.08	
5/12/2007	4:00	10.08	
5/12/2007	5:00	10.09	
5/12/2007	6:00	10.11	
5/12/2007	7:00	10.12	
5/12/2007	8:00	10.13	
5/12/2007	9:00	10.14	
5/12/2007	10:00	10.13	
5/12/2007	11:00	10.11	
5/12/2007	12:00	10.11	
5/12/2007	13:00	10.08	
5/12/2007	14:00	10.07	
5/12/2007	15:00	10.05	
5/12/2007	16:00	10.05	
5/12/2007	17:00	10.05	
5/12/2007	18:00	10.07	
5/12/2007	19:00	10.08	
5/12/2007	20:00	10.10	
5/12/2007	21:00	10.11	
5/12/2007	22:00	10.10	
5/12/2007	23:00	10.09	
5/13/2007	0:00	10.08	
5/13/2007	1:00	10.06	
5/13/2007	2:00	10.05	
5/13/2007	3:00	10.04	

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 1

Date	Time	Depth to Water (ft btoc)	Comments
5/13/2007	4:00	10.04	
5/13/2007	5:00	10.05	
5/13/2007	6:00	10.07	
5/13/2007	7:00	10.09	
5/13/2007	8:00	10.11	
5/13/2007	9:00	10.13	
5/13/2007	10:00	10.13	
5/13/2007	11:00	10.13	
5/13/2007	12:00	10.11	
5/13/2007	13:00	10.08	
5/13/2007	14:00	10.06	
5/13/2007	15:00	10.03	
5/13/2007	16:00	10.02	
5/13/2007	17:00	10.02	
5/13/2007	18:00	10.04	
5/13/2007	19:00	10.06	
5/13/2007	20:00	10.08	
5/13/2007	21:00	10.10	
5/13/2007	22:00	10.11	
5/13/2007	23:00	10.11	
5/14/2007	0:00	10.10	
5/14/2007	1:00	10.08	
5/14/2007	2:00	10.06	
5/14/2007	3:00	10.05	
5/14/2007	4:00	10.05	
5/14/2007	5:00	10.05	
5/14/2007	6:00	10.07	
5/14/2007	7:00	10.09	
5/14/2007	8:00	10.13	
5/14/2007	9:00	10.14	
5/14/2007	10:00	10.16	
5/14/2007	11:00	10.16	
5/14/2007	12:00	10.14	
5/14/2007	13:00	10.12	
5/14/2007	14:00	10.09	
5/14/2007	15:00	10.06	MiniTroll removed.

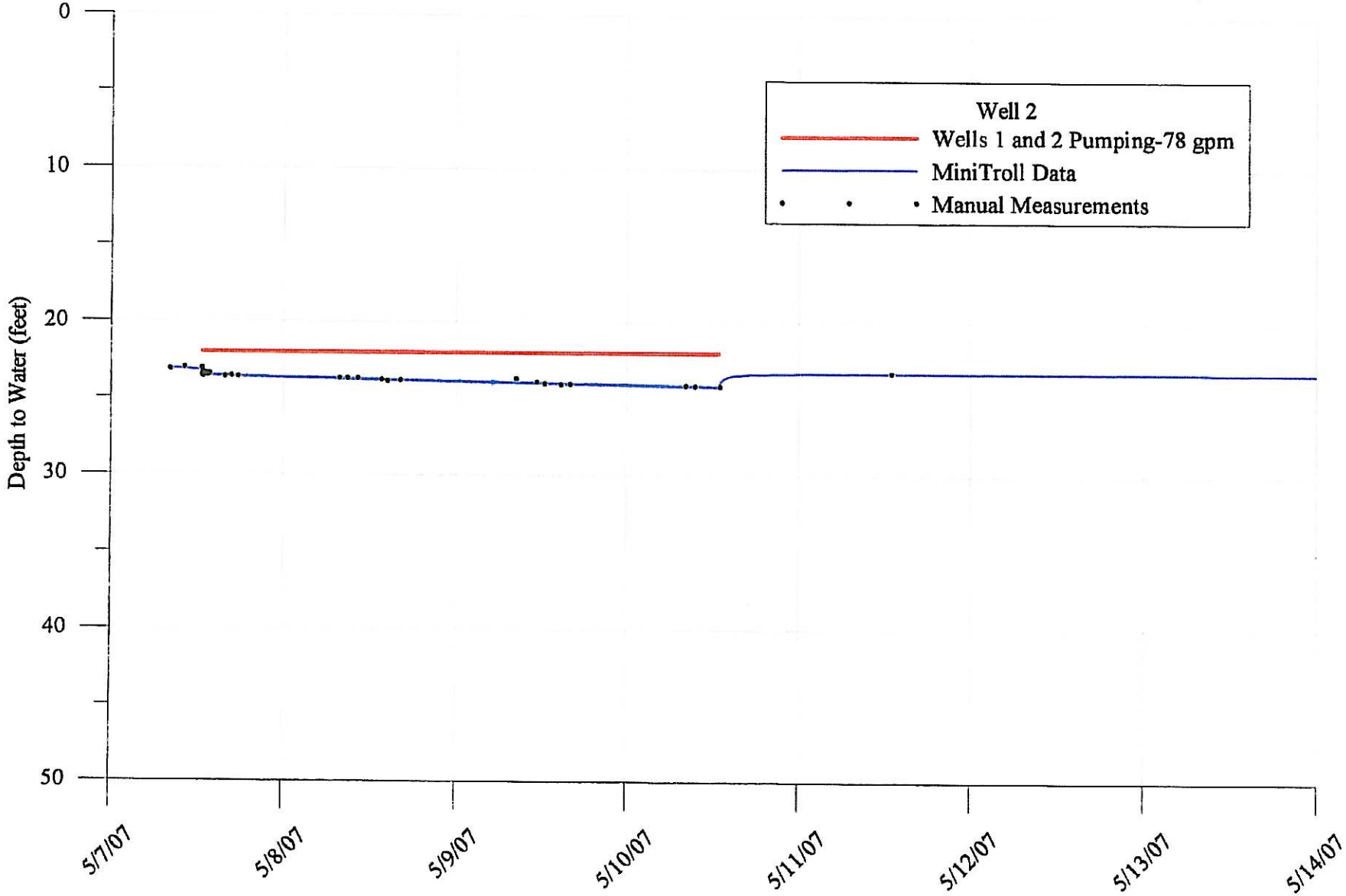
ft btoc Feet below top of casing
gpm Gallons per minute

H:\spreadsheet\Warwick View\Report\Well 1 DTW table.doc

WELL 2

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of Well 2 During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2, May 7, 2007 Through May 10, 2007



H:\Spreadsheet\Warwick View Hydrographs Well 2.xls

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 2

Date	Time	Depth to Water (ft btoc)	Comments
5/7/2007	9:00	23.13	MiniTroll installed.
5/7/2007	10:00	23.14	
5/7/2007	10:40	23.14	Pump in Well 1 started.
5/7/2007	11:00	23.20	
5/7/2007	12:00	23.23	
5/7/2007	12:44	23.25	
5/7/2007	12:45	23.58	Pump in Well 2 started.
5/7/2007	12:46	23.44	Pumping rate 39 gpm.
5/7/2007	12:47	23.49	
5/7/2007	12:48	23.47	
5/7/2007	12:49	23.51	
5/7/2007	12:50	23.53	
5/7/2007	12:51	23.47	
5/7/2007	12:52	23.51	
5/7/2007	12:53	23.51	
5/7/2007	12:54	23.55	
5/7/2007	12:55	23.56	
5/7/2007	12:56	23.52	
5/7/2007	12:57	23.50	
5/7/2007	12:58	23.51	
5/7/2007	12:59	23.52	
5/7/2007	13:00	23.54	
5/7/2007	13:01	23.53	
5/7/2007	13:02	23.52	
5/7/2007	13:03	23.52	
5/7/2007	13:04	23.55	
5/7/2007	13:05	23.55	
5/7/2007	13:06	23.55	
5/7/2007	13:07	23.52	
5/7/2007	13:08	23.57	
5/7/2007	13:09	23.56	
5/7/2007	13:10	23.55	
5/7/2007	13:11	23.54	
5/7/2007	13:12	23.52	
5/7/2007	13:13	23.55	
5/7/2007	13:14	23.52	
5/7/2007	13:15	23.56	
5/7/2007	13:16	23.52	
5/7/2007	13:17	23.51	
5/7/2007	13:18	23.53	
5/7/2007	13:19	23.57	
5/7/2007	13:20	23.56	
5/7/2007	13:21	23.56	
5/7/2007	13:22	23.53	
5/7/2007	13:23	23.57	
5/7/2007	13:24	23.57	
5/7/2007	13:25	23.58	
5/7/2007	13:26	23.55	
5/7/2007	13:27	23.58	
5/7/2007	13:28	23.57	
5/7/2007	13:29	23.57	
5/7/2007	13:30	23.54	
5/7/2007	13:31	23.56	
5/7/2007	13:32	23.57	
5/7/2007	13:33	23.58	Rate 39 gpm.

WARWICK VIEWS SUBDIVISION
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Summary of Depth Water Measurements Collected from Well 2

Date	Time	Depth to Water (ft btoc)	Comments
5/7/2007	13:34	23.58	Rate 39 gpm.
5/7/2007	13:35	23.58	
5/7/2007	13:36	23.57	
5/7/2007	13:37	23.55	
5/7/2007	13:38	23.58	
5/7/2007	13:39	23.57	
5/7/2007	13:40	23.59	
5/7/2007	13:41	23.58	
5/7/2007	13:42	23.64	
5/7/2007	13:43	23.58	
5/7/2007	13:44	23.58	
5/7/2007	13:45	23.58	
5/7/2007	13:00	23.54	
5/7/2007	14:00	23.57	
5/7/2007	15:00	23.62	
5/7/2007	16:00	23.60	
5/7/2007	17:00	23.65	
5/7/2007	18:00	23.62	
5/7/2007	19:00	23.67	
5/7/2007	20:00	23.63	
5/7/2007	21:00	23.70	
5/7/2007	22:00	23.65	
5/7/2007	23:00	23.67	
5/8/2007	0:00	23.70	
5/8/2007	1:00	23.71	
5/8/2007	2:00	23.68	
5/8/2007	3:00	23.70	
5/8/2007	4:00	23.69	
5/8/2007	5:00	23.72	
5/8/2007	6:00	23.73	
5/8/2007	7:00	23.69	
5/8/2007	8:00	23.75	
5/8/2007	9:00	23.77	
5/8/2007	10:00	23.78	
5/8/2007	11:00	23.78	
5/8/2007	12:00	23.78	
5/8/2007	13:00	23.79	
5/8/2007	14:00	23.84	
5/8/2007	15:00	23.84	
5/8/2007	16:00	23.83	
5/8/2007	17:00	23.86	
5/8/2007	18:00	23.91	
5/8/2007	19:00	23.91	
5/8/2007	20:00	23.90	
5/8/2007	21:00	23.88	
5/8/2007	22:00	23.90	
5/8/2007	23:00	23.90	
5/9/2007	0:00	23.91	
5/9/2007	1:00	23.90	
5/9/2007	2:00	23.90	
5/9/2007	3:00	23.94	
5/9/2007	4:00	23.97	
5/9/2007	5:00	23.96	
5/9/2007	6:00	23.95	
5/9/2007	7:00	23.91	Rate 39 gpm.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 2

Date	Time	Depth to Water (ft btoc)	Comments
5/9/2007	8:00	23.95	Rate 39 gpm.
5/9/2007	9:00	23.97	
5/9/2007	10:00	23.97	
5/9/2007	11:00	24.01	
5/9/2007	12:00	23.99	
5/9/2007	13:00	24.02	
5/9/2007	14:00	24.02	
5/9/2007	15:00	24.02	
5/9/2007	16:00	24.04	
5/9/2007	17:00	24.01	
5/9/2007	18:00	24.06	
5/9/2007	19:00	24.07	
5/9/2007	20:00	24.07	
5/9/2007	21:00	24.09	
5/9/2007	22:00	24.10	
5/9/2007	23:00	24.08	
5/10/2007	0:00	24.10	
5/10/2007	1:00	24.14	
5/10/2007	2:00	24.09	
5/10/2007	3:00	24.17	
5/10/2007	4:00	24.10	
5/10/2007	5:00	24.14	
5/10/2007	6:00	24.16	
5/10/2007	7:00	24.19	
5/10/2007	8:00	24.15	
5/10/2007	9:00	24.18	
5/10/2007	10:00	24.17	
5/10/2007	11:00	24.14	
5/10/2007	12:00	24.20	
5/10/2007	12:45	24.21	Pump in Well 1 shut down.
5/10/2007	13:00	24.17	Rate 39 gpm.
5/10/2007	13:01	24.19	Pump in Well 2 shut down.
5/10/2007	13:02	23.96	
5/10/2007	13:03	23.92	
5/10/2007	13:04	23.91	
5/10/2007	13:05	23.90	
5/10/2007	13:06	23.88	
5/10/2007	13:07	23.86	
5/10/2007	13:08	23.85	
5/10/2007	13:09	23.84	
5/10/2007	13:10	23.83	
5/10/2007	13:11	23.81	
5/10/2007	13:12	23.80	
5/10/2007	13:13	23.79	
5/10/2007	13:14	23.79	
5/10/2007	13:15	23.77	
5/10/2007	13:16	23.77	
5/10/2007	13:17	23.76	
5/10/2007	13:18	23.76	
5/10/2007	13:19	23.75	
5/10/2007	13:20	23.74	
5/10/2007	13:21	23.74	
5/10/2007	13:22	23.73	
5/10/2007	13:23	23.72	
5/10/2007	13:24	23.72	

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 2

Date	Time	Depth to Water (ft btoc)	Comments
5/10/2007	13:25	23.71	
5/10/2007	13:26	23.71	
5/10/2007	13:27	23.70	
5/10/2007	13:28	23.69	
5/10/2007	13:29	23.69	
5/10/2007	13:30	23.68	
5/10/2007	13:31	23.68	
5/10/2007	13:32	23.67	
5/10/2007	13:33	23.66	
5/10/2007	13:34	23.66	
5/10/2007	13:35	23.65	
5/10/2007	13:36	23.65	
5/10/2007	13:37	23.65	
5/10/2007	13:38	23.64	
5/10/2007	13:39	23.63	
5/10/2007	13:40	23.63	
5/10/2007	13:41	23.62	
5/10/2007	13:42	23.62	
5/10/2007	13:43	23.62	
5/10/2007	13:44	23.62	
5/10/2007	13:45	23.61	
5/10/2007	13:46	23.61	
5/10/2007	13:47	23.60	
5/10/2007	13:48	23.60	
5/10/2007	13:49	23.60	
5/10/2007	13:50	23.59	
5/10/2007	13:51	23.59	
5/10/2007	13:52	23.59	
5/10/2007	13:53	23.58	
5/10/2007	13:54	23.58	
5/10/2007	13:55	23.57	
5/10/2007	13:56	23.57	
5/10/2007	13:57	23.57	
5/10/2007	13:58	23.57	
5/10/2007	13:59	23.56	
5/10/2007	14:00	23.56	
5/10/2007	14:01	23.56	
5/10/2007	14:00	23.56	
5/10/2007	15:00	23.47	
5/10/2007	16:00	23.42	
5/10/2007	17:00	23.40	
5/10/2007	18:00	23.37	
5/10/2007	19:00	23.36	Water level in Well 2 90% recovered.
5/10/2007	20:00	23.36	
5/10/2007	21:00	23.34	
5/10/2007	22:00	23.34	
5/10/2007	23:00	23.33	
5/11/2007	0:00	23.32	
5/11/2007	1:00	23.32	
5/11/2007	2:00	23.32	
5/11/2007	3:00	23.32	
5/11/2007	4:00	23.31	
5/11/2007	5:00	23.31	
5/11/2007	6:00	23.31	
5/11/2007	7:00	23.31	

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 2

Date	Time	Depth to Water (ft btoc)	Comments
5/11/2007	8:00	23.31	
5/11/2007	9:00	23.31	
5/11/2007	10:00	23.31	
5/11/2007	11:00	23.31	
5/11/2007	12:00	23.31	
5/11/2007	13:00	23.31	
5/11/2007	14:00	23.31	
5/11/2007	15:00	23.30	
5/11/2007	16:00	23.30	
5/11/2007	17:00	23.31	
5/11/2007	18:00	23.31	
5/11/2007	19:00	23.30	
5/11/2007	20:00	23.31	
5/11/2007	21:00	23.31	
5/11/2007	22:00	23.31	
5/11/2007	23:00	23.31	
5/12/2007	0:00	23.31	
5/12/2007	1:00	23.31	
5/12/2007	2:00	23.31	
5/12/2007	3:00	23.31	
5/12/2007	4:00	23.31	
5/12/2007	5:00	23.31	
5/12/2007	6:00	23.31	
5/12/2007	7:00	23.32	
5/12/2007	8:00	23.32	
5/12/2007	9:00	23.32	
5/12/2007	10:00	23.32	
5/12/2007	11:00	23.32	
5/12/2007	12:00	23.32	
5/12/2007	13:00	23.32	
5/12/2007	14:00	23.32	
5/12/2007	15:00	23.32	
5/12/2007	16:00	23.32	
5/12/2007	17:00	23.32	
5/12/2007	18:00	23.32	
5/12/2007	19:00	23.32	
5/12/2007	20:00	23.32	
5/12/2007	21:00	23.32	
5/12/2007	22:00	23.32	
5/12/2007	23:00	23.32	
5/13/2007	0:00	23.33	
5/13/2007	1:00	23.32	
5/13/2007	2:00	23.32	
5/13/2007	3:00	23.32	
5/13/2007	4:00	23.32	
5/13/2007	5:00	23.33	
5/13/2007	6:00	23.32	
5/13/2007	7:00	23.33	
5/13/2007	8:00	23.33	
5/13/2007	9:00	23.33	
5/13/2007	10:00	23.34	
5/13/2007	11:00	23.34	
5/13/2007	12:00	23.34	
5/13/2007	13:00	23.34	
5/13/2007	14:00	23.33	

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 2

Date	Time	Depth to Water (ft btoc)	Comments
5/13/2007	15:00	23.33	
5/13/2007	16:00	23.34	
5/13/2007	17:00	23.34	
5/13/2007	18:00	23.34	
5/13/2007	19:00	23.34	
5/13/2007	20:00	23.34	
5/13/2007	21:00	23.34	
5/13/2007	22:00	23.34	
5/13/2007	23:00	23.34	
5/14/2007	0:00	23.34	
5/14/2007	1:00	23.34	
5/14/2007	2:00	23.34	
5/14/2007	3:00	23.34	
5/14/2007	4:00	23.34	
5/14/2007	5:00	23.34	
5/14/2007	6:00	23.35	
5/14/2007	7:00	23.34	
5/14/2007	8:00	23.35	
5/14/2007	9:00	23.35	
5/14/2007	10:00	23.36	
5/14/2007	11:00	23.36	
5/14/2007	12:00	23.36	
5/14/2007	13:00	23.36	
5/14/2007	14:00	23.36	
5/14/2007	15:00	23.35	MiniTroll removed.

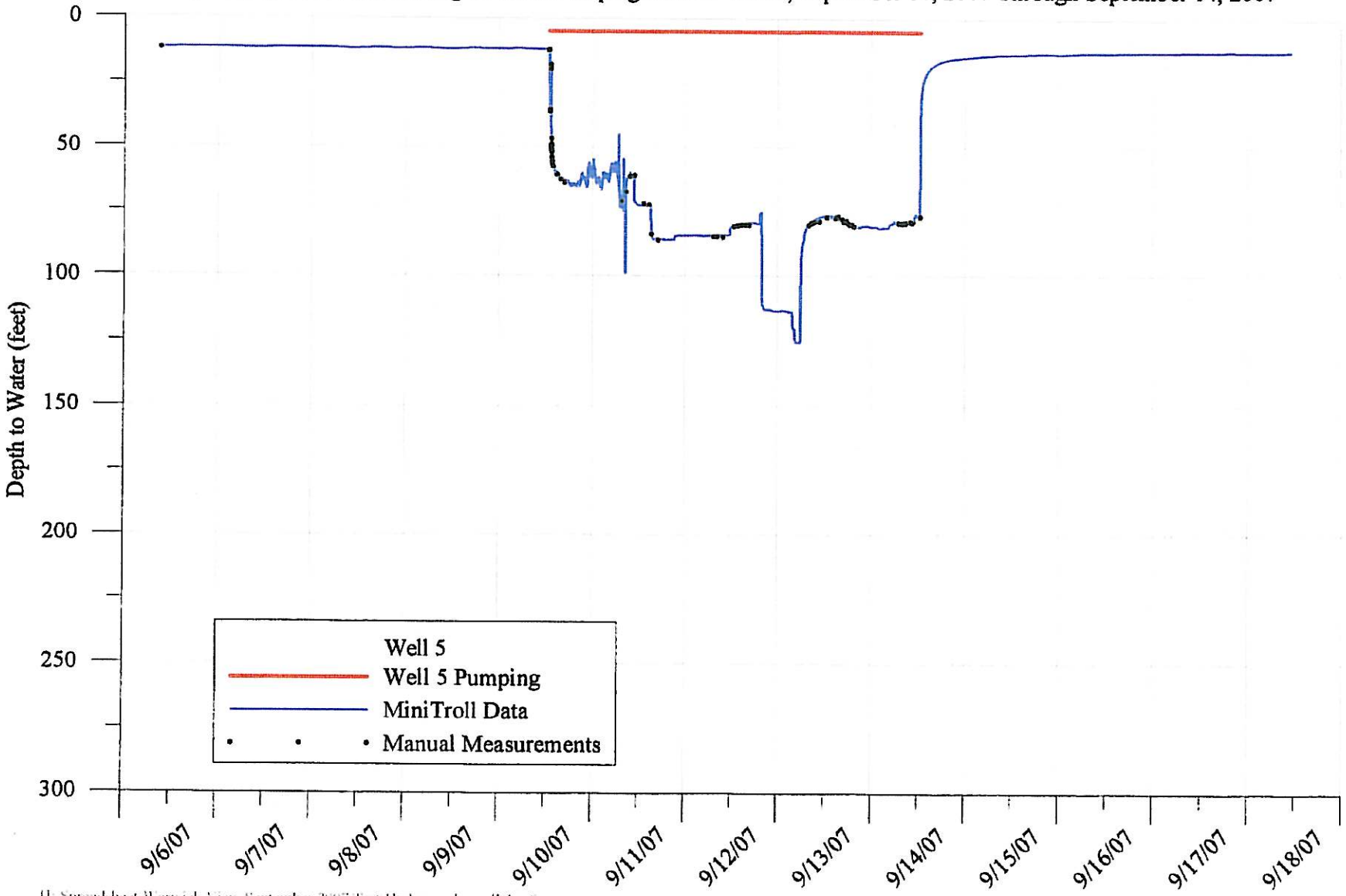
ft btoc Feet below top of casing
gpm Gallons per minute

H:\spreadsheet\Warwick View\Report\Well 2 DTW table.doc

WELL 5

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of Well 5 During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



H:\Spreadsheet\Warwick View\September 2007 Test Hydrographs well 4.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 5

Date	Time	Depth to Water (ft btoc)	Comments
9/6/2007	10:00	11.96	MiniTroll installed in Well 5.
9/6/2007	11:00	11.91	
9/6/2007	12:00	11.85	
9/6/2007	13:00	11.80	
9/6/2007	14:00	11.74	
9/6/2007	15:00	11.69	
9/6/2007	16:00	11.67	
9/6/2007	17:00	11.65	
9/6/2007	18:00	11.66	
9/6/2007	19:00	11.68	
9/6/2007	20:00	11.71	
9/6/2007	21:00	11.73	
9/6/2007	22:00	11.74	
9/6/2007	23:00	11.74	
9/7/2007	0:00	11.73	
9/7/2007	1:00	11.72	
9/7/2007	2:00	11.70	
9/7/2007	3:00	11.70	
9/7/2007	4:00	11.71	
9/7/2007	5:00	11.75	
9/7/2007	6:00	11.79	
9/7/2007	7:00	11.85	
9/7/2007	8:00	11.89	
9/7/2007	9:00	11.92	
9/7/2007	10:00	11.94	
9/7/2007	11:00	11.92	
9/7/2007	12:00	11.88	
9/7/2007	13:00	11.84	
9/7/2007	14:00	11.78	
9/7/2007	15:00	11.73	
9/7/2007	16:00	11.70	
9/7/2007	17:00	11.68	
9/7/2007	18:00	11.69	
9/7/2007	19:00	11.70	
9/7/2007	20:00	11.74	
9/7/2007	21:00	11.78	
9/7/2007	22:00	11.80	
9/7/2007	23:00	11.80	
9/8/2007	0:00	11.78	
9/8/2007	1:00	11.76	
9/8/2007	2:00	11.73	
9/8/2007	3:00	11.72	
9/8/2007	4:00	11.71	
9/8/2007	5:00	11.73	
9/8/2007	6:00	11.77	
9/8/2007	7:00	11.83	
9/8/2007	8:00	11.90	
9/8/2007	9:00	11.95	
9/8/2007	10:00	11.99	
9/8/2007	11:00	12.00	
9/8/2007	12:00	11.97	
9/8/2007	13:00	11.92	
9/8/2007	14:00	11.86	
9/8/2007	15:00	11.80	
9/8/2007	16:00	11.75	
9/8/2007	17:00	11.73	
9/8/2007	18:00	11.73	
9/8/2007	19:00	11.76	
9/8/2007	20:00	11.80	
9/8/2007	21:00	11.84	
9/8/2007	22:00	11.88	

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 5

Date	Time	Depth to Water (ft btoc)	Comments
9/8/2007	23:00	11.89	
9/9/2007	0:00	11.88	
9/9/2007	1:00	11.84	
9/9/2007	2:00	11.81	
9/9/2007	3:00	11.76	
9/9/2007	4:00	11.74	
9/9/2007	5:00	11.75	
9/9/2007	6:00	11.78	
9/9/2007	7:00	11.84	
9/9/2007	8:00	11.91	
9/9/2007	9:00	11.97	
9/9/2007	10:00	12.02	
9/9/2007	11:00	12.05	
9/9/2007	12:00	12.04	
9/9/2007	13:00	11.99	
9/9/2007	14:00	11.93	
9/9/2007	15:00	11.86	
9/9/2007	16:00	11.81	
9/9/2007	17:00	11.78	
9/9/2007	18:00	11.78	
9/9/2007	19:00	11.80	
9/9/2007	20:00	11.84	
9/9/2007	21:00	11.89	
9/9/2007	22:00	11.94	
9/9/2007	23:00	11.95	
9/10/2007	0:00	11.96	
9/10/2007	1:00	11.92	
9/10/2007	2:00	11.88	
9/10/2007	3:00	11.83	
9/10/2007	4:00	11.79	
9/10/2007	5:00	11.78	
9/10/2007	6:00	11.79	
9/10/2007	7:00	11.84	
9/10/2007	8:00	11.90	
9/10/2007	9:00	11.97	
9/10/2007	10:00	12.03	
9/10/2007	11:00	12.07	
9/10/2007	12:00	12.07	
9/10/2007	12:56	12.05	
9/10/2007	12:57	12.05	
9/10/2007	12:58	12.05	
9/10/2007	12:59	12.04	Pump started in Well 5.
9/10/2007	13:00	25.33	Pumping rate 41 gpm
9/10/2007	13:01	34.97	
9/10/2007	13:02	35.78	
9/10/2007	13:03	35.85	
9/10/2007	13:04	35.47	
9/10/2007	13:05	34.50	
9/10/2007	13:06	34.25	
9/10/2007	13:07	35.05	Pump in Well 5 shut down to clear clogged flow meter.
9/10/2007	13:08	36.99	
9/10/2007	13:09	29.06	
9/10/2007	13:10	23.11	
9/10/2007	13:11	20.08	
9/10/2007	13:12	18.37	
9/10/2007	13:13	20.02	
9/10/2007	13:14	22.56	
9/10/2007	13:15	28.04	
9/10/2007	13:16	25.41	
9/10/2007	13:17	20.31	
9/10/2007	13:18	18.15	Pump in Well 5 restarted.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 5

Date	Time	Depth to Water (ft btoc)	Comments
9/10/2007	13:19	16.99	Pumping rate 31 gpm
9/10/2007	13:20	32.10	
9/10/2007	13:21	39.68	
9/10/2007	13:22	42.57	
9/10/2007	13:23	44.91	
9/10/2007	13:24	46.68	
9/10/2007	13:25	48.31	
9/10/2007	13:26	48.34	
9/10/2007	13:27	49.11	
9/10/2007	13:28	50.27	
9/10/2007	13:29	50.42	
9/10/2007	13:30	51.15	
9/10/2007	13:31	51.60	
9/10/2007	13:32	52.27	
9/10/2007	13:33	52.43	
9/10/2007	13:34	53.45	
9/10/2007	13:35	53.52	
9/10/2007	13:36	53.91	
9/10/2007	13:37	53.94	
9/10/2007	13:38	54.16	
9/10/2007	13:39	54.45	
9/10/2007	13:40	55.18	
9/10/2007	13:41	55.39	
9/10/2007	13:42	55.65	
9/10/2007	13:43	55.71	
9/10/2007	13:44	55.87	
9/10/2007	13:45	55.57	
9/10/2007	13:46	56.14	
9/10/2007	13:47	56.15	
9/10/2007	13:48	56.78	
9/10/2007	13:49	56.27	
9/10/2007	13:50	56.92	
9/10/2007	13:51	56.80	
9/10/2007	13:52	56.37	
9/10/2007	13:53	56.57	
9/10/2007	13:54	56.75	
9/10/2007	13:55	57.04	
9/10/2007	13:56	57.14	
9/10/2007	13:57	57.14	
9/10/2007	13:58	57.48	
9/10/2007	13:59	58.13	
9/10/2007	14:00	57.44	
9/10/2007	14:01	57.78	
9/10/2007	14:02	57.75	
9/10/2007	14:03	57.83	
9/10/2007	14:04	58.04	
9/10/2007	14:05	57.84	
9/10/2007	14:06	57.92	
9/10/2007	14:07	58.89	
9/10/2007	14:08	58.45	
9/10/2007	14:09	58.39	
9/10/2007	14:10	58.31	
9/10/2007	14:11	58.17	
9/10/2007	14:12	58.63	
9/10/2007	14:13	58.65	
9/10/2007	14:14	59.09	
9/10/2007	14:15	59.25	
9/10/2007	14:16	59.06	
9/10/2007	14:17	59.28	
9/10/2007	14:18	59.27	
9/10/2007	14:00	57.44	Pumping rate 31 gpm

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 5

Date	Time	Depth to Water (ft btoc)	Comments
9/10/2007	15:00	61.69	Pumping rate 30 gpm
9/10/2007	16:00	62.19	
9/10/2007	17:00	63.04	
9/10/2007	18:00	64.33	
9/10/2007	19:00	65.19	
9/10/2007	20:00	65.25	
9/10/2007	21:00	63.44	
9/10/2007	22:00	62.60	
9/10/2007	23:00	59.98	
9/11/2007	0:00	61.28	
9/11/2007	1:00	63.91	
9/11/2007	2:00	65.47	
9/11/2007	3:00	60.01	
9/11/2007	4:00	63.18	
9/11/2007	5:00	56.79	
9/11/2007	6:00	58.44	
9/11/2007	7:00	66.36	
9/11/2007	8:00	70.97	
9/11/2007	8:08	73.45	Pumping rate 30 gpm
9/11/2007	8:09	75.05	Pump shut down in Well 5 to replace malfunctioning flow meter.
9/11/2007	8:10	68.87	Pump in Well 5 restarted.
9/11/2007	8:11	54.57	Pumping rate 30 gpm
9/11/2007	9:00	63.10	
9/11/2007	10:00	60.60	
9/11/2007	11:00	66.01	Manually increased pumping rate to 32 gpm.
9/11/2007	12:00	72.84	
9/11/2007	13:00	72.63	Pumping rate 31 gpm
9/11/2007	14:00	73.14	Pumping rate 30 gpm
9/11/2007	15:00	73.13	Manually increased pumping rate to 36 gpm.
9/11/2007	16:00	86.03	
9/11/2007	17:00	85.82	Pumping rate 35 gpm
9/11/2007	18:00	85.97	
9/11/2007	19:00	86.21	
9/11/2007	20:00	86.16	
9/11/2007	21:00	86.01	
9/11/2007	22:00	84.72	
9/11/2007	23:00	84.68	
9/12/2007	0:00	84.61	
9/12/2007	1:00	84.55	
9/12/2007	2:00	84.56	
9/12/2007	3:00	84.56	
9/12/2007	4:00	84.61	
9/12/2007	5:00	84.64	
9/12/2007	6:00	84.55	
9/12/2007	7:00	84.63	Pumping rate 32 gpm
9/12/2007	8:00	84.44	
9/12/2007	9:00	84.36	
9/12/2007	10:00	84.61	
9/12/2007	11:00	84.39	
9/12/2007	12:00	81.10	
9/12/2007	13:00	80.49	
9/12/2007	14:00	80.11	
9/12/2007	15:00	79.97	
9/12/2007	16:00	79.82	
9/12/2007	17:00	79.73	
9/12/2007	18:00	79.76	
9/12/2007	19:00	79.94	
9/12/2007	19:23	80.04	Pumping rate 32 gpm
9/12/2007	19:24	80.05	Rate began to decrease due to a clogged discharge line.
9/12/2007	19:54	84.16	Pumping rate manually increased to 40 gpm to compensate for clogged discharge line.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 5

Date	Time	Depth to Water (ft btoc)	Comments
9/12/2007	19:55	93.38	Pumping rate 40 gpm
9/12/2007	20:00	106.22	
9/12/2007	21:00	112.97	
9/12/2007	22:00	112.97	
9/12/2007	23:00	113.50	
9/13/2007	0:00	113.68	
9/13/2007	1:00	113.37	
9/13/2007	2:00	113.40	
9/13/2007	3:00	113.87	
9/13/2007	4:00	120.29	
9/13/2007	5:00	125.44	Pumping rate increased to 50 gpm because of dislodging of obstruction in the discharge line.
9/13/2007	5:49	125.13	
9/13/2007	5:50	124.46	Pumping rate manually decreased to 32 gpm.
9/13/2007	5:51	123.23	
9/13/2007	6:00	96.33	
9/13/2007	7:00	82.84	
9/13/2007	8:00	79.94	
9/13/2007	9:00	78.64	
9/13/2007	10:00	77.87	
9/13/2007	11:00	77.28	
9/13/2007	12:00	76.98	
9/13/2007	13:00	76.81	
9/13/2007	14:00	77.40	
9/13/2007	15:00	76.52	
9/13/2007	16:00	78.35	
9/13/2007	17:00	78.59	Pumping rate 32 gpm
9/13/2007	18:00	79.26	
9/13/2007	19:00	80.50	
9/13/2007	20:00	81.02	
9/13/2007	21:00	81.29	
9/13/2007	22:00	80.83	
9/13/2007	23:00	80.80	
9/14/2007	0:00	81.22	
9/14/2007	1:00	81.18	
9/14/2007	2:00	81.70	
9/14/2007	3:00	81.60	
9/14/2007	4:00	81.49	
9/14/2007	5:00	79.94	
9/14/2007	6:00	79.48	
9/14/2007	7:00	79.31	Pumping rate 32 gpm
9/14/2007	8:00	79.23	
9/14/2007	9:00	79.00	
9/14/2007	10:00	78.89	
9/14/2007	11:00	78.27	
9/14/2007	12:00	76.93	
9/14/2007	12:30	76.85	Pumping rate 32 gpm
9/14/2007	12:31	76.83	Pump in Well 5 shut down.
9/14/2007	12:32	76.80	
9/14/2007	12:33	66.25	
9/14/2007	12:34	54.59	
9/14/2007	12:35	47.72	
9/14/2007	12:36	43.53	
9/14/2007	12:37	40.76	
9/14/2007	12:38	38.77	
9/14/2007	12:39	37.25	
9/14/2007	12:40	36.04	
9/14/2007	12:41	35.05	
9/14/2007	12:42	34.21	
9/14/2007	12:43	33.47	
9/14/2007	12:44	32.84	

WARWICK VIEWS SUBDIVISION
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Summary of Depth Water Measurements Collected from Well 5

Date	Time	Depth to Water (ft btoc)	Comments
9/14/2007	12:45	32.27	
9/14/2007	12:46	31.76	
9/14/2007	12:47	31.30	
9/14/2007	12:48	30.87	
9/14/2007	12:49	30.48	
9/14/2007	12:50	30.12	
9/14/2007	12:51	29.77	
9/14/2007	12:52	29.46	
9/14/2007	12:53	29.16	
9/14/2007	12:54	28.87	
9/14/2007	12:55	28.60	
9/14/2007	12:56	28.35	
9/14/2007	12:57	28.11	
9/14/2007	12:58	27.89	
9/14/2007	12:59	27.66	
9/14/2007	13:00	27.45	
9/14/2007	13:01	27.25	
9/14/2007	13:02	27.06	
9/14/2007	13:03	26.88	
9/14/2007	13:04	26.69	
9/14/2007	13:05	26.52	
9/14/2007	13:06	26.35	
9/14/2007	13:07	26.19	
9/14/2007	13:08	26.04	
9/14/2007	13:09	25.89	
9/14/2007	13:10	25.74	
9/14/2007	13:11	25.60	
9/14/2007	13:12	25.46	
9/14/2007	13:13	25.33	
9/14/2007	13:14	25.20	
9/14/2007	13:15	25.07	
9/14/2007	13:16	24.95	
9/14/2007	13:17	24.83	
9/14/2007	13:18	24.71	
9/14/2007	13:19	24.60	
9/14/2007	13:20	24.48	
9/14/2007	13:21	24.37	
9/14/2007	13:22	24.27	
9/14/2007	13:23	24.16	
9/14/2007	13:24	24.06	
9/14/2007	13:25	23.96	
9/14/2007	13:26	23.86	
9/14/2007	13:27	23.77	
9/14/2007	13:28	23.68	
9/14/2007	13:29	23.59	
9/14/2007	13:30	23.50	
9/14/2007	13:31	23.42	
9/14/2007	13:00	27.45	
9/14/2007	15:00	19.22	
9/14/2007	16:00	17.94	Well 5 90% recovered to pre-test static water-level.
9/14/2007	17:00	17.08	
9/14/2007	18:00	16.47	
9/14/2007	19:00	16.02	
9/14/2007	20:00	15.69	
9/14/2007	21:00	15.44	
9/14/2007	22:00	15.26	
9/14/2007	23:00	15.11	
9/15/2007	0:00	14.97	
9/15/2007	1:00	14.84	
9/15/2007	2:00	14.70	
9/15/2007	3:00	14.55	

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 5

Date	Time	Depth to Water (ft btoc)	Comments
9/15/2007	4:00	14.40	
9/15/2007	5:00	14.25	
9/15/2007	6:00	14.12	
9/15/2007	7:00	14.01	
9/15/2007	8:00	13.94	
9/15/2007	9:00	13.90	
9/15/2007	10:00	13.86	
9/15/2007	11:00	13.83	
9/15/2007	12:00	13.82	
9/15/2007	13:00	13.78	
9/15/2007	14:00	13.73	
9/15/2007	15:00	13.67	
9/15/2007	16:00	13.60	
9/15/2007	17:00	13.53	
9/15/2007	18:00	13.47	
9/15/2007	19:00	13.43	
9/15/2007	20:00	13.41	
9/15/2007	21:00	13.41	
9/15/2007	22:00	13.42	
9/15/2007	23:00	13.44	
9/16/2007	0:00	13.46	
9/16/2007	1:00	13.46	
9/16/2007	2:00	13.44	
9/16/2007	3:00	13.39	
9/16/2007	4:00	13.35	
9/16/2007	5:00	13.28	
9/16/2007	6:00	13.22	
9/16/2007	7:00	13.17	
9/16/2007	8:00	13.13	
9/16/2007	9:00	13.10	
9/16/2007	10:00	13.10	
9/16/2007	11:00	13.11	
9/16/2007	12:00	13.11	
9/16/2007	13:00	13.11	
9/16/2007	14:00	13.09	
9/16/2007	15:00	13.06	
9/16/2007	16:00	13.02	
9/16/2007	17:00	12.99	
9/16/2007	18:00	12.94	
9/16/2007	19:00	12.93	
9/16/2007	20:00	12.91	
9/16/2007	21:00	12.93	
9/16/2007	22:00	12.96	
9/16/2007	23:00	12.99	
9/17/2007	0:00	13.02	
9/17/2007	1:00	13.04	
9/17/2007	2:00	13.05	
9/17/2007	3:00	13.04	
9/17/2007	4:00	13.01	
9/17/2007	5:00	12.97	
9/17/2007	6:00	12.94	
9/17/2007	7:00	12.90	
9/17/2007	8:00	12.87	
9/17/2007	9:00	12.85	
9/17/2007	10:00	12.84	
9/17/2007	11:00	12.84	
9/17/2007	12:00	12.84	
9/17/2007	13:00	12.84	
9/17/2007	14:00	12.83	
9/17/2007	15:00	12.81	
9/17/2007	16:00	12.80	

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Depth Water Measurements Collected from Well 5

Date	Time	Depth to Water (ft btoc)	Comments
9/17/2007	17:00	12.76	
9/17/2007	18:00	12.75	
9/17/2007	19:00	12.73	
9/17/2007	20:00	12.72	
9/17/2007	21:00	12.73	
9/17/2007	22:00	12.76	
9/17/2007	23:00	12.78	
9/18/2007	0:00	12.81	
9/18/2007	1:00	12.84	
9/18/2007	2:00	12.86	
9/18/2007	3:00	12.87	
9/18/2007	4:00	12.86	
9/18/2007	5:00	12.84	
9/18/2007	6:00	12.82	
9/18/2007	7:00	12.80	
9/18/2007	8:00	12.77	
9/18/2007	9:00	12.75	
9/18/2007	10:00	12.73	
9/18/2007	11:00	12.72	MiniTroll removed from well.

ft btoc Feet below top of casing
gpm Gallons per minute

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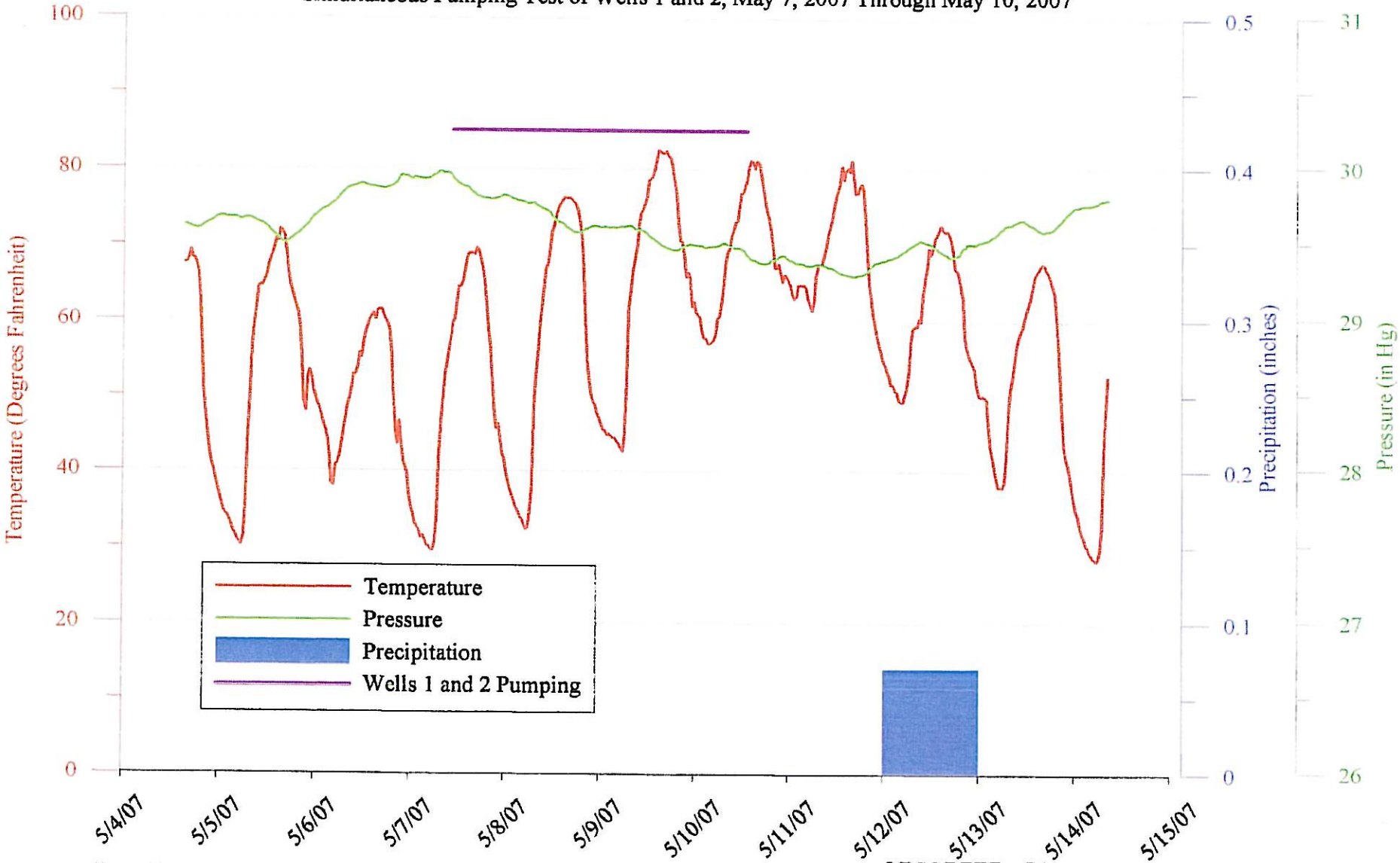
APPENDIX III

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Graph of Temperature, Precipitation, and Barometric Pressure Readings Collected During Simultaneous Pumping Test of Wells 1 and 2, May 7, 2007 Through May 10, 2007



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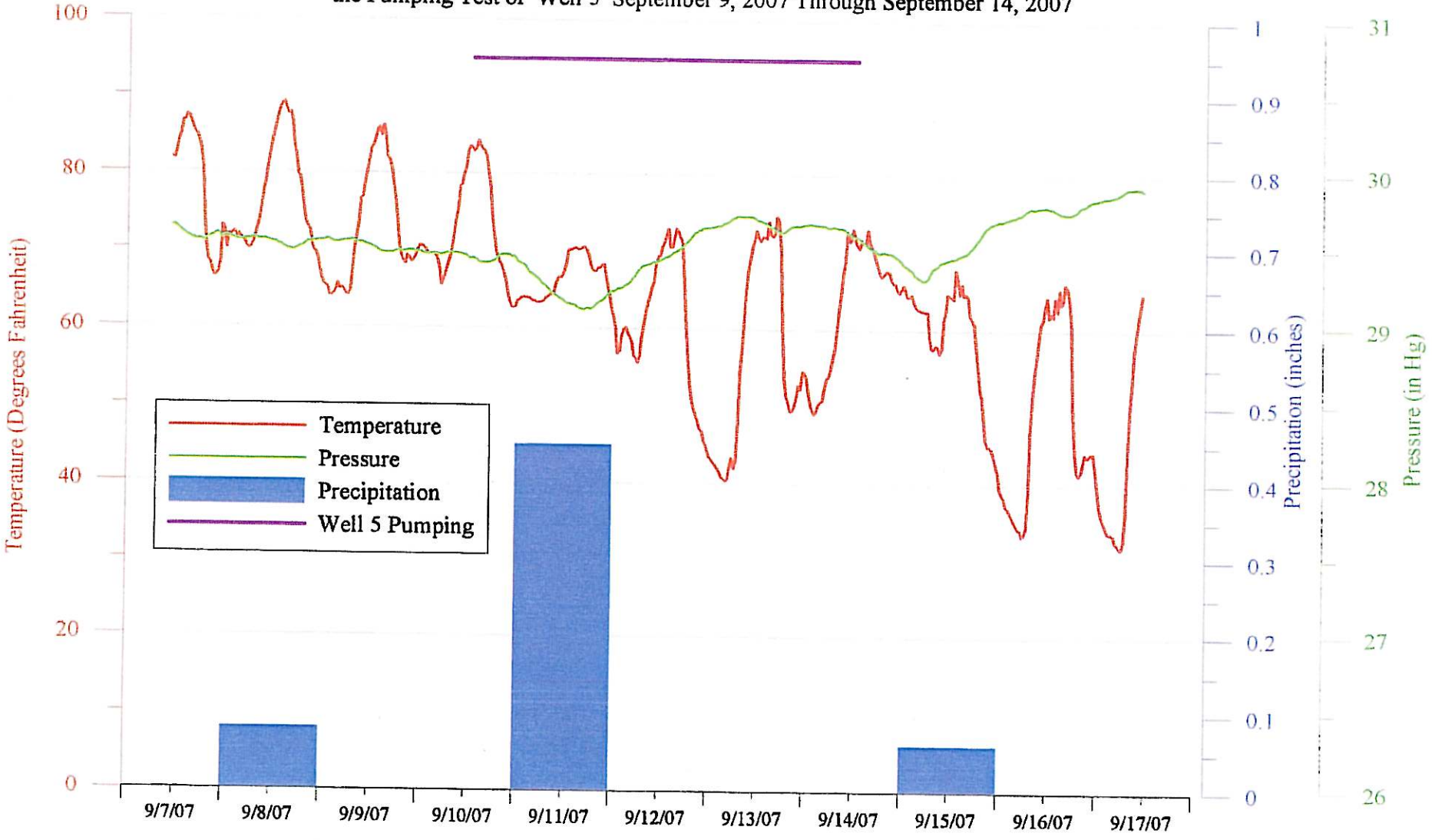
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Graph of Temperature, Precipitation, and Barometric Pressure Readings Collected During the Pumping Test of Well 5 September 9, 2007 Through September 14, 2007



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APPENDIX IV

WELLS 1 AND 2

WELL MONITORING NETWORK

LEGGETTE, BRASHEARS & GRAHAM, INC.

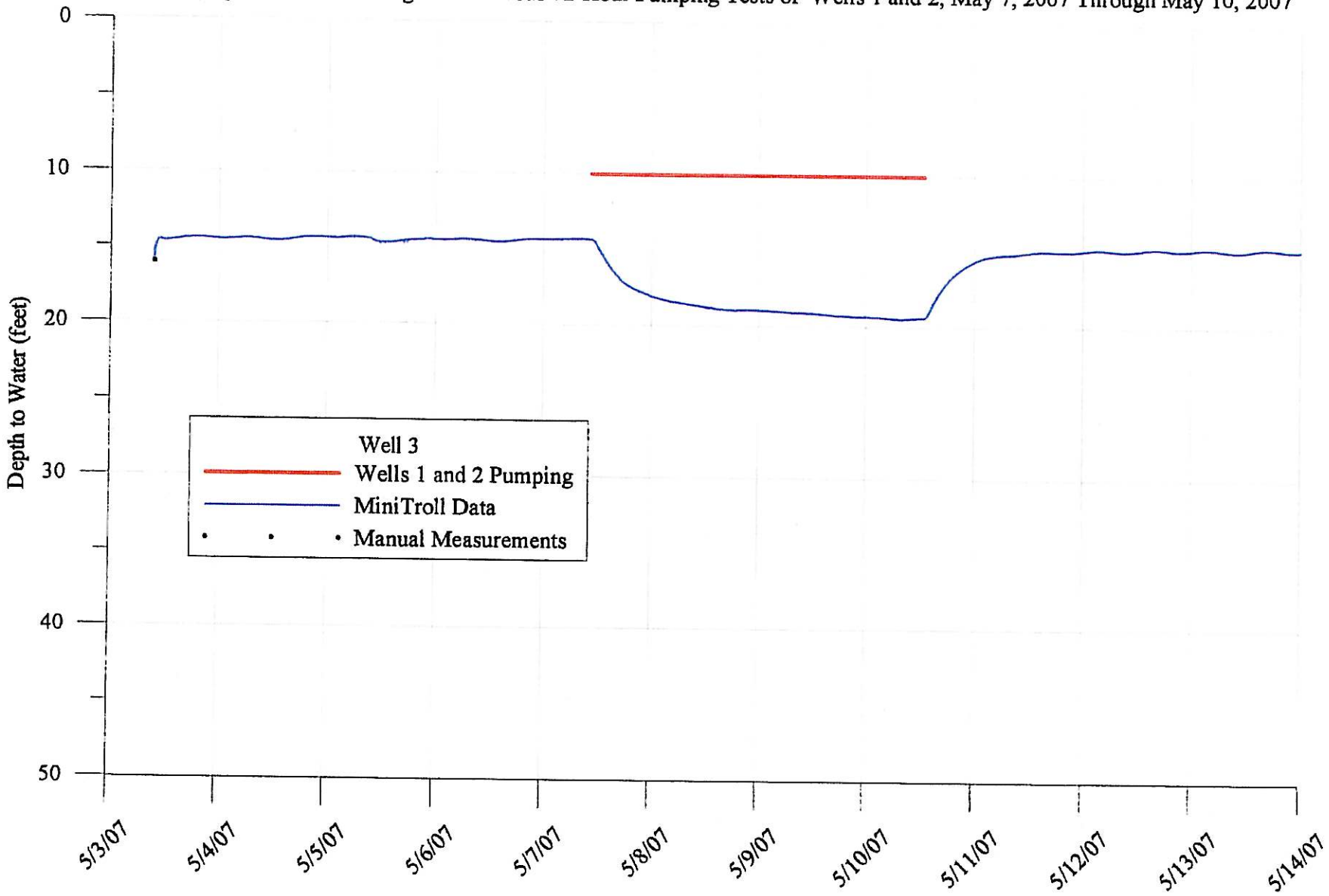
WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Approximate Drawdown Observed During the Pumping of Wells1 and 2 and Approximate Distance to Pumping Wells

Location ID	Approximate Drawdown Observed (feet)	Approximate Distance from Well 1 (feet)	Approximate Distance from Well 2 (feet)
Onsite			
Well 3	5.0	1,600	2,100
PZ-A	0.2	100	600
PZ-B	ND	100	600
Offsite			
Luft Property–Lot 22	ND	3,000	2,800
Luft Property–Lot 16	ND	2,300	2,300
Luft Property–Lot 7	ND	2,900	2,800
343 County Highway 1	ND	3,450	2,900
5 Amity Road	ND	2,800	2,300
23 Stonehenge Road	ND	2,900	2,700
15 Almond Tree Lane	ND	2,600	3,200
71 Waterbury Road (Garage Well)	ND	3,000	3,500
71 Waterbury Road (Pond Well)	ND	3,200	3,700
76 Waterbury Road	ND	2,500	3,100
90 Waterbury Road	ND	1,900	2,500
4 Blooms Corners Road	ND	3,100	3,500
18 Blooms Corners Road	ND	2,400	2,800
25 Blooms Corners Road	ND	2,200	2,700
52 Blooms Corners Road	ND	1,700	2,200
56 Blooms Corners Road	ND	1,700	2,100
57 Blooms Corners Road	ND	2,100	2,500

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of Well 3 During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2, May 7, 2007 Through May 10, 2007



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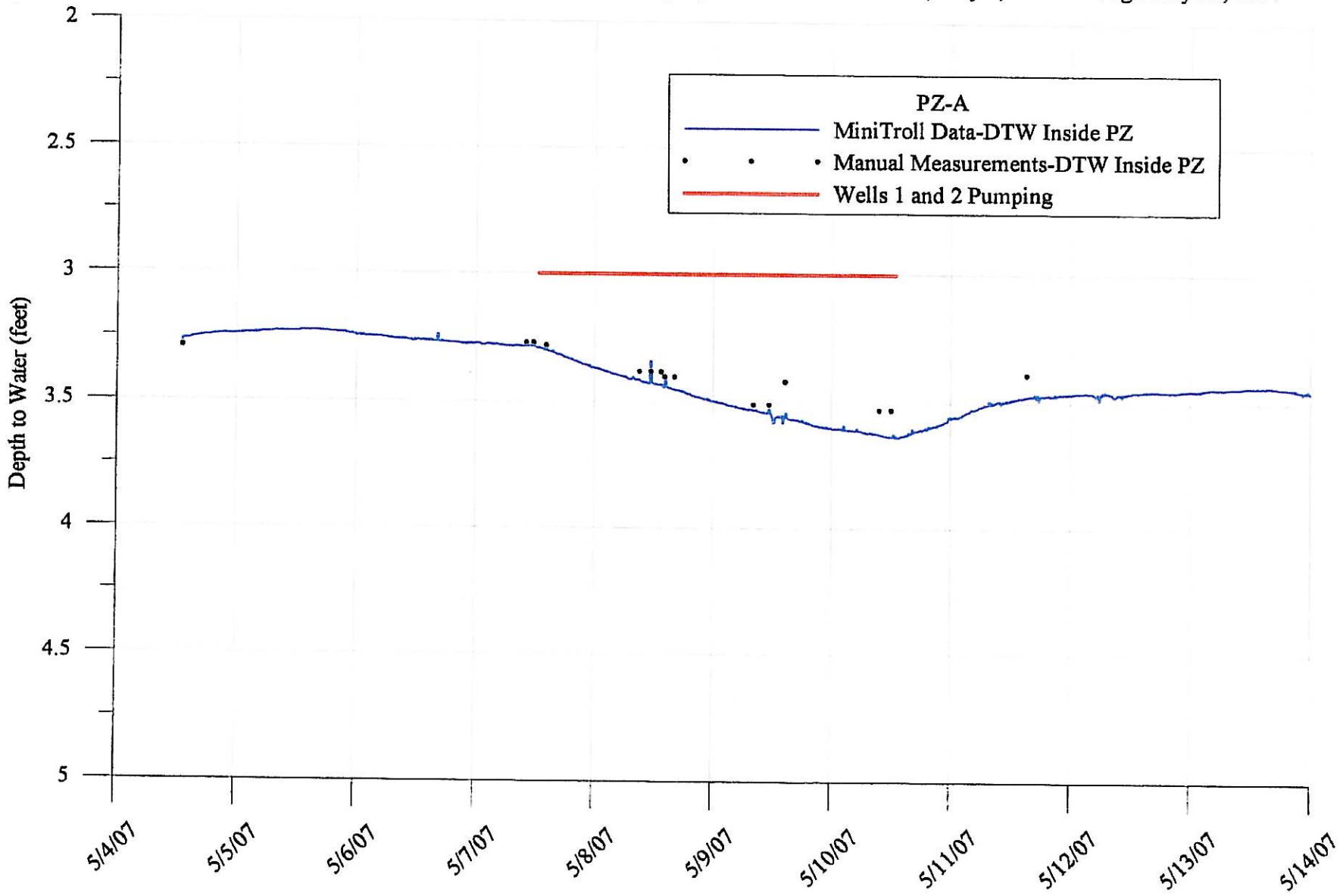
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of PZ-A During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2, May 7, 2007 Through May 10, 2007



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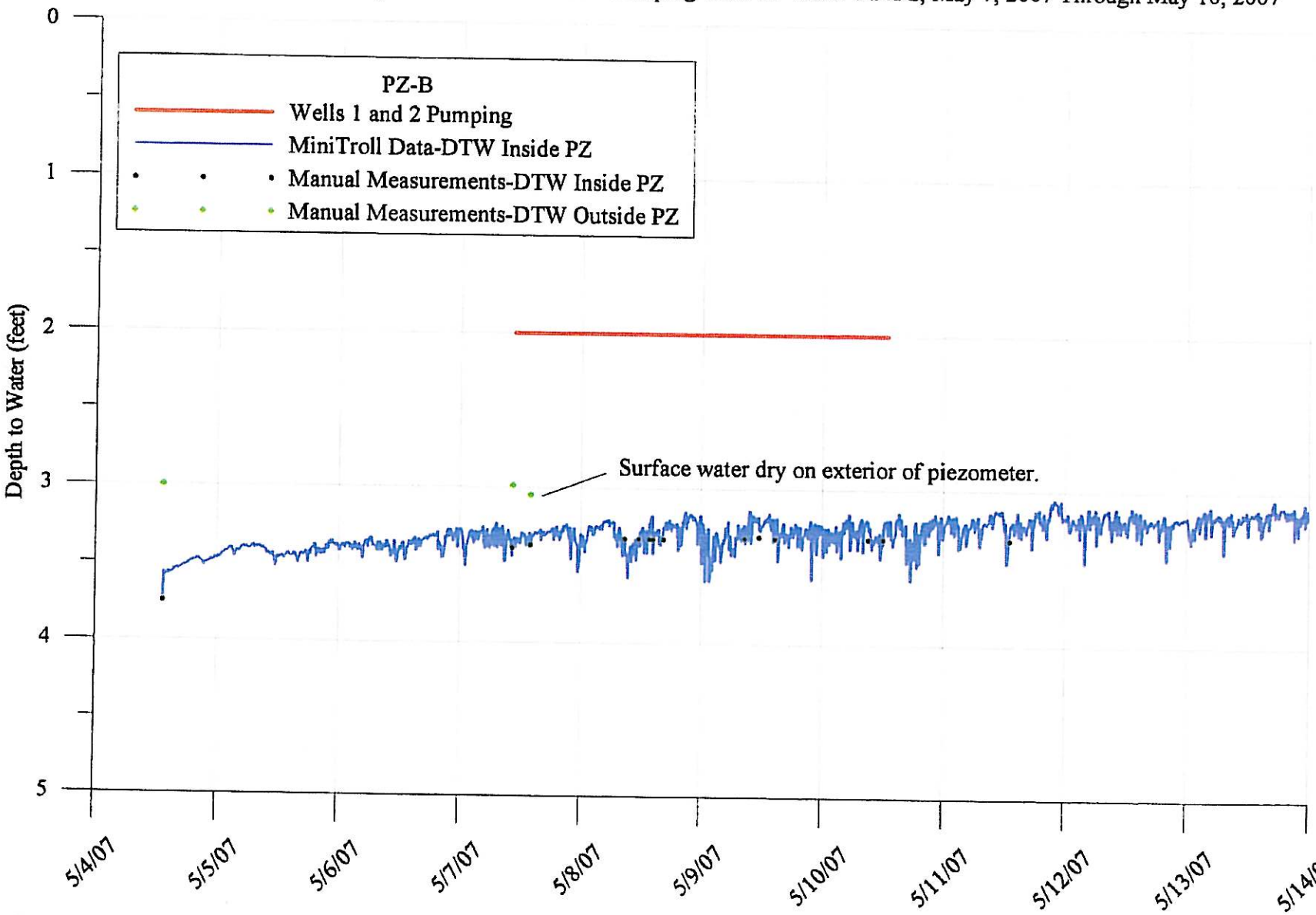
WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of PZ-B During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2, May 7, 2007 Through May 10, 2007



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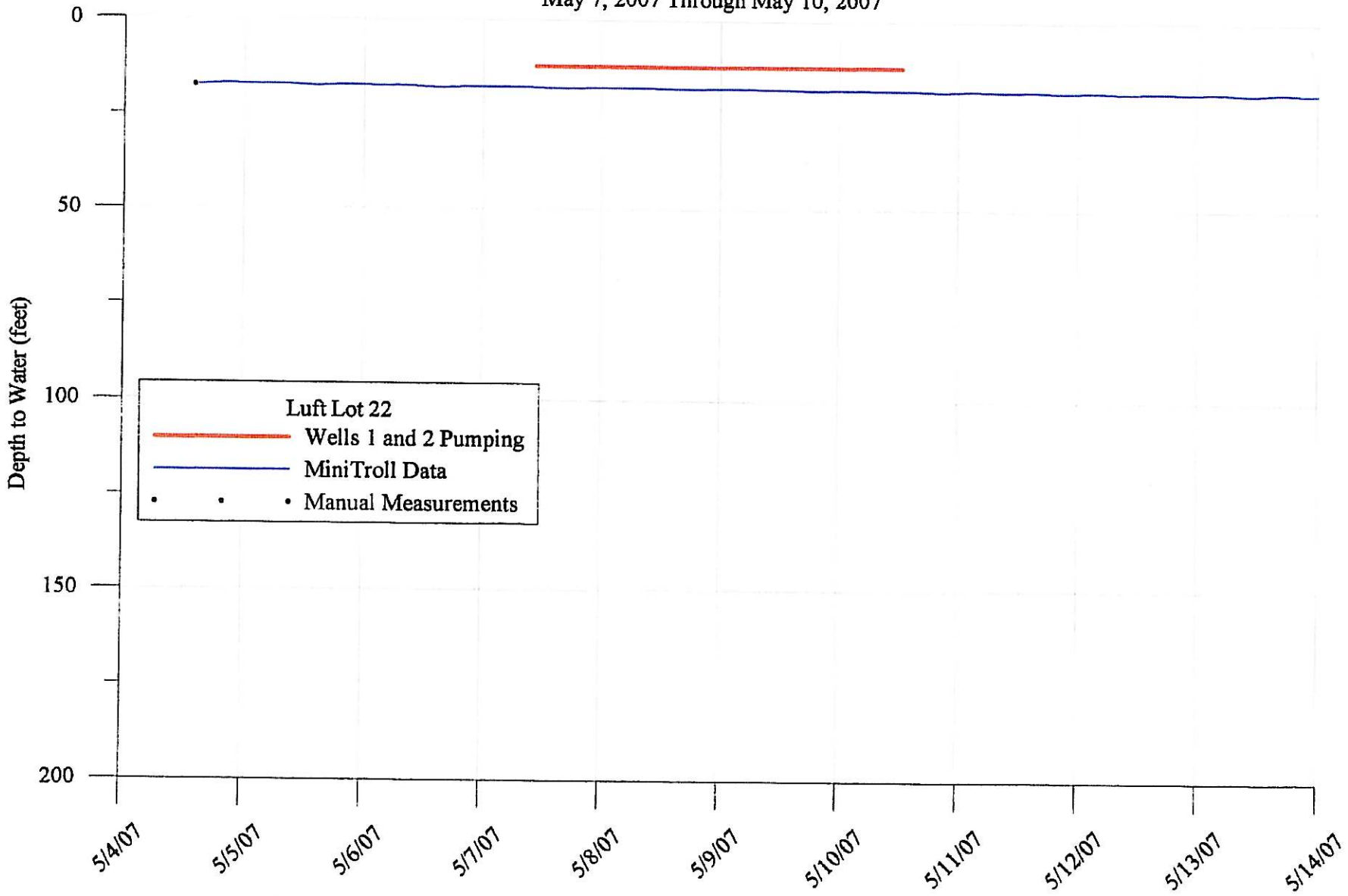
WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of Luft Property-Lot 22 Well During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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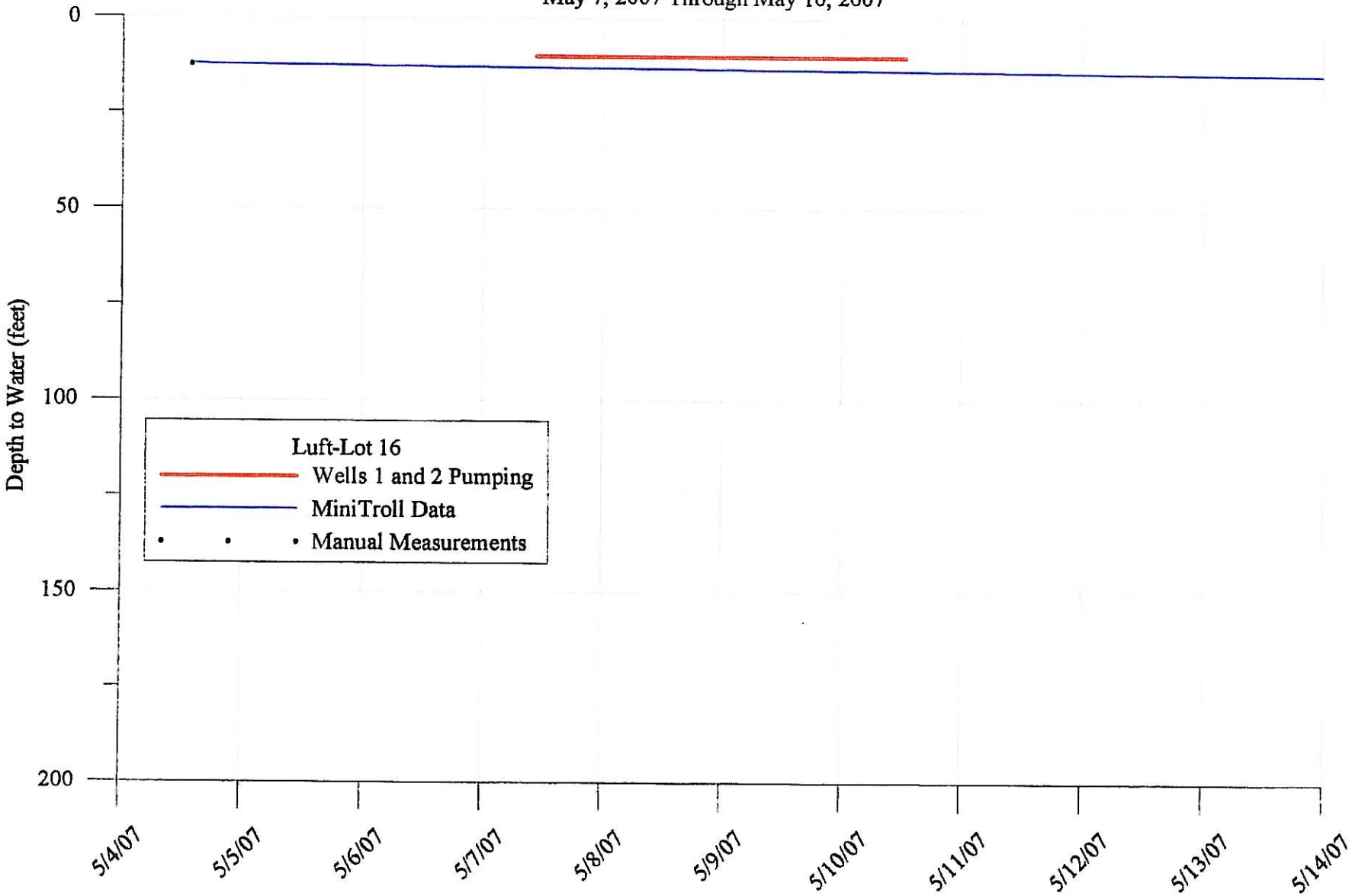
WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of Luft Property-Lot 16 Well During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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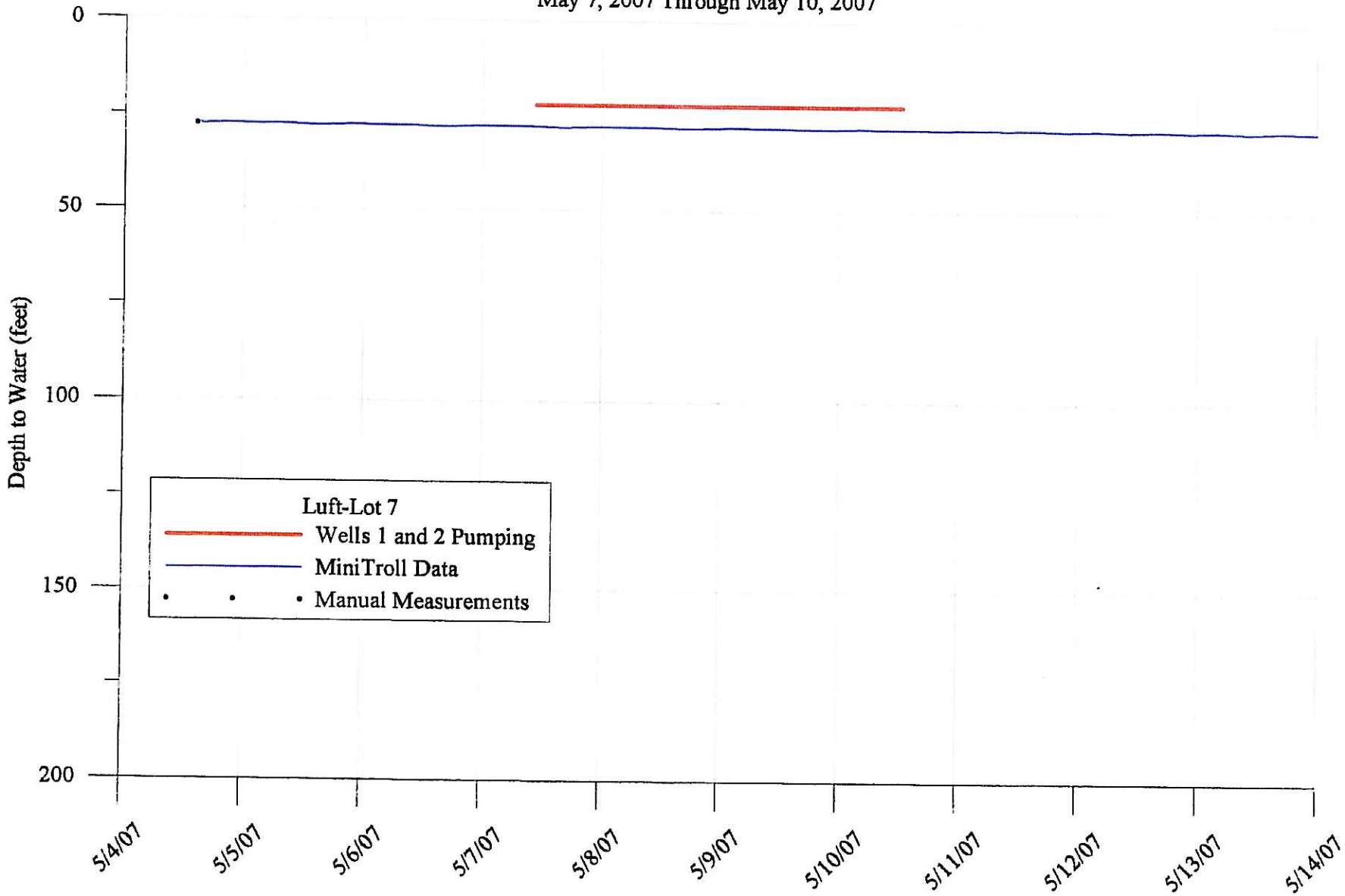
WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of Luft Property-Lot 7 Well During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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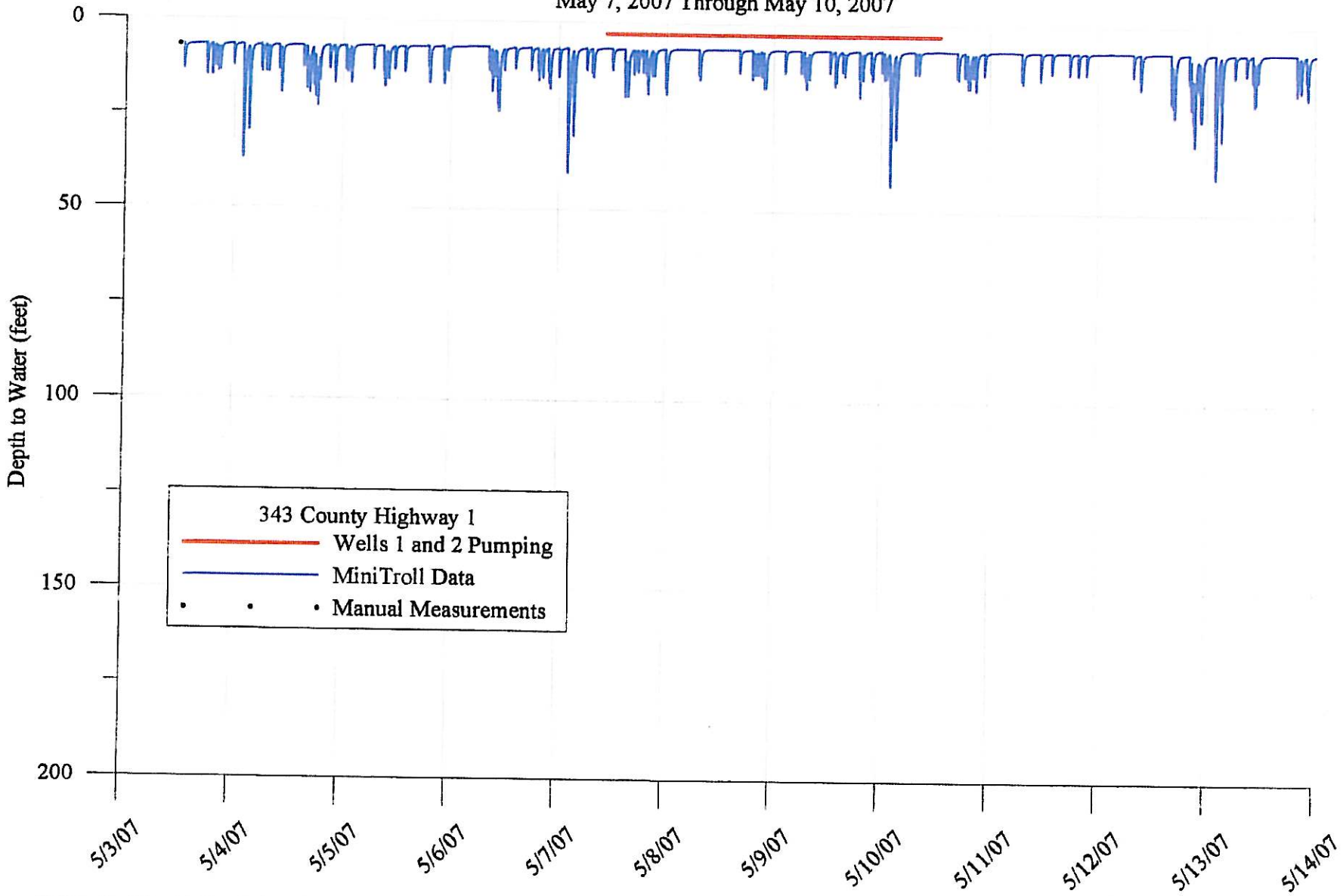
WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 343 County Highway 1 During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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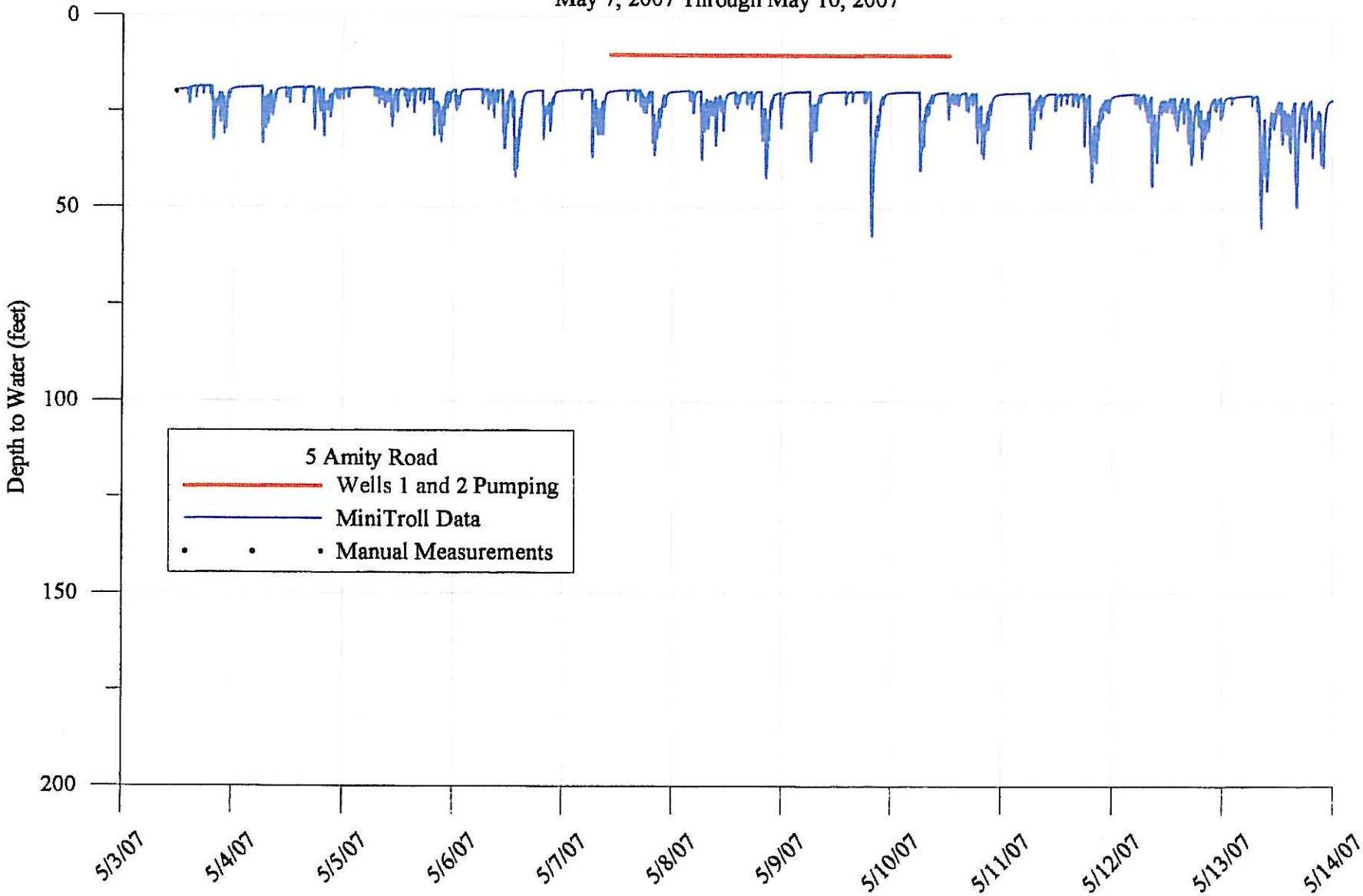
WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 5 Amity Road During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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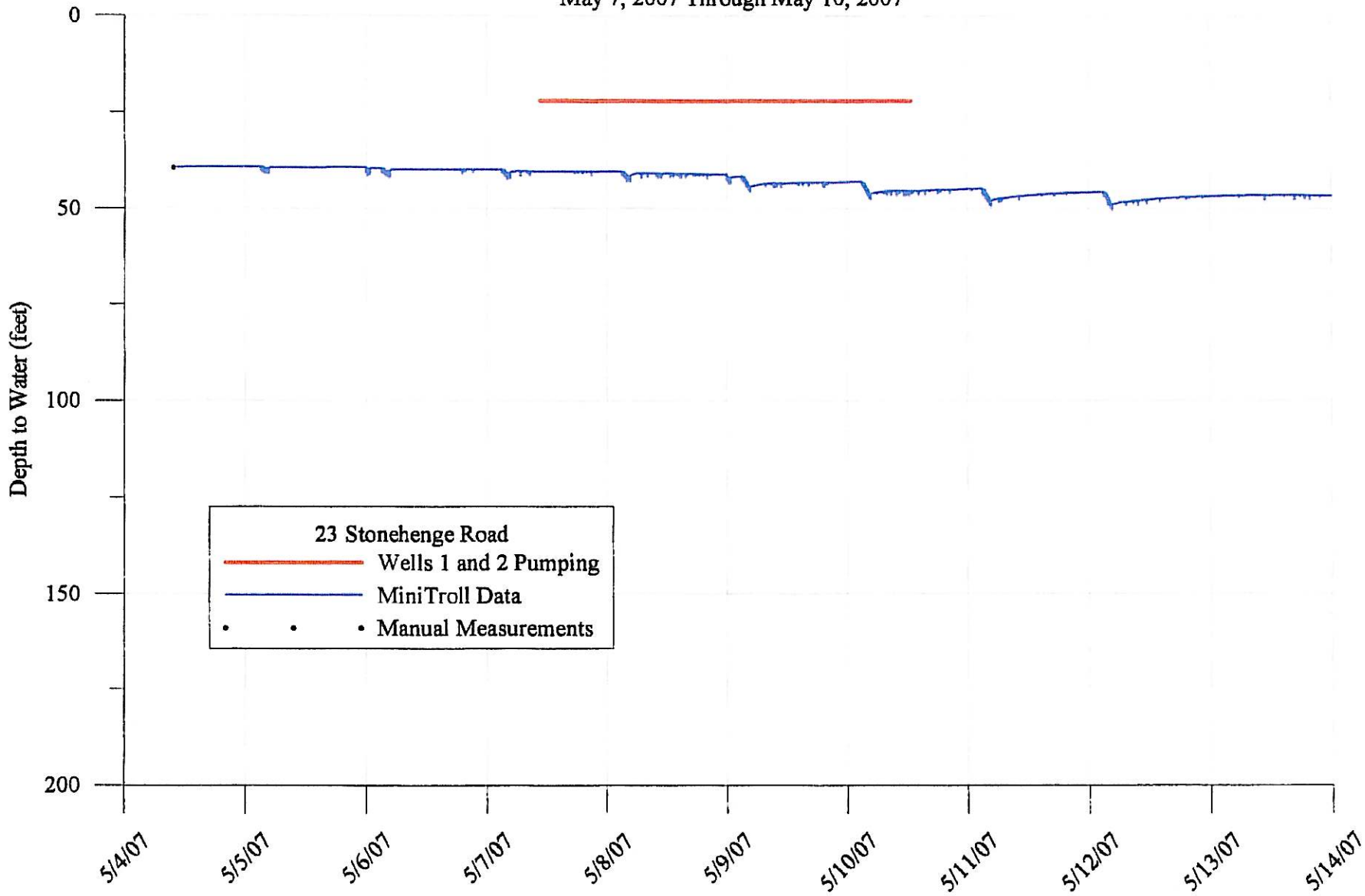
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 23 Stonehenge Road During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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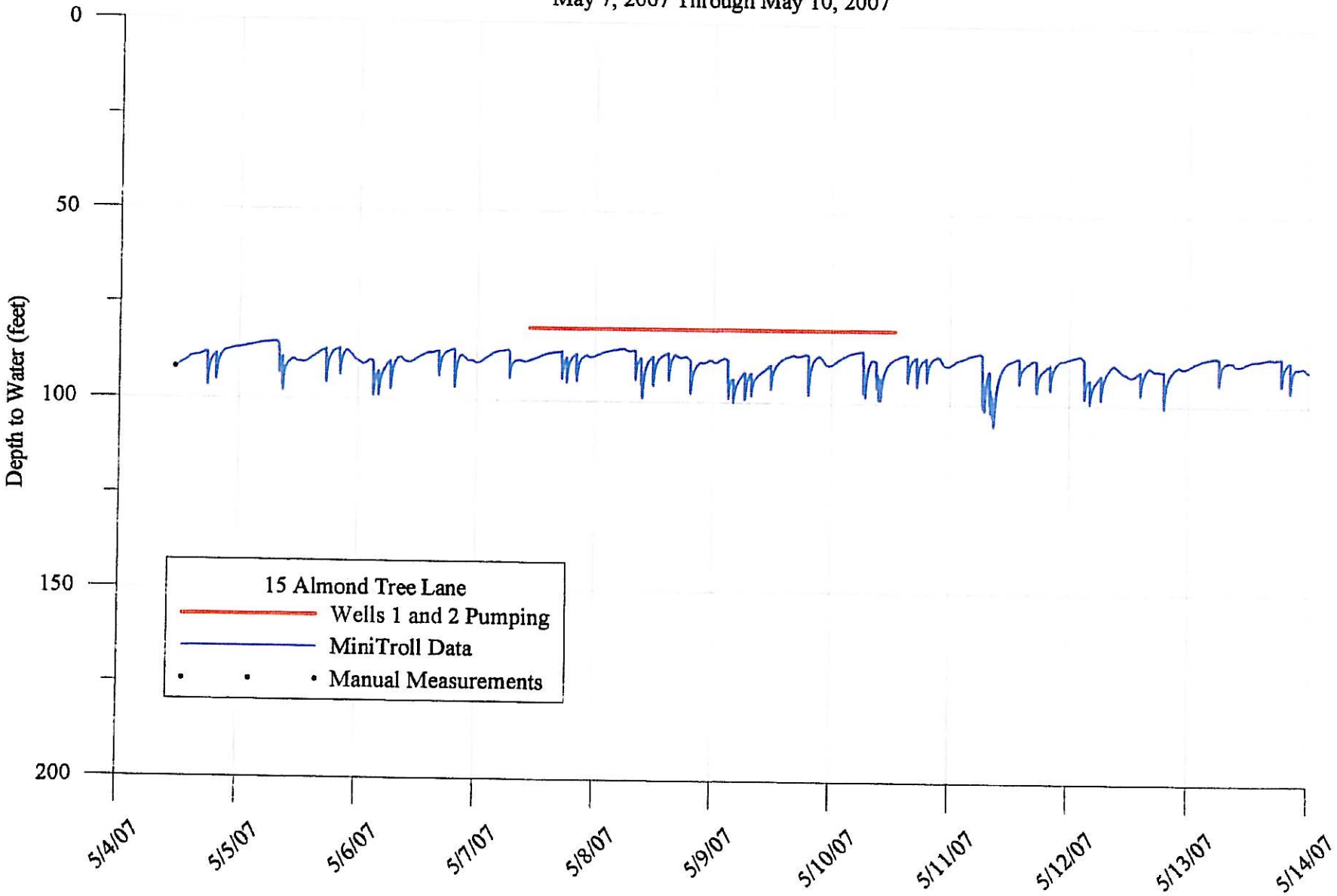
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 15 Almond Tree Lane During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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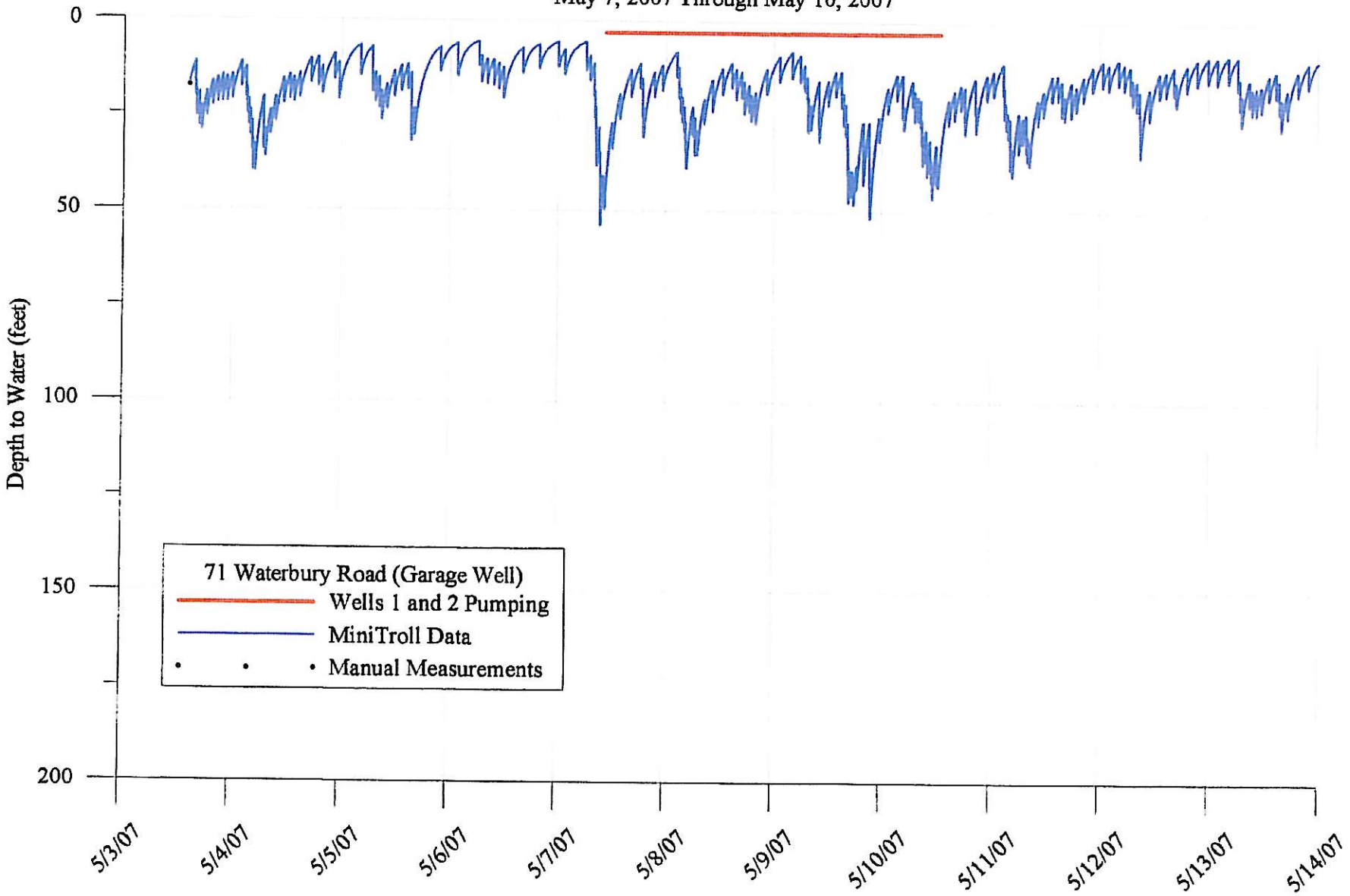
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 71 Waterbury Road During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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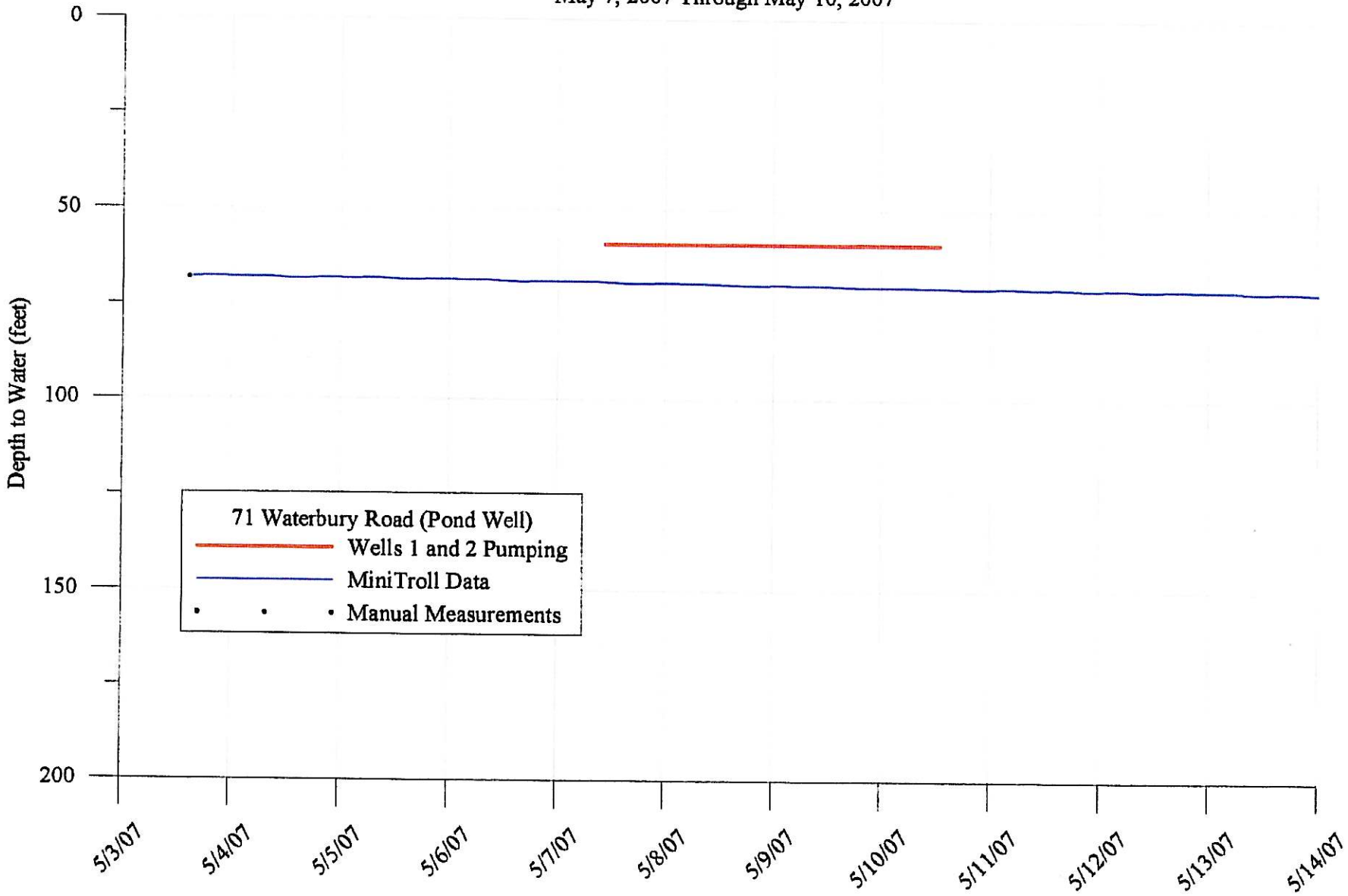
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 71 Waterbury Road During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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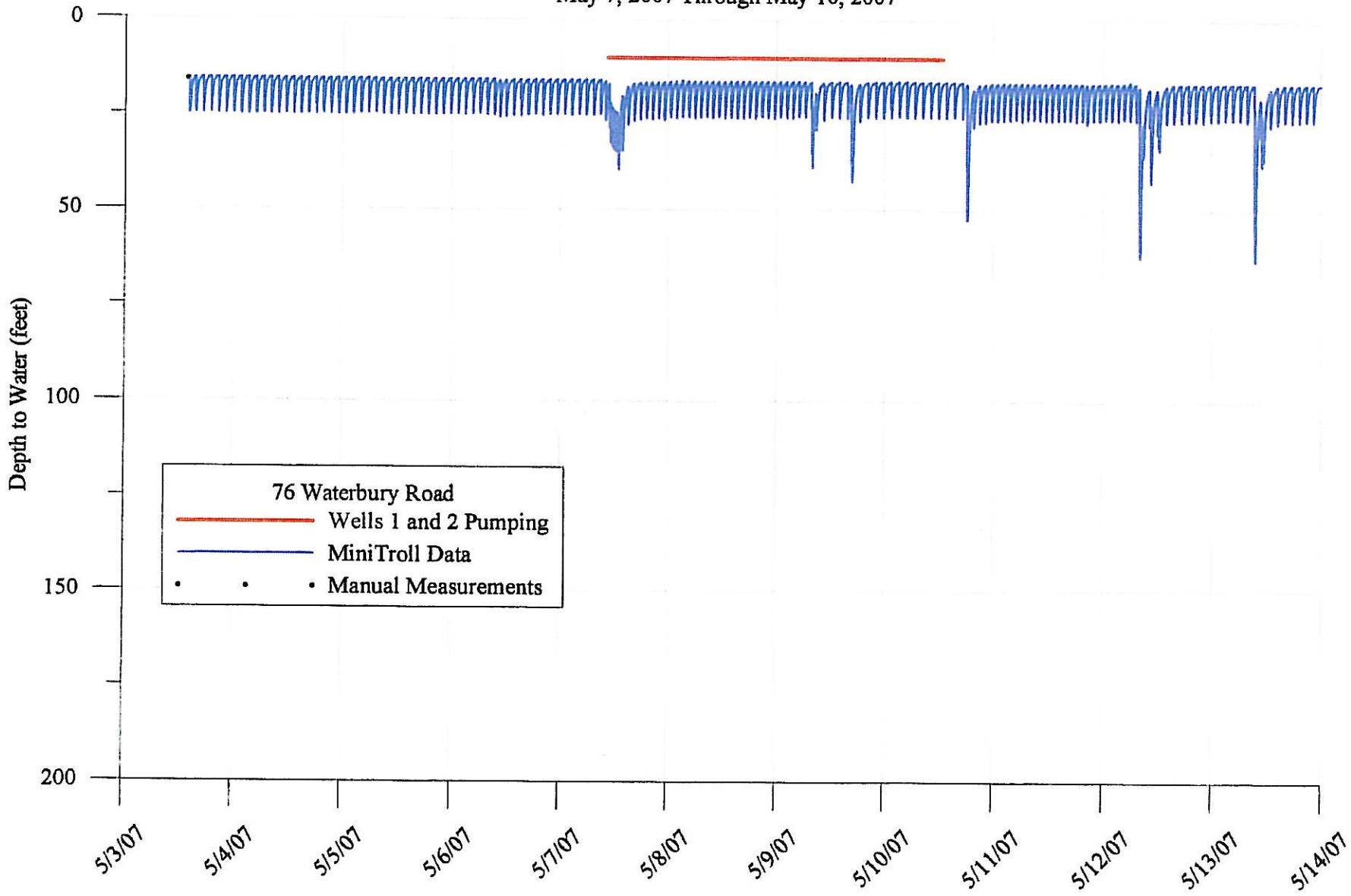
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 76 Waterbury Road During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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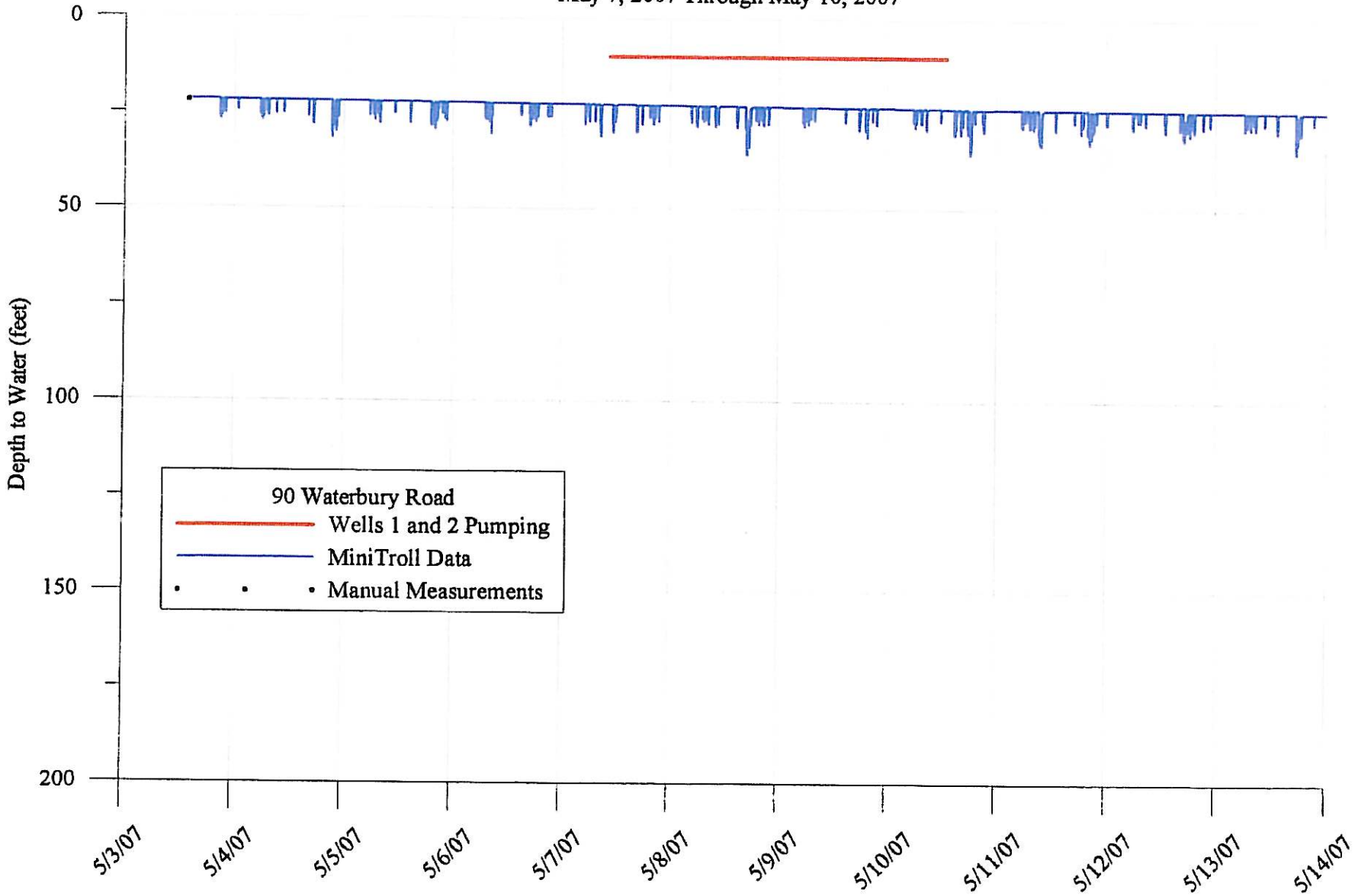
WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 90 Waterbury Road During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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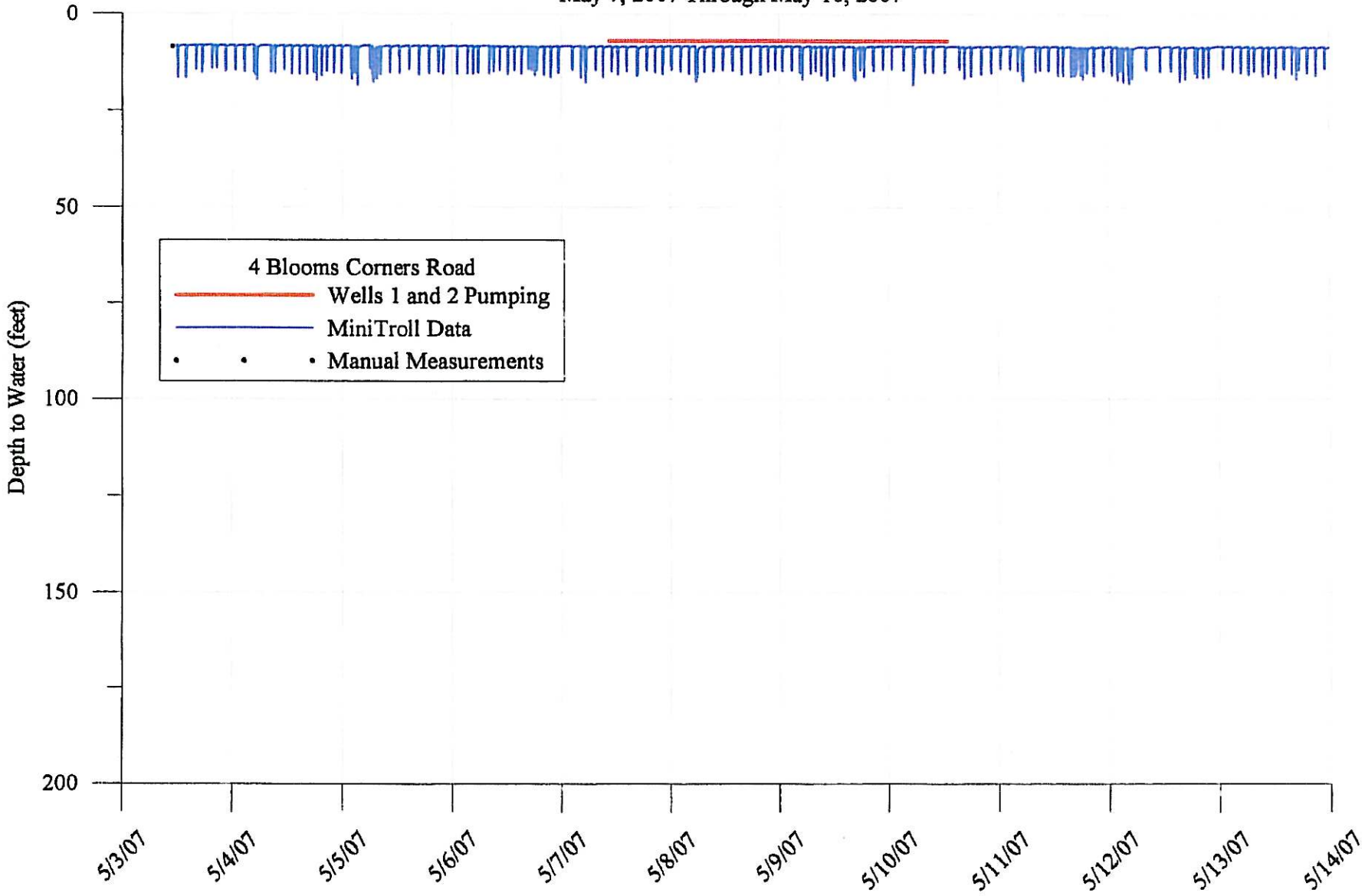
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 4 Blooms Corners Road During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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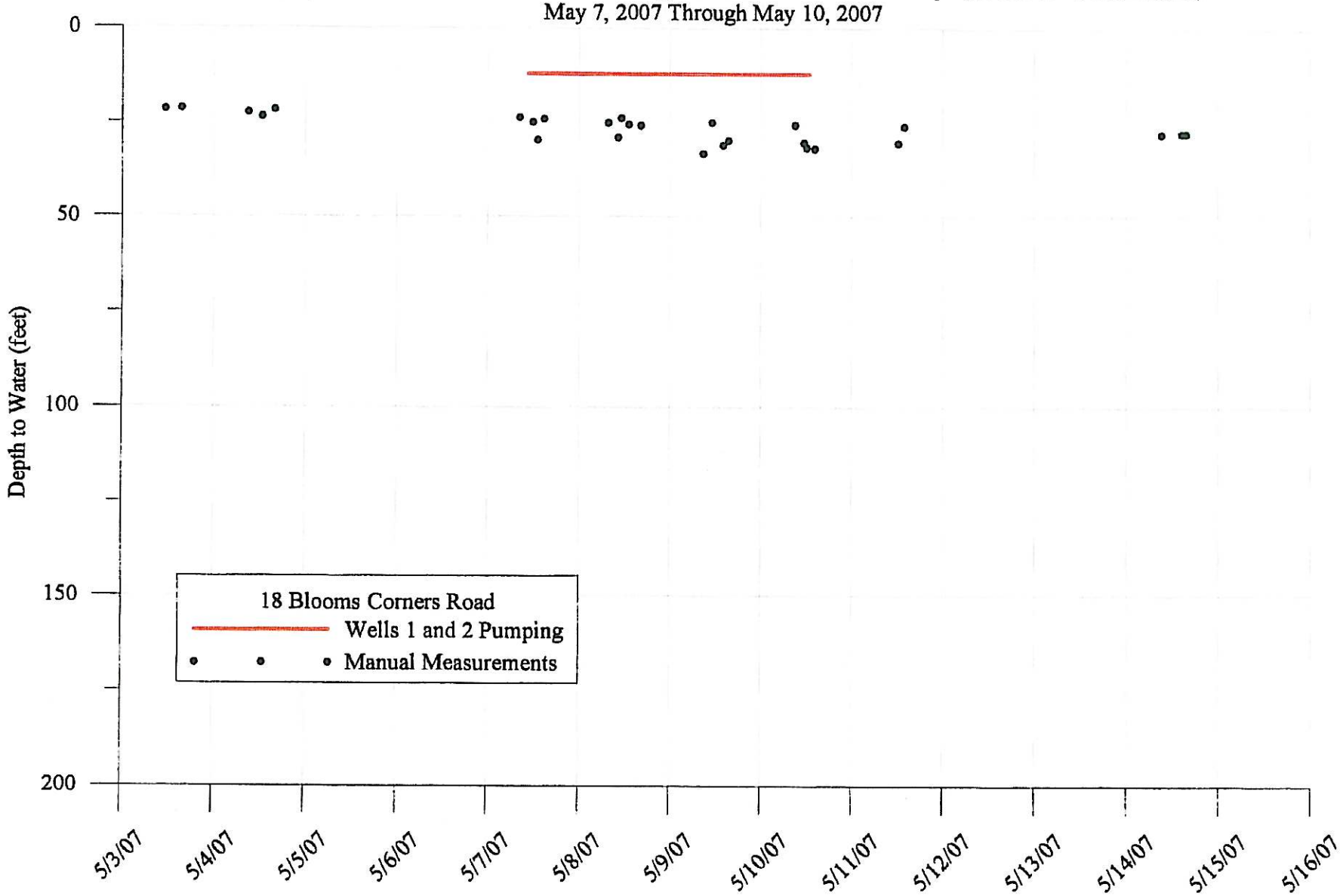
WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 18 Blooms Corners Road During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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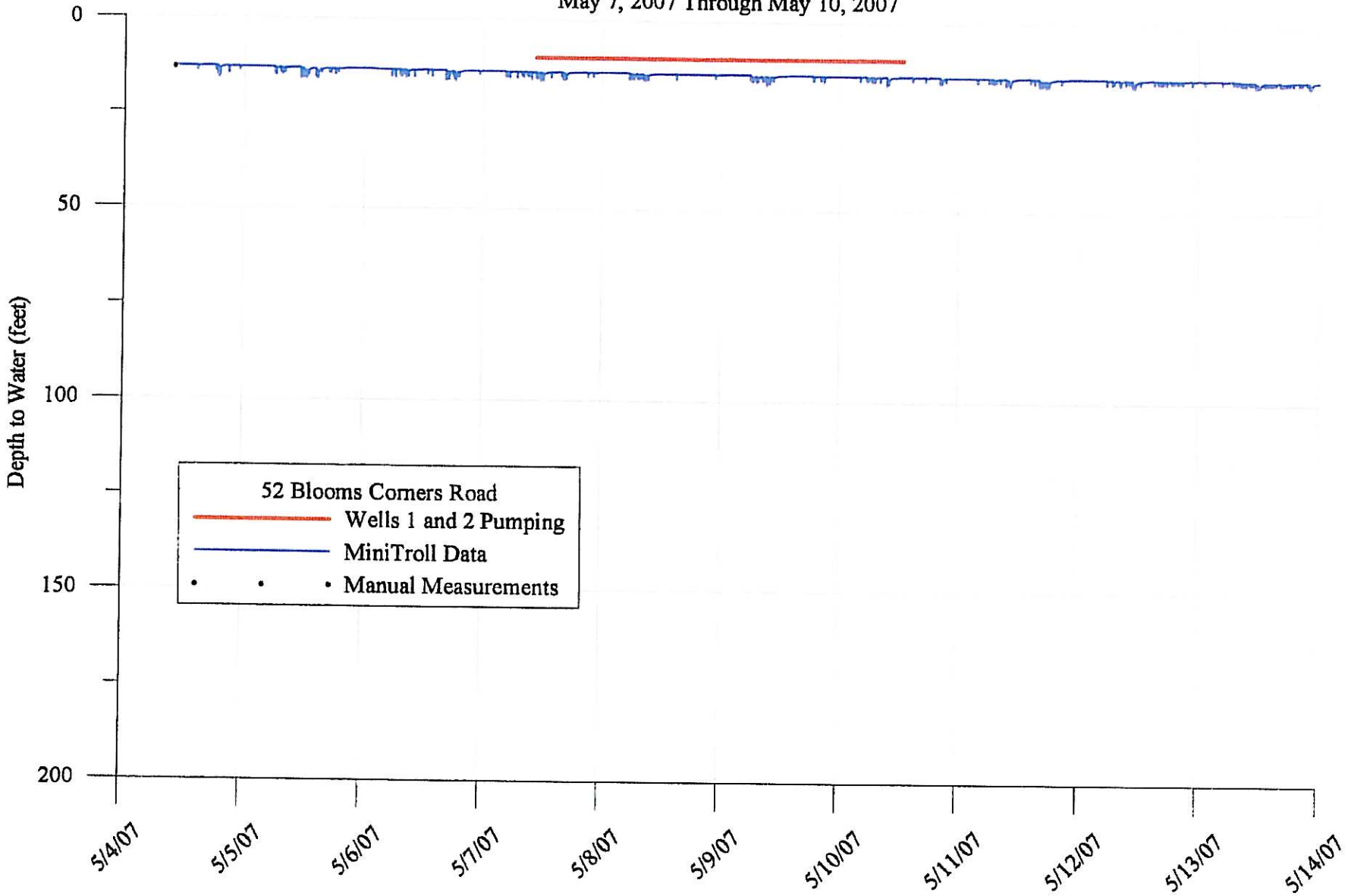
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 52 Blooms Corners Road During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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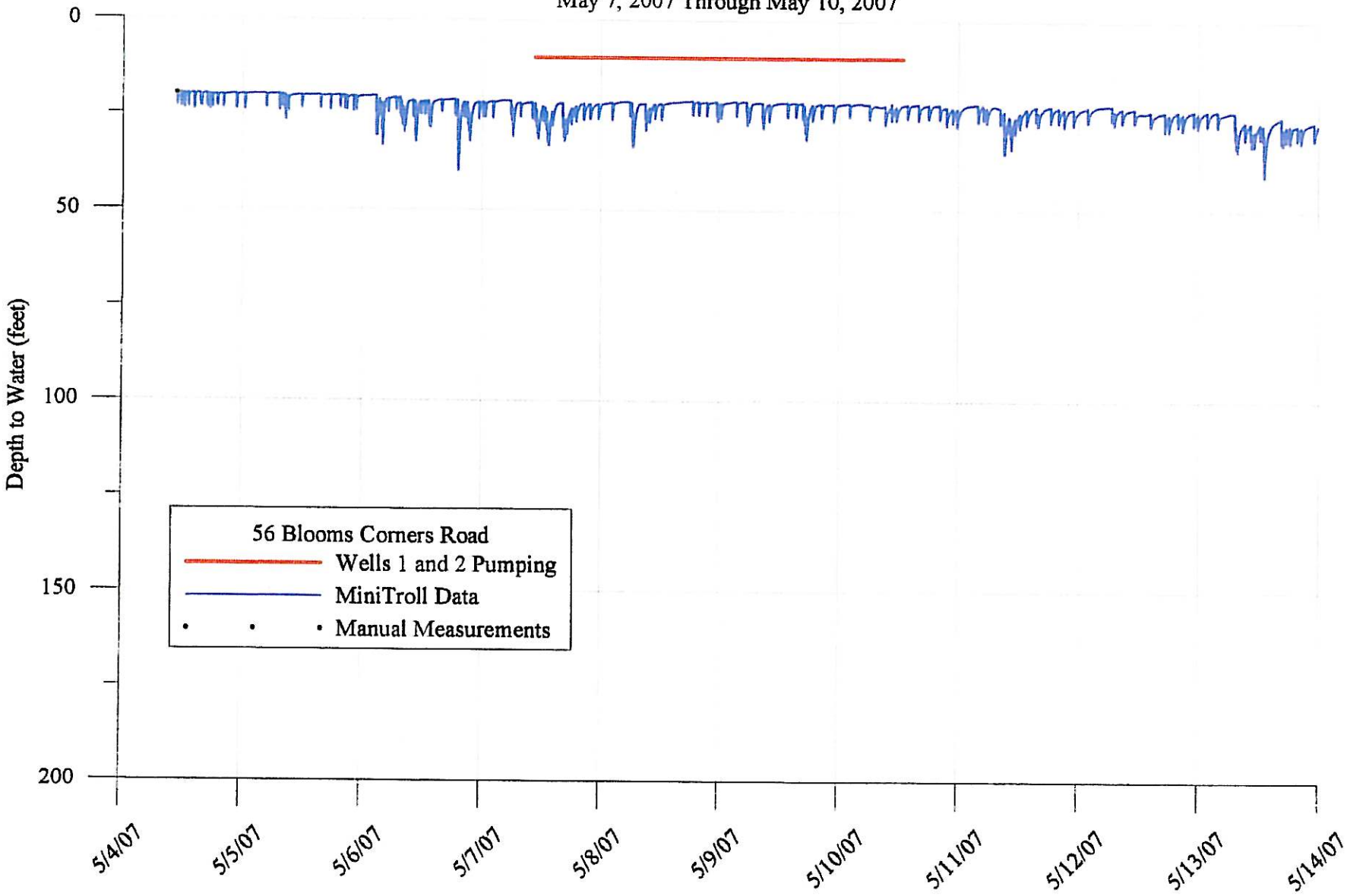
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 56 Blooms Corners Road During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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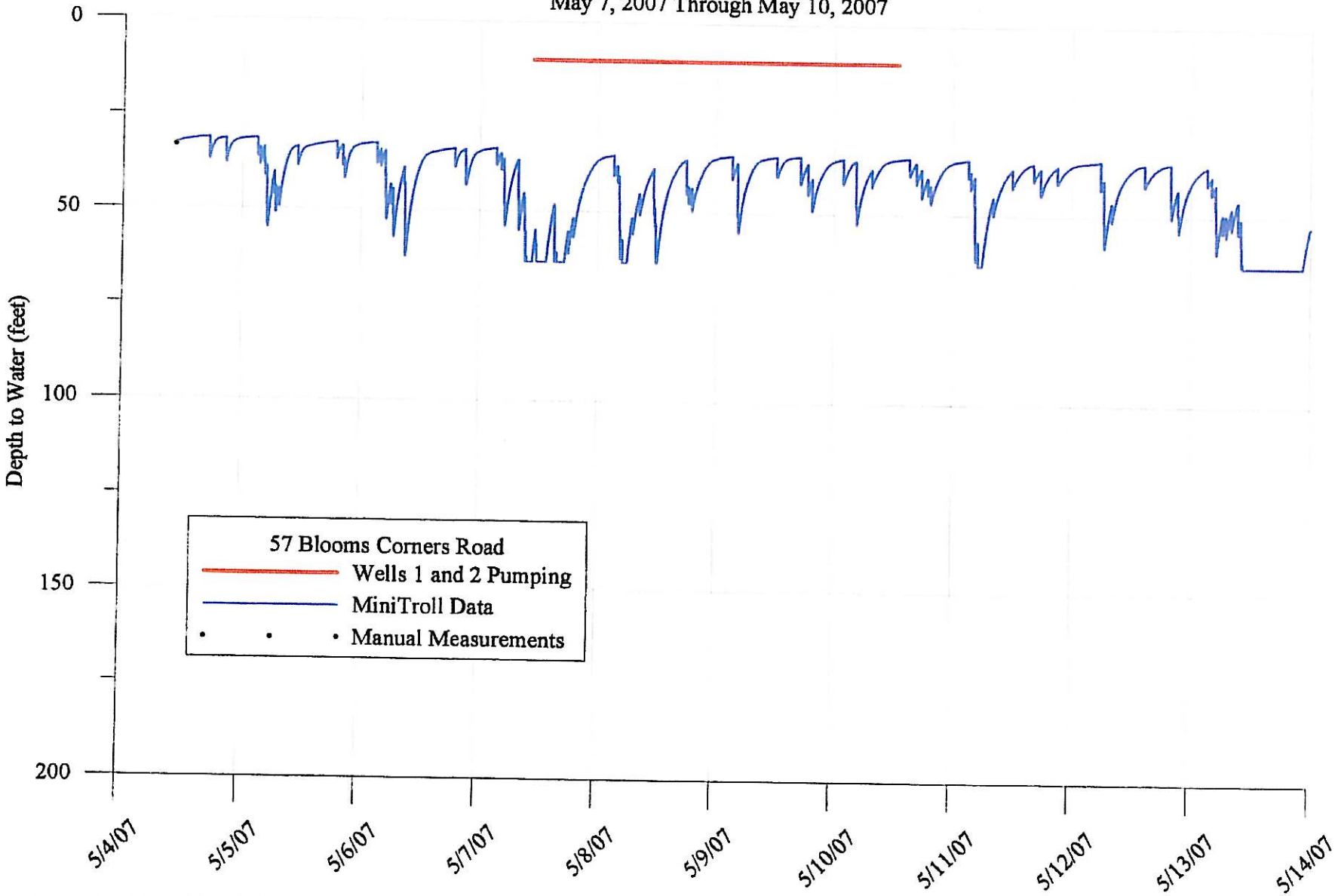
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 57 Blooms Corners Road During Simultaneous 72-Hour Pumping Tests of Wells 1 and 2,
May 7, 2007 Through May 10, 2007



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LEGGETTE, BRASHEARS & GRAHAM, INC.

WELL 5

WELL MONITORING NETWORK

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

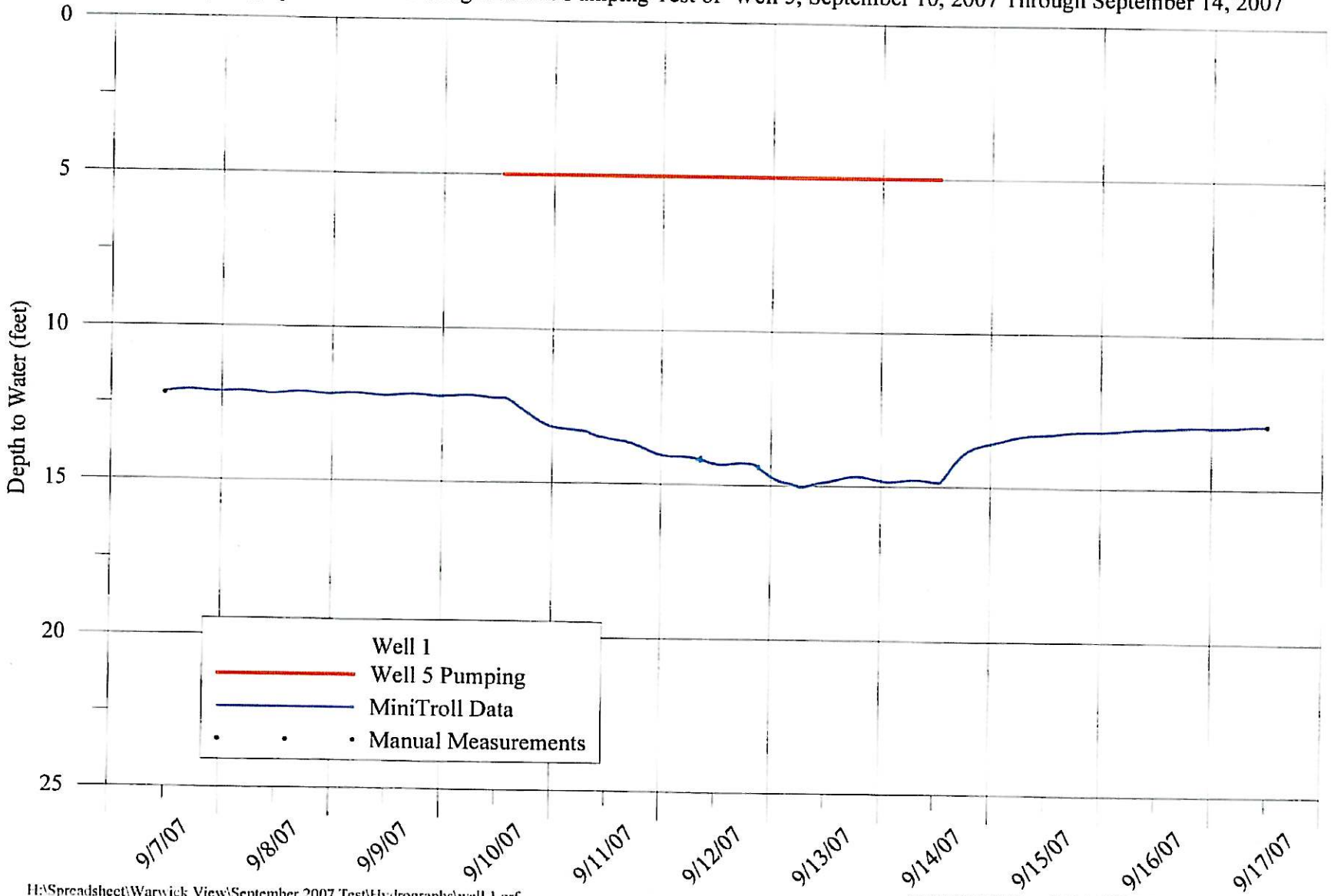
Summary of Approximate Drawdown Observed During the Pumping of Wells 5 and Approximate Distance to Well 5

Location ID	Approximate Drawdown Observed (feet)	Approximate Distance from Well 5 (feet)
Onsite		
Well 1	2.3	1,160
Well 2	1.1	1,320
Well 3	ND	940
Well 4	2.9	1,120
PZ-E	ND	200
Offsite		
Luft Property–Lot 22	ND	3,660
Luft Property–Lot 16	ND	3,220
Luft Property–Lot 7	ND	3,860
343 County Highway 1	ND	3,660
5 Amity Road	ND	3,540
23 Stonehenge Road	ND	3,900
11 Almond Tree Lane	ND	2,540
15 Almond Tree Lane	ND	2,460
17 Almond Tree Lane	ND	2,460
90 Waterbury Road	ND	2,280
4 Blooms Corners Road	ND	2,160
7 Blooms Corners Road	ND	2,400
18 Blooms Corners Road	ND	1,660
20 Blooms Corners Road	ND	1,400
25 Blooms Corners Road	3.9	1,580
52 Blooms Corners Road	ND	2,120
56 Blooms Corners Road	ND	2,240
57 Blooms Corners Road	ND	2,600
5 Big Island Road	ND	2,080
8 Big Island Road	ND	2,540
9 Big Island Road	ND	2,300
11 Big Island Road	ND	2,500
15 Big Island Road	ND	2,680
36 Edenville Road	ND	2,460

ND- None Discernable

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of Well 1 During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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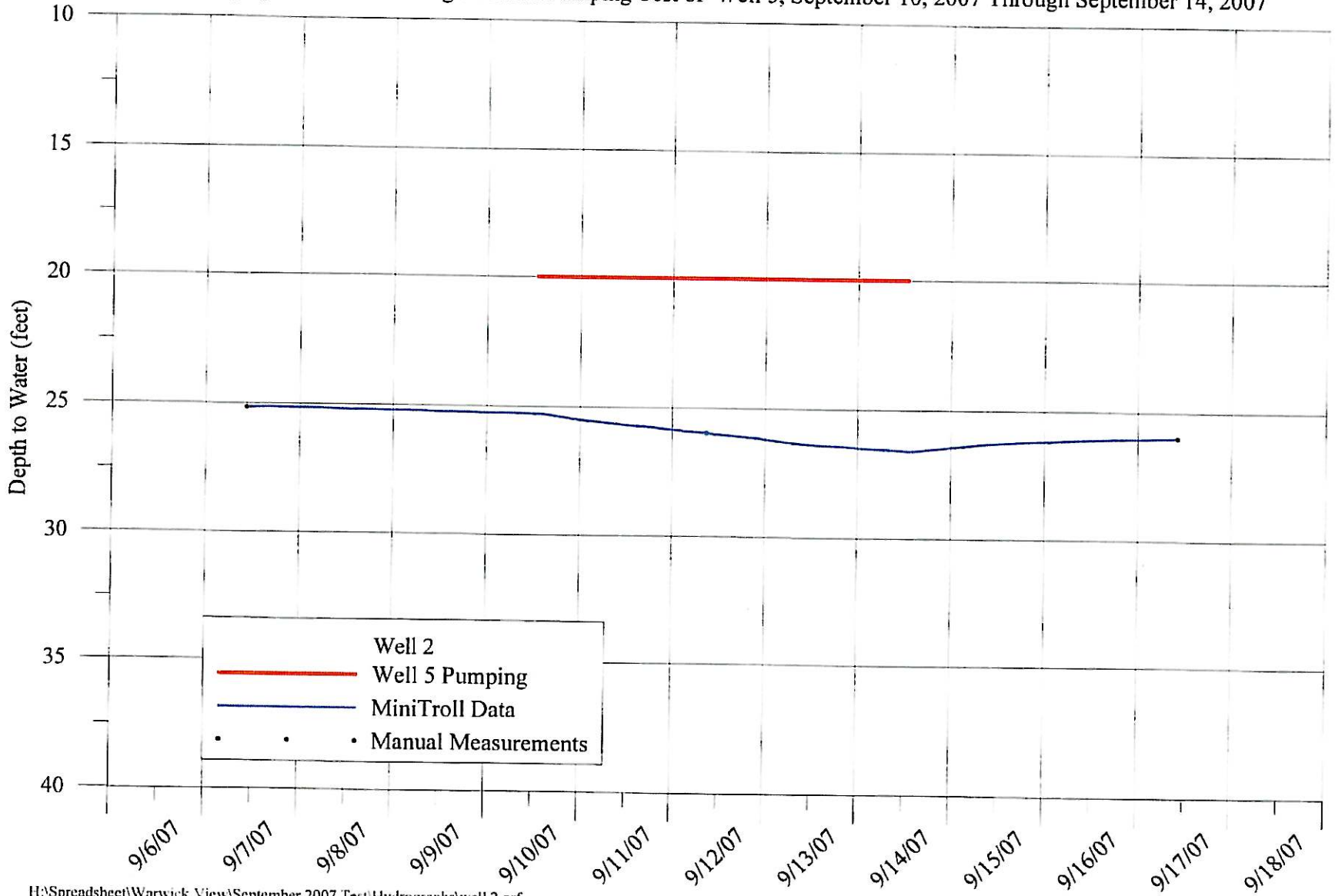
WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of Well 2 During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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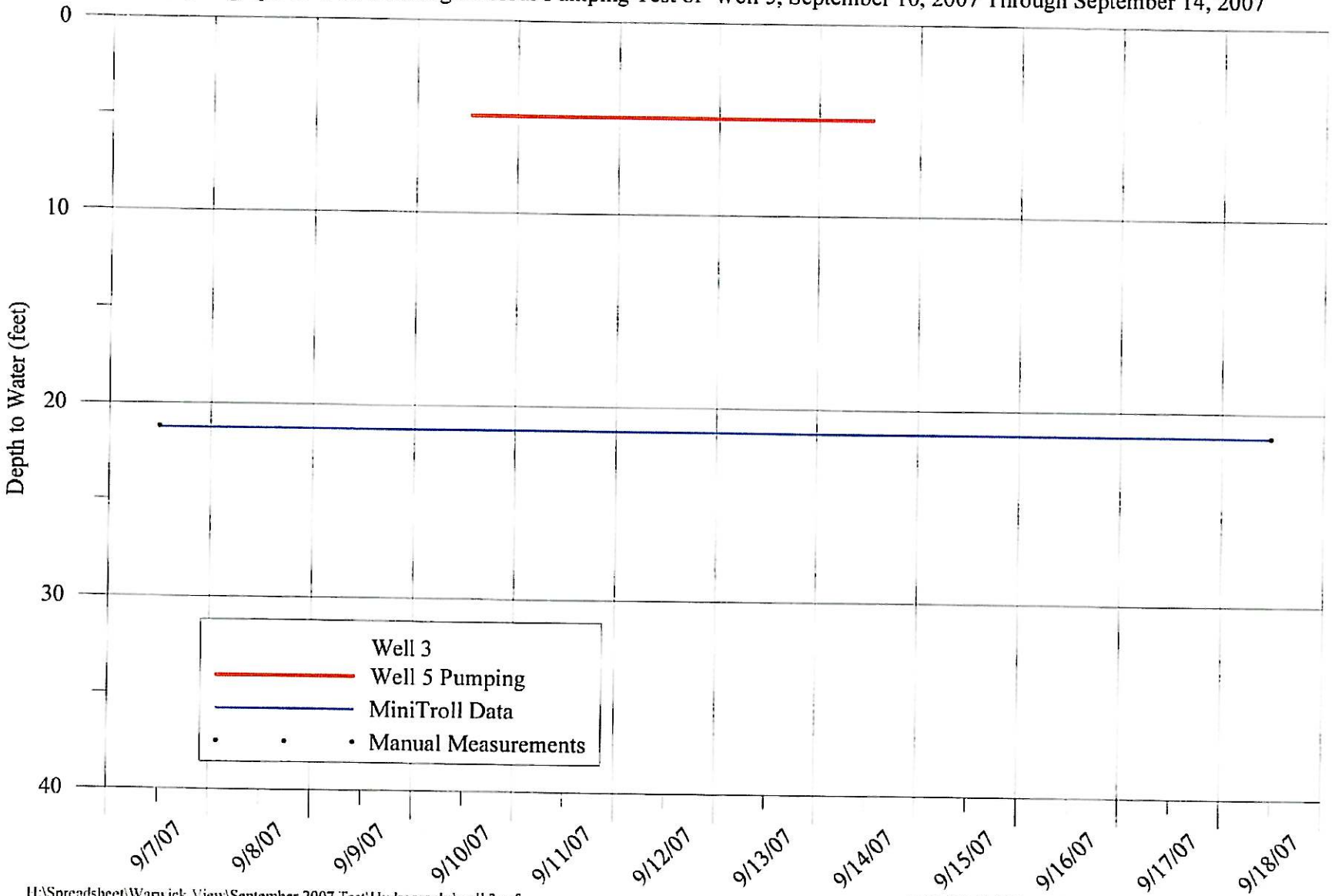
WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of Well 3 During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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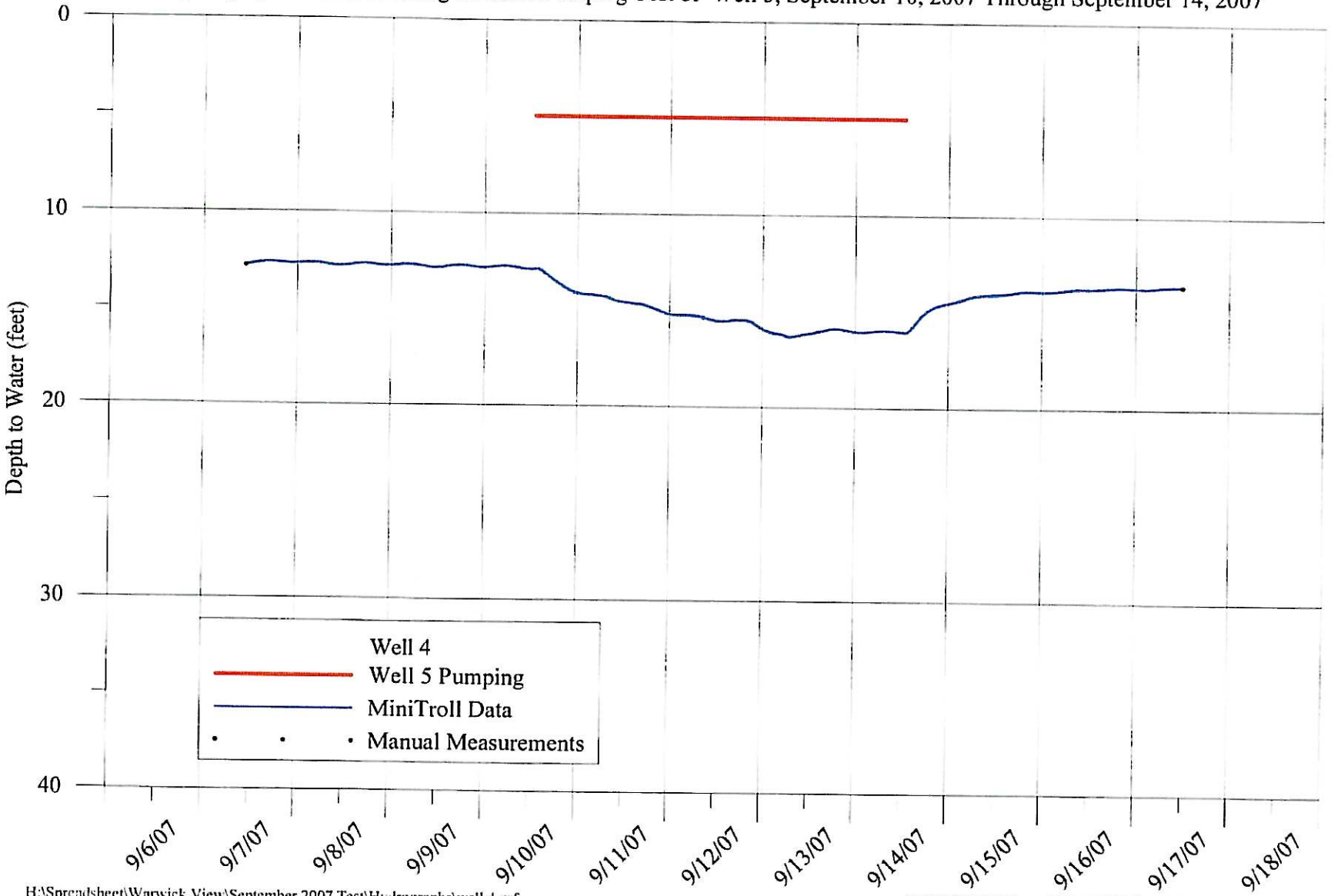
WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of Well 4 During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

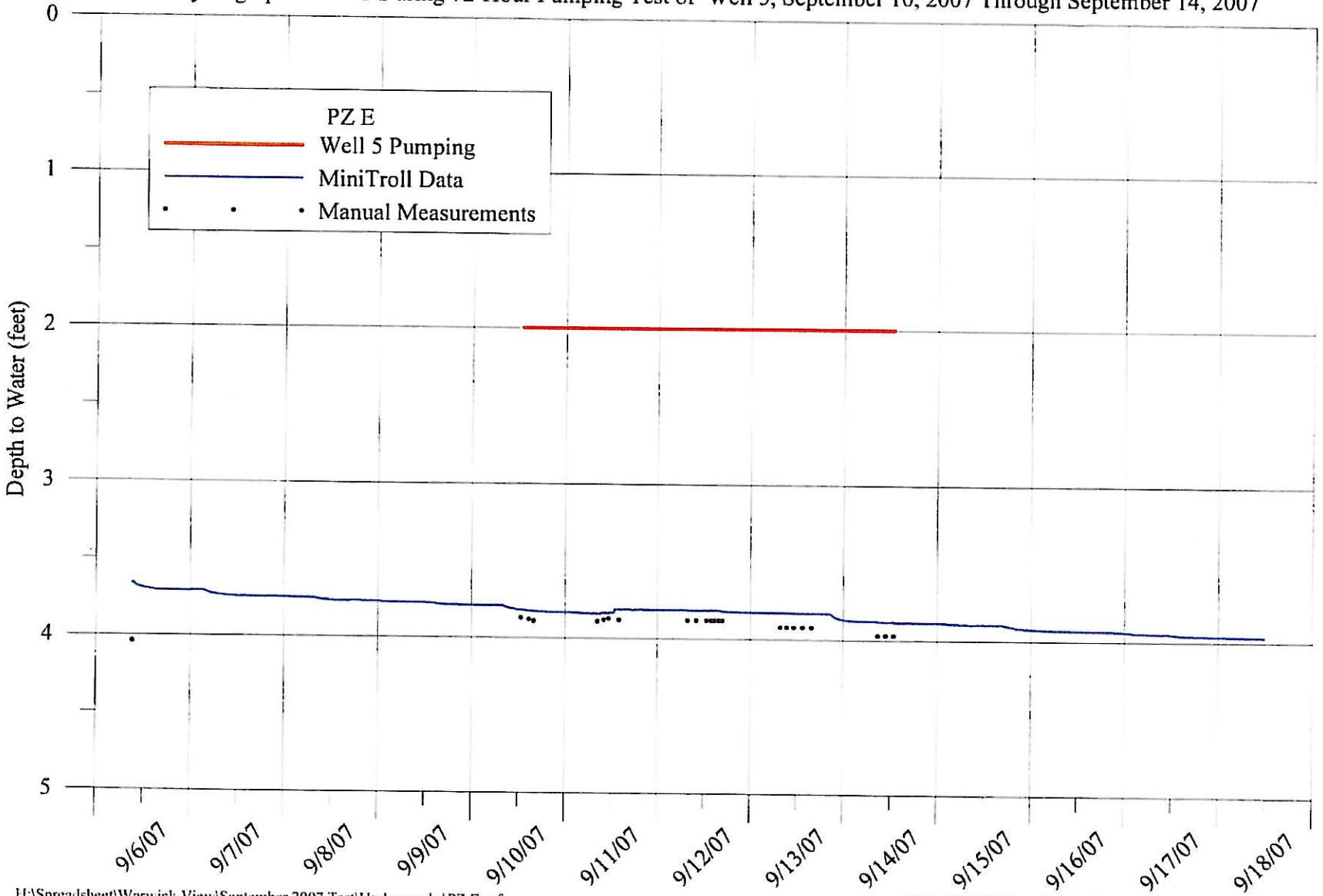


H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\well 4.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of PZ-E During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

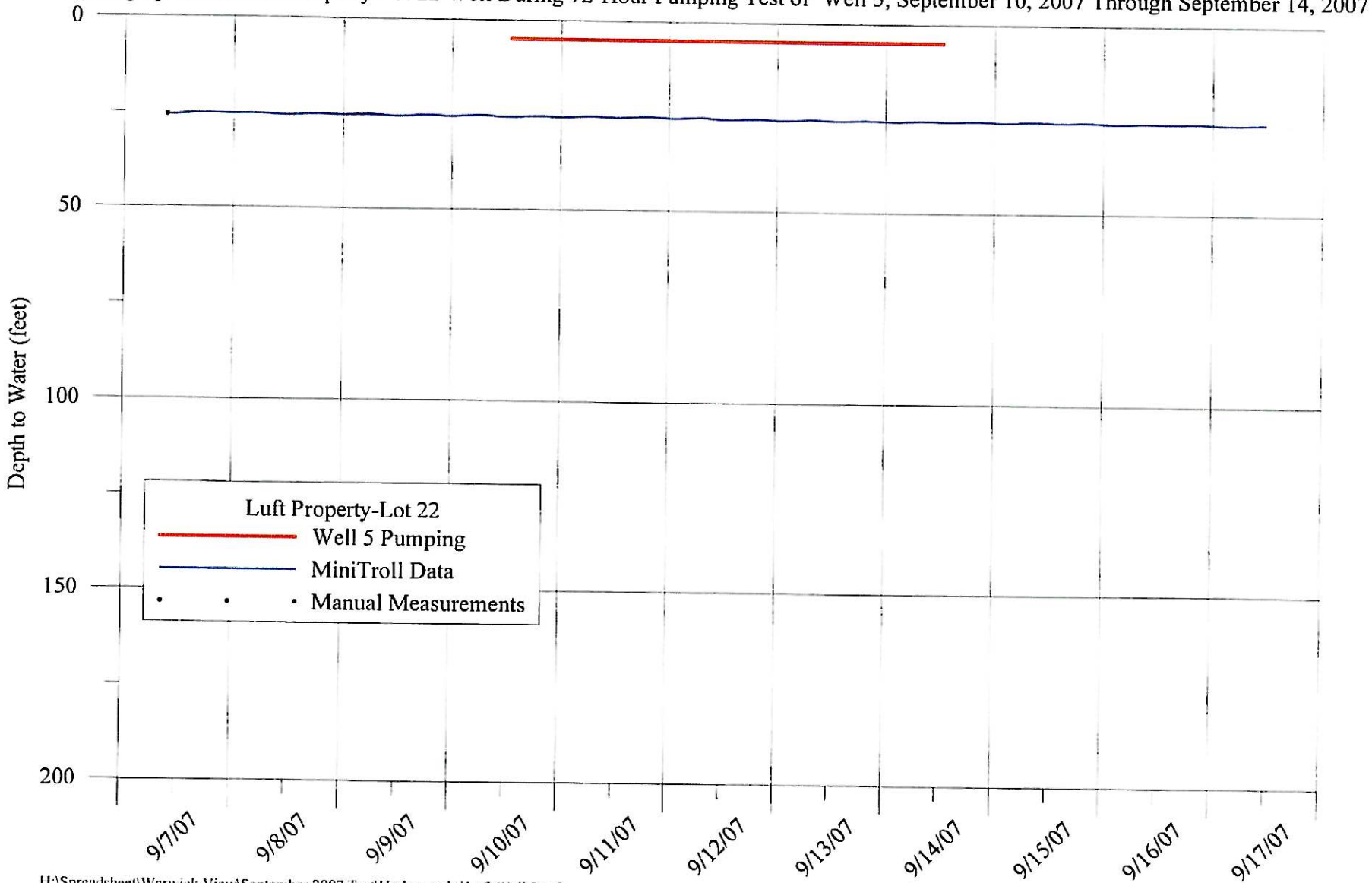


H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\PZ E.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of the Luft Property Lot 22 Well During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

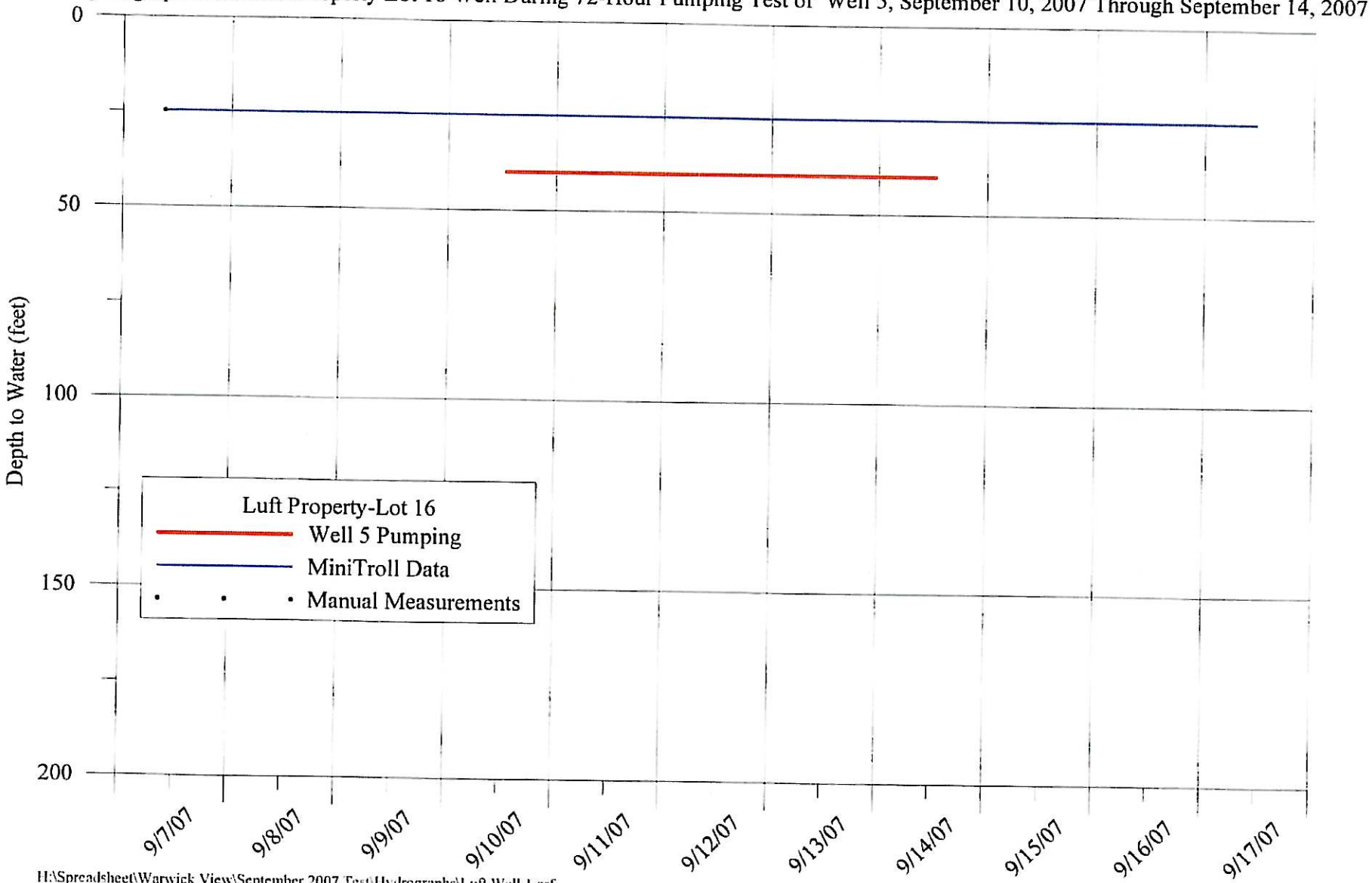


H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\Luft Well 2.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of the Luft Property Lot 16 Well During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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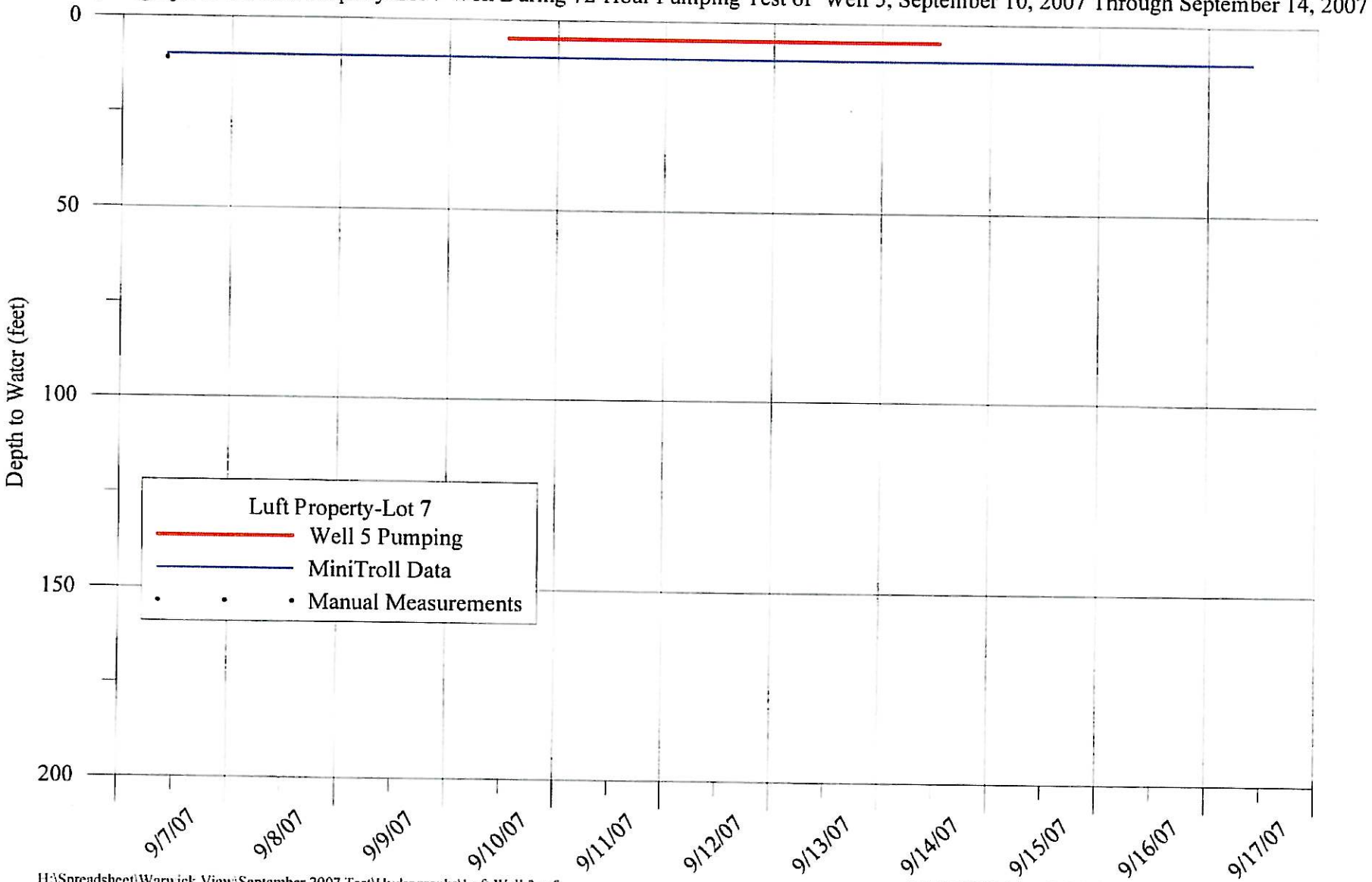
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of the Luft Property Lot 7 Well During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

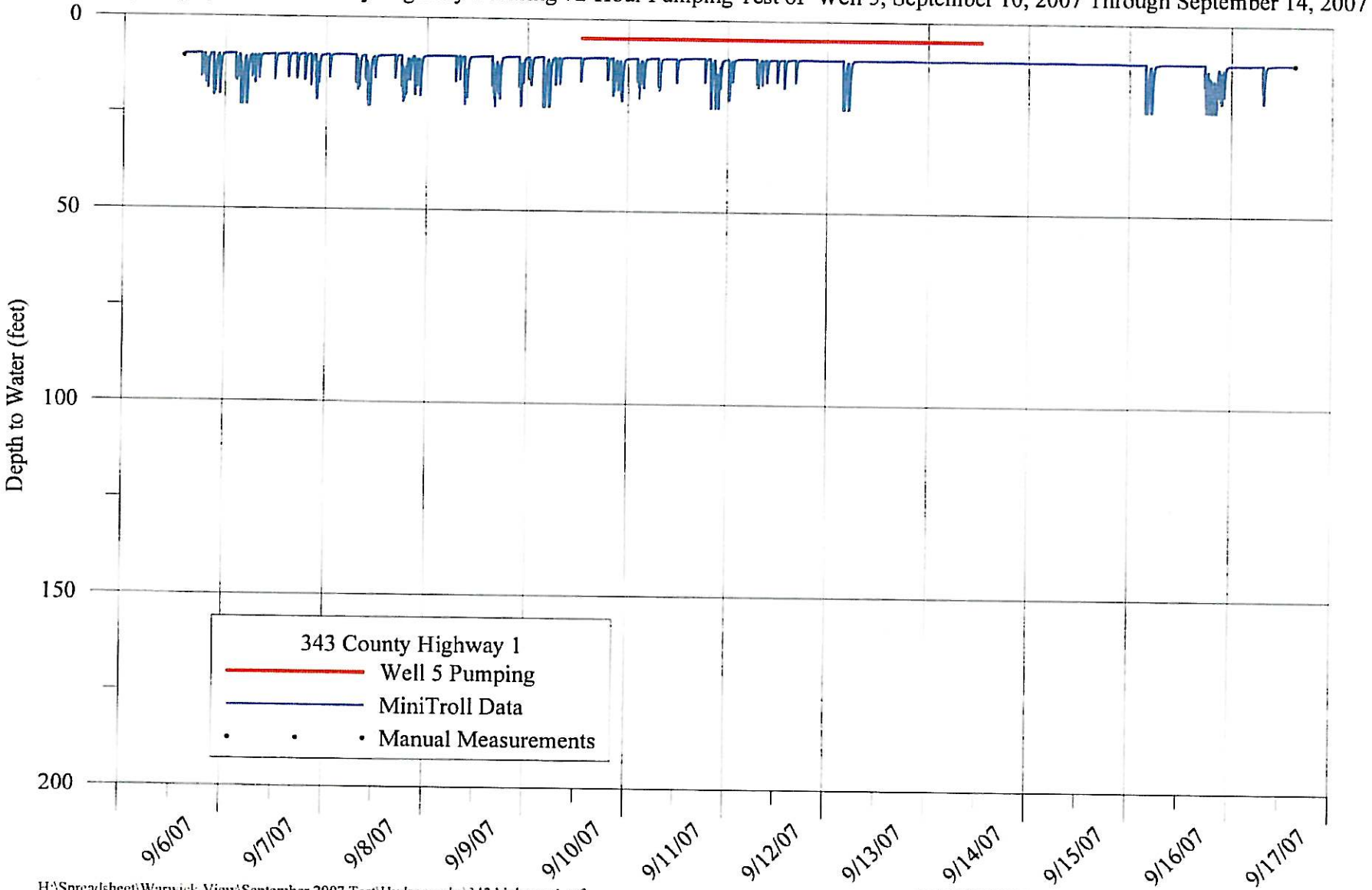


H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\Luft Well 3.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 343 County Highway 1 During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

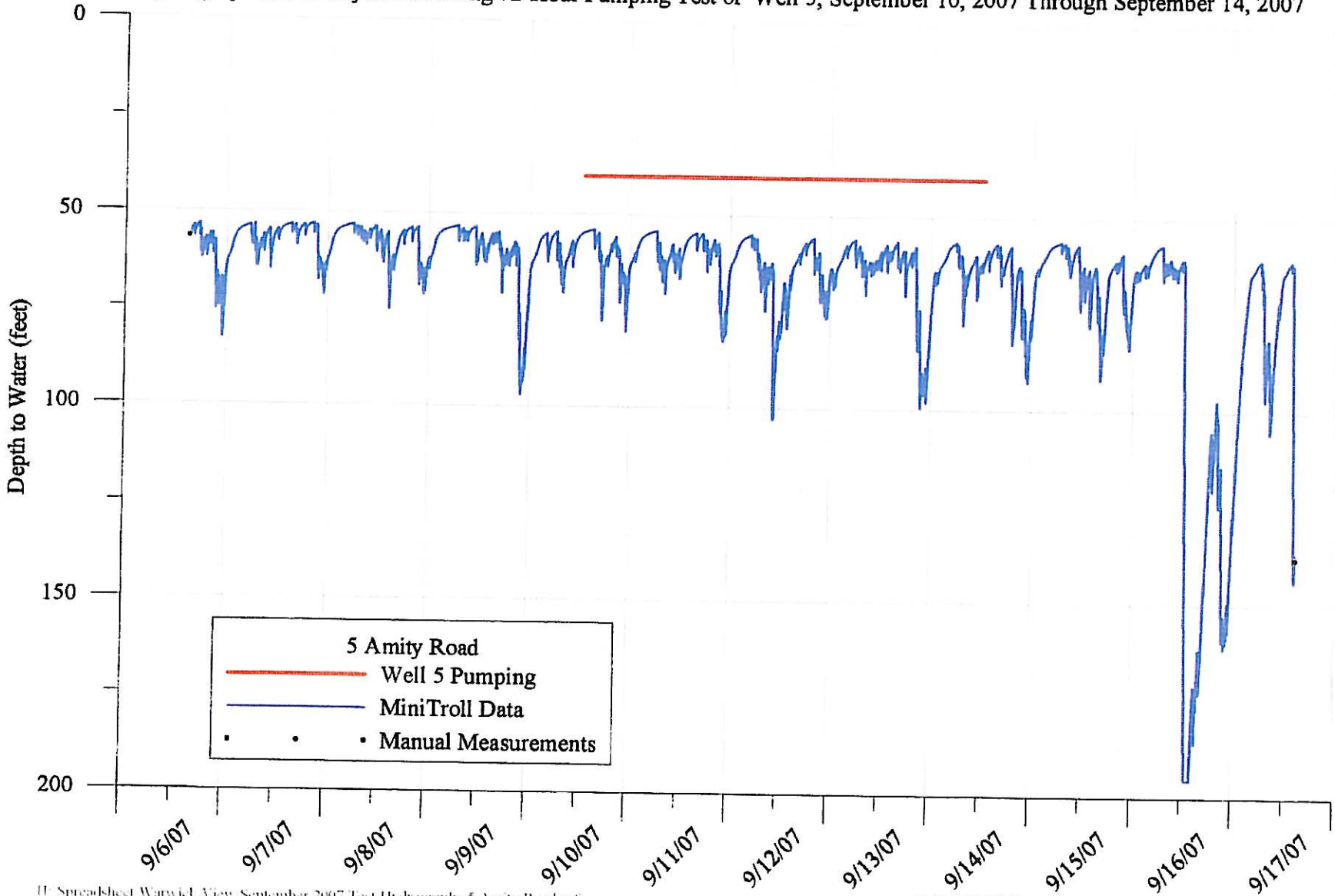


H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\343 highway 1.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 5 Amity Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

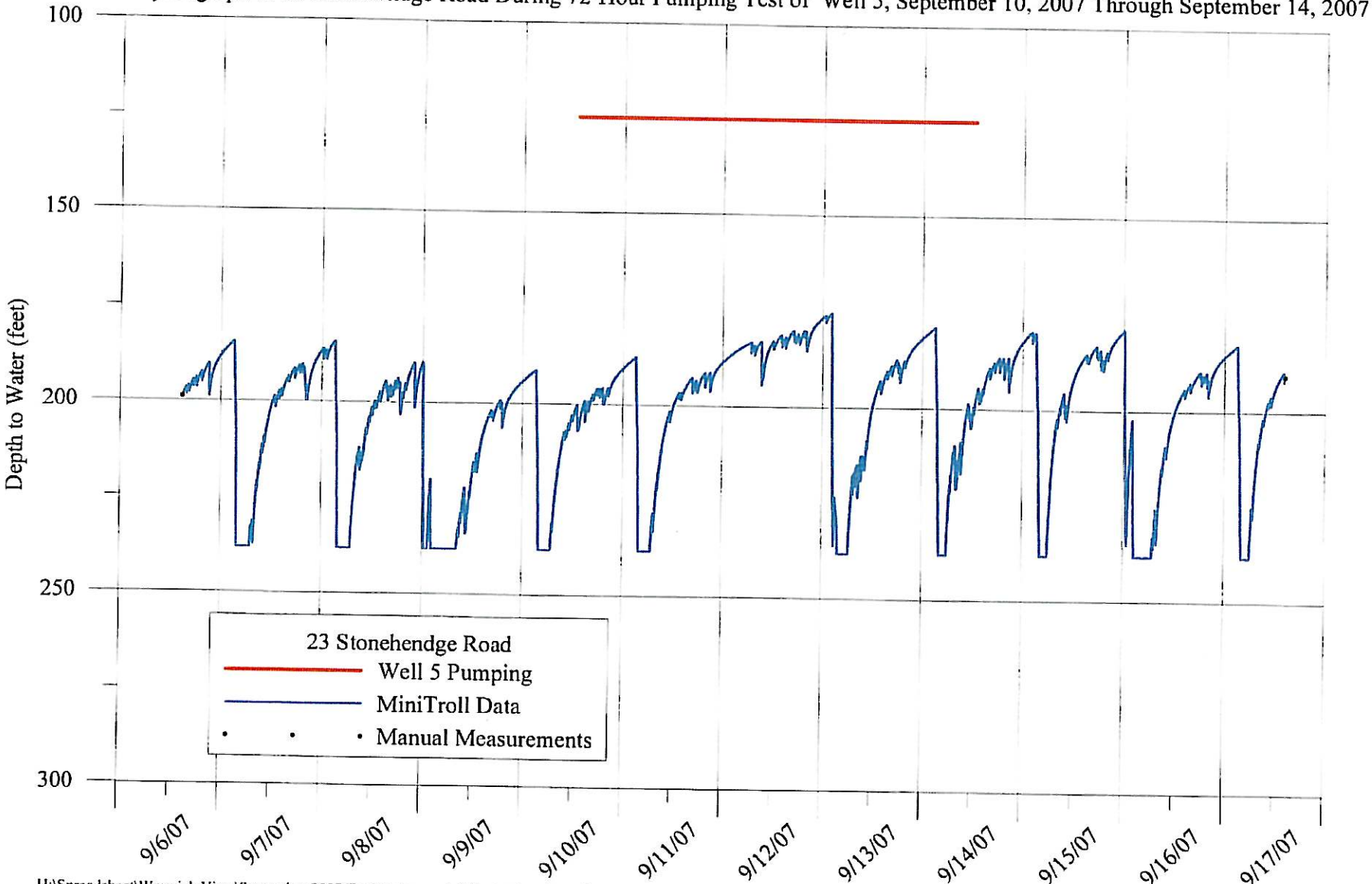


H:\Spreadsheet\Warwick View September 2007 Test Hydrographs 5 Amity Road.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 23 Stonehendge Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

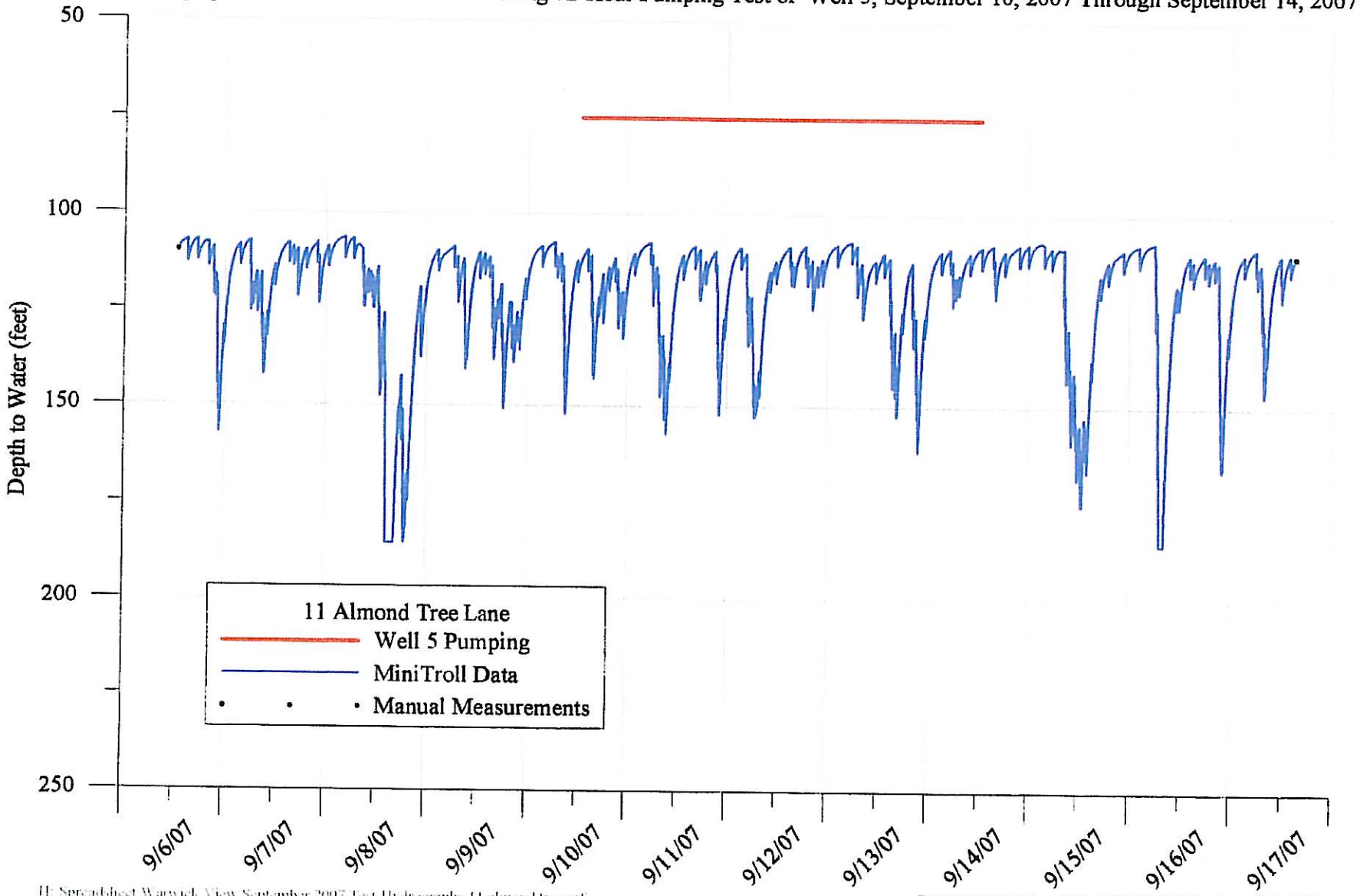


H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\23 stonehendge.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 11 Almond Tree Lane During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

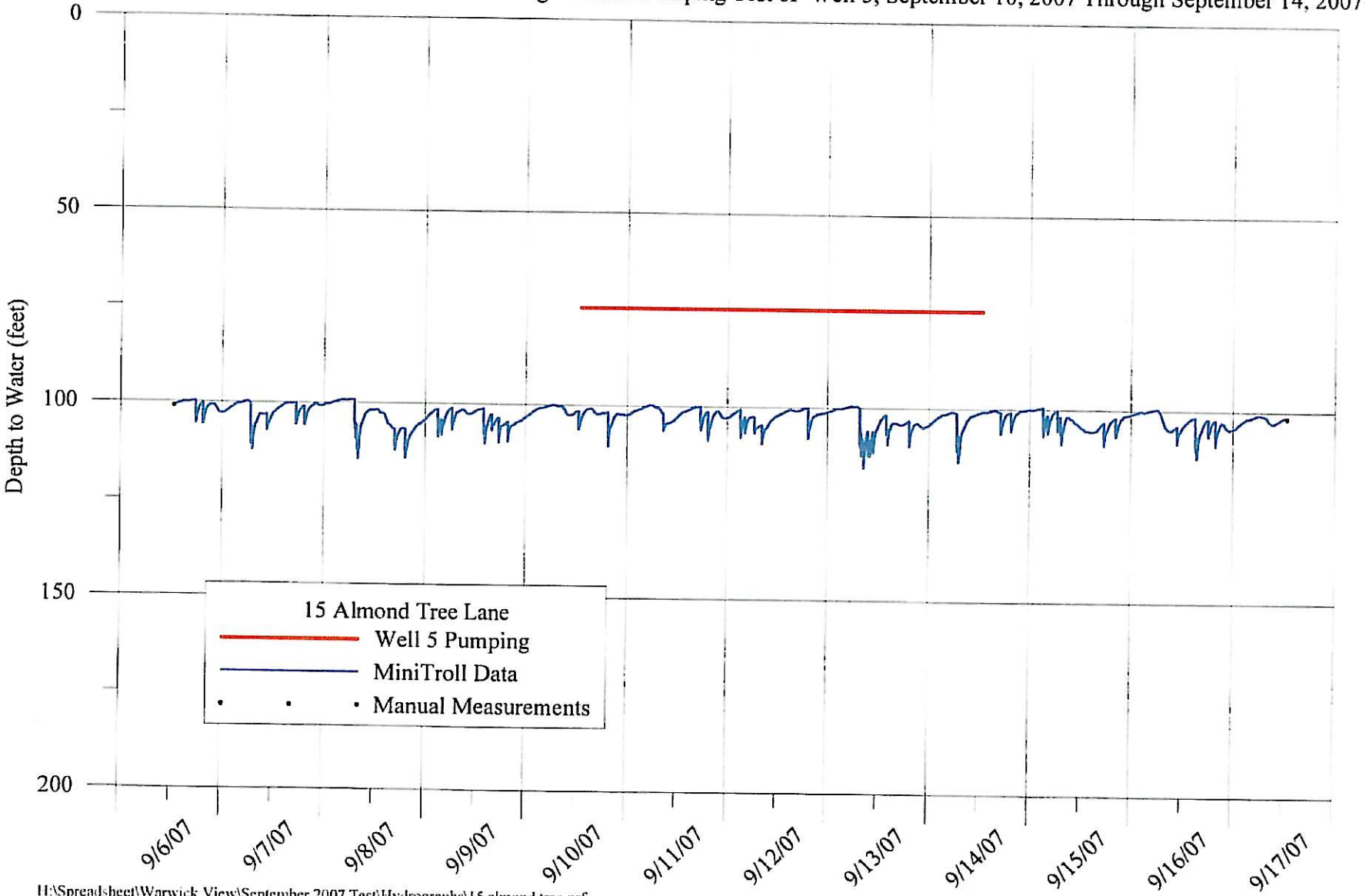


H:\Spreadsheet\Warwick View\September 2007 Test Hydrographs\11almondtree.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 15 Almond Tree Lane During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

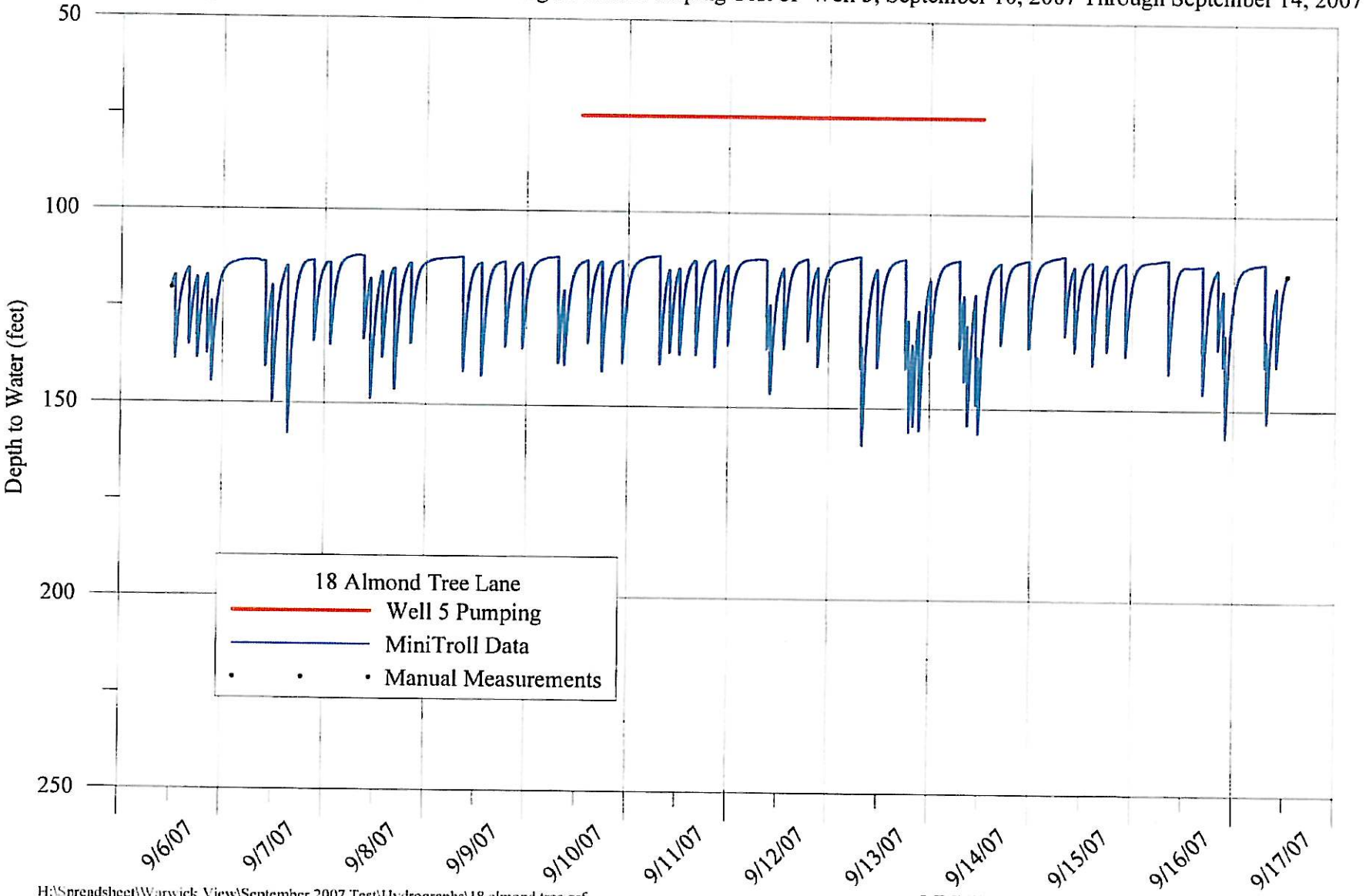


H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\15 almond tree.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 18 Almond Tree Lane During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

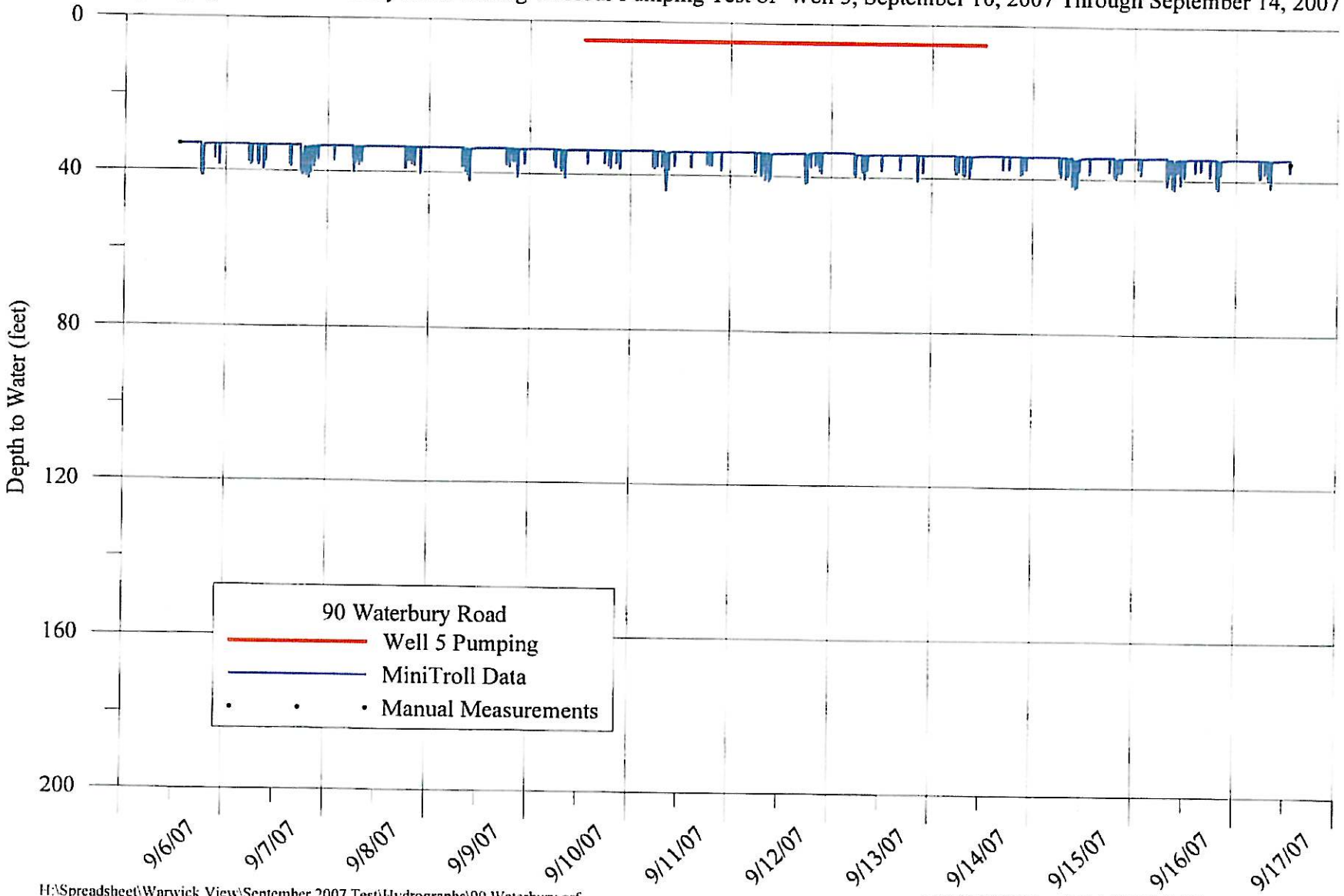


H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\18 almond tree.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 90 Waterbury Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

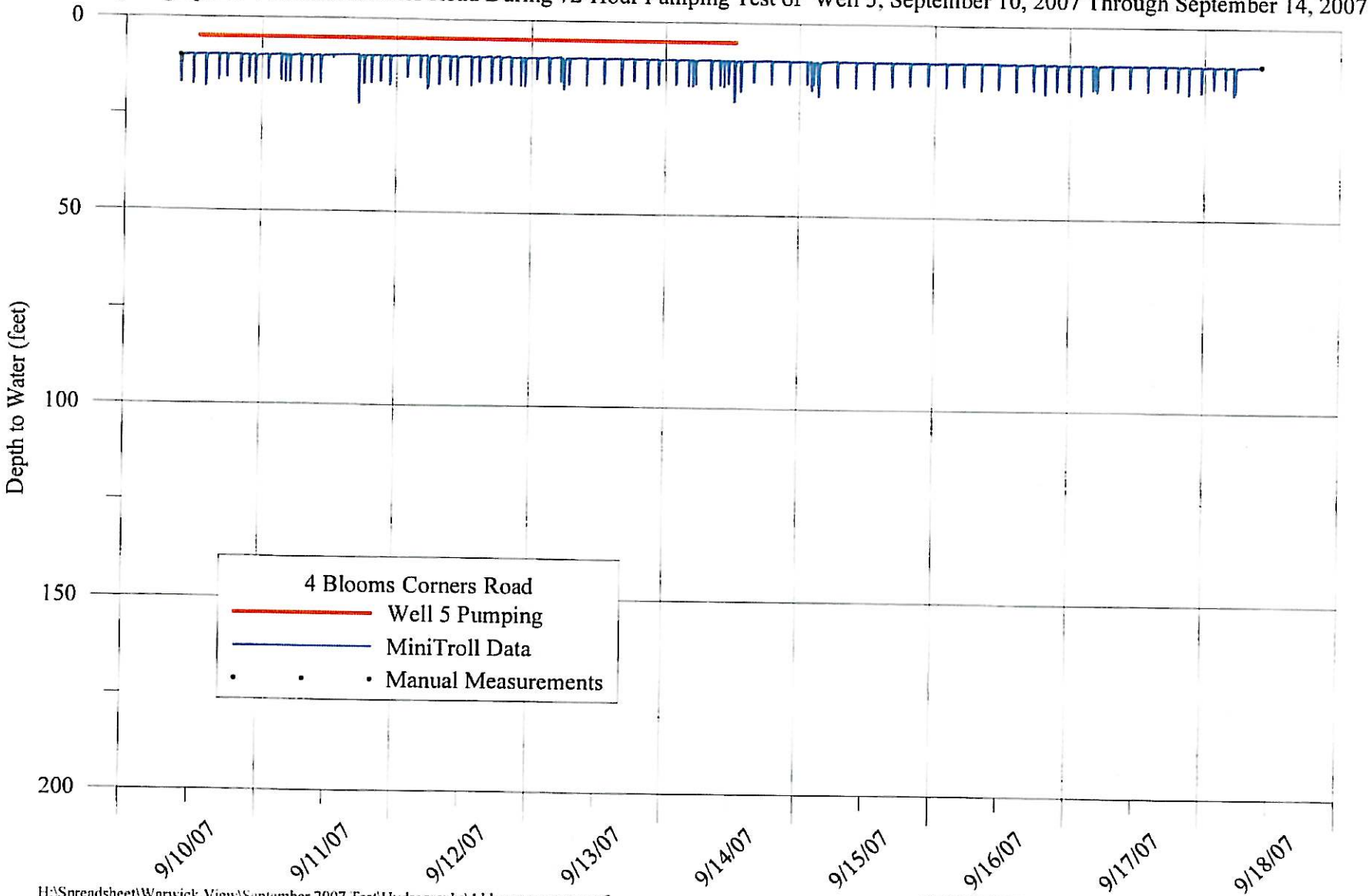


H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\90 Waterbury.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 4 Blooms Corners Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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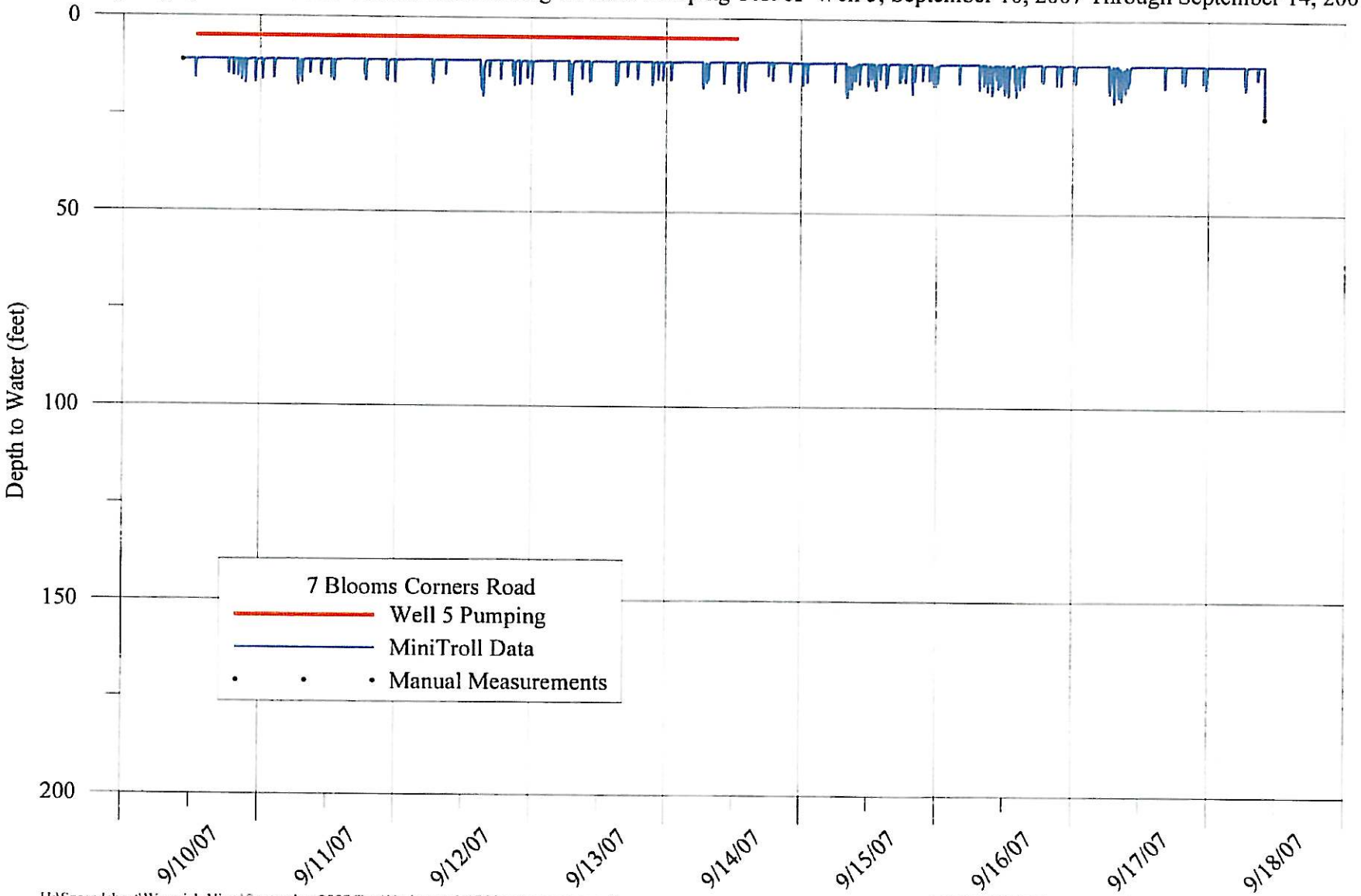
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 7 Blooms Corners Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

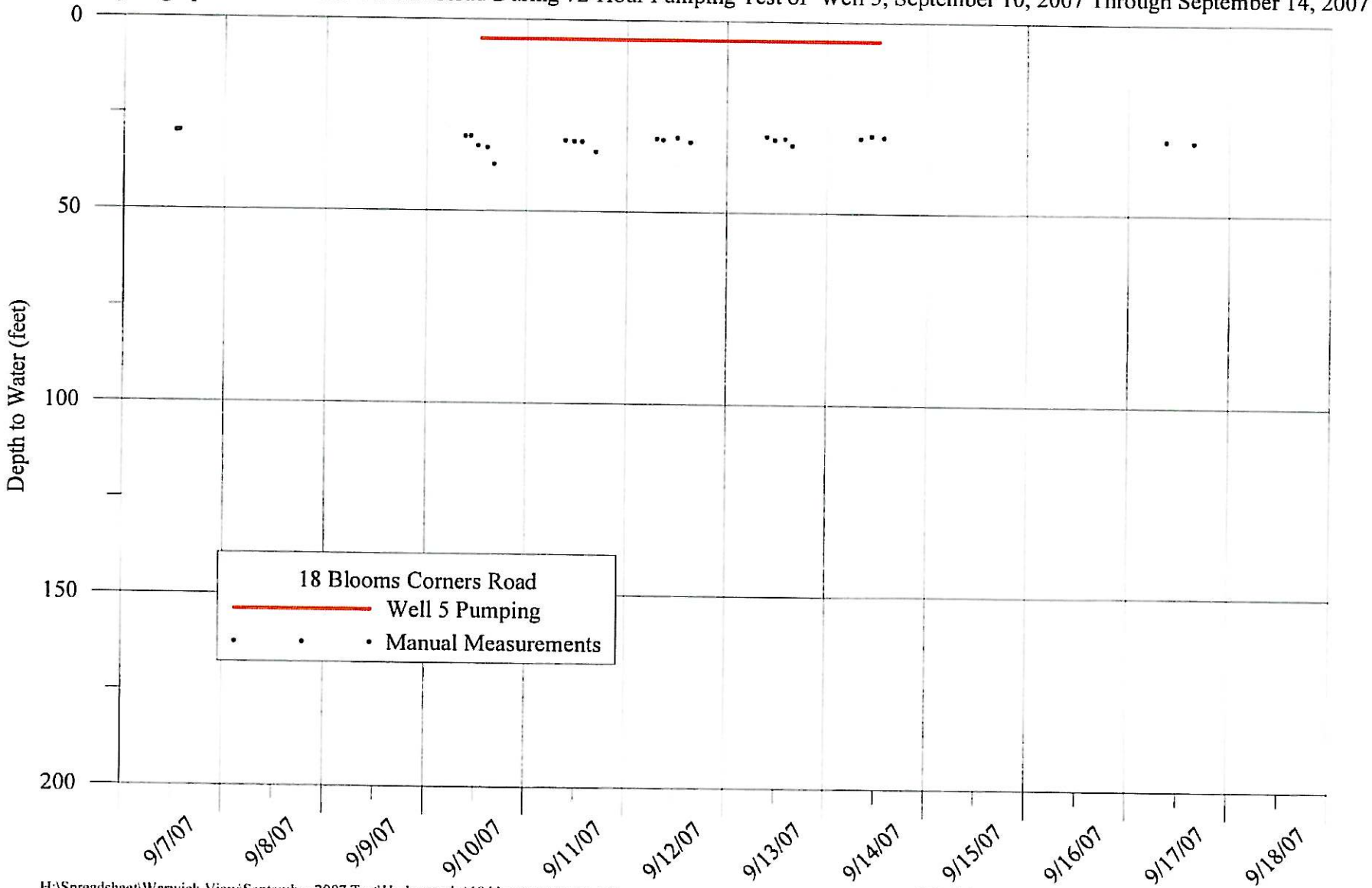


H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\7 blooms cornerse.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 18 Blooms Corners Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

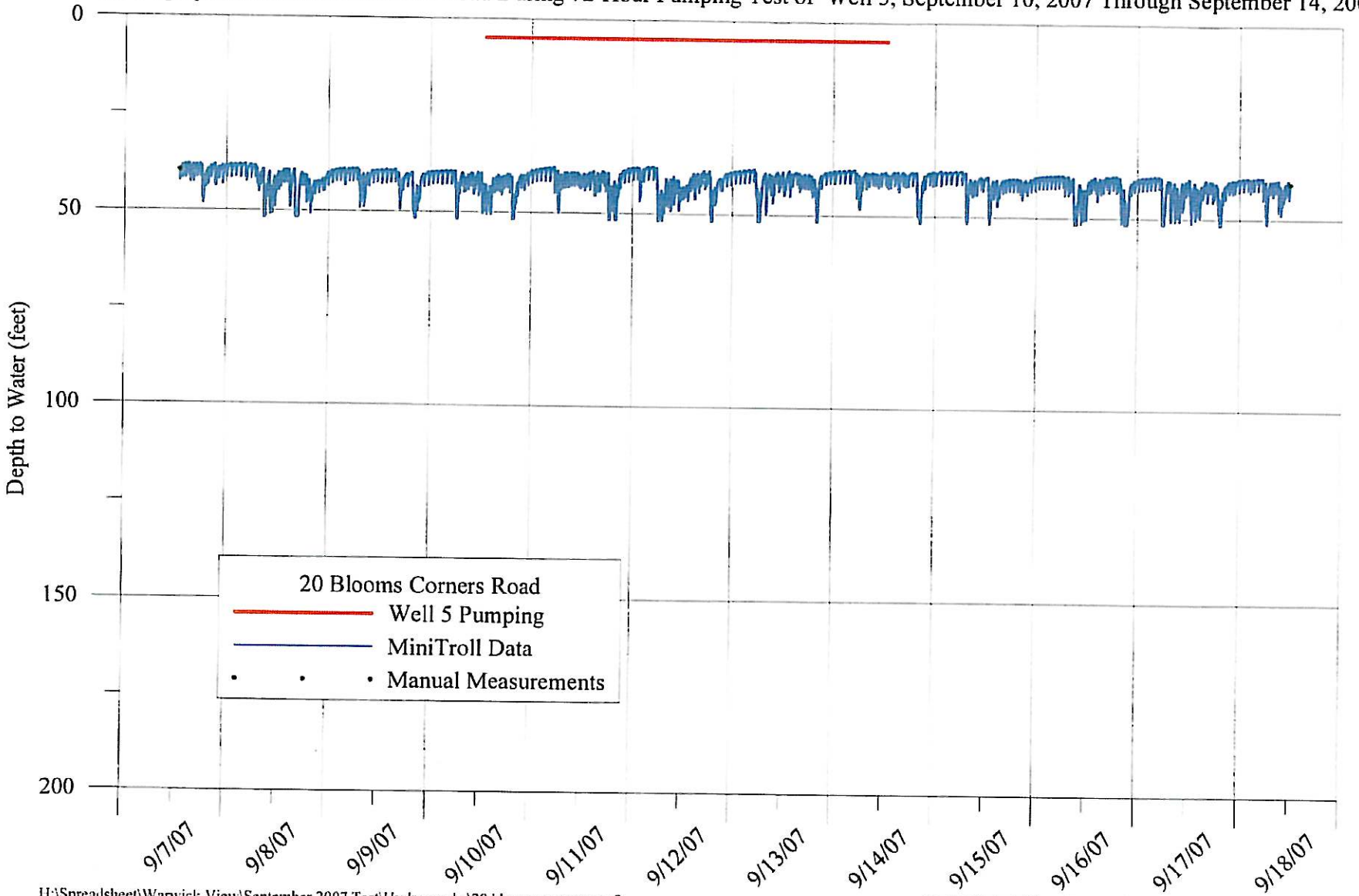


H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\18 blooms cornerse.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 20 Blooms Corners Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007

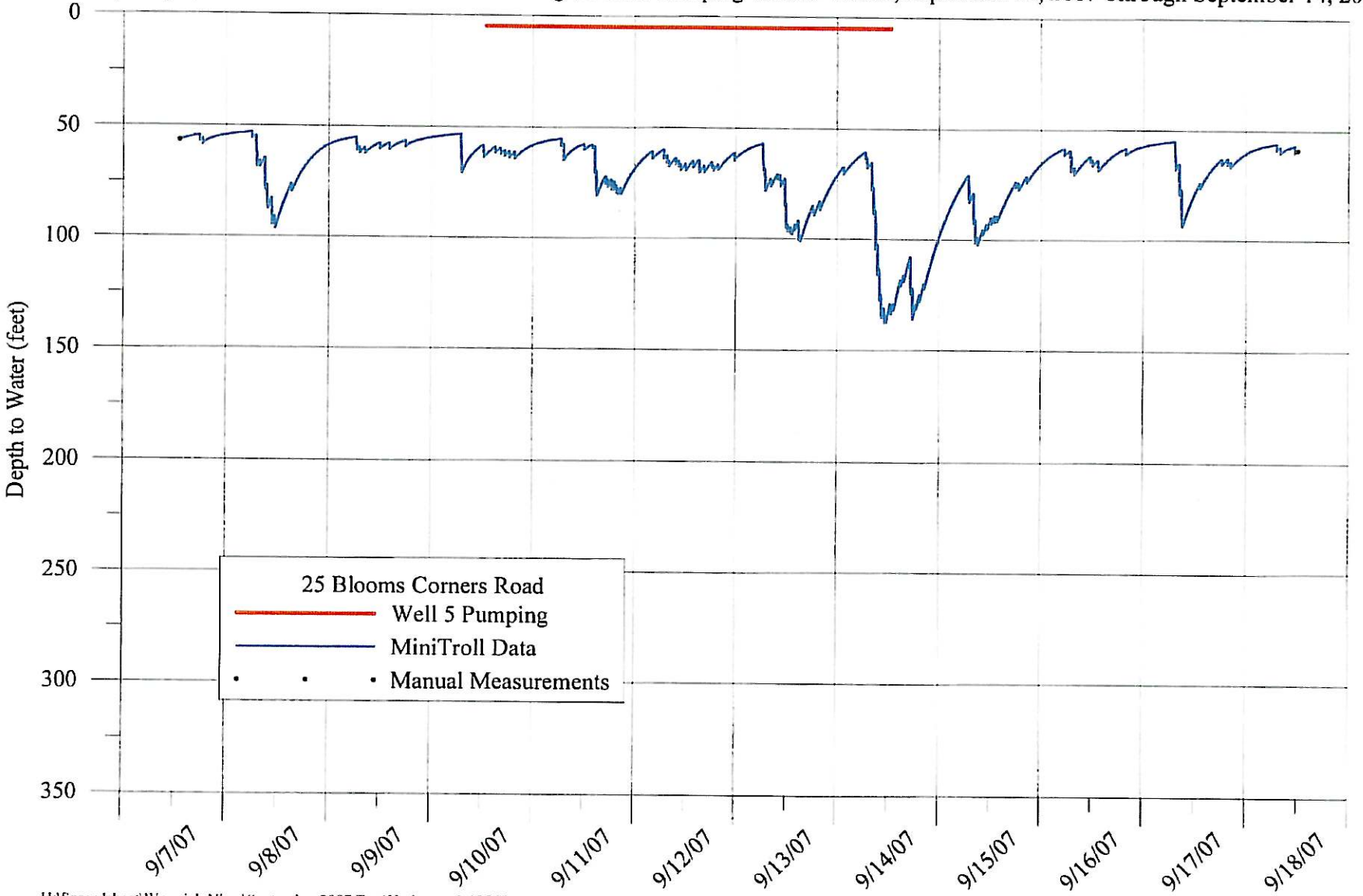


H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\20 blooms cornerse.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 25 Blooms Corners Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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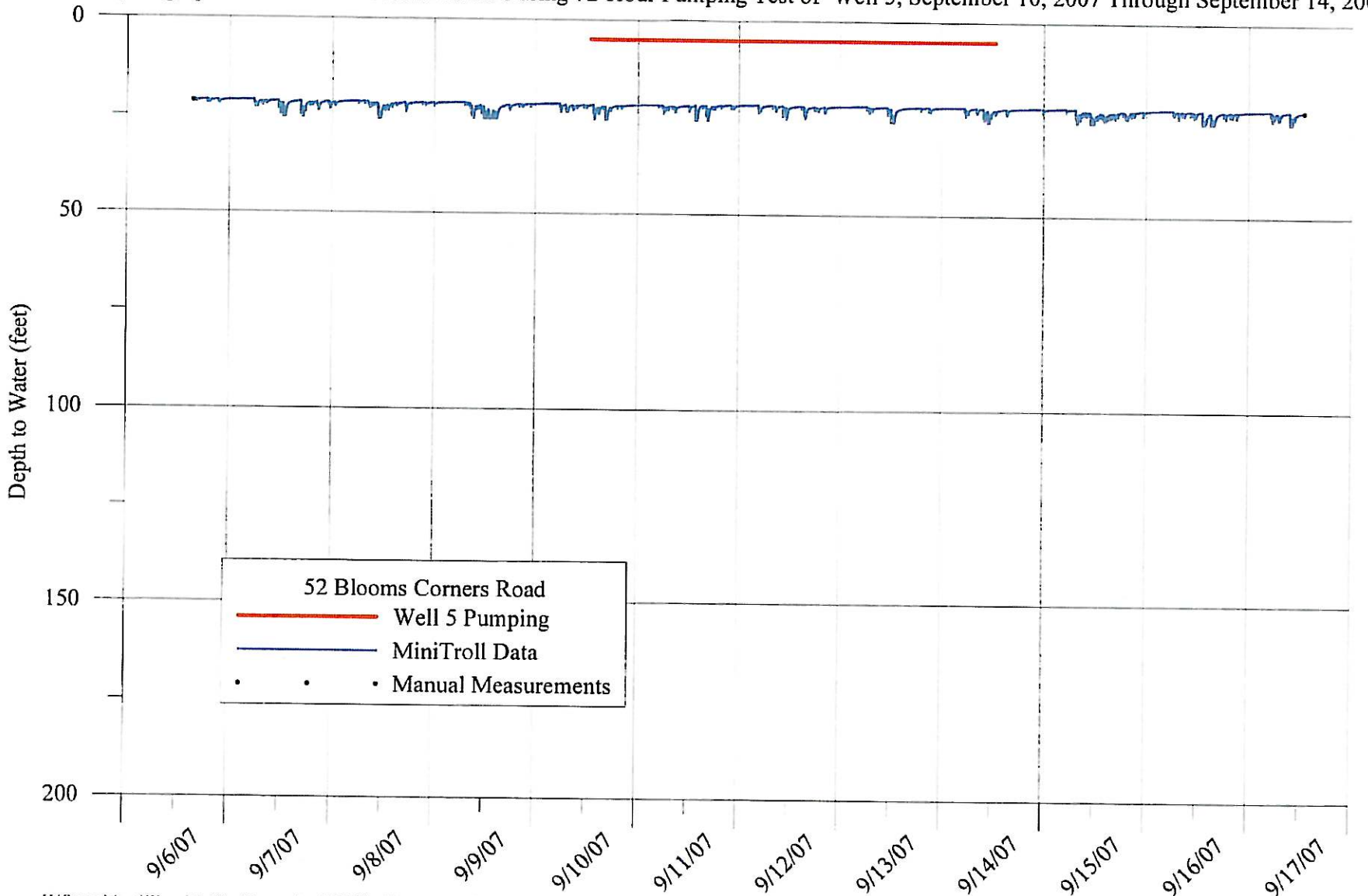
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 52 Blooms Corners Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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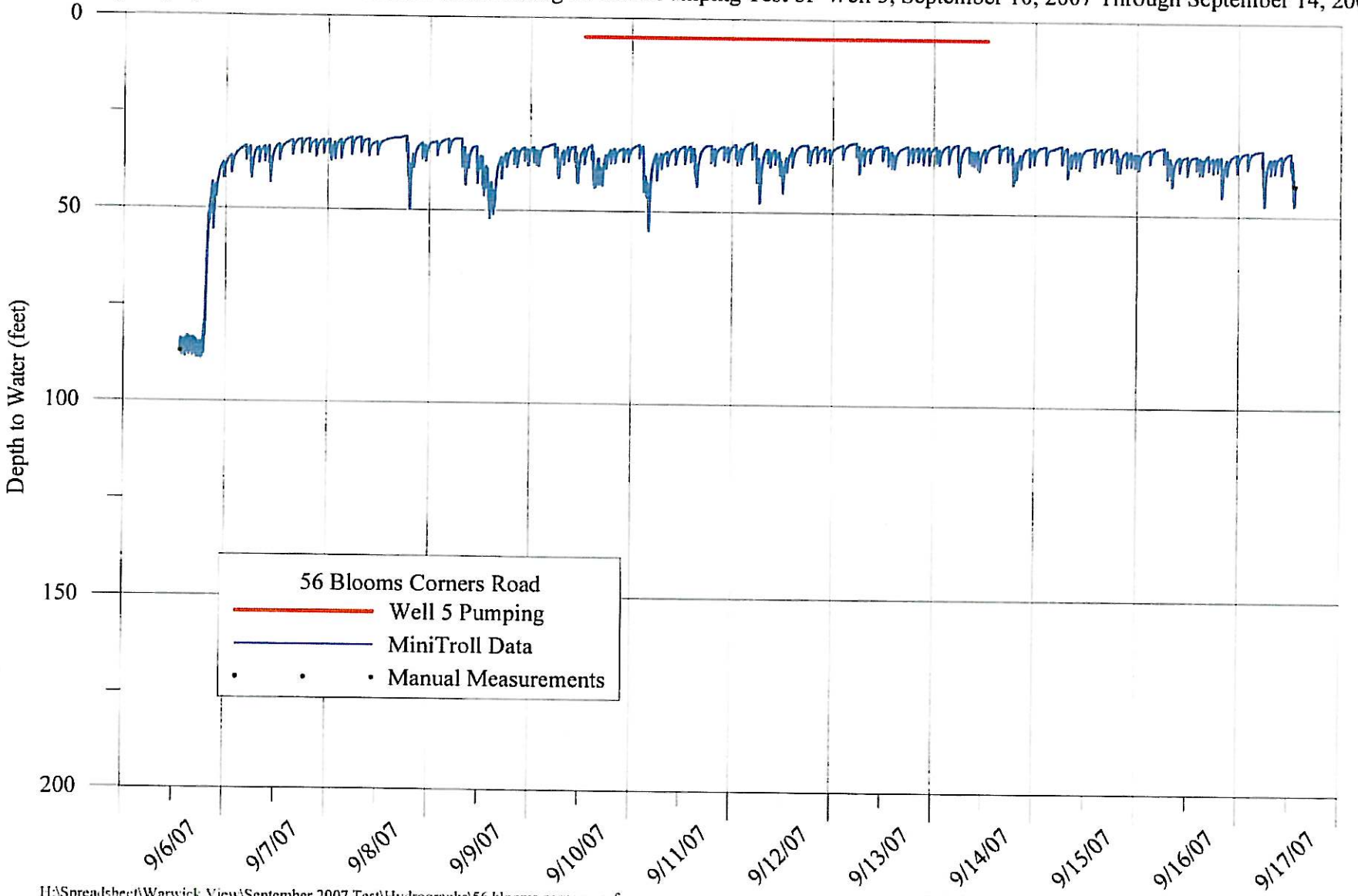
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 56 Blooms Corners Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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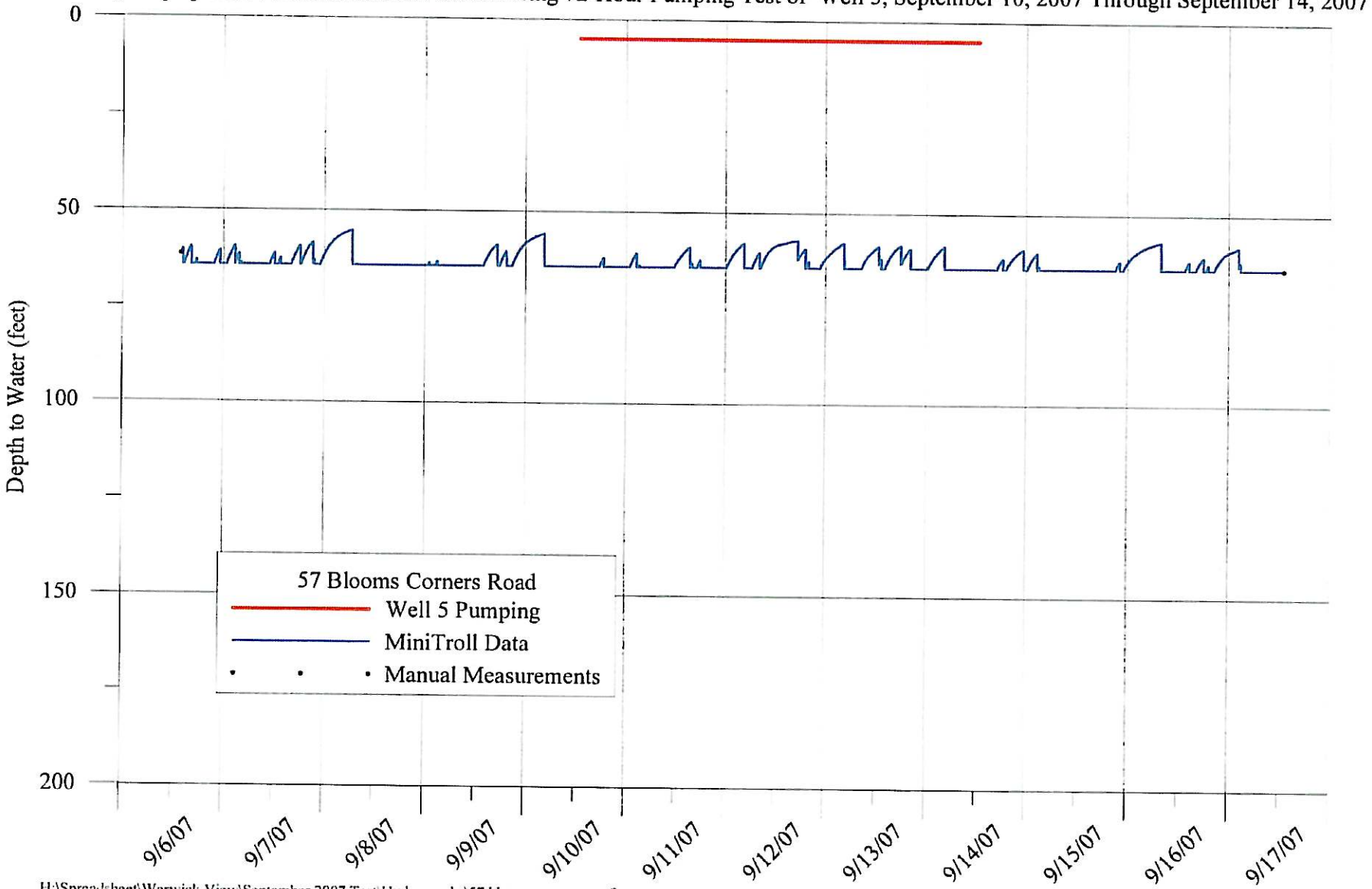
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 57 Blooms Corners Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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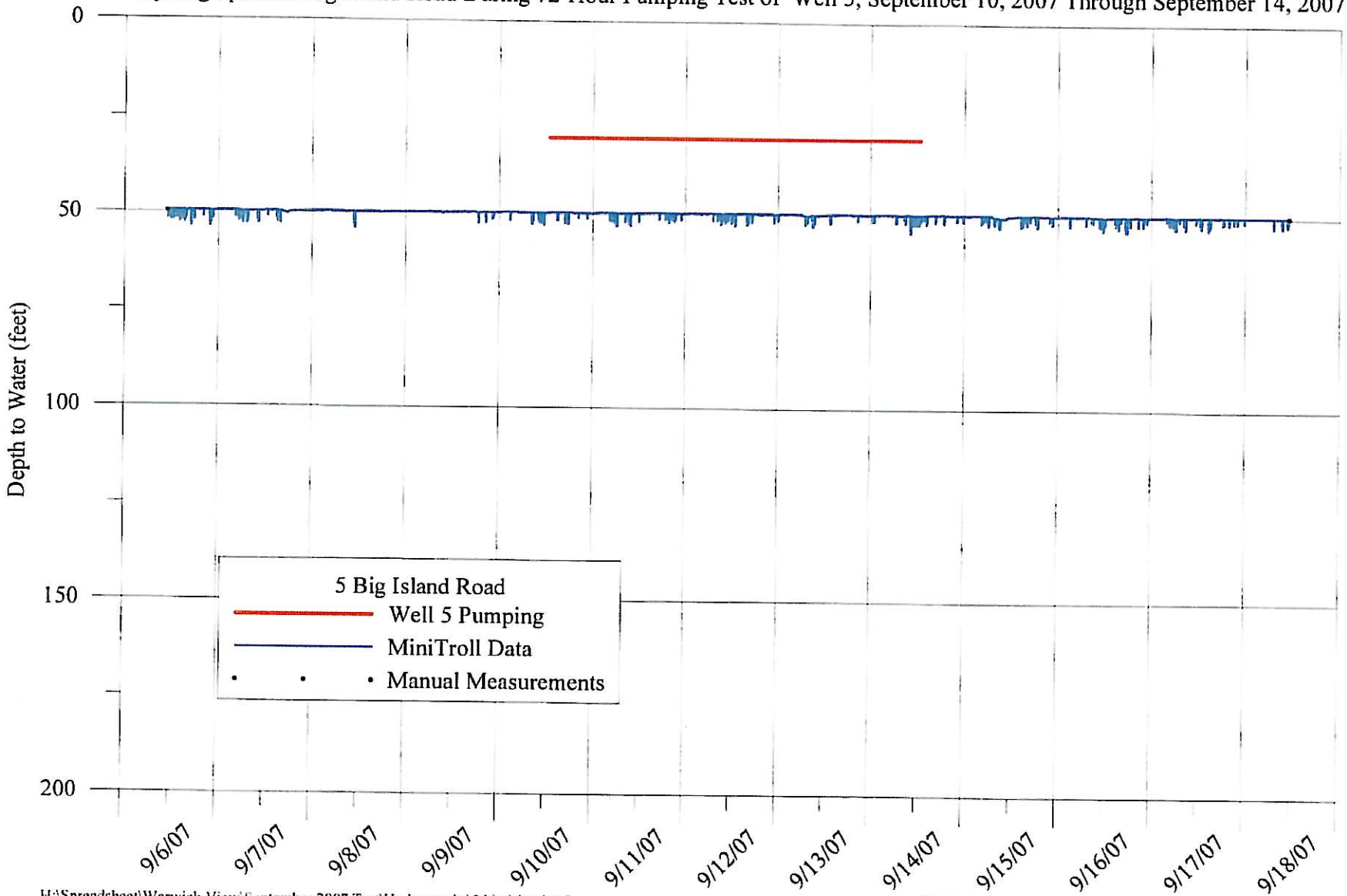
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 5 Big Island Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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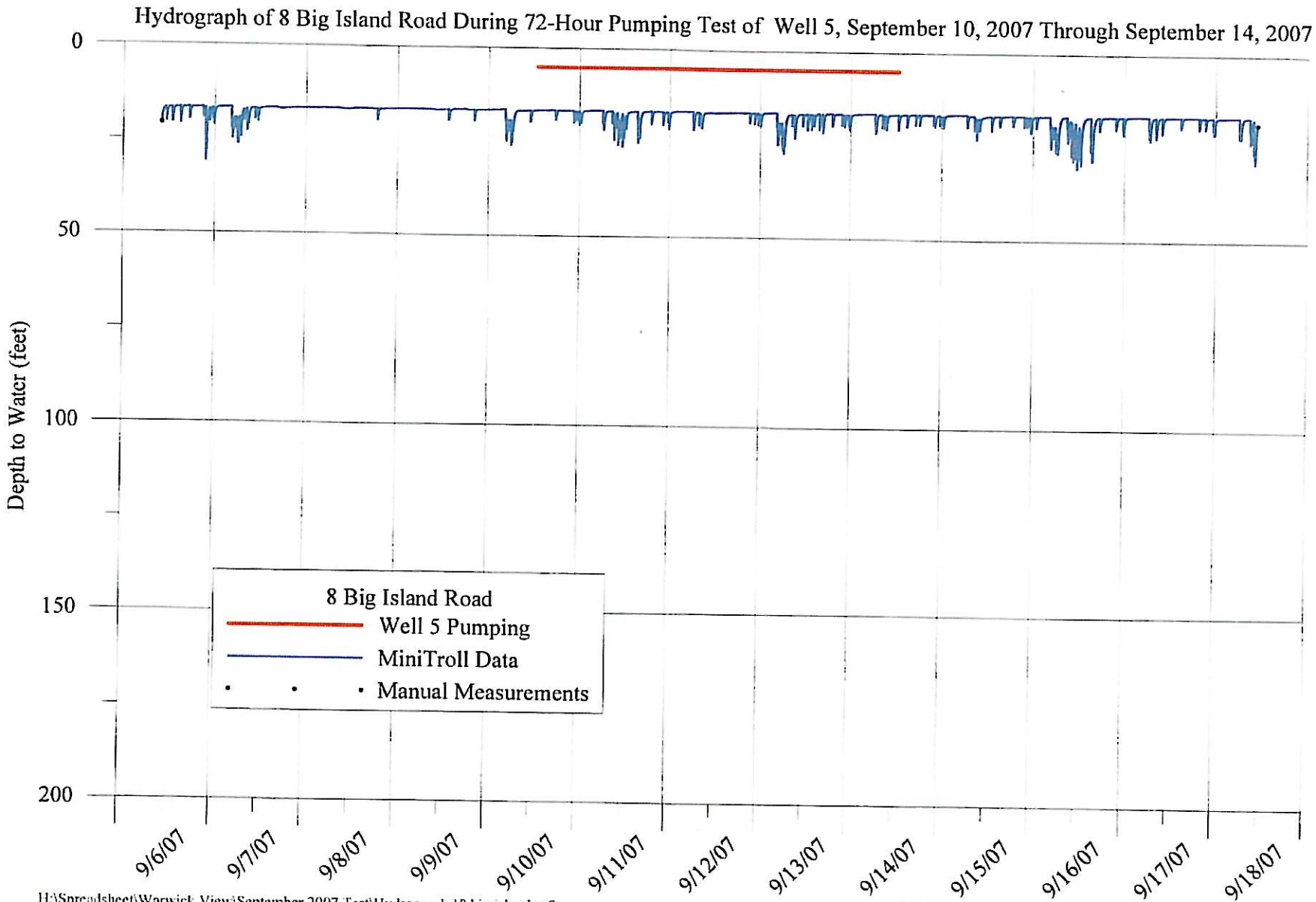
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK



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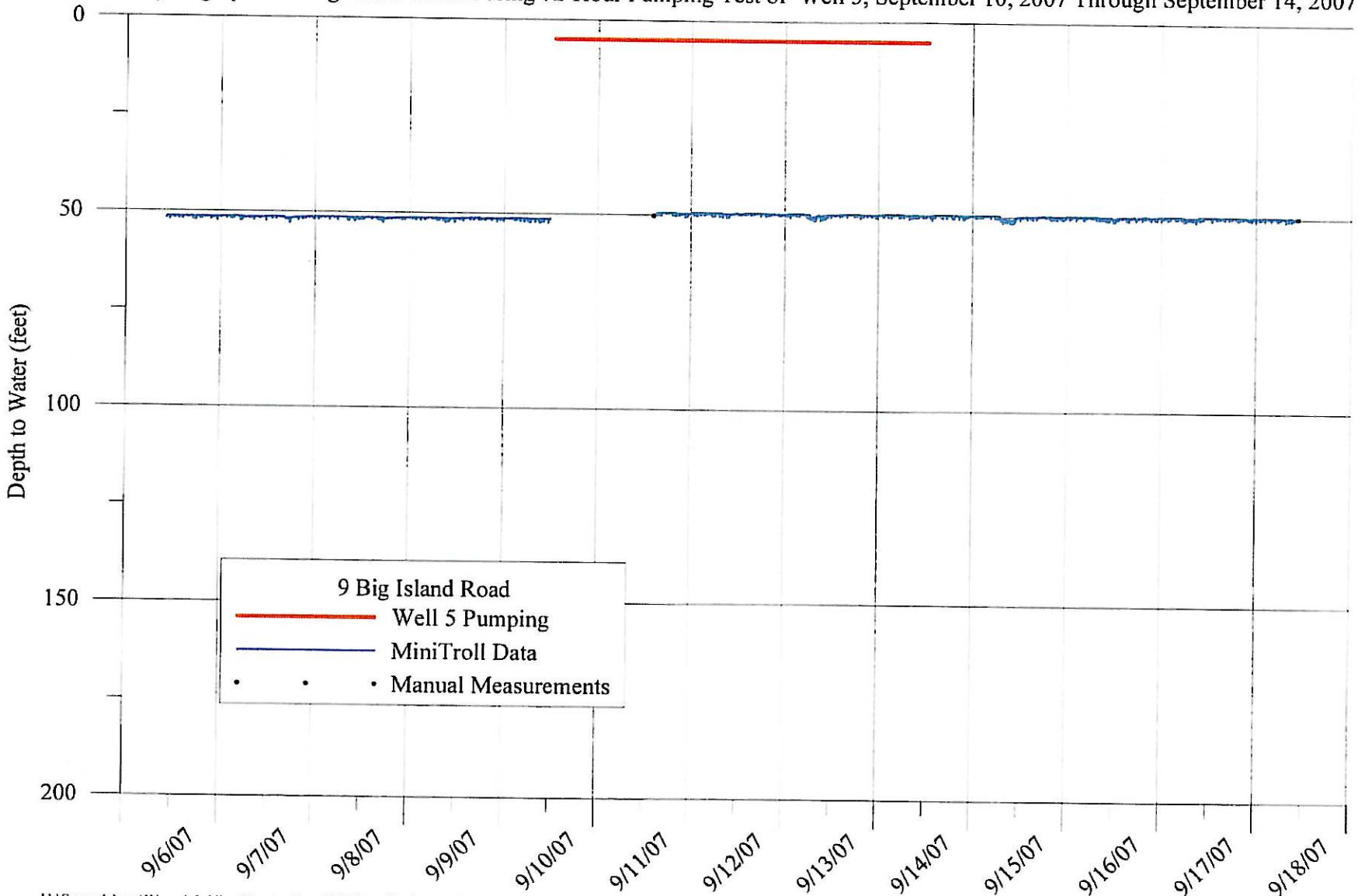
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 9 Big Island Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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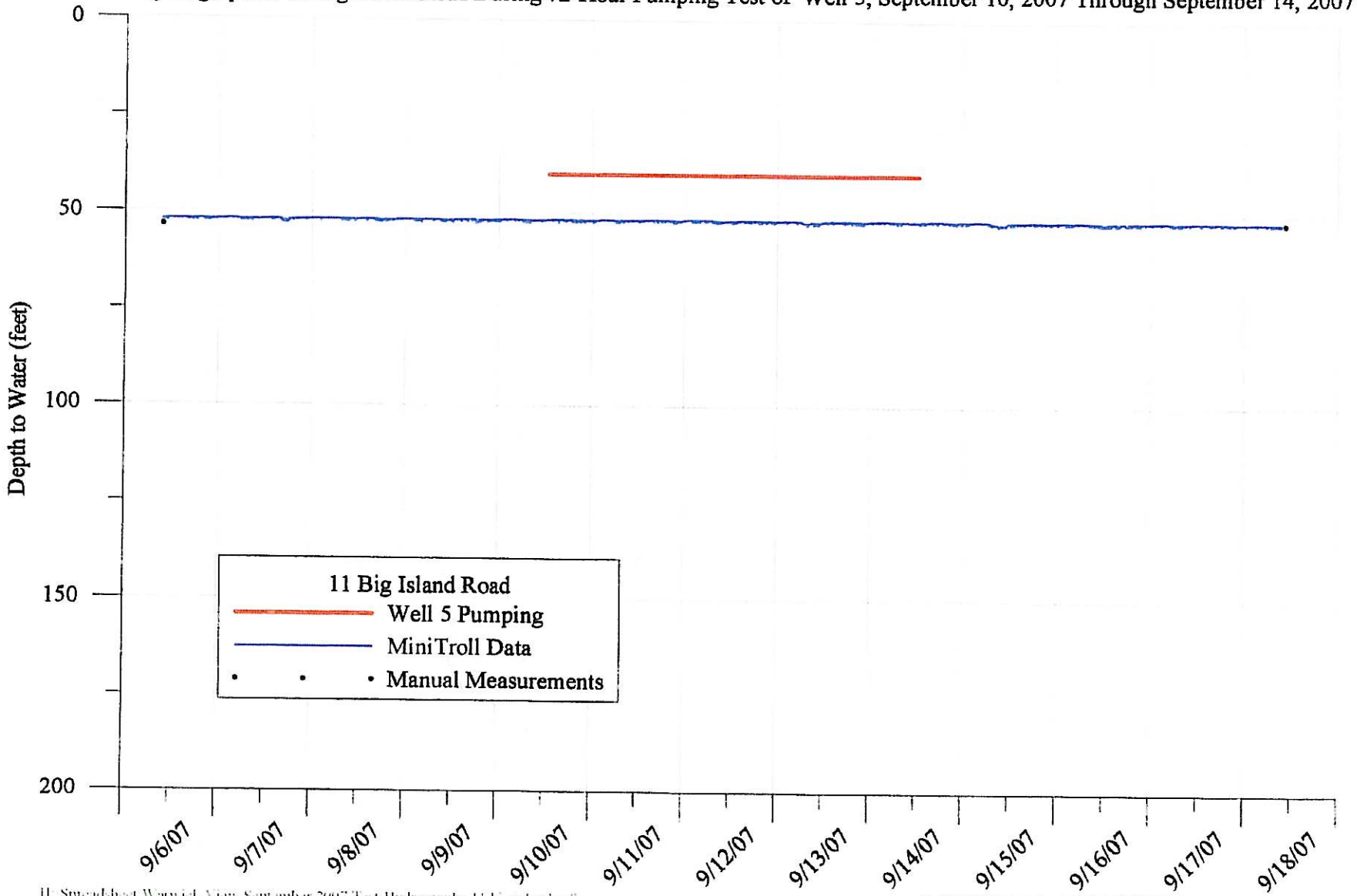
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 11 Big Island Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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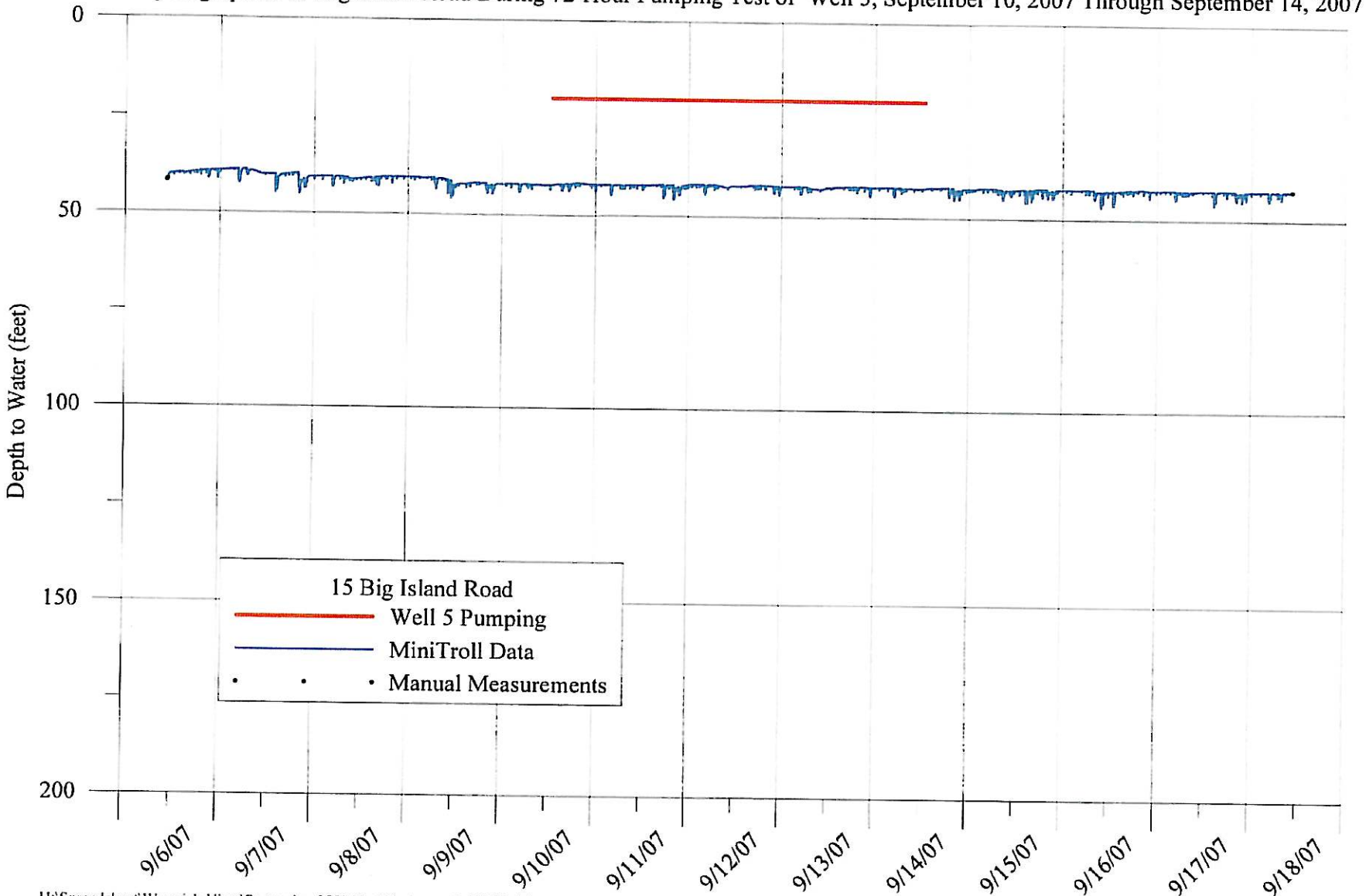
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 15 Big Island Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



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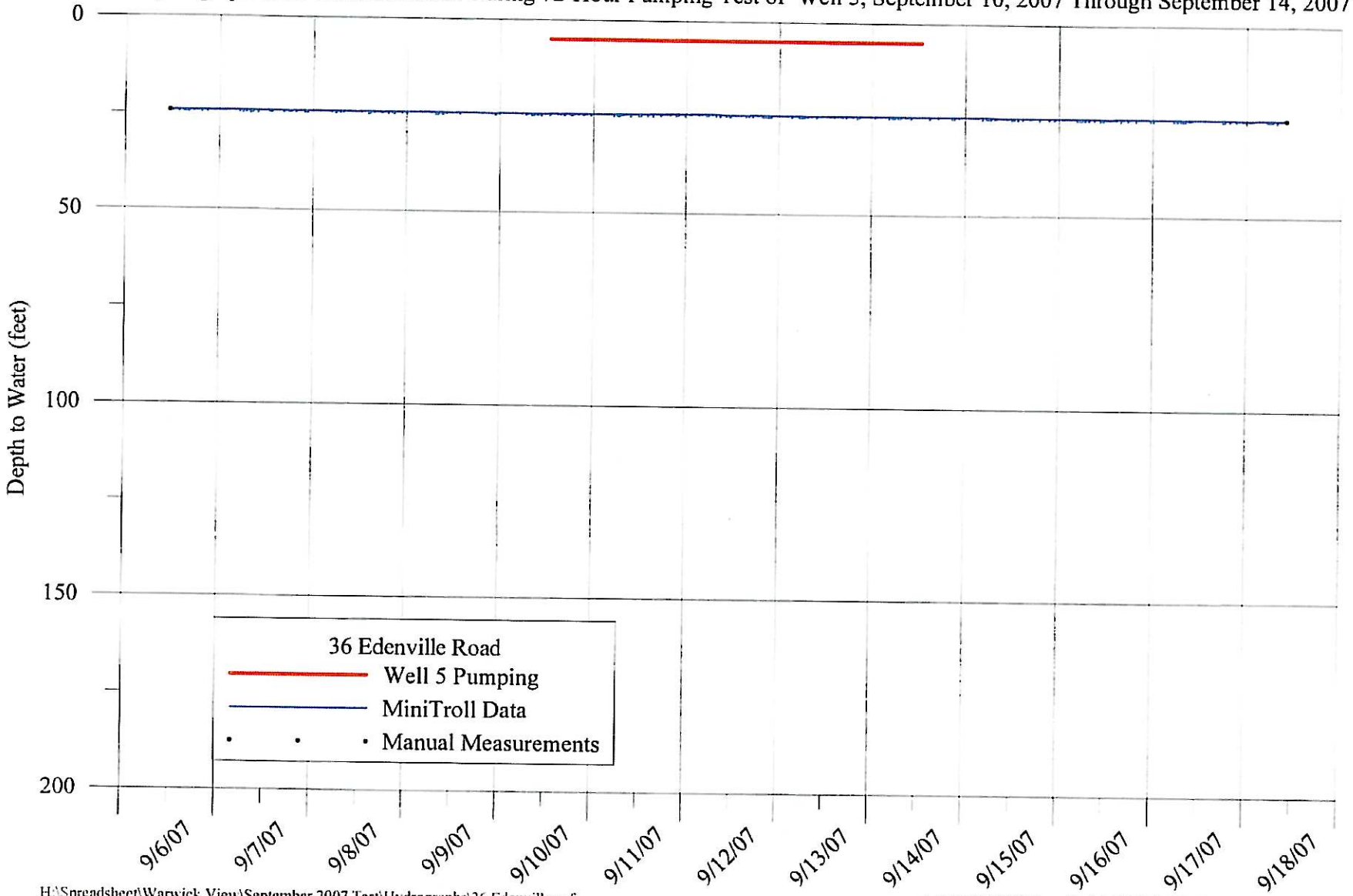
LEGGETTE, BRASHEARS & GRAHAM, INC.

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Hydrograph of 36 Edenville Road During 72-Hour Pumping Test of Well 5, September 10, 2007 Through September 14, 2007



H:\Spreadsheet\Warwick View\September 2007 Test\Hydrographs\36 Edenville.grf

LEGGETTE, BRASHEARS & GRAHAM, INC.

APPENDIX V

WELL 1

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

Phone: 845-733-1557
Fax: 845-733-1944

Serving The Hudson Valley For Over Sixty-five Years

Printed:5/11/2007

Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code: LBG

Fed ID :

OCL Sample No: 221072

System Name : LBG

Exact Location : WV Well 1

Date/time Collected : 5/10/2007 10:40

Date Received : 5/10/2007

Submit By : Client

Microbiological Results

Analysis	Result	Units	Method	Lab	Date	Time	By	Remarks
Total Coliform(ONPG)	presence	C100	9223B	10510	05/10/07	15:00	HH	Fail
E.coli(ONPG)	absence	C100	9223B	10510	05/10/07	15:00	HH	

Remarks :

PASS = Passes NYSDOH and EPA Drinking Water Standards
FAIL = Fails NYSDOH and EPA Drinking Water Standards
GT = Greater Than
LT = Less Than
C1 = Colonies per milliliter
C100 = Colonies per 100 milliliters

Microbiology Department

ELAP#10510

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

Phone: 845-733-1557
Fax: 845-733-1944

Serving The Hudson Valley For Over Sixty-five Years

Printed:5/15/2007

Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code : LBG

Fed ID :

OCL Sample No : 221072

System Name : LBG

Exact Location : WV Well 1

Date/time Collected : 5/10/2007 10:40

Date Received : 5/10/2007

Submit By : Client

Analytical Results

Analysis		Result	Units	MCL	DL	Method	Lab	Date	Time	By	Remarks
Alkalinity as CaCO3		261	mg/L		None	2320B	10510	05/11/07		RB	
Chloride	LT	4.0	mg/L	250	4.0	4500CL-C	10510	05/14/07		RB	
Color	LT	5			5	2120B	10510	05/10/07	15:30	RB	
Fluoride	LT	0.20	mg/L	2.2	0.20	340.2	10510	05/14/07		RB	
Hardness as CaCO3, Calcium		188	mg/L		10	3500 Ca-D	10510	05/10/07	14:40	RB	
Nitrate as N	LT	0.20	mg/L	10	0.2	Lachat	10510	05/11/07		LM	
Nitrite as N	LT	0.01	mg/L	1	0.01	EPA354.1	10510	05/10/07	15:45	RB	
Odor		none				2150	10510	05/10/07	15:20	RB	
pH		7.21				4500H+B	10510	05/10/07	14:20	RB	
Solids, Dissolved Total		298	mg/L			2540C	10510	05/10/07		RB	
Sulfate		26	mg/L	250	5	375.4	10510	05/14/07		RB	
Turbidity		0.36	ntu		0.10	2130B	10510	05/10/07	15:35	RB	
Corrosivity(Langelier Index)		- 0.11					10510	05/11/07		RB	

Copies to:

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

Rebecca Butler
Inorganic Chemistry Department
ELAP#10510

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

Phone: 845-733-1557
Fax: 845-733-1944

Serving The Hudson Valley For Over Sixty-five Years

Printed: 5/22/2007

Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code : LBG

Fed ID :

OCL Sample No : **221072**

System Name : **LBG**
Exact Location : **WV Well 1**

Date/Time Collected : **5/10/2007 10:40**
Date Received : **5/10/2007**
Submitted By : **Client**

Analytical results are shown on the pages following this cover page

Notes

Remarks:

Cover Page

Reviewed by David M. Kennedy - Director

ELAP#10510

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

DATE	May 17, 2007
HRI PROJECT	009-456
HRI SERIES NO	E187/07
DATE REC'D.	5/11/2007
CUST. P.O.#	None Rec'd

OCL Analytical Services
David Kennedy
35 Goshen Turnpike
Wallkill Park West
Bloomingburg, NY 12721

REPORT OF ANALYSIS

SAMPLE NO. E187/07-1

SAMPLE IDENTIFICATION: 221072 - LBG, Shelton, CT - WV Well 1 - sampled on 05/10/2007 @ 1040

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radon (+-Precision*), pCi/l (T)	1070(+-40)	12	SM 7500-Rn B	5/11/2007 @ 1326	AW

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.
Certification ID's: CO/EPA CO00008; CT PH-0152; KY 90076; KS E-10265; NH 232805-A;
NYELAP 11417; PADEP 68-00551; RI LAO00284; WI 998376610

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

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

By: _____
Robert Rostad
Laboratory Manager

An Employee-Owned Company

LAB ID # 11827

BENCHMARK ANALYTICS
4777 SAUCON CREEK ROAD
CENTER VALLEY, PA 18034-9004

PHONE (610) 974-8100
FAX (610) 974-8104

Work Order: 07050674

SEND DATA TO:
NAME:
COMPANY: OCL Analytical Services
ADDRESS: 35 Goshen Turnpike
Wallkill Park West
Bloomingburg, NY 12721

PHONE: (845) 733-1557
FAX: (845) 733-1944

WO#: 07050674
PAGE: 1 of 1
PO#:
PWS ID#

TEST REPORT

LBG - #221072

RECEIVED FOR LAB BY: TAZ DATE: 05/11/2007 8:55

SAMPLE: #221072, WV Well 1 Lab ID: 07050674-001A Grab
SAMPLED BY: Client Sample Time 05/10/2007 10:40

Test	Result	Uncert.	MDA	Units	Method	Analysis Start	Analysis End	Analyst
Gross Alpha	3.23	± 1.17	2.82	pCi/L	EPA 900.0	05/14/07 9:35	05/17/07	BH
Gross Beta	2.51	± 0.87	2.64	pCi/L	EPA 900.0	05/14/07 9:35	05/17/07	BH

SAMPLE: #221072, WV Well 1 Lab ID: 07050674-001B Grab
SAMPLED BY: Client Sample Time 05/10/2007 10:40

Test	Result	Uncert.	MDA	Units	Method	Analysis Start	Analysis End	Analyst
Radium-226	0.16	± 0.07	0.54	pCi/L	EPA 903.0	05/14/07 10:20	05/23/07	DTG

SAMPLE: #221072, WV Well 1 Lab ID: 07050674-001C Grab
SAMPLED BY: Client Sample Time 05/10/2007 10:40

Test	Result	Uncert.	MDA	Units	Method	Analysis Start	Analysis End	Analyst
Radium-228	0.78	± 0.78	0.55	pCi/L	EPA 904.0	05/17/07 8:00	05/21/07	CJJ

REMARKS:
The above test results meet all the requirements of NELAC and relate only to these samples.

MANAGER: Cin Meli DATE: 05-24-2007

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

Phone: 845-733-1557
Fax: 845-733-1944

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Printed: 6/4/2007

Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code : LBG

Fed ID :

OCL Sample No : 221072

System Name : LBG
Exact Location : WV Well 1

Date/Time Collected : 5/10/2007 10:40
Date Received : 5/10/2007
Submitted By : Client

Analytical results are shown on the pages following this cover page

Notes

BNCH*	Analysis performed by PA DEP#39-401, NY DOH#11827
LLFM	Matrix spike % Recovery below acceptance limits.
QC*	Analysis performed by NYS DOH #11223, PA DEP#09-131
LLFB	LFB % Recovery below acceptance limits. The result may be biased low.
H2M	Analysis performed by NYS DOH #10478, PA DEP #68-00350
a	Absence
QC	Quality Control Standard
TB	Trip Blank not analyzed - sample results did not exceed the MDL for this method.

Cover Page

David M. Kennedy

Reviewed by David M. Kennedy - Director

ELAP#10510

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, New York 12721

Analytical Results

OCL Sample No: **221072**

Method: EPA 200.7

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Barium	0.012	mg/L	2	0.0020	CMD		05/18/2007 00:00	05/25/2007 05:32
Cadmium	ND	mg/L	0.005	0.0020	CMD		05/18/2007 00:00	05/25/2007 05:32
Chromium	ND	mg/L	0.1	0.0050	CMD		05/18/2007 00:00	05/25/2007 05:32
Copper	ND	mg/L	1.3	0.25	CMD		05/18/2007 00:00	05/24/2007 08:28
Iron	0.070	mg/L	0.3	0.050	CMD		05/18/2007 00:00	05/24/2007 08:28
Manganese	ND	mg/L	0.3	0.0050	CMD		05/18/2007 00:00	05/24/2007 08:28
Nickel	ND	mg/L	0.1	0.0020	CMD		05/18/2007 00:00	05/25/2007 05:32
Silver	ND	mg/L	0.1	0.0010	CMD		05/18/2007 00:00	05/25/2007 05:32
Sodium	ND	mg/L		5.0	CMD		05/18/2007 00:00	05/24/2007 08:28
Zinc	0.036	mg/L	5	0.010	CMD		05/18/2007 00:00	05/25/2007 05:32

Method: EPA 200.8

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Antimony	ND	mg/L	0.006	0.0020		QC*	05/29/2007 19:48	05/29/2007 19:48
Beryllium	ND	mg/L	0.004	0.0020		QC*	05/18/2007 20:15	05/18/2007 20:15
Lead	ND	mg/L	0.015	0.0020		QC*	05/29/2007 19:48	05/29/2007 19:48
Selenium	ND	mg/L	0.05	0.0020		QC*	05/29/2007 19:48	05/29/2007 19:48
Thallium	ND	mg/L	0.002	0.002		QC*	05/29/2007 19:48	05/29/2007 19:48

Method: EPA 200.9

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Arsenic	ND	mg/L	0.01	0.003	JD		05/17/2007 00:00	05/17/2007 13:37

T = greater than
= less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

ELCD = Electrolytic Conductivity Detector (QC)
PID = Photoionization Detector (QC)

Analysis by Eastern Lab Services #11216 (unless otherwise noted)

Printed on: 6/4/2007

OCL Sample No: **221072**

Method: EPA 245.1

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Mercury	ND	mg/L	0.002	0.0002	JD		05/15/2007 00:00	05/16/2007 14:54

Method: EPA 335.4

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Cyanide (total)	ND	mg/L	0.2	0.010	RN		05/21/2007 08:30	05/21/2007 14:00

Method: EPA 502.2

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,1,1-Trichloroethane	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,1,2,2-Tetrachloroethane	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,1,2-Trichloroethane	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,1-Dichloroethane	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,1-Dichloroethene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,1-Dichloropropene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,2,3-Trichlorobenzene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,2,3-Trichloropropane	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,2,4-Trichlorobenzene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,2,4-Trimethylbenzene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,2-Dichlorobenzene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,2-Dichloroethane	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,2-Dichloropropane	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,3,5-Trimethylbenzene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,3-Dichlorobenzene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,3-Dichloropropane	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
1,4-Dichlorobenzene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
2,2-Dichloropropane	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
2-Chlorotoluene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
4-Chlorotoluene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
Benzene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
Bromobenzene	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
Bromochloromethane	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00
Bromomethane	ND	ug/L	5	0.5	KS	TB	05/17/2007 00:00	05/17/2007 00:00

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

ELCD = Electrolytic Conductivity Detector (QC)
PID = Photoionization Detector (QC)

Analysis by Eastern Lab Services #11216 (unless otherwise noted)

Printed on: 6/4/2007

OCL Sample No: **221072**

Method: EPA 502.2

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Carbon tetrachloride	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Chlorobenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Chloroethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Chloromethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Dibromomethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Dichlorodifluoromethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Ethylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Hexachlorobutadiene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Isopropylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Methyl tert-butyl ether	ND	ug/L	10	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Methylene chloride	ND	ug/L	5	0.5	KS	LLFB	TB	05/17/2007 00:00	05/17/2007 00:00
Styrene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Tetrachloroethene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Toluene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Trichloroethene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Trichlorofluoromethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Vinyl chloride	ND	ug/L	2	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
cis-1,2-Dichloroethene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
cis-1,3-Dichloropropene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
m,p-Xylene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
n-Butylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
n-Propylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
o-Xylene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
p-Isopropyltoluene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
sec-Butylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
tert-Butylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
trans-1,2-Dichloroethene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
trans-1,3-Dichloropropene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Chlorofluorobenzene (ELCD)	9.40	ug/L			KS		TB, QC	05/17/2007 00:00	05/17/2007 00:00
Chlorofluorobenzene (PID)	10.1	ug/L			KS		TB, QC	05/17/2007 00:00	05/17/2007 00:00

OCL Sample No: **221072**

Method: EPA 504.1

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
1,2-Dibromo-3-chloropropane	ND	ug/L	0.2	0.01	PDB			05/17/2007 00:00	05/17/2007 22:23
1,2-Dibromoethane (EDB)	ND	ug/L	0.05	0.01	PDB			05/17/2007 00:00	05/17/2007 22:23

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Tetrachloro-meta-xylene	0.188	ug/L			PDB		QC	05/17/2007 00:00	05/17/2007 22:23

Method: EPA 508

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Chlordane (tech)	ND	ug/L	2	0.10	PDB			05/14/2007 00:00	05/19/2007 07:54
PCBs as Aroclors (screen)	Absence	ug/L	0.1	0.00	PDB			05/14/2007 00:00	05/19/2007 07:54
Toxaphene	ND	ug/L	3	0.25	PDB			05/14/2007 00:00	05/19/2007 07:54

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
beta-BHC	0.0740	ug/L			PDB		QC	05/14/2007 00:00	05/19/2007 07:54

Method: EPA 515.3

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
2,4,5-TP (Silvex)	ND	ug/L	50	0.3			BNCH*	05/16/2007 09:15	05/18/2007 00:00
2,4-D	ND	ug/L	70	0.5			BNCH*	05/16/2007 09:15	05/18/2007 00:00
Dalapon	ND	ug/L	200	3.0			BNCH*	05/16/2007 09:15	05/18/2007 00:00
Dicamba	ND	ug/L	50	0.3			BNCH*	05/16/2007 09:15	05/18/2007 00:00
Dinoseb	ND	ug/L	7	0.5			BNCH*	05/16/2007 09:15	05/18/2007 00:00
Pentachlorophenol	ND	ug/L	1	0.3			BNCH*	05/16/2007 09:15	05/18/2007 00:00
Picloram	ND	ug/L	500	0.3			BNCH*	05/16/2007 09:15	05/18/2007 00:00

OCL Sample No: **221072**

Method: EPA 515.3

Method: EPA 525.2

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Alachlor	ND	ug/L	2	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Aldrin	ND	ug/L	5	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Atrazine	ND	ug/L	3	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Benzo (a) pyrene	ND	ug/L	0.2	0.10	RJH	LLFM	05/18/2007 00:00	05/21/2007 00:00
Butachlor	ND	ug/L	50	2.00	RJH		05/18/2007 00:00	05/21/2007 00:00
Di(2-ethylhexyl)adipate	ND	ug/L	400	2.00	RJH		05/18/2007 00:00	05/21/2007 00:00
Di(2-ethylhexyl)phthalate	ND	ug/L	6	2.00	RJH		05/18/2007 00:00	05/21/2007 00:00
Dieldrin	ND	ug/L	5	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Endrin	ND	ug/L	2	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
HCH-gamma (Lindane)	ND	ug/L	0.2	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Heptachlor	ND	ug/L	0.4	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Heptachlor epoxide	ND	ug/L	0.2	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Hexachlorobenzene	ND	ug/L	1	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Hexachlorocyclopentadiene	ND	ug/L	50	0.10	RJH	LLFM	05/18/2007 00:00	05/21/2007 00:00
Methoxychlor	ND	ug/L	40	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Metolachlor	ND	ug/L	50	2.00	RJH		05/18/2007 00:00	05/21/2007 00:00
Metribuzin	ND	ug/L	50	1.00	RJH		05/18/2007 00:00	05/21/2007 00:00
Propachlor	ND	ug/L	50	1.00	RJH		05/18/2007 00:00	05/21/2007 00:00
Simazine	ND	ug/L	4	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
1,3-Dimethyl-2-nitrobenzene	5.06	ug/L			RJH		QC	05/18/2007 00:00	05/21/2007 00:00
Perylene-d12	4.26	ug/L			RJH		QC	05/18/2007 00:00	05/21/2007 00:00
Triphenyl phosphate	5.29	ug/L			RJH		QC	05/18/2007 00:00	05/21/2007 00:00

Method: EPA 531.1

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
3-Hydroxycarbofuran	ND	ug/L		1.00	IC		05/22/2007 00:00	05/22/2007 00:00
Aldicarb	ND	ug/L	3	1.00	IC		05/22/2007 00:00	05/22/2007 00:00
Aldicarb sulfone	ND	ug/L	2	1.00	IC		05/22/2007 00:00	05/22/2007 00:00
Aldicarb sulfoxide	ND	ug/L	4	1.00	IC		05/22/2007 00:00	05/22/2007 00:00
Carbaryl	ND	ug/L		1.00	IC		05/22/2007 00:00	05/22/2007 00:00

OCL Sample No: **221072**

Method: EPA 531.1

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Carbofuran	ND	ug/L	40	1.00	IC		05/22/2007 00:00	05/22/2007 00:00
Methomyl	ND	ug/L		1.00	IC		05/22/2007 00:00	05/22/2007 00:00
Oxamyl	ND	ug/L	200	1.00	IC		05/22/2007 00:00	05/22/2007 00:00

Method: EPA 547

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Glyphosate	ND	mg/L	0.7	0.05	IC		05/14/2007 00:00	05/14/2007 00:00

Method: EPA 548.1

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Endothall	ND	mg/L	0.1	0.05		H2M	05/17/2007 00:00	05/24/2007 23:34

Method: EPA 549.2

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Diquat	ND	mg/L	20	0.0008	IC	LLFB	05/17/2007 00:00	05/17/2007 00:00

OCL Analytical Services
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Bloomingburg, NY 12721

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Serving The Hudson Valley For Over Sixty-five Years

Printed: 6/14/2007

Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code : LBG

Fed ID :

OCL Sample No : 221072

System Name : LBG
Exact Location : WV Well 1

Date/Time Collected : 5/10/2007 10:40
Date Received : 5/10/2007
Submitted By : Client

Analytical results are shown on the pages following this cover page

Notes

BNCH*	Analysis performed by PA DEP#39-401, NY DOH#11827
LLFM	Matrix spike % Recovery below acceptance limits.
QC*	Analysis performed by NYS DOH #11223, PA DEP#09-131
LLFB	LFB % Recovery below acceptance limits. The result may be biased low.
H2M	Analysis performed by NYS DOH #10478, PA DEP #68-00350
a	Absence
QC	Quality Control Standard
TB	Trip Blank not analyzed - sample results did not exceed the MDL for this method.

Cover Page

Reviewed by David M. Kennedy - Director

ELAP#10510

FLI FRIEND LABORATORY I • N • C

32 ITHACA STREET WAVERLY, NY 14892 - 1532
TELEPHONE (607) 565-3500 FAX (607) 565 - 4083

NY 10252 NJ 73168
PA 68180 EPA NY00033

Certificate of Analysis

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721
Attn: Todd Zeilinski

Order Number: 0705-00595
Date Reported: 6/11/2007
Date Received: 5/11/2007
Invoice Number: 45166
Customer Number: O003
Customer PO:
Certification Date: 6/11/2007

Subject:
MPA

SMP	Analysis Performed	Result	Units	Detection Limit	Method	Analysis Information
001	**221072 AQ Grab 5/9/2007 7:05 Client**					
	MPA					6/4/07, 13:00, OBW
	Cryptosporidium	U	/100 gal		ICR USEPA	6/4/07, 13:00, OBW
	Giardia	U	/100 gal		ICR USEPA	6/4/07, 13:00, OBW
	Algae	2.1X10^6	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Diatoms	1.5X10^6	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Rotifers	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Rotifer Eggs	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Plant Matter	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Pollen	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Insects	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Insect Parts	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Nematodes	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Nematode Eggs	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Crustaceans	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Crustacean Parts	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Protozoa	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Fine Debris	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Large Debris	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of 5-15 uM	TNTC	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of 15-100 uM	4.7X10^6	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of 100-200 uM	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of >200 uM	8.5X10^3	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD

Iron bacteria found in sample resulting in 4.9X10^4.
Cryptosporidium results estimated due to method limitations.

002	**221073 WU Well 2 Grab 5/9/2007 7:05 Client**					
	MPA					6/4/07, 13:00, OBW
	Cryptosporidium	U	/100 gal		ICR USEPA	6/4/07, 13:00, OBW
	Giardia	U	/100 gal		ICR USEPA	6/4/07, 13:00, OBW
	Algae	7.7X10^5	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Diatoms	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Rotifers	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Rotifer Eggs	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Plant Matter	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Pollen	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Insects	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Insect Parts	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Nematodes	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Nematode Eggs	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Crustaceans	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Crustacean Parts	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD

Key: E = estimated value; < = less than the indicated value; ND or U = analyte not detected; B = analyte was detected in the method or trip blank.
ug/L = micrograms per liter (equivalent to parts per billion); mg/L = milligrams per liter (equivalent to parts per million); mg/Kg = milligrams per kilogram (equivalent to parts per million)

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your sample will be discarded after 14 days unless we are advised otherwise.

FLI FRIEND LABORATORY INC

32 ITHACA STREET WAVERLY, NY 14892 - 1632
TELEPHONE (607) 565-3600 FAX (607) 565 - 4083

NY 10252 NJ 73168
PA 68180 EPA NY00033

Certificate of Analysis

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721
Attn: Todd Zeilinski

Order Number: 0705-00595
Date Reported: 6/11/2007
Date Received: 5/11/2007
Invoice Number: 45166
Customer Number: O003
Customer PO:
Certification Date: 6/11/2007

Subject:
MPA

SMP	Analysis Performed	Result	Units	Detection Limit	Method	Analysis Information
002	221073 WU Well 2 Grab 5/9/2007 7:05 Client					
	.....continued					
	Protozoa	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Fine Debris	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Large Debris	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of 5-15 uM	6.7X10^4	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of 15-100 uM	7.2X10^5	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of 100-200 uM	1.1X10^5	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of >200 uM	1.9X10^4	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD

Cryptosporidium results estimated due to method limitations.

Approved By: _____
Hal Warso, Managing Director

Key: E = estimated value
ND or U = analyte not detected
B = analyte was detected in the method or trip blank
< = less than the indicated value
ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million)
mg/Kg = milligrams per kilogram (equivalent to parts per million)

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your sample will be discarded after 14 days unless we are advised otherwise.

WELL 2

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

Phone: 845-733-1557
Fax: 845-733-1944

Serving The Hudson Valley For Over Sixty-five Years

Printed:5/11/2007

Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code: LBG

Fed ID :

OCL Sample No: 221073

System Name : LBG

Exact Location : WV Well 2

Date/time Collected : 5/10/2007 11:45

Date Received : 5/10/2007

Submit By : Client

Microbiological Results

Analysis	Result	Units	Method	Lab	Date	Time	By	Remarks
Total Coliform(ONPG)	presence	C100	9223B	10510	05/10/07	15:00	HH	Fail
E.coli(ONPG)	absence	C100	9223B	10510	05/10/07	15:00	HH	

Remarks :

PASS = Passes NYSDOH and EPA Drinking Water Standards
FAIL = Fails NYSDOH and EPA Drinking Water Standards
GT = Greater Than
LT = Less Than
C1 = Colonies per milliliter
C100 = Colonies per 100 milliliters

Microbiology Department

ELAP#10510

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

Phone: 845-733-1557
Fax: 845-733-1944

Serving The Hudson Valley For Over Sixty-five Years

Printed:5/18/2007

Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code : **LBG**

Fed ID :

OCL Sample No : **221073**

System Name : **LBG**

Exact Location : **WV Well 2**

Date/time Collected : **5/10/2007 11:45**

Date Received : **5/10/2007**

Submit By : **Client**

Analytical Results

Analysis		Result	Units	MCL	DL	Method	Lab	Date	Time	By	Remarks
Alkalinity as CaCO3		264	mg/L		None	2320B	10510	05/11/07		RB	
Chloride	LT	4.0	mg/L	250	4.0	4500CL-C	10510	05/14/07		RB	
Color	LT	5			5	2120B	10510	05/10/07	15:30	RB	
Fluoride	LT	0.20	mg/L	2.2	0.20	340.2	10510	05/14/07		RB	
Hardness as CaCO3, Calcium		216	mg/L		10	3500 Ca-D	10510	05/10/07	14:40	RB	
Nitrate as N		0.25	mg/L	10	0.2	Lachat	10510	05/11/07		LM	
Nitrite as N	LT	0.01	mg/L	1	0.01	EPA354.1	10510	05/10/07	15:45	RB	
Odor		none				2150	10510	05/10/07	15:20	RB	
pH		7.23				4500H+B	10510	05/10/07	14:20	RB	
Solids, Dissolved Total		274	mg/L			2540C	10510	05/15/07		CW	
Sulfate		12	mg/L	250	5	375.4	10510	05/14/07		RB	
Turbidity		0.14	ntu		0.10	2130B	10510	05/10/07	15:35	RB	
Corrosivity(Langelier Index)		- 0.02					10510	05/16/07		RB	

Copies to:

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

Rebecca Butler
Inorganic Chemistry Department
ELAP#10510

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

Phone: 845-733-1557
Fax: 845-733-1944

Serving The Hudson Valley For Over Sixty-five Years

Printed: 5/22/2007

Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code : LBG

Fed ID :

OCL Sample No : 221073

System Name : LBG

Exact Location : WV Well 2

Date/Time Collected : 5/10/2007 11:45

Date Received : 5/10/2007

Submitted By : Client

Analytical results are shown on the pages following this cover page

Notes

Remarks:

Cover Page

Reviewed by David M. Kennedy - Director

ELAP#10510

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

DATE	May 17, 2007
HRI PROJECT	009-456
HRI SERIES NO	E187/07
DATE REC'D.	5/11/2007
CUST. P.O.#	None Rec'd

OCL Analytical Services
David Kennedy
35 Goshen Turnpike
Wallkill Park West
Bloomingburg, NY 12721

REPORT OF ANALYSIS

SAMPLE NO. E187/07-2

SAMPLE IDENTIFICATION: 221073 - LBG, Shelton, CT - WV Well 2 - sampled on 05/10/2007 @ 1145

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radon (+-Precision*), pCi/l (T)	660(+-30)	12	SM 7500-Rn B	5/11/2007 @ 1328	AW

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.
Certification ID's: CO/EPA CO00008; CT PH-0152; KY 90076; KS E-10265; NH 232805-A;
NYELAP 11417; PADEP 68-00551; RI LAO00284; WI 998376610

By: Robert Rostad
Laboratory Manager

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

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

An Employee-Owned Company

LAB ID # 11827

BENCHMARK ANALYTICS
4777 SAUCON CREEK ROAD
CENTER VALLEY, PA 18034-9004

PHONE (610) 974-8100
FAX (610) 974-8104

Work Order: 07050672

SEND DATA TO:
NAME:
COMPANY: OCL Analytical Services
ADDRESS: 35 Goshen Turnpike
Wallkill Park West
Bloomingburg, NY 12721

PHONE: (845) 733-1557
FAX: (845) 733-1944

WO#: 07050672
PAGE: 1 of 1
PO#:
PWS ID#

TEST REPORT

LBG - #221073
RECEIVED FOR LAB BY: TAZ DATE: 05/11/2007 8:55

SAMPLE: #221073, WV Well 2 Lab ID: 07050672-001A Grab
SAMPLED BY: Client Sample Time 05/10/2007 11:45

Test	Result	Uncert.	MDA	Units	Method	Analysis Start	Analysis End	Analyst
Gross Alpha	-0.54	± 0.42	2.78	pCi/L	EPA 900.0	05/14/07 9:35	05/17/07	BH
Gross Beta	-0.04	± 0.73	2.63	pCi/L	EPA 900.0	05/14/07 9:35	05/17/07	BH

SAMPLE: #221073, WV Well 2 Lab ID: 07050672-001B Grab
SAMPLED BY: Client Sample Time 05/10/2007 11:45

Test	Result	Uncert.	MDA	Units	Method	Analysis Start	Analysis End	Analyst
Radium-226	0.06	± 0.04	0.55	pCi/L	EPA 903.0	05/14/07 10:20	05/23/07	DTG

SAMPLE: #221073, WV Well 2 Lab ID: 07050672-001C Grab
SAMPLED BY: Client Sample Time 05/10/2007 11:45

Test	Result	Uncert.	MDA	Units	Method	Analysis Start	Analysis End	Analyst
Radium-228	0.43	± 0.67	0.55	pCi/L	EPA 904.0	05/17/07 8:00	05/21/07	CJJ

REMARKS:
The above test results meet all the requirements of NELAC and relate only to these samples.

MANAGER: Chi Meli DATE: 05-24-2007

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

Phone: 845-733-1557
Fax: 845-733-1944

Serving The Hudson Valley For Over Sixty-five Years

Printed: 6/4/2007

Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code : LBG

Fed ID :

OCL Sample No : 221073

System Name : LBG

Exact Location : WV Well 2

Date/Time Collected : 5/10/2007 11:45

Date Received : 5/10/2007

Submitted By : Client

Analytical results are shown on the pages following this cover page

Notes

AA	Internal Standard recovery was below the acceptance limit..
BNCH*	Analysis performed by PA DEP#39-401, NY DOH#11827
QC*	Analysis performed by NYS DOH #11223, PA DEP#09-131
LLFB	LFB % Recovery below acceptance limits. The result may be biased low.
H2M	Analysis performed by NYS DOH #10478, PA DEP #68-00350
a	Absence
QC	Quality Control Standard
TB	Trip Blank not analyzed - sample results did not exceed the MDL for this method.

Cover Page

Reviewed by David M. Kennedy - Director

ELAP#10510

OCL Analytical Services
15 Goshen Turnpike
Bloomingburg, New York 12721

Analytical Results

OCL Sample No: **221073**

Method: EPA 200.7

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Barium	0.0082	mg/L	2	0.0020	CMD		05/18/2007 00:00	05/25/2007 05:28
Cadmium	ND	mg/L	0.005	0.0020	CMD		05/18/2007 00:00	05/25/2007 05:28
Chromium	ND	mg/L	0.1	0.0050	CMD		05/18/2007 00:00	05/25/2007 05:28
Copper	ND	mg/L	1.3	0.25	CMD		05/18/2007 00:00	05/24/2007 08:21
Iron	0.057	mg/L	0.3	0.050	CMD		05/18/2007 00:00	05/24/2007 08:21
Manganese	ND	mg/L	0.3	0.0050	CMD		05/18/2007 00:00	05/24/2007 08:21
Nickel	ND	mg/L	0.1	0.0020	CMD		05/18/2007 00:00	05/25/2007 05:28
Silver	ND	mg/L	0.1	0.0010	CMD		05/18/2007 00:00	05/25/2007 05:28
Sodium	ND	mg/L		5.0	CMD		05/18/2007 00:00	05/24/2007 08:21
Zinc	0.018	mg/L	5	0.010	CMD		05/18/2007 00:00	05/25/2007 05:28

Method: EPA 200.8

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Antimony	ND	mg/L	0.006	0.0020		QC*	05/29/2007 19:54	05/29/2007 19:54
Beryllium	ND	mg/L	0.004	0.0020		QC*	05/18/2007 20:18	05/18/2007 20:18
Lead	ND	mg/L	0.015	0.0020		QC*	05/29/2007 19:54	05/29/2007 19:54
Selenium	ND	mg/L	0.05	0.0020		QC*	05/29/2007 19:54	05/29/2007 19:54
Thallium	ND	mg/L	0.002	0.002		QC*	05/29/2007 19:54	05/29/2007 19:54

Method: EPA 200.9

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Arsenic	ND	mg/L	0.01	0.003	JD		05/17/2007 00:00	05/17/2007 13:37

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

ELCD = Electrolytic Conductivity Detector (QC)
PID = Photoionization Detector (QC)

Analysis by Eastern Lab Services #11216 (unless otherwise noted)

Printed on: 6/4/2007

OCL Sample No: **221073**

Method: EPA 245.1

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Mercury	ND	mg/L	0.002	0.0002	JD		05/15/2007 00:00	05/16/2007 14:54

Method: EPA 335.4

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Cyanide (total)	ND	mg/L	0.2	0.010	RN		05/21/2007 08:30	05/21/2007 14:00

Method: EPA 502.2

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,1,1-Trichloroethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,1,2,2-Tetrachloroethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,1,2-Trichloroethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,1-Dichloroethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,1-Dichloroethene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,1-Dichloropropene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,2,3-Trichlorobenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,2,3-Trichloropropane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,2,4-Trichlorobenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,2,4-Trimethylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,2-Dichlorobenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,2-Dichloroethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,2-Dichloropropane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,3,5-Trimethylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,3-Dichlorobenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,3-Dichloropropane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
1,4-Dichlorobenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
2,2-Dichloropropane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
2-Chlorotoluene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
4-Chlorotoluene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Benzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Bromobenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Bromochloromethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Bromomethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00

OCL Sample No: **221073**

Method: EPA 502.2

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Carbon tetrachloride	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Chlorobenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Chloroethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Chloromethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Dibromomethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Dichlorodifluoromethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Ethylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Hexachlorobutadiene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Isopropylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Methyl tert-butyl ether	ND	ug/L	10	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Methylene chloride	ND	ug/L	5	0.5	KS	LLFB	TB	05/17/2007 00:00	05/17/2007 00:00
Styrene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Tetrachloroethene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Toluene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Trichloroethene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Trichlorofluoromethane	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
Vinyl chloride	ND	ug/L	2	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
cis-1,2-Dichloroethene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
cis-1,3-Dichloropropene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
m,p-Xylene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
n-Butylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
n-Propylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
o-Xylene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
p-Isopropyltoluene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
sec-Butylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
tert-Butylbenzene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
trans-1,2-Dichloroethene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00
trans-1,3-Dichloropropene	ND	ug/L	5	0.5	KS		TB	05/17/2007 00:00	05/17/2007 00:00

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Chlorofluorobenzene (ELCD)	9.60	ug/L			KS		TB, QC	05/17/2007 00:00	05/17/2007 00:00
Chlorofluorobenzene (PID)	10.2	ug/L			KS		TB, QC	05/17/2007 00:00	05/17/2007 00:00

OCL Sample No: **221073**

Method: EPA 504.1

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
1,2-Dibromo-3-chloropropane	ND	ug/L	0.2	0.01	PDB			05/17/2007 00:00	05/17/2007 21:51
1,2-Dibromoethane (EDB)	ND	ug/L	0.05	0.01	PDB			05/17/2007 00:00	05/17/2007 21:51

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Tetrachloro-meta-xylene	0.143	ug/L			PDB		QC	05/17/2007 00:00	05/17/2007 21:51

Method: EPA 508

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Chlordane (tech)	ND	ug/L	2	0.11	PDB			05/14/2007 00:00	05/19/2007 07:31
PCBs as Aroclors (screen)	Absence	ug/L	0.1	0.00	PDB			05/14/2007 00:00	05/19/2007 07:31
Toxaphene	ND	ug/L	3	0.27	PDB			05/14/2007 00:00	05/19/2007 07:31

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
beta-BHC	0.0842	ug/L			PDB		QC	05/14/2007 00:00	05/19/2007 07:31

Method: EPA 515.3

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
2,4,5-TP (Silvex)	ND	ug/L	50	0.3			BNCH*	05/16/2007 09:15	05/18/2007 00:00
2,4-D	ND	ug/L	70	0.6			BNCH*	05/16/2007 09:15	05/18/2007 00:00
Dalapon	ND	ug/L	200	3.0			BNCH*	05/16/2007 09:15	05/18/2007 00:00
Dicamba	ND	ug/L	50	0.3			BNCH*	05/16/2007 09:15	05/18/2007 00:00
Dinoseb	ND	ug/L	7	0.5			BNCH*	05/16/2007 09:15	05/18/2007 00:00
Pentachlorophenol	ND	ug/L	1	0.3			BNCH*	05/16/2007 09:15	05/18/2007 00:00
Picloram	ND	ug/L	500	0.3			BNCH*	05/16/2007 09:15	05/18/2007 00:00

OCL Sample No: 221073

Method: EPA 515.3

Method: EPA 525.2

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Alachlor	ND	ug/L	2	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Aldrin	ND	ug/L	5	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Atrazine	ND	ug/L	3	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Benzo (a) pyrene	ND	ug/L	0.2	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Butachlor	ND	ug/L	50	2.00	RJH		05/18/2007 00:00	05/21/2007 00:00
Di(2-ethylhexyl)adipate	ND	ug/L	400	2.00	RJH		05/18/2007 00:00	05/21/2007 00:00
Di(2-ethylhexyl)phthalate	ND	ug/L	6	2.00	RJH		05/18/2007 00:00	05/21/2007 00:00
Dieldrin	ND	ug/L	5	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Endrin	ND	ug/L	2	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
HCH-gamma (Lindane)	ND	ug/L	0.2	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Heptachlor	ND	ug/L	0.4	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Heptachlor epoxide	ND	ug/L	0.2	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Hexachlorobenzene	ND	ug/L	1	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Hexachlorocyclopentadiene	ND	ug/L	50	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Methoxychlor	ND	ug/L	40	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00
Metolachlor	ND	ug/L	50	2.00	RJH		05/18/2007 00:00	05/21/2007 00:00
Metribuzin	ND	ug/L	50	1.00	RJH		05/18/2007 00:00	05/21/2007 00:00
Propachlor	ND	ug/L	50	1.00	RJH		05/18/2007 00:00	05/21/2007 00:00
Simazine	ND	ug/L	4	0.10	RJH		05/18/2007 00:00	05/21/2007 00:00

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
1,3-Dimethyl-2-nitrobenzene	5.16	ug/L			RJH		QC	05/18/2007 00:00	05/21/2007 00:00
Perylene-d12	4.44	ug/L			RJH		QC	05/18/2007 00:00	05/21/2007 00:00
Triphenyl phosphate	5.25	ug/L			RJH		QC	05/18/2007 00:00	05/21/2007 00:00

Method: EPA 531.1

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
3-Hydroxycarbofuran	ND	ug/L		1.00	IC		AA	05/22/2007 00:00	05/22/2007 00:00
Aldicarb	ND	ug/L	3	1.00	IC		AA	05/22/2007 00:00	05/22/2007 00:00
Aldicarb sulfone	ND	ug/L	2	1.00	IC		AA	05/22/2007 00:00	05/22/2007 00:00
Aldicarb sulfoxide	ND	ug/L	4	1.00	IC		AA	05/22/2007 00:00	05/22/2007 00:00
Carbaryl	ND	ug/L		1.00	IC		AA	05/22/2007 00:00	05/22/2007 00:00

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

ELCD = Electrolytic Conductivity Detector (QC)
PID = Photoionization Detector (QC)

Analysis by Eastern Lab Services #11216 (unless otherwise noted)

Printed on: 6/4/2007

OCL Sample No: **221073**

Method: EPA 531.1

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Carbofuran	ND	ug/L	40	1.00	IC		AA	05/22/2007 00:00	05/22/2007 00:00
Methomyl	ND	ug/L		1.00	IC		AA	05/22/2007 00:00	05/22/2007 00:00
Oxamyl	ND	ug/L	200	1.00	IC		AA	05/22/2007 00:00	05/22/2007 00:00

Method: EPA 547

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Glyphosate	ND	mg/L	0.7	0.05	IC			05/14/2007 00:00	05/14/2007 00:00

Method: EPA 548.1

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Endothall	ND	mg/L	0.1	0.05			H2M	05/17/2007 00:00	05/24/2007 23:17

Method: EPA 549.2

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Diquat	ND	mg/L	20	0.0008	IC	LLFB		05/17/2007 00:00	05/17/2007 00:00

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

Phone: 845-733-1557
Fax: 845-733-1944

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Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code : **LBG**

Fed ID :

OCL Sample No : **221073**

System Name : **LBG**
Exact Location : **WV Well 2**

Date/Time Collected : **5/10/2007 11:45**
Date Received : **5/10/2007**
Submitted By : **Client**

Analytical results are shown on the pages following this cover page

Notes

AA	Internal Standard recovery was below the acceptance limit..
BNCH*	Analysis performed by PA DEP#39-401, NY DOH#11827
QC*	Analysis performed by NYS DOH #11223, PA DEP#09-131
LLFB	LFB % Recovery below acceptance limits. The result may be biased low.
H2M	Analysis performed by NYS DOH #10478, PA DEP #68-00350
a	Absence
QC	Quality Control Standard
TB	Trip Blank not analyzed - sample results did not exceed the MDL for this method.

Cover Page

Reviewed by David M. Kennedy - Director
ELAP#10510

FLI FRIEND LABORATORY INC

32 ITHACA STREET
TELEPHONE (607) 565-3500

WAVERLY, NY 14892 - 1532
FAX (607) 565 - 4083

NY 10252 NJ 73168
PA 68180 EPA NY00033

Certificate of Analysis

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721
Attn: Todd Zeilinski

Order Number: 0705-00595
Date Reported: 6/11/2007
Date Received: 5/11/2007
Invoice Number: 45166
Customer Number: O003
Customer PO:
Certification Date: 6/11/2007

Subject:
MPA

SMP	Analysis Performed	Result	Units	Detection Limit	Method	Analysis Information
001	**221072 AQ Grab 5/9/2007 7:05 Client**					
	MPA					6/4/07, 13:00, OBW
	Cryptosporidium	U	/100 gal		ICR USEPA	6/4/07, 13:00, OBW
	Giardia	U	/100 gal		ICR USEPA	6/4/07, 13:00, OBW
	Algae	2.1X10^6	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Diatoms	1.5X10^6	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Rotifers	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Rotifer Eggs	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Plant Matter	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Pollen	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Insects	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Insect Parts	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Nematodes	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Nematode Eggs	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Crustaceans	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Crustacean Parts	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Protozoa	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Fine Debris	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Large Debris	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of 5-15 uM	TNTC	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of 15-100 uM	4.7X10^6	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of 100-200 uM	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of >200 uM	8.5X10^3	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD

Iron bacteria found in sample resulting in 4.9X10^4.
Cryptosporidium results estimated due to method limitations.

002	**221073 WU Well 2 Grab 5/9/2007 7:05 Client**					
	MPA					6/4/07, 13:00, OBW
	Cryptosporidium	U	/100 gal		ICR USEPA	6/4/07, 13:00, OBW
	Giardia	U	/100 gal		ICR USEPA	6/4/07, 13:00, OBW
	Algae	7.7X10^5	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Diatoms	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Rotifers	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Rotifer Eggs	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Plant Matter	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Pollen	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Insects	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Insect Parts	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Nematodes	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Nematode Eggs	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Crustaceans	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Crustacean Parts	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD

Key: E = estimated value
ND or U = analyte not detected
B = analyte was detected in the method or trip blank
< = less than the indicated value
ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million)
mg/Kg = milligrams per kilogram (equivalent to parts per million

... and ability. In no event shall our liability exceed the cost of these services. Your sample will be discarded after 14 days unless we are advised otherwise.

FLI FRIEND LABORATORY INC.
32 ITHACA STREET
TELEPHONE (607) 565-3500
WAVERLY, NY 14892 - 1532
FAX (607) 565 - 4083
NY 10252 NJ 73168
PA 68180 EPA NY00033

Certificate of Analysis

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721
Attn: Todd Zeilinski

Order Number: 0705-00595
Date Reported: 6/11/2007
Date Received: 5/11/2007
Invoice Number: 45166
Customer Number: O003
Customer PO:
Certification Date: 6/11/2007

Subject:
MPA

SMP	Analysis Performed	Result	Units	Detection Limit	Method	Analysis Information
002	**221073 WU Well 2 Grab**	**5/9/2007 7:05 Client**				
	.....continued					
	Protozoa	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Fine Debris	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Large Debris	ND	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of 5-15 uM	6.7X10^4	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of 15-100 uM	7.2X10^5	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of 100-200 uM	1.1X10^5	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD
	Particle Size of >200 uM	1.9X10^4	/100 gal		EPA 910/9-92-029	6/4/07, 12:00, BAD

Cryptosporidium results estimated due to method limitations.

Approved By: _____
Hal Warso, Managing Director

Key: E = estimated value
ND or U = analyte not detected
B = analyte was detected in the method or trip blank
< = less than the indicated value
ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million)
mg/Kg = milligrams per kilogram (equivalent to parts per million

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your sample will be discarded after 14 days unless we are advised otherwise.

WELL 5

OCL Analytical Services
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Bloomingburg, NY 12721

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Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code: **LBG**

Fed ID :

OCL Sample No: **229309**

RECEIVED
OCT 22 2007
Leggette, Brashears, & Graham, Inc.

System Name : **LBG**

Exact Location : **Warwick 5**

Date/time Collected : **9/12/2007 9:30**

Date Received : **9/12/2007**

Submit By : **Client**

Microbiological Results

Analysis	Result	Units	Method	Lab	Date	Time	By	Remarks
Total Coliform(ONPG)	absence	C100	9223B	10510	09/12/07	11:00	LM	**Pass**
E.coli(ONPG)	absence	C100	9223B	10510	09/12/07	11:00	LM	**Pass**

Remarks :

PASS = Passes NYSDOH and EPA Drinking Water Standards
FAIL = Fails NYSDOH and EPA Drinking Water Standards
GT = Greater Than
LT = Less Than
C1 = Colonies per milliliter
C100 = Colonies per 100 milliliters

Microbiology Department

ELAP#10510

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg, NY 12721

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4 Research Drive
Suite 301
Shelton CT 06484

Client Code : **LBG**

Fed ID :

OCL Sample No : **229309**

System Name : **LBG**

Exact Location : **Warwick 5**

RECEIVED
OCT 22 2007
Leggette, Brashears, & Graham, Inc.

Date/time Collected : **9/12/2007 9:30**

Date Received : **9/12/2007**

Submit By : **Client**

Analytical Results

Analysis		Result	Units	MCL	DL	Method	Lab	Date	Time	By	Remarks
Alkalinity as CaCO3		270	mg/L		None	2320B	10510	09/13/07		RB	
Chloride	LT	4.0	mg/L	250	4.0	4500CL-C	10510	09/13/07		RB	
Color	LT	5			5	2120B	10510	09/12/07	11:25	CW	
Fluoride		0.22	mg/L	2.2	0.20	340.2	10510	09/14/07		RB	
Hardness as CaCO3, Calcium		208	mg/L		10	3500 Ca-D	10510	09/13/07	10:00	RB	
Nitrate as N	LT	0.20	mg/L	10	0.2	Lachat	10510	09/14/07		LM	
Nitrite as N	LT	0.01	mg/L	1	0.01	EPA354.1	10510	09/12/07	11:10	RB	
Odor		none				2150	10510	09/12/07	11:20	CW	
pH		6.65				4500H+B	10510	09/12/07	11:15	CW	
Solids, Dissolved Total		245	mg/L			2540C	10510	09/13/07		RB	
Sulfate		18	mg/L	250	5	375.4	10510	09/19/07		RB	
Turbidity		0.73	ntu		0.10	2130B	10510	09/12/07	11:30	CW	
Corrosivity(Langelier Index)		- 0.60					10510	09/18/07		RB	

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

Inorganic Chemistry Department
ELAP#10510

OCL Analytical Services

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Client Code : **LBG**

Fed ID :

OCL Sample No : **229309**

System Name : **LBG**

Exact Location : **Warwick 5**

Date/Time Collected : **9/12/2007 9:30**

Date Received : **9/12/2007**

Submitted By : **Client**

Analytical results are shown on the pages following this cover page

Notes

BNCH*	Analysis performed by PA DEP#39-401, NY DOH#11827
H2M	Analysis performed by NYS DOH #10478, PA DEP #68-00350
a	Absence

Remarks:

Cover Page

Reviewed by David M. Kennedy - Director

ELAP#10510

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Suite 301
Shelton CT 06484

Client Code : **LBG**

Fed ID :

OCL Sample No : **229309**

System Name : **LBG**

Exact Location : **Warwick 5**

Date/Time Collected : **9/12/2007 9:30**

Date Received : **9/12/2007**

Submitted By : **Client**

Analytical results are shown on the pages following this cover page

Notes

HCCV	Continuing Calibration Verification was above acceptance limits. Results may be biased high.
BNCH*	Analysis performed by PA DEP#39-401, NY DOH#11827
LCRI	CRI percent recovery was below the acceptance limits. The result may be bias low.
H2M	Analysis performed by NYS DOH #10478, PA DEP #68-00350
a	Absence
QC	Quality Control Standard
TB	Trip Blank not analyzed - sample results did not exceed the MDL for this method.

Remarks:

Cover Page

Reviewed by David M. Kennedy - Director

ELAP#10510

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, New York 12721

Analytical Results

OCL Sample No: **229309**

Method: EPA 200.7

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Barium	0.048	mg/L	2	0.0020	JD		09/27/2007 00:00	09/27/2007 05:24
Beryllium	ND	mg/L	0.004	0.0010	JD	LCRI	09/15/2007 00:00	09/28/2007 04:44
Cadmium	ND	mg/L	0.005	0.0020	JD	LCRI	09/15/2007 00:00	09/28/2007 04:44
Chromium	ND	mg/L	0.1	0.0050	JD		09/27/2007 00:00	09/27/2007 05:24
Copper	ND	mg/L	1.3	0.25	JD		09/15/2007 00:00	09/25/2007 04:03
Iron	0.17	mg/L	0.3	0.050	JD		09/15/2007 00:00	09/25/2007 04:03
Manganese	0.012	mg/L	0.3	0.0050	JD		09/15/2007 00:00	09/25/2007 04:03
Nickel	ND	mg/L	0.1	0.0020	JD		09/27/2007 00:00	09/27/2007 05:24
Silver	ND	mg/L	0.1	0.0010	JD		09/27/2007 00:00	09/27/2007 05:24
Sodium	ND	mg/L		5.0	JD		09/15/2007 00:00	09/25/2007 04:03
Zinc	0.037	mg/L	5	0.010	JD		10/01/2007 00:00	10/01/2007 08:11

Method: EPA 200.9

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Antimony	ND	mg/L	0.006	0.0050	JD		10/02/2007 00:00	10/02/2007 16:58
Arsenic	0.005	mg/L	0.01	0.003	JD	HCCV	10/01/2007 00:00	10/01/2007 12:18
Lead	0.001	mg/L	0.015	0.001	JD		10/10/2007 00:00	10/10/2007 14:17
Selenium	ND	mg/L	0.05	0.005	JD		10/03/2007 00:00	10/03/2007 11:29
Thallium	ND	mg/L	0.002	0.001	JD		10/01/2007 00:00	10/01/2007 20:10

Method: EPA 245.1

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Mercury	ND	mg/L	0.002	0.0002	JD		09/25/2007 00:00	09/26/2007 15:37

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

ELCD = Electrolytic Conductivity Detector (QC)
PID = Photoionization Detector (QC)

Analysis by Eastern Lab Services #11216 (unless otherwise noted)

Printed on: 10/17/2007

OCL Sample No: **229309**

Method: EPA 335.4

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Cyanide (total)	ND	mg/L	0.2	0.010	RN		09/21/2007 10:30	09/25/2007 14:00

Method: EPA 502.2

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,1,1-Trichloroethane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,1,2,2-Tetrachloroethane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,1,2-Trichloroethane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,1-Dichloroethane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,1-Dichloroethene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,1-Dichloropropene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,2,3-Trichlorobenzene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,2,3-Trichloropropane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,2,4-Trichlorobenzene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,2,4-Trimethylbenzene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,2-Dichlorobenzene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,2-Dichloroethane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,2-Dichloropropane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,3,5-Trimethylbenzene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,3-Dichlorobenzene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,3-Dichloropropane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
1,4-Dichlorobenzene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
2,2-Dichloropropane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
2-Chlorotoluene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
4-Chlorotoluene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Benzene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Bromobenzene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Bromochloromethane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Bromomethane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Carbon tetrachloride	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Chlorobenzene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Chloroethane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Chloromethane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Dibromomethane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Dichlorodifluoromethane	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Ethylbenzene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Hexachlorobutadiene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00
Isopropylbenzene	ND	ug/L	5	0.5	AS	TB	09/23/2007 00:00	09/23/2007 00:00

OCL Sample No: **229309**

Method: EPA 502.2

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Methyl tert-butyl ether	ND	ug/L	10	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
Methylene chloride	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
Styrene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
Tetrachloroethene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
Toluene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
Trichloroethene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
Trichlorofluoromethane	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
Vinyl chloride	ND	ug/L	2	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
cis-1,2-Dichloroethene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
cis-1,3-Dichloropropene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
m,p-Xylene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
n-Butylbenzene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
n-Propylbenzene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
o-Xylene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
p-Isopropyltoluene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
sec-Butylbenzene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
tert-Butylbenzene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
trans-1,2-Dichloroethene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00
trans-1,3-Dichloropropene	ND	ug/L	5	0.5	AS		TB	09/23/2007 00:00	09/23/2007 00:00

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Chlorofluorobenzene (ELCD)	9.20	ug/L			AS		TB, QC	09/23/2007 00:00	09/23/2007 00:00
Chlorofluorobenzene (PID)	9.50	ug/L			AS		TB, QC	09/23/2007 00:00	09/23/2007 00:00

Method: EPA 504.1

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
1,2-Dibromo-3-chloropropane	ND	ug/L	0.2	0.01	PDB			09/24/2007 00:00	09/25/2007 17:20
1,2-Dibromoethane (EDB)	ND	ug/L	0.05	0.01	PDB			09/24/2007 00:00	09/25/2007 17:20

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Tetrachloro-meta-xylene	0.190	ug/L			PDB		QC	09/24/2007 00:00	09/25/2007 17:20

Method: EPA 504.1

Method: EPA 508

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Chlordane (tech)	ND	ug/L	2	0.10	PDB			09/14/2007 00:00	09/17/2007 08:11
PCBs as Aroclors (screen)	Absence	ug/L	0.1	0.00	PDB			09/14/2007 00:00	09/17/2007 08:11
Toxaphene	ND	ug/L	3	0.25	PDB			09/14/2007 00:00	09/17/2007 08:11

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
beta-BHC	0.0898	ug/L			PDB		QC	09/14/2007 00:00	09/17/2007 08:11

Method: EPA 515.3

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
2,4,5-TP (Silvex)	ND	ug/L	50	0.3			BNCH*	09/19/2007 08:20	09/24/2007 11:32
2,4-D	ND	ug/L	70	0.5			BNCH*	09/19/2007 08:20	09/24/2007 11:32
Dalapon	ND	ug/L	200	3.0			BNCH*	09/19/2007 08:20	09/24/2007 11:32
Dicamba	ND	ug/L	50	0.3			BNCH*	09/19/2007 08:20	09/24/2007 11:32
Dinoseb	ND	ug/L	7	0.5			BNCH*	09/19/2007 08:20	09/24/2007 11:32
Pentachlorophenol	ND	ug/L	1	0.3			BNCH*	09/19/2007 08:20	09/24/2007 11:32
Picloram	ND	ug/L	500	0.3			BNCH*	09/19/2007 08:20	09/24/2007 11:32

Method: EPA 525.2

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Alachlor	ND	ug/L	2	0.10	RJH			09/17/2007 00:00	09/18/2007 00:00
Aldrin	ND	ug/L	5	0.10	RJH			09/17/2007 00:00	09/18/2007 00:00
Atrazine	ND	ug/L	3	0.10	RJH			09/17/2007 00:00	09/18/2007 00:00
Benzo (a) pyrene	ND	ug/L	0.2	0.10	RJH			09/17/2007 00:00	09/18/2007 00:00
Butachlor	ND	ug/L	50	1.00	RJH			09/17/2007 00:00	09/18/2007 00:00
Di(2-ethylhexyl)adipate	ND	ug/L	400	2.00	RJH			09/17/2007 00:00	09/18/2007 00:00
Di(2-ethylhexyl)phthalate	ND	ug/L	6	2.00	RJH			09/17/2007 00:00	09/18/2007 00:00
Dieldrin	ND	ug/L	5	0.10	RJH			09/17/2007 00:00	09/18/2007 00:00

OCL Sample No: **229309**

Method: EPA 525.2

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
Endrin	ND	ug/L	2	0.10	RJH		09/17/2007 00:00	09/18/2007 00:00
HCH-gamma (Lindane)	ND	ug/L	0.2	0.10	RJH		09/17/2007 00:00	09/18/2007 00:00
Heptachlor	ND	ug/L	0.4	0.10	RJH		09/17/2007 00:00	09/18/2007 00:00
Heptachlor epoxide	ND	ug/L	0.2	0.10	RJH		09/17/2007 00:00	09/18/2007 00:00
Hexachlorobenzene	ND	ug/L	1	0.10	RJH		09/17/2007 00:00	09/18/2007 00:00
Hexachlorocyclopentadiene	ND	ug/L	50	0.10	RJH		09/17/2007 00:00	09/18/2007 00:00
Methoxychlor	ND	ug/L	40	0.10	RJH		09/17/2007 00:00	09/18/2007 00:00
Metolachlor	ND	ug/L	50	1.00	RJH		09/17/2007 00:00	09/18/2007 00:00
Metribuzin	ND	ug/L	50	1.00	RJH		09/17/2007 00:00	09/18/2007 00:00
Propachlor	ND	ug/L	50	1.00	RJH		09/17/2007 00:00	09/18/2007 00:00
Simazine	ND	ug/L	4	0.10	RJH		09/17/2007 00:00	09/18/2007 00:00

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
1,3-Dimethyl-2-nitrobenzene	4.67	ug/L			RJH		QC	09/17/2007 00:00	09/18/2007 00:00
Perylene-d12	4.27	ug/L			RJH		QC	09/17/2007 00:00	09/18/2007 00:00
Triphenyl phosphate	5.94	ug/L			RJH		QC	09/17/2007 00:00	09/18/2007 00:00

Method: EPA 531.1

Analyte	Result	Units	MCL	DL	By	Notes	Prepared	Analyzed
3-Hydroxycarbofuran	ND	ug/L		1.00	IC		09/17/2007 00:00	09/18/2007 00:00
Aldicarb	ND	ug/L	3	1.00	IC		09/17/2007 00:00	09/18/2007 00:00
Aldicarb sulfone	ND	ug/L	2	1.00	IC		09/17/2007 00:00	09/18/2007 00:00
Aldicarb sulfoxide	ND	ug/L	4	1.00	IC		09/17/2007 00:00	09/18/2007 00:00
Carbaryl	ND	ug/L		1.00	IC		09/17/2007 00:00	09/18/2007 00:00
Carbofuran	ND	ug/L	40	1.00	IC		09/17/2007 00:00	09/18/2007 00:00
Methomyl	ND	ug/L		1.00	IC		09/17/2007 00:00	09/18/2007 00:00
Oxamyl	ND	ug/L	200	1.00	IC		09/17/2007 00:00	09/18/2007 00:00

OCL Sample No: **229309**

Method: EPA 547

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Glyphosate	ND	mg/L	0.7	0.05	IC			09/25/2007 00:00	09/25/2007 00:00

Method: EPA 548.1

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Endothall	ND	mg/L	0.1	0.05			H2M	09/18/2007 00:00	09/20/2007 12:02

Method: EPA 549.2

Analyte	Result	Units	MCL	DL	By	Notes		Prepared	Analyzed
Diquat	ND	mg/L	20	0.0008	IC			09/19/2007 00:00	09/28/2007 00:00

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

Phone: 845-733-1557
Fax: 845-733-1944

Serving The Hudson Valley For Over Sixty-five Years

Printed: 10/4/2007

Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code : LBG

Fed ID :

OCL Sample No : **229309**

System Name : LBG

Exact Location : Warwick 5

Date/Time Collected : 9/12/2007 9:30

Date Received : 9/12/2007

Submitted By : Client

RECEIVED
OCT 22 2007
Leggette, Brashears, & Graham, Inc.

Analytical results are shown on the pages following this cover page

Notes

BNCH*	Analysis performed by PA DEP#39-401, NY DOH#11827
H2M	Analysis performed by NYS DOH #10478, PA DEP #68-00350
a	Absence

Remarks:

Cover Page

D Kennedy

Reviewed by David M. Kennedy - Director

ELAP#10510

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

DATE	September 21, 2007
HRI PROJECT	009-456
HRI SERIES NO	I169/07
DATE REC'D.	9/13/2007
CUST. P.O.#	None Rec'd

OCL Analytical Services
David Kennedy
35 Goshen Turnpike
Wallkill Park West
Bloomingburg, NY 12721

REPORT OF ANALYSIS

SAMPLE NO. I169/07-1

SAMPLE IDENTIFICATION: 229309 - LBG - Warick 4 - sampled on 09/12/2007 @ 0930

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radon (+-Precision*), pCi/l (T)	700(+-30)	12	SM 7500-Rn B	9/13/2007 @ 1115	EDF

RECEIVED
OCT 22 2007
Leggette, Brashears, & Graham, Inc.

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.
Certification ID's: CO/EPA CO00008; CT PH-0152; KY 90076; KS E-10265; NH 232807-A; NYELAP 11417; PADEP 68-00551; RI LAO00284; WI 998376610

By: Robert Rostad
Laboratory Manager

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

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

An Employee-Owned Company

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

Phone: 845-733-1557
Fax: 845-733-1944

Serving The Hudson Valley For Over Sixty-five Years

Printed: 10/4/2007

Leggette, Brashears & Graham, Inc.
4 Research Drive
Suite 301
Shelton CT 06484

Client Code : **LBG**

Fed ID :

OCL Sample No : **229309**

System Name : **LBG**
Exact Location : **Warwick 5**

Date/Time Collected : **9/12/2007 9:30**
Date Received : **9/12/2007**
Submitted By : **Client**

RECEIVED
OCT 22 2007
Leggette, Brashears, & Graham, Inc.

Analytical results are shown on the pages following this cover page

Notes

BNCH*	Analysis performed by PA DEP#39-401, NY DOH#11827
H2M	Analysis performed by NYS DOH #10478, PA DEP #68-00350
a	Absence

Remarks:

Cover Page

D Kennedy
Reviewed by David M. Kennedy - Director
ELAP#10510

LAB ID # 11827

BENCHMARK ANALYTICS
4777 SAUCON CREEK ROAD
CENTER VALLEY, PA 18034-9004

PHONE (610) 974-8100
FAX (610) 974-8104

Work Order: 07090765

SEND DATA TO:

NAME:
COMPANY: OCL Analytical Services
ADDRESS: 35 Goshen Turnpike
Wallkill Park West
Bloomingburg, NY 12721

PHONE: (845) 733-1557
FAX: (845) 733-1944

WO#: 07090765
PAGE: 1 of 1
PO#:
PWS ID#

TEST REPORT

Warich 4 - 229309

RECEIVED FOR LAB BY: DMB DATE: 09/14/2007 9:10

SAMPLE: **Warich 4** Lab ID: 07090765-001A Grab
SAMPLED BY: Client Sample Time 09/12/2007 9:30

Test	Result	Uncert.	MDA	Units	Method	Analysis Start	Analysis End	Analyst
Gross Alpha	8.03	± 1.26	2.5	pCi/L	EPA 900.0	09/15/07 8:30	09/20/07	BH
Gross Beta	2.78	± 0.73	2.24	pCi/L	EPA 900.0	09/15/07 8:30	09/20/07	BH

SAMPLE: **Warich 4** Lab ID: 07090765-001C Grab
SAMPLED BY: Client Sample Time 09/12/2007 9:30

Test	Result	Uncert.	MDA	Units	Method	Analysis Start	Analysis End	Analyst
Radium-226	1.39	± 0.16	0.78	pCi/L	EPA 903.0	09/14/07 11:30	09/22/07	DTG

SAMPLE: **Warich 4** Lab ID: 07090765-001D Grab
SAMPLED BY: Client Sample Time 09/12/2007 9:30

Test	Result	Uncert.	MDA	Units	Method	Analysis Start	Analysis End	Analyst
Radium-228	1.54	± 0.42	0.56	pCi/L	EPA 904.0	09/19/07 7:50	09/21/07	DTG

REMARKS:
The above test procedures meet all the requirements of NELAC and relate only to these samples.

MANAGER: Cli Meli DATE: 09-25-2007

MOHAWK VALLEY WATER AUTHORITY

Final Result Report for *Giardia/Cryptosporidium*

Sample ID: 09/12/07 OCL – WARWICK #4
LIMS #: 17852
Client: OCL Analytical, Inc.
Source: Warwick Views Well #~~4~~ 5

QUALITY CONTROL

Weekly Method Blank	*Giardia* Count: 0	*Cryptosporidium* Count: 0
Weekly OPR Sample	*Giardia* % Recovery: 40.4	*Cryptosporidium* % Recovery: 56.1

SAMPLE RESULTS

	Total FA Count	Volume Analyzed	# cysts/L
Giardia	0	10.0 L	0.000

	Total FA Count	Volume Analyzed	# oocysts/L
Cryptosporidium	0	10.0 L	0.000

MATRIX SPIKE RESULTS

	# Spiked:	# Recovered:	% Recovery
Giardia	N/A		
Cryptosporidium	N/A		

Approved:

Philip A. Tangorra
QA Officer

1 Kennedy Plaza • PO Box 345 • Utica, NY 13503-0345 • Telephone (315) 792-0301 • Fax (315) 792-5201

MEMBER OF:
American Waterworks Association (AWWA) • AWWA Research Foundation • Underground Facilities Protective Organization

MVWA WATER QUALITY LABORATORY

One Kennedy Plaza
Utica, NY 13502

Phone: (315) 792-0338
Fax: (315) 792-5201

MOHAWK VALLEY
WATER AUTHORITY

Report of Examination

Microscopic Examination for Microorganisms (MPA)

Sample : OCL # 229309 Warick 4
Sample Date: 9-12-07
Date completed: 9-17-07

Sample was analyzed using modified MPA and examined using phase contrast and epifluorescence microscopy.

10000.0 ml of the sample was examined.

Organisms seen:

Kingdom Plantae:

Plant debris with characteristic chlorophyll fluorescence

Copious amounts of debris may have prevented the identification of organisms containing chlorophyll.

A sample blank was prepared using distilled water and no organisms were observed in the blank.

A positive control culture of *Selenestrum sp* exhibited characteristics of chlorophyll fluorescence.

CW

F-2

229309

MOHAWK VALLEY WATER AUTHORITY

Water Quality Department
One Kennedy Plaza, 3rd Floor Lab
Utica, NY 13502
www.mvwa.us

Connie Schreppel, Director
Philip Tangorra, Research Scientist

Telephone: (315) 792-0338
Fax: (315) 792-5201

Lims 17852 - 09122007 Client 591

Client OCL ANALYTICAL SERVICES
Site LBG
Smp-Point WARWICK #4

Sample ID: 1
Internal Trac

Sample Date/Time
09122007 0930

Client:	LBG
Source:	Warwick Views

SAMPLE COLLECTION

Sampler	Date of Collection	Time of Collection	MW	9/12	930
Water Type (Raw, Finished, Stream, etc.)			well		
Temp. (°C)	Turbidity (NTU)			.1,56	
Type of Sample (circle)			Filtered/Grab		
Volume Filtered			0		

ANALYSES REQUESTED
(circle)

Giardia/Crypto
HPC
Other*

MPA
R2A

Total Coliform/*E. coli*
Chemistries*

*Details: _____

CUSTODY TRANSFER(S)

Relinquished by: [signature] Date: 9/12 Time: 1045
Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____
Received by: _____ Date: _____ Time: _____

Lab Receipt: Date: 9-13-07 Time: 15:10 Temp: 1.0 Condition: Intact Initials: [illegible]

CHAIN OF CUSTODY

B/H TO:
PINKY MOSKOVITS
58 North Garfield Rd
Spring Valley, NJ 10977

OCL Analytical Services
35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Client:

Name	Tom Cosgrove LBG
Address	4 Research drive suite 304
City, State, Zip	Shelton, CT
Phone	203 929 8555

Sample Temp (c) ____
Sample rec'd on ice? ____
Sample set up in 6 hr? ____
Properly preserved? ____
Within holding times? ____
Reviewed by ____

Samples should be brought to the lab on ice with a receiving temp of 2 to 6 C.

OCL#	Matrix	Collection Date	Collection Time	comp	grab	Sample Description/Location	Containers No/type	Preservative	cl resid	Analysis Required Full Part 5: Metals, Organics & Inorganics	Results
229309	DW	9/12	930		Y	Warrich #5	125 mL	none		Total Coliform	
						Warwick 5	500ml - P	none		Alkalinity	
						as per Frank 10/4/07	500ml - P	none		Nitrate, nitrite	
							1L Plastic	none		pH, odor, turbidity, color, fluoride,	
										chloride, TDS, sulfate, Ca hardness,	
										corrosivity	
							1L Plastic	HNO3		As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Cu,	
										Fe, Mn, Na, Zn, Sb, Be, Ni, Tl	
							1L Plastic	NaOH		Cyanide	
							2-40ml vial	HCl		VOC + MTBE	
IN ADDITION TO ABOVE TESTING, COMPLETE SOC AND RADIOLOGICALS ARE REQUIRED											

Comments/Special Instructions:

Rush Requested? ____ Client Code: Prepaid? ____

Sampled By:	print	Mark Wright	date: 9/12	**Received By:**	print		date: 9/12/07
	sign		time: 1045		sign		time: 10:45
Relinquished By:	print		date:	**Received By:**	print	HS	date:
	sign		time:		sign		time:
Relinquished By:	print		date:	**Received By:**	print		date:
	sign		time:		sign		time:

CHAIN OF CUSTODY

OCL Analytical Services
35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Client:

Name	TOM COSACH LBG
Address	4 Research drive.
City, State, Zip	Shelton, CT
Phone	203 929 8555

Samples should be brought to the lab on ice with a receiving temp of 2 to 6 C.

Sample Temp (c)	
Sample rec'd on ice?	
Sample set up in 6 hr?	
Properly preserved?	
Within holding times?	
Reviewed by	

OCL#	Matrix	Collection Date	Collection Time	comp	grab	Sample Description/Location	Containers No/type	Preser-vative	cl resid	Analysis Required Complete SOC Testing	Results
229309	DW	9/12	930		✓	Wurich #5					
							2 40ml G	thio		EPA 504	
							2 1L G	thio		EPA 508	
							1 250ml G	thio		EPA 515.3	
							2 1L G	sulfite		EPA 525.2	
							2 40ml G	thio		EPA 531.1	
							1 1L G	thio		extra sample	
							3 40ml G	thio		EPA 547 Glyphosate One of Viles Broken	
							1 250ml G	none		EPA 548 Endothall	
							1 1L G	thio		EPA 549 Diquat	

Comments/Special Instructions:

Rush Requested? _____ Client Code: Prepaid? _____

Sampled By:	print	Mark Wright	date: 9/12	**Received By:**	print		date: 9/12/07
	sign	[signature]	time: 1040		sign		time: 10:45
Relinquished By:	print		date:	**Received By:**	print		date:
	sign		time:		sign	[signature]	time:
Relinquished By:	print		date:	**Received By:**	print		date:
	sign		time:		sign		time:

CHAIN OF CUSTODY

OCL Analytical Services
35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Client:

Name	Tom Cosh LBG
Address	4 Research drive ~~Shelton~~ Suite 301
City, State, Zip	~~Suite~~ Shelton CT
Phone	203 929 8555

Samples should be brought to the lab on ice with a receiving temp of 2 to 6 C.

Sample Temp (c) _____
Sample rec'd on ice? _____
Sample set up in 6 hr? _____
Properly preserved? _____
Within holding times? _____
Reviewed by _____

OCL#	Matrix	Collection Date	Collection Time	comp	grab	Sample Description/Location	Containers No/type	Preser-vative	cl resid	Analysis Required	Results
229309	AQ	9/12	930		✓						
						Warren 75	1 L P	HNO3		Gross Alpha	
							1 L P	HNO3		Gross Beta	
							1 L P	HNO3		Radium 226	
							1 L P	HNO3		Radium 228	
							2 40ml vials	none		Radon in Water	

Comments/Special Instructions:

Rush Requested? _____ Client Code: Prepaid? _____

Sampled By:	print	Mark Wright	date: 9/12	**Received By:**	print		date: 9/12/07
	sign		time: 1045		sign		time: 10:45
Relinquished By:	print		date:	**Received By:**	print		date:
	sign		time:		sign		time:
Relinquished By:	print		date:	**Received By:**	print		date:
	sign		time:		sign		time:

CHAIN OF CUSTODY

OCL Analytical Services
35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Client:

Name	LBG
Address	4 Research Dr Ste 301
City, State, Zip	Shelton Ct
Phone	

Samples should be brought to the lab on ice with a receiving temp of 2 to 6 C.

Sample Temp (c) _____
Sample rec'd on ice? _____
Sample set up in 6 hr? _____
Properly preserved? _____
Within holding times? _____
Reviewed by _____

OCL#	Matrix	Collection Date	Collection Time	comp	grab	Sample Description/Location	Containers No/type	Preser-vative	cl resid	Analysis Required	Results
229309		9/12	9:30			Warwick #45					
							~~Filter~~			MPA - Giardia/Cryptosporidium	
							2-10L				

Comments/Special Instructions:

Rush Requested? _____ Client Code: Prepaid? _____

Sampled By:	print		date:	**Received By:**	print		date: 9-12-07
	sign		time:		sign		time: 10:45
Relinquished By:	print		date:	**Received By:**	print		date:
	sign		time:		sign		time:
Relinquished By:	print		date:	**Received By:**	print		date:
	sign		time:		sign		time:

MOHAWK VALLEY WATER AUTHORITY
Water Quality Department
One Kennedy Plaza, 3rd Floor Lab
Utica, NY 13502
www.mvwa.us

Connie Schreppel, Director
Philip Tangorra, Research Scientist

Telephone: (315) 792-0338
Fax: (315) 792-5201

CHAIN OF CUSTODY

Sample ID: Warick 4
Internal Tracking #: _____
(Internal use only)

Client:	LBA
Source:	Warick Vlass

SAMPLE COLLECTION

Sampler	**Date of Collection**	**Time of Collection**	MW	9/12	930
Water Type (Raw, Finished, Stream, etc.)			well		
Temp. (°C)	**Turbidity (NTU)**				
Type of Sample (circle)			**Filtered/Grab**		
Volume Filtered			0		

ANALYSES REQUESTED
(circle)

Giardia/Crypto
HPC
Other*
*Details: _____

MPA
R2A

Total Coliform/*E. coli*
Chemistries*

CUSTODY TRANSFER(S)

Relinquished by: [signature] **Date:** 9/12 **Time:** 1045
Received by: _____ **Date:** _____ **Time:** _____

Relinquished by: _____ **Date:** _____ **Time:** _____
Received by: _____ **Date:** _____ **Time:** _____

Lab Receipt: Date: _____ **Time:** _____ **Temp:** _____ **Condition:** _____ **Initials:** _____

APPENDIX VI

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Summary of Physical Parameter Measurements Collected from Well 2 Discharge Water and Adjacent Surface Water

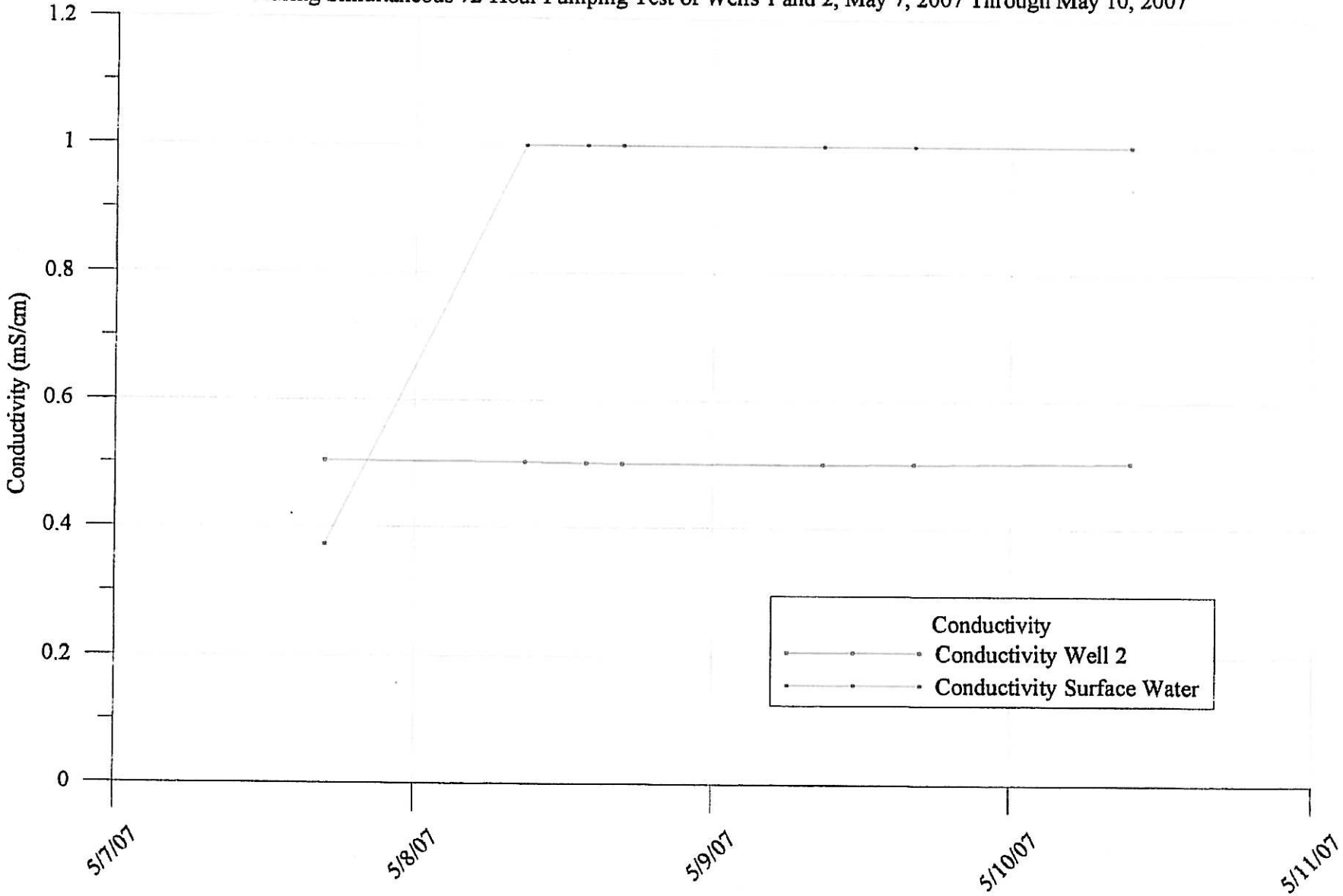
Date	Time	pH	Conductivity (mS/cm)	Turbidity (NTU)	Temperature (°C)
Discharge Well 2					
5/7/2007	16:50	7.00	0.504	64.6	10.43
5/8/2007	8:55	6.99	0.502	6.0	9.87
5/8/2007	13:50	7.00	0.501	6.1	9.85
5/8/2007	16:45	7.00	0.500	6.0	9.87
5/9/2007	8:57	7.00	0.500	6.1	9.89
5/9/2007	16:17	7.00	0.501	6.0	9.82
5/10/2007	9:35	7.00	0.503	6.1	9.73
Surface Water Adjacent to Well 2					
5/7/2007	16:50	6.78	0.372	--	10.42
5/8/2007	8:55	6.73	0.999	615	10.39
5/8/2007	13:50	6.75	0.999	717	11.45
5/8/2007	16:45	6.72	0.999	858	12.31
5/9/2007	8:57	6.84	0.999	528	10.14
5/9/2007	16:17	6.31	0.999	735	12.18
5/10/2007	9:35	6.81	0.999	784	11.38

mS/cm Microsiemen per centimeter
NTU Nephelometric turbidity units
°C Degrees Celsius

H:\spreadsheet\Warwick View\Report\Physical Parameter Table.doc

WARWICK VIEWS SUBDIVISION
WARWICK, NEW YORK

Graph of Conductivity Measurements Collected from Discharge Water of Well 2 and Adjacent Surface Water During Simultaneous 72-Hour Pumping Test of Wells 1 and 2, May 7, 2007 Through May 10, 2007



H:\Spreadsheet\Warwick\View Hydrographs\Cond discharge-surface1.xls

LEGGETTE, BRASHEARS & GRAHAM, INC.