GZA GeoEnvironmental, Inc.

FINAL
IPEC QUARTERLY LONG-TERM GROUNDWATER MONITORING REPORT
QUARTER THREE 2009
(REPORT NO. 7)
INDIAN POINT ENERGY CENTER
BUCHANAN, NEW YORK

PREPARED FOR:

ENTERGY NUCLEAR NORTHEAST, INC.

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THE POWER OF PEOPLE™

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Engineers and
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October 21, 2010
File No. 01.0017869.92

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Re: **FINAL IPEC Quarterly Groundwater Monitoring Report**
Quarter Three 2009 (Report No. 7)
Indian Point Energy Center
450 Broadway
Buchanan, New York 11501

Dear Mr. Donahue:

GZA GeoEnvironmental of New York (GZA) is pleased to provide this Quarterly Groundwater Monitoring Report for Indian Point Energy Center located at 450 Broadway, Buchanan, NY.

We trust that this information satisfies your present needs. Should you need any additional information, please do not hesitate to call us at (781) 278-3805.

Very truly yours,

GZA GEOENVIRONMENTAL OF NEW YORK

Josh Simpson
Engineer I

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Attachments: 3 Copies

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1.0 EXECUTIVE SUMMARY

On behalf of Entergy Nuclear Northeast, Inc., GZA GeoEnvironmental of New York (GZA) has completed the Q3 2009 quarterly groundwater monitoring for the Indian Point Energy Center (IPEC), culminating in this report. Interpretations of the monitoring data have been made in the context of the current Conceptual Site Model. Development of this model began at the outset of the site investigations and has been iteratively enhanced as subsequent data has become available, in part through quarterly monitoring. The report has been written with a focus on the most recent quarterly data; relationships to prior data and more in-depth technical explanations have typically been relegated to footnotes. This report format was chosen to allow efficient assimilation by those already familiar with the project. The footnotes contain important information and should be carefully read by all, but particularly by those less familiar with the technologies involved and the project history.

Based on the quarterly groundwater sampling data for Q3 2009, GZA concludes that, as predicted, groundwater contaminants continue to migrate toward the Hudson River to the West, and have not migrated off the Site to the North, East or South.

Radionuclide concentrations measured during Q3 2009 were combined with previous quarterly and Post-quarterly data to compute rolling average concentrations reflective of groundwater contaminant levels over the past twelve months. These data were multiplied by the associated individual zone-specific groundwater flux values, derived from the recalibrated Precipitation Mass Balance Model[1], to compute yearly average radionuclide release rates to the Discharge Canal and Hudson River. The Conceptual Site Model (CSM), upon which these computation are based, continues to be validated through: (1) Precipitation Mass Balance Model calibration analyses, as based on groundwater elevation data collected in 2007, 2008, and 2009[2]; (2) the behavior of both the Unit 1 Strontium plume and the Unit 2 Tritium plume as evaluated each quarter; and (3) additional tracer data collected in 2008/2009. These data, in our opinion, continue to support the use of the current CSM as a basis for Long Term Monitoring Program design.

From both qualitative and quantitative perspectives, the most recent quarterly data further support the conclusion that the overall Tritium activity in the Unit 2 plume is decreasing. These reductions are evident in this quarter (as well as Q2 2009) , as shown on **Figures 6** and **6A** where the shaded plume[3] no longer extends downgradient of MW-37 (and thus, no longer extends to the river), as it has previously. It is further visually evident from **Figure 6A** that the core of the plume has also shown a marked decrease in concentration and extent over time.

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[1] Refer to **Appendix H** of the Quarter 2 2009 Quarterly Long-Term Groundwater Monitoring Report for discussion on the recalibration of the Precipitation Mass Balance Model. Precipitation and groundwater elevation data were collected onsite between 2007 and 2009 and used to compute groundwater fluxes across the site. The precipitation data from 2007-2009 sufficiently encompassed the historical variability of precipitation. Therefore, maximum onsite fluxes were calculated from the groundwater elevation data, and used to conservatively recalibrate the Precipitation Mass Balance Model, as discussed and employed in the Q2 2009 Quarterly LTM Report.

[2] The formulation and basis for the Precipitation Mass Balance model, as well as the overall CSM, is presented in the Hydrogeologic Site Investigation Report, January 7, 2008, prepared by GZA GeoEnvironmental, Inc, on behalf of Enercon Services, Inc., for Entergy Nuclear Northeast, Indian Point Energy Center, 450 Broadway, Buchanan, NY 10511.

[3] The plume shading on **Figure 6** demarks the estimated boundary that separates Tritium levels greater than 5,000 pCi/L from those below this value. This plume delineation boundary value equates to one-quarter of the drinking water standard for Tritium. Although GZA emphasizes that drinking water standards (USEPA MCLs) do not apply to the IPEC property given that there are no drinking water sources on or proximate to the site, the MCLs do provide a useful benchmark for comparisons of relative human risk. Where yearly rolling average radionuclide activity data were available for multiple depths at a given location, GZA used the highest value to develop plume delineations. This is a typical approach to represent three-dimensional contaminant data sets on two-dimensional maps.

Within the overall decreasing trends in Tritium activity, three localized exceptions of note were identified this quarter:

- Noticeable increases in Tritium activity were observed in the shallowest intervals of MW-31 and MW-32 this quarter[4] (as well as Q2 2009); the variability exhibited by the Tritium data from these wells are consistent with episodic releases of Tritium historically stored in the subsurface via natural and anthropogenic Retention Mechanisms[5]. This conclusion is further supported by the tracer data and other analyses discussed in Section 3.6 of the Q1 2009 Long Term Monitoring Report.
- A recent increase in Tritium level at MW-36-24 is likely related to the same mechanisms associated with the recent Tritium increases in MW-31 and MW-32.
- A recent increase in Tritium level at MW-50-42 is possibly related to an observed transient leak in the waste distillation tank valving within the Unit 1 FSB or the recent Tritium increases in MW-31 and MW-32.

The overall Sr-90 activity within the Unit 1 plume had generally been stable or decreasing in response to the West Pool demineralization activities conducted by Entergy beginning in 2006. However, the final defueling of the Unit 1 SFPs has resulted in a noticeable increase in Strontium levels proximate to the SFPs, as well as initial indications of increases in Strontium plume activity downgradient (see **Figure 7** and **7A**). This is as was predicted given the requirement to temporarily raise the pool levels for fuel rod removal, thus increasing leakage rate from the SFPs[6]. As expected, the levels proximate to the pool have since decreased and it is expected that levels downgradient of the pool will return to pre-defueling levels as this additional strontium contaminated water flushes through the groundwater flow system. It is anticipated that this flushing mechanism will be protracted given the impact of partitioning on Strontium levels in the groundwater. However, over time it is expected that downgradient Strontium plume levels will also resume an overall downward trend once this transient perturbation has passed through the system.

Based on the data and analyses provided herein, our conclusion is that the Tritium and Strontium plumes are both undergoing overall long-term reductions in activity. Given this conclusion, and the recognition that Entergy has terminated all identified leaks in the Unit 2 SFP[7] and has decommissioned the Unit 1 SFPs, these plumes satisfy the requirements for Monitored Natural Attenuation (MNA), the remedial technology selected for the IPEC Site. However, it is also concluded that, while a portion of the above cited localized leakage traveled directly to the saturated groundwater regime and resulted in the observed transient "peaks" in radionuclide levels, additional portions of these releases likely remain above the water table as

[4] As discussed in **Section 3.4.4**, the samples exhibiting I.L. exceedances were Post-Q3 samples.

[5] These Retentions Mechanisms are discussed along with the CSM in the previously cited Hydrogeologic Site Investigation Report.

[6] As of late 2008, all the fuel rods have been removed from the Unit 1 SFPs and the pool water has been drained. As such, the Unit 1 SFPs is no longer an active source of radionuclides to the subsurface.

[7] Further justification for this conclusion can be found in Section 3.6 of the Q1 2009 Quarterly Monitoring Report as well as the Hydrogeologc Site Investigation Report. The Q1 2009 Report summarizes additional, more quantitative analyses have been completed to further investigate the integrity of the Unit 2 SFP. These analyses provide further support for the original conclusion that the Unit 2 SFP is no longer leaking. However, these analyses cannot definitively rule out the possibility of a remaining small leak which could then also be supplying Tritium to the groundwater flow regime in addition to the Retention Mechanism(s). While it is not possible to quantify the size the minimum detectable leak with any degree of certainty, we believe that the maximum leak rate from the Unit 2 SFP that could potentially remain undetected by the groundwater monitoring system is less than 10 to 30 gpd (0.007 to 0.021 gallons per minute). It is also likely that if a small leak exists in the Unit 2 SFP liner, it should not get worse with time. This opinion is based on liner evaluations previously conducted by Entergy. It is further emphasized that while a leak of more than 0.02 gallons per minute should be large enough to be readily detectable with the existing Long Term Monitoring Program, this amount of Tritium release to the river is still small compared to permitted levels of Tritium discharge to the river through the Discharge Canal.

recharge to the various Retention Mechanisms. This additional unsaturated zone source recharge will likely be manifested in the future as additional non-specific peaks in radionuclide levels due to episodic releases to the groundwater flow regime from these mechanisms (e.g., from intense/prolonged precipitation events). These localized release events also interfere with the goal of resetting Site Investigation Levels (I.L.s); updating of Strontium I.L.s must therefore await return to the original Strontium baseline levels existing prior to Unit 1 defueling, and additional seasonal data is required to better assess Tritium response to precipitation-driven Retention Mechanism release variability. Therefore, the ultimate confirmation of the above conclusions will require monitoring over a number of years so as to allow ranges in seasonal variation to be adequately reflected in the monitoring data and thus demonstrate continued depletion of Tritium and Strontium from the Retention Mechanisms.

In summary, based on the data collected to date, the apparent strength of the CSM to evaluate that data, and the completion of source interdictions by Entergy, we believe all Program Objectives (see **Section 3.0**) are being met. These objectives are consistent with and fully encompass the guidance provided in the NEI Groundwater Protection Initiative (GPI).

2.0 SCOPE OF WORK

During Q3 2009, GZA performed groundwater monitoring activities at IPEC in Buchanan, New York (Site) as part of IPEC's overall Long Term Groundwater Monitoring Program (LTMP)[8]. The overall foundation for the development and execution of this LTMP is based on the CSM, a description of which is contained within GZA's Hydrogeologic Site Investigation Report[9]. The scope of work completed for this quarter's monitoring is described in the Sections below. Refer to **Figures 1 and 2** for a Site Location Plan and Site Plan. **Figure 3** provides a Lower Hudson Valley Geologic Map and **Figure 4** summarizes Current and Potential Future SSC Source Locations.

2.1 Groundwater Elevation Measurement

GZA maintains a network of long-term monitoring transducers and dataloggers as part of the instrumentation located across the Site, and downloads these instruments on a quarterly basis[10]. Transducer installation logs are presented in **Appendix B**.

These instruments record groundwater elevation and temperature measurements at regular time intervals,[11] and the original, more extensive network, provided critical data inputs for the development of the CSM and the computation of yearly radiological dose to the Hudson River. Over the first nine quarters of the LTM program (Q2 2007 through Q2 2009), sufficient data was collected from the original network of transducers to capture groundwater elevation response to seasonal and yearly precipitation variability. Therefore, starting with this Q3 2009 quarterly report, the transducer monitoring program was refocused on a select set of locations to routinely monitor the on-Site groundwater conditions. These long-term monitoring locations were selected[12] to provide the data required to document that groundwater flow conditions remain consistent with the CSM, thus demonstrating the veracity of the subsequent dose computations.

During the quarterly sampling, GZA downloaded groundwater elevation data from the long-term monitoring transducers, which was collected over the entire duration of the quarter. The low-tide groundwater elevation data during Q3 2009 (08/09/2009) from these 22 transducers are presented in **Table 2** and compared to historic minimum and maximum values on **Figure 5A**[13] and demonstrate that substantial variations to the observed flow field have not occurred. These

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[8] Refer to the "Final Quarterly Long-Term Groundwater Monitoring Report Q2–Q4 2007 (Report No. 1)," dated May 2008 for Site background information and a description of the environmental setting.

[9] Hydrogeologic Site Investigation Report, January 7, 2008, prepared by GZA GeoEnvironmental, Inc, on behalf of Enercon Services, Inc., for Entergy Nuclear Northeast, Indian Point Energy Center, 450 Broadway, Buchanan, NY 10511.

[10] With regard to these ongoing long term monitoring locations, it is noted that the transducers have a limited life. While some of the transducers can be replaced, and have been replaced in the past, others are permanently installed in the subsurface and are no longer accessible for replacement. However, with time, the base of data upon which model validity is assessed becomes increasingly more robust. Therefore, if some of these transducers fail over time, it is not likely that replacement will be imperative. This is because the likelihood of encountering a precipitation event substantially outside the already captured range becomes increasingly more remote with time as more data is collected. In addition, it is again emphasized that considerable conservatism has been incorporated within the model development and the dose rates computed are still far below those permitted by regulation.

[11] Currently, transducers record groundwater elevation and temperature readings on a 20 minute time interval so as to allow capture of tidal variability.

[12] The rational for the specific locations and depths included in the LTMP transducer redeployment are provided in Appendix K of the Q1 2009 Quarterly Monitoring Report (Report No.5), dated July 2, 2010 and Appendix J of the Q2 2009 Quarterly Monitoring Report (Report No.6).

[13] **Figure 5**, which previously presented shallow and deep groundwater contours, can be found in quarterly reports prior to, and including Q2 2009. This figure is no longer required given that sufficient quarterly contour data has already been obtained (See Q2 2009 for further analysis).

data thus further validate the applicability of the Precipitation Mass Balance Model (PMBM) for use in subsequent radiological dose computations – see **Section 3.1**.

2.2 Groundwater Sampling

During Q3 2009, GZA collected groundwater samples for radionuclide analysis from scheduled sampling intervals within select monitoring installations ("wells") as shown in **Table 3**. Chains of Custody for samples collected by GZA are presented in **Appendix C**.

GZA used a number of different types of pumping equipment depending upon the sampling method and the characteristics of the individual monitoring installation[14]. **Table 1** lists the monitoring installations sampled, the sampling depths and elevations within sampling installations, and the sampling method and equipment used.

In general, GZA implemented two basic methods of sampling to collect representative groundwater samples: the Low Flow method and a modified well volume purge method. The Low Flow method allows collection of representative groundwater samples from discrete sampling zones within a monitoring installation, while limiting the accumulation of wastewater[15]. As agreed by Entergy Nuclear Northeast, the NRC, NYSDEC, and GZA, the modified traditional purge method[16] allows for the collection of a representative groundwater sample from a monitoring installation after purging 1.5 volumes of water[17]. We implemented this method in wells where low flow sampling was not practical. Sampling Data Sheets summarizing water quality data and sampling information are presented in **Appendix D**.

With all of the above sampling methods, GZA used dedicated sampling equipment, including polyethylene and/or nylon tubing and submersible electric pumps to the extent practical. The use of dedicated sampling equipment limits the possibility of cross-contamination between monitoring installations and/or individual multi-level samples within a single installation. Refer to **Table 1** for a summary of the sampling methods, equipment, frequency, and depths employed during this quarter's groundwater monitoring round.

2.3 Vapor Containment Building Foundation Drain Sampling

GZA collected a water sample from MH-5 on-Site to characterize discharge from foundation drain around and below the Unit 2 Vapor Containment Structure (the drain includes both the foundation drain around the building periphery ("curtain drain") as well as that around the sump near the middle of the structure[18]). This drain, along with B-1 and B-6, are being used as an integral part of the early leak detection monitoring network. Prior to the Q2 2009 quarterly sampling event[19], Entergy modified the cover of MH-5 to allow access to this sampling location

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[14] Refer to Section 4.3 of the Final 2007 Quarterly Long-Term Groundwater Monitoring Report No. 1, dated May 2008, for sampling method and equipment selection rationale.

[15] As described in: Low-Flow Sample Collection, GZA, 7/18/2007

[16] As described in: Modified Traditional Groundwater Sample Collection, GZA, 7/18/2007

[17] When external factors (such as well-surface-flooding from storm water runoff or overland flow of plant component leaks) might have infiltrated the top of the well and impacted ambient groundwater conditions at a specific sampling location, GZA typically purged three to five volumes of water (using the modified traditional purge method) prior to collection of a sample to attempt to obtain a representative groundwater sample.

[18] We could not verify that a foundation drain exists around the reactor sump in Unit 2. The assumption that it does exist is based on the plans for Unit 3 and the similarities in construction of both units.

[19] Prior to Q3 2008, GZA was able to sample the east drain line in manhole MH-5 to capture drainage from the Unit 2 Vapor Containment Foundation Drains. GZA also previously sampled the east drain line in manhole B-1 to capture drainage from the Unit 3 Vapor Containment South Curtain Drain. In addition, GZA sampled the manhole B-6 during earlier sampling quarters to capture drainage from the Unit 3 Vapor Containment North Curtain Drain and Reactor Sump Foundation Drain. During early attempts to collect a discrete sample specifically representative of the east drain line in B-6, this catch basin was used as a clean water discharge point for some unidentified plant work. As a result, the height of the water within the manhole was above the drain

without compromising plant security. As such, samples were collected from this location during the Mid-Q3-2009 sampling round. The Mid-Q3-2009 results indicate similar Tritium levels in MH-5 when compared to the Mid-Q2-2009 results; all other radionuclides were non-detect.

2.4 Proactive Mid-Quarter and Confirmatory Sample Collection

During the Q3 2009 monitoring period, there were no activities that required increased sampling. However, investigation level (I.L.) exceedances for Tritium were reported for the Q3-2009 sampling results at sampling locations MW-31-49 and MW-32-59. Additionally, the Tritium results from these two sampling locations in Q2 2009 represented historical maximum levels. Consequently, additional mid-quarter groundwater samples were collected from all sampling intervals in these two monitoring locations, as well as MW-30, post-Q3 2009 to evaluate these elevated Tritium results.

The results of the confirmatory and mid-quarter samples are presented in **Section 3.4** along with the quarterly data. Sampling Data Sheets summarizing water quality data and sampling information are presented in **Appendix E**.

2.5 Preventative Maintenance

GZA performed general wellhead maintenance tasks, such as housekeeping of well vaults and roadboxes, and replacement of dedicated sampling equipment, tubing and transducers, as required.

lines, which only permitted collection of a composite sample. By mid-year 2008, these discharge operations had ceased, and during the Q2 2008 attempt to collect a sample from this location, GZA observed no flow of water through this drain. It is possible that flow within this drain is being restricted by sediment further upgradient in the drain.

3.0 DATA EVALUATION

The Long Term Monitoring Program was designed to provide data to address four main objectives:

- Monitor radionuclide concentrations and evaluate groundwater flow rate to both detect and characterize current and potential future off-Site groundwater contaminant migration to the Hudson River, both via direct groundwater discharge to the river and through infiltration into the Discharge Canal, from abnormal radionuclide releases of liquid effluents, so as to allow computation of potential radiation dose to the public from these releases;
- Monitor groundwater proximate to Systems, Structures and Components (SSCs) which exhibit a credible probability of resulting in a visually undetected release of radionuclides to the subsurface carrying an activity level of significance;
- Monitor groundwater along the property boundary to confirm that contaminated groundwater is not migrating off of the property to locations other than the river; and
- Monitor the groundwater plumes identified on-Site to demonstrate overall reductions in total activity over time as is consistent with the requirements of Monitored Natural Attenuation (MNA)[20], the selected remediation for the IPEC Site.

These objectives are consistent with and fully encompass the guidance provided in the NEI Groundwater Protection Initiative (GPI). The following sections provide data analyses to address these four objectives.

3.1 Groundwater Mass Flux Computation

As presented in the Hydrogeologic Site Investigation Report, the groundwater flow in both the upper and lower flow zones is toward the power block area from the North, East and South, with subsequent discharge to the Hudson River to the West. We estimate that groundwater flow associated with infiltration from the watershed may be as deep as 350 feet, but still ultimately discharges to the river. A corollary to this conclusion is that there is no groundwater flow, and thus no off-Site radionuclide migration from the power block area to the North, East or South.

To estimate groundwater flow (i.e., groundwater mass flux) beneath the Site, a groundwater flow model was constructed based on a precipitation mass balance analysis. This analysis is based on the precept that, on a long term average, the groundwater flowing through and discharging from the aquifer is equal to the watershed infiltration recharge; this conclusion was reached because the only substantial source of recharge to the aquifer is areal recharge derived from precipitation. The previous fourteen year average for precipitation measured at the Site is approximately 36 inches per year. Based on a USGS infiltration study[21], as well as the groundwater flux model calibration, approximately 25 percent of the precipitation falling on pervious surfaces over the Site watershed area results in infiltration recharge to the groundwater.

The Precipitation Mass Balance Model (PMBM) was initially calibrated[22] to groundwater fluxes based on a Darcy's Law Model with groundwater gradients derived from Q2 2007 (June 1,

[20] The selection of MNA as the remedial strategy for the Site is discussed further in the Hydrogeologic Site Investigation Report.

[21] USGS. Water Use, Ground-Water Recharge and Availability, and Quality of Water in the Greenwich Area, Fairfield County, Connecticut and Westchester County, New York, 2000-2002.

[22] The calibration compared the total groundwater flow values for each of the six on-Site flow zones computed independently using the PMBM and the Darcy's Law Model. The two models use different sets of input parameters which are not dependent or related

2007) groundwater elevation contours[23] (initial reference data set). This calibration not only verified the reasonableness of the overall groundwater flow rates predicted by the PMBM, but also allowed further discretization of the groundwater flow into upper and lower flow zones as well as flow volumes upgradient and downgradient of the Discharge Canal. The PMBM was also recalibrated[24] after collecting the final full set of transducer data in Q2 2009[25]. Data analyses demonstrated that recalibration to the Q4 2008 data set yielded the most conservative (highest dose to the river) calibration of the nine quarterly data sets obtained during the LTMP, and was thus adopted for all subsequent dose computations. The analyses upon which this conclusion is based and details of the recalibration are provided in the Q2 2009 LTM Report.

Since precipitation represents the driving variable for groundwater flux in the PMBM, the yearly precipitation just prior to Q3 2009 (approximately 30.4 inches) was calculated and input into the recalibrated model to compute the flows used in the estimation of Q3 2009 dose values. Based on the USGS study cited above, the aquifer recharge rate is therefore approximately 8 inches for the year prior to the Q3 2009 monitoring event. Applying this information to the pervious surfaces within the six individual groundwater flow zones shown on **Figure 4**, it is estimated that approximately 3.3 gpm of groundwater flowed into the Discharge Canal from the upper and lower zones in the previous year. In addition, approximately 6.5 gpm of groundwater flowed into the Hudson River from each of the upper and lower zones. Storm water discharging into the Discharge Canal and directly into the Hudson River was estimated to be 34.6 and 3.6 gpm, respectively. These flows can be further subdivided into flow zones with further detail as shown in the table in **Appendix F.**

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to each other. The groundwater flow computed using the PMBM is based on yearly precipitation amounts and the proportion of this precipitation that results in infiltration recharge to the groundwater. The Darcy's Law Model, on the other hand, is based on the measured groundwater flow gradients (as computed from groundwater elevation contours) and estimates of the formation hydraulic conductivity.

[23] Groundwater elevation snapshots from transducer data at low river tides were used to construct both upper groundwater flow zone (water table) and lower groundwater flow zone (potentiometric head) contours for each quarterly LTM report from Q2 2007 to Q2 2009. The deep zone groundwater contours illustrated a subdued reflection of the upper zone groundwater contours, demonstrating that the anthropogenic effects of the Site are generally shallow. Refer to the Q2 2009 LTM Report prepared by GZA and the Hydrogeologic Site Investigation Report prepared by GZA and dated January 7, 2008 for further discussion.

[24] After reviewing the groundwater elevation and precipitation data from the Indian Point meteorological station over the time period from Q2 2007 to Q2 2009, it was concluded that sufficient seasonal data had been collected to encompass the majority of the precipitation variability observed over the last fourteen years (fifty-six quarters); see analysis in Appendix H of the Q2 2009 Monitoring Report. As such, the PMBM was recalibrated. To be conservative, the model was recalibrated to the quarterly data set that yielded the largest total and/or Unit ½ Zone groundwater flows from the Darcy's Law Model (note that the Unit ½ Zone contains the vast majority of the radionuclide impacted groundwater). Based on these analyses, the PMBM was recalibrated to the groundwater fluxes from Q4 2008. While this quarter did not yield the highest total flow through the entire site, it did provide a high total flow and the highest flow through the Unit ½ Zone, and thus the highest computed dose. The recalibration of the model to the Q4 2008 data yielded Unit ½ Zone and total groundwater fluxes approximately 40% and 25% greater, respectively, than the original reference (Q2 2007) data set.

[25] To continue to validate the appropriateness and applicability of the PMBM, a subset of the existing transducers are being maintained and monitored quarterly as part of the Long Term Monitoring Program, starting with this Q3 2009 quarterly report. The primary objective of maintaining these transducers is to provide ongoing confirmatory data that demonstrate substantial changes to the on-Site groundwater flow field have not taken place and thus verify that the basic assumptions inherent in the PMBM continue to remain valid. The transducer locations are provided on **Figure 5A** of this quarterly report, and the rational for the selection of these specific individual transducer locations is discussed in the Q1 and Q2 2009 Quarterly LTM Reports. With regard to these ongoing long-term monitoring locations, it is noted that the transducers have a limited life. While some of the transducers can be replaced, and have been replaced in the past, others are permanently installed in the subsurface and are no longer accessible for replacement. However, with time, the base of data upon which model validity is assessed becomes increasingly more robust. Therefore, if some of these transducers fail over time, it is not likely that replacement will be imperative. This is because the likelihood of encountering a precipitation event substantially outside the already captured range becomes increasingly more remote with time as more data is collected. In addition, it is again emphasized that considerable conservatism has been incorporated within the model development and the dose rates computed are still far below those permitted by regulation.

3.2 Groundwater Sampling Results

Groundwater samples collected on behalf of Entergy during Q3 2009 were analyzed at GEL Laboratories for Tritium, Sr-90, Cs-137, Co-60, and Ni-63[26]. **Table 3** presents the Q3 2009 analytical results for these radionuclides. The rolling yearly averages, which are calculated using all the valid data from the previous year [Q4 08 through Q3 09] including mid-quarter and confirmatory samples, are also presented in **Table 3**. **Table 4** presents minimum detection concentrations (MDC), standard deviation, and I.L.s assigned to each well for the Q3-2009 analytical results. **Table 5** presents historic Site groundwater analytical data. Isopleth maps of rolling averages for Tritium and Sr-90 are presented in **Figures 6** and **7**, respectively. **Figure 8** presents a data map of rolling averages for Cs-137, Co-60, and Ni-63[27].

An overall evaluation of the sample handling, shipment and analytical procedures, indicate that the quality assurance quality control protocols have been met for Q3 2009, and the analytical results should be useable. This conclusion is further supported by a review of the Q3 2009 analytical data, as compared to previous historical trends. Refer to **Section 5.2.2** of the Final 2007 Quarterly Long-Term Groundwater Monitoring Report No. 1 for further details pursuant to quality assurance quality control protocols.

3.3 Radionuclide Release Rates

The recalibrated PMBM-derived groundwater flows within each of the six flow zones are multiplied by yearly rolling average radionuclide levels within each zone to compute groundwater radionuclide release rates to the Discharge Canal and Hudson River. These groundwater radionuclide release rates are computed separately for upper and lower flow zones as well as upgradient and downgradient of the Discharge Canal. The selection of specific monitoring locations for each of the six zones is described in the January 25, 2008 Memorandum – Synopsis of Long Term Monitoring Plan Bases.

Storm drain flows[28] computed based on yearly precipitation rates are multiplied by radionuclide concentrations measured in the storm drains to compute the associated storm drain radionuclide release rates[29] to the Discharge Canal and Hudson River.

The radionuclide release rates from the groundwater and storm drains to the Discharge Canal and Hudson River for Q3 2009 are shown in the table below.

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[26] It should be noted that samples were also analyzed for gamma emitters via gamma spectroscopy. Although only Co-60 and Cs-137 are reported, gamma spectroscopy could detect and identify other gamma emitters if they became present in groundwater.

[27] Isopleths were not drawn for Cs-137, Co-60, and Ni-63 because the few positive detections observed did not indicate the existence of a groundwater plume containing these radionuclides. This is likely a result of the high surface affinity (highly adsorptive nature) of these radionuclides for solid geological materials. They therefore tend to rapidly partition out of the groundwater.

[28] The storm drain flows also include groundwater discharges from the foundation drains for Unit 2 and Unit 3 VC Buildings, but not from the Unit 1 NCD and SFDS, which are otherwise accounted for.

[29] It is noted that storm drain samples are not typically taken at times coincident with peak, or even average storm drain flow rates. By its very nature, the vast majority of the flow through the storm drain system tends to be episodic and of short duration due to storm events; sampling rounds are generally scheduled to avoid such events. Radionuclide concentrations are primarily due to groundwater infiltration into the drains and thus tend to be highest during periods of little rain when this infiltration is not diluted by the storm water flow. This incongruence therefore yields a high bias to the dose computation because the elevated concentrations associated with low flow rates are multiplied by the much higher flow rates based on total yearly rainfall.

	GROUNDWATER AND SURFACE WATER TO RIVER (CI/YR)	GROUNDWATER AND SURFACE WATER TO CANAL (CI/YR)
Northern Clean Zone*	2.97E-04	0.00E+00**
Unit 2 North Zone	0.00E+00***	3.42E-02
Unit ½ Zone	2.58E-03	2.02E-03
Unit 3 North Zone	2.71E-03	3.50E-04
Unit 3 South Zone	1.33E-03	3.87E-03
Southern Clean Zone*	3.49E-03	0.00E+00****

* Activity in the Northern Clean Zone is attributable to an assumed Tritium background concentration of 150 pCi/L in the groundwater. The remaining radionuclides were assumed to not be present in this streamtube. Radionuclide release rate in the Southern Clean Zone is calculated from activity measured in monitoring wells MW-40 and MW-51.

** The radionuclide release rate to the Discharge Canal from the Northern Clean Zone is zero because the Discharge canal does not extend far enough to the north to be downgradient of the Northern Clean Zone.

*** The zero contribution to radionuclide dose to the river through the Unit 2 North Zone groundwater is due to a model-computed groundwater flow of zero through this zone. This simplified estimate results in an overall high bias to the dose computations, and is therefore conservative as explained further in **Appendix F**.

**** The radionuclide release rate to the Discharge Canal from the Southern Clean Zone has been computed to be zero because groundwater in this zone appears to flow under the Discharge Canal and directly to the river. This conclusion has been reached given that the surface water level in the Discharge Canal is, on average tidally, equal to the proximate groundwater elevation, both of which are above the water level elevation in the Hudson River. This approximation results in a conservatively high dose estimation.

Release rates are then used by Entergy to calculate the radiological dose to the environment via the Discharge Canal and the Hudson River using the procedure outlined in the Liquid Radioactive Effluents (0-CY-2740) document, prepared by Entergy and dated January 12, 2007.

3.4 SSCs and Property Boundary Monitoring

In addition to providing the data for dose computation as discussed above, the Long Term Monitoring Program has been designed to also provide rapid detection of potential leaks from SSCs. This monitoring is specifically focused on those SSCs which exhibit a credible probability of resulting in a visually undetected release of radionuclides to the subsurface[30]. The monitored SSCs are shown on **Figure 4** and a description of the specific monitoring installations associated with each SSC are provided in the January 25, 2008 Memorandum – Synopsis of Long Term Monitoring Plan Bases. In addition to monitoring the SSCs, on-Site and off-Site wells are used to monitor the property boundaries for unanticipated radionuclide migration across these boundaries. Again, the rationale underpinning the selection of wells designated for this purpose is provided in the above cited Memorandum. These monitoring protocols are consistent with the NEI Groundwater Protection Initiative (GPI).

Entergy has also started the planning process to add an additional multi-level monitoring installation located near the south west corner of the Unit 3 Transformer Yard, downgradient of MW-46[31]. The sampling of U1-NCD and U1-SFDS will also be continued as part of the Long Term Monitoring Program.

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[30] As discussed further in the following sections, reporting of visually identified spills/leaks within structures is included within Condition Reports under Entergy's Corrective Action Program. Additional emphasis has been placed on routine review of these reports as they potentially relate to GPI objectives.

[31] A cross section has also previously been developed through the Unit 3 area to supplement **Figure 4** and further demonstrate the relationship of site groundwater flow patterns and monitoring well placement relative to the individual Unit 3 SSCs (similar cross

I.L.s were established for the associated monitoring wells to set quantitative radionuclide concentrations above which further action would be undertaken. As part of the ongoing groundwater monitoring program, the reported analytical concentrations are compared against I.L.s established based on the criteria summarized in the table below. I.L.s are currently computed each year based on yearly averages of all the valid groundwater sampling analytical results of the previous year including aliquot, confirmatory, and mid-quarter sample results[32]. The monitoring well-specific I.L.s are presented in **Table 4** and are established for comparison with 2009 analytical results based on the quarterly samples collected and analyzed in 2008.

WELL ID	INVESTIGATION LEVELS (I.L.S)		
	TRITIUM PCI/L	SR-90 PCI/L	OTHER PLANT-RELATED RADIONUCLIDES
Off-Site Boundary Wells (LAF-002)	any detection*	any detection*	any detection*
On-Site Boundary Wells (MW-40, MW-51, MW-52, and MW-107)	1,000**	2**	any detection*
Riverfront Boundary Wells (MW-60, MW-62, MW-63)	2,000**	2**	any detection*
All Other Wells	>2x average***	>2x average***	>2x average***

* A radionuclide is positively detected when the result is greater than or equal to the MDC and 3 times the 1 sigma uncertainty.
** The values of 1000 and 2000 pCi/L for H-3 and 2 pCi/L for Sr-90 have been chosen to be low enough to result in timely detection of a new release or change to an existing release and still be outside the normal expected range of sample results at these locations, to the extent possible with the currently available data over time.
*** Any positively detected radionuclide that has a result greater than 2 times the average from the previous year. However, the IL is not reached until an H-3 result is also greater than 1000 pCi/L or a Sr-90 result is also greater than 2 pCi/L.

In the event that the analytical results of a groundwater sample exceed the designated I.L., the following series of actions will be considered:

- Contact the laboratory to verify that all quality control checks were satisfactory, sufficient sample volume was used; required MDC's were met, etc.;
- Re-analyze aliquots of the original sample;
- Re-sample the location (confirmatory sample) to verify the result;
- Increase the frequency of sampling for this location;
- Initiate an investigation utilizing Entergy's corrective action program and related resources as appropriate (e.g. site engineering / radiation protection); and

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sections were previously developed for Units 1 and 2, as presented in the Hydrogeologic Site Investigation Report). This Unit 3 cross section C-C' is included in the Q1 2009 Quarterly Report as Figure 4A.

[32] The calculation of ILs and yearly rolling averages prior to the Q1 2009 Report were based on the analytical results from the quarterly sampling rounds only, and therefore excluded aliquot, confirmatory and mid-quarter sample results. For the Q1 2009 Report and thereafter, if an aliquot analytical result confirms that the original quarterly analytical result was false, then only the aliquot result is utilized in the yearly IL calculation. If the aliquot result confirms the original quarterly result is valid, then both the original and the aliquot results are averaged together and then averaged into the yearly IL calculation as a single value. Confirmatory analytical results have the potential to impact the use of the original quarterly sample in the same manner as aliquots; however, unlike aliquots, these "independent samples" are averaged directly into the yearly rolling average without "pre-averaging" with the associated quarterly sample. Similar to confirmatory samples, mid-quarter samples are also averaged directly into the yearly rolling average calculation. However, mid-quarter sample results do not have any impact on the use of the initial quarterly samples as can either aliquot or confirmatory samples, as described above. In the case of both confirmatory and mid-quarter sample results, direct averaging into the yearly average of these additional results can somewhat bias the yearly average toward a particular quarter/season. However, given that confirmatory and mid-quarter samples are typically taken to confirm and/or prepare for uncharacteristically high radionuclide concentrations, this direct averaging provides a high bias to the subsequent yearly dose computations, and is thus conservative. In cases such as this where some bias inevitably will be created, establishing a conservative bias in the dose computations is considered more important than maintaining a seasonal non-bias.

- Initiation of source/ground water remediation techniques commensurate with the potential dose impact analyses and good environmental stewardship.

3.4.1 Proactive Mid-Quarter Samples

During the Q3 2009 monitoring period, there were no activities that required increased sampling. However, investigation level (I.L.) exceedances for Tritium were reported for the Q3-2009 sampling results at sampling locations MW-31-49 and MW-32-59. Additionally, the Tritium results from these two sampling locations in Q2 2009 represented historical maximum levels. Consequently, additional mid-quarter groundwater samples were collected from all sampling intervals in these two monitoring locations, as well as MW-30, post-Q3 2009 to evaluate these elevated Tritium results. The results of these samples are reported and discussed below along with the quarterly samples.

3.4.2 Previous Q2-2009 Investigation Level Exceedances

As indicated in the previous Q2 2009 Quarterly LTM Report, a comparison of the Q2 2009 analytical results to their respective I.L. values shows that the I.L.s were initially exceeded in ten samples. Two of the sampling locations (MW-31-49 and MW-32-59) still indicate radionuclide concentrations exceed their I.L.s in Q3 2009 samples, and one sampling location (U1-CSS) was not subsequently sampled Post Q2 2009; these results are therefore discussed in **Section 3.4.4** below. The remaining seven I.L. exceedances (MW-31-85, MW-39-102, MW-42-49, MW-43-62, MW-45-42, MW-53-82, and MW-67-173) were resolved by the Post Q2 2009 sampling results and are discussed individually below.

MW-31-85. The Q2 2009 result at this location indicated Tritium was detected at the highest concentration since the initiation of the LTMP (fall 2007), exceeding the I.L. by a factor slightly above two. The following two samples (Post Q2 2009 and the Q3 2009) have shown a progressive decrease in the Tritium levels to concentrations not only below the I.L., but also nearly an order of magnitude below the Q2 2009 sample results. While the exact cause of the elevated Q2 2009 Tritium detection at this location is unclear, it is likely related to the mobilization of stored Tritium within the shallow bedrock fractures near the Unit 2 SFP. Additional locations proximate to the Unit 2 SFP (MW-30 and MW-32) have also shown peaks in Tritium levels over the past two quarterly sampling events, as would be consistent with this hypothesis. This storage/Retention Mechanism was initially elucidated by the tracer test and described in the Hydrogeologic Site Investigation Report, with further confirmatory support subsequently obtained as described in Section 3.6.2 of the Q1 2009 Long Term Monitoring Report. However, it is also recognized that this Tritium increase may also be related to the Unit 2 ISFSI work (see Section 3.6.4 of the Q1 2009 Monitoring Report) and will therefore be subject to added scrutiny during the upcoming quarterly monitoring rounds to evaluate the observed variability in Tritium levels.

MW-39-102. The Q2 2009 results at this location indicated Strontium was detected slightly above the I.L., while the Q3 2009 results showed a decrease in Strontium activity to below the I.L. and back down to typical historic levels. The Stontium exceedance was originally attributed in the Q1 2009 Quarterly LTM Report to natural geohydrologic variability because the monitoring installation is not located downgradient of the Unit 1 defueling activities, the remaining five sampling zones (39-67, 39-84, 39-124, 39-183, and 39-195) at this location did not meet their I.L.s, and all other installations in the vicinity (MW-41, MW-44, and MW-45) did

not show Strontium increases during both the Q1 and Q2 2009 sampling events. The Q3 2009 results agree with this initial conclusion[33].

MW-42-49. Because the water levels in the Unit 1 SFPs were increased during late April 2008 as part of the process for final fuel removal for ISFSI storage, it was anticipated that increased radionuclide levels[34] would be observed shortly after raising of pool levels based on previous work. The expected increase was initially observed in the post-Q3 08 Mid Quarter samples, which yielded an abrupt Strontium level increase to three times the I.L. for MW-42-49[35]. Elevated Strontium levels (compared to those typically observed during pool demineralization) were observed in MW-42-49 through the Q2 2009 analytical results[36]. The recent Q3 2009 analytical results indicate Strontium levels decreased by nearly two orders of magnitude from the Q2 2009 results, to activities below the I.L. and generally consistent with activities observed prior to the Unit 1 SFP defueling activities. Other radionuclide levels (Cesium and Nickel) indicated similar decreasing trends from Q2 to Q3 2009 at MW-42-49. As such, the observed behavior is consistent with that anticipate in response to the defueling activities.

While the radionuclide peaks associated with this temporary release have dissipated, it is emphasized that the input of these radionuclides (and Tritium) to the vadose zone during the Unit 1 defueling activities will likely serve to recharge the Retention Mechanism(s) in the area. As such, additional peaks could occur do to subsequent releases from storage and into the groundwater flow regime.

MW-43-62. The Q2 2009 results at this location indicated Cesium was detected for the first time since the initiation of the LTM (fall 2007) program. Similar to the historic samples, the Q3 2009 analytical results indicate that the Cesium levels were back down to below MDC. These Q3 2009 analytical results therefore agree with the initial conclusion in the Q2 2009 Quarterly LTM Report that the Q2 2009 Cesium detection was likely related to a false laboratory detection[37].

MW-45-42. The Q2 2009 result at this location indicated Tritium was detected at slightly greater than the I.L., and at a level above that of any previous historic data. A noticeable increase in Tritium activity was also concurrently observed in Manhole A2 during routine 80-10 Effluents Program sampling (3/25/09 and 4/1/2009 sample dates), which is located proximate to the Unit 3 FSB. The Q2 2009 Tritium results were followed by the Q3 2009 result (7/24/2009) which returned to historic Tritium levels at this sampling location and also fell below the I.L. Additionally, Manhole A2 showed a rapid decrease to historic Tritium levels starting with the

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[33] It is also noted that the Strontium activity in the upper interval at this sampling location (39-67) is higher than the I.L. for the MW-39-102 interval, and the transducer data from all zones at this monitoring installation indicate a downward vertical gradient. A distinct increase in Strontium levels in the sampling zone immediately below the 102' interval (39-124) is observed in the Q3 2009 analytical results.

[34] It was anticipated that Tritium levels would increase somewhat, but it was unclear if increased Strontium levels should be expected given Entergy's demineralization of the pools prior to raising the water levels. In fact, the previously enhanced demineralization, begun in April 2006, was resulting in a consistent decrease in Strontium levels in MW-42-49.

[35] As indicated, Strontium levels increased even though the SFPs were being aggressively demineralized. This result is not unexpected given that the increase in leakage rate, even at reduced Strontium levels, could result in increased groundwater Strontium levels due to additional partitioning from the solid subsurface materials back into the groundwater as well as the additional leakage rate as compared to the groundwater flow rate.

[36] The Q2 2009 analytical results showed a large reduction in Tritium levels form the abrupt spike exhibited in the Post Q1 2009 results at MW-42-49 (Tritium levels reached almost nine times the I.L.). Similar Strontium trends from Q1 to Q2 2009 were observed in the U1-NCD analytical results.

[37] (1) the absence of Cesium in the samples analyzed during the past quarterly sampling events at this location; (2) the absence of Cesium in the upper sampling zone (MW-43-28) during Q2 2009: (3) the stable levels of the other radionuclides within MW-43-62 during Q2 2009; and (4) the absence of a plausible source led to the initial conclusion that this Cesium detection in MW-43-62 is likely related to a false positive from the laboratory. In addition, the MDC values were analyzed for these samples to verify that the positive Cesium result was not due to a lower detection limit than typical. This was not the case, as the Q2 2009 MDC is greater than the Q3 2009 MDC, further supporting the conclusion of a false positive.

April 4, 2009 sample, and Tritium levels have remained stable in A2 throughout this monitoring period.

While the specific source of the elevated Tritium during Q2 2009 is unclear, the subsequent sampling results in Manhole A2 and MW-45-42 indicate that this was a one-time transient event. The lower sampling interval at this location (MW-45-61) has indicated stable Tritium levels through Q3 2009; therefore, a surficial release to the storm drain system, with subsequent exfiltration to the groundwater, appears the most plausible explanation. Entergy is currently planning additional investigations to identify the root cause of this transient Tritium increase[38].

MW-53-82. The Q2 2009 results at this location indicated Cesium was detected for the first time since the initiation of the LTM Program (fall 2007). However, the current Q3 2009 analytical results show that Cesium no longer present above MDC. GZA initially concluded in the Q2 2009 Quarterly LTM Report that the Cesium detection was likely related to the Unit 1 defueling activities[39]. The Q3 2009 results agree with this initial conclusion because the current reduction of Cesium levels to below MDC follow reductions further upgradient, as would be expected in response to removal of the Unit 1 source term.

While the radionuclide peaks associated with this temporary release have dissipated, it is emphasized that the input of radionuclides (i.e. Tritium, Strontium, Cesium, etc.) to the vadose zone during the Unit 1 defueling activities will likely serve to recharge the Retention Mechanism(s) in the area. As such, additional peaks could occur do to subsequent releases from storage into the groundwater flow regime.

MW-67-173. The Q2 2009 results at this location indicated Nickel was detected for the first time since the initiation of the LTM Program (fall 2007). Similar to historical samples collected at MW-67-173, the Q3 2009 analytical results indicate that Nickel levels were again below MDC. These Q3 2009 analytical results agree with the initial conclusion in the Q2 2009 Quarterly LTM Report that the Q2 2009 Nickel detection was likely related to a false laboratory detection[40].

3.4.3 Q3-2009 Boundary Investigation Levels

A comparison of the Q3 2009 analytical results for the On and Off-Site Boundary Wells to their respective I.L. values shows that the I.L.s were not met for any of the monitoring locations. Therefore, there was no requirement to further investigate radionuclide activity in these wells. However, monitoring installations MW-40 and MW-51 are being further evaluated on a routine basis, as discussed below.

MW-40 and MW-51. While there have been no historic exceedances at these two southern boundary locations, and the data from this quarter (Q3 2009) generally falls within previous ranges, these monitoring locations continue to be closely scrutinized on a routine basis given the sensitivity associated with the southern power block boundary. Even though it is recognized that the peak Tritium levels detected are low (less that 350 pCi/L) and near the lower limit of

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[38] These investigations are focused on a suspected SFP seasonal vapor depositional source.

[39] Given that: (1) this monitoring installation is located downgradient of the Unit 1 SFPs and also downgradient of MW-42-49 (which exhibited a large, short-duration Cesium peak in Q1 and Q2 2009),;and (2) this well also yielded Strontium levels exceeding the I.L. in Q1 2009 (a signature of the Unit 1 SFP activity), the cause of this Cesium detection was initially concluded to likely be associated with response to Unit 1 defueling activities.

[40] The initial conclusion that this Nickel detection was likely related to a false laboratory detection was based on: (1) the absence of Nickel in the samples analyzed during the past quarterly sampling events at this location; (2) the absence of Nickel in all six of the other sampling intervals (67-39, 67-105, 67-219, 67-276, 67-323, and 67-340) during Q2 2009; (3) the stable levels of the other radionuclides within MW-67-173 during Q2 2009; and (4) the absence of a plausible source for Nickel this far downgradient on the Site. In further support of this hypothesis, it is noted that the laboratory analysis of the Q1 2009 sample from MW-67-173 resulted in a false positive Cesium detection (confirmed with a non-detect result upon reanalysis of an aliquot sample). Additionally, review of the MDC values verifies that this detection did not result from a lower MDC than typically seen at MW-67-173.

detection, there appears to be a general correlation in Tritium peaks at multiple depth intervals in both of these monitoring installations (see **Figure H1** in **Appendix H**). The most appropriate metric to evaluate if these peaks could be due to groundwater migration of Tritium from the power block area is the relative groundwater elevations between these boundary locations and the power block areas where Tritium contamination exists. As discussed at length in the CSM sections of the Site Investigation Report, southern boundary groundwater elevations are well above those in the power block area. As such, groundwater, and thus Tritium in the groundwater, cannot migrate from the power block to the south; in fact, groundwater is migrating in the opposite direction. This conclusion was previously validated for nine quarters (between Q2 2007 and Q2 2009) though analyses of groundwater elevation contours (see **Figure 5** in the quarterly reports prior to Q3 2009). In addition, starting with the Q1 2009 Quarterly Report, **Figure 5A** is being generated to specifically compare high importance transducer readings to historic maximum and minimum readings. The objective of this analysis is to demonstrate that substantial changes to the on-site groundwater flow field have not taken place and that the CSM remains valid. Multiple sampling zones from both the MW-40 and MW-51 monitoring installations are included in this analysis. Based on these analyses, as well as the substantial body of data developed over the last 5 years of investigation which underpin our CSM, we state, with a high degree of confidence, that the low level peaks in the Tritium activities observed in these two monitoring installations are not due to groundwater migration from the power block area. This conclusion has continued to be validated each quarter. However, we do not yet have a definitive explanation for the observed peaks. Further investigation into other potential mechanisms, such as atmospheric Tritium washout and seasonal laboratory biases are ongoing.

3.4.4 Q3-2009 SSC Investigation Levels

For the SSC monitoring wells, a comparison of the Q3 2009 and Post-Q3 Mid-Quarter analytical results to their respective I.L. values shows that the I.L.s were exceeded in six samples. Additionally, one sampling location (U1-CSS) exceeded the respective I.L.s in Q2 2009; however, subsequent samples have not currently been collected. The following table summarizes the cases where the I.L.s were met, and the exceedances are individually discussed below.

WELL ID	RADIONUCLIDE	RESULT (PCI/L)***	REANALYZED RESULT (PCI/L)	INVESTIGATION LEVEL (PCI/L)
MW-31-49	H3	31,400	NA*	15,470
MW-32-59	H3	18,600	NA*	10,031
MW-36-24	H3	2,920	NA*	2,254
MW-36-41	Sr-90	7.12	NA*	4.36
MW-37-40	Sr-90	11.9	NA*	2.26
MW-50-42	H3	1,060	NA*	1,000
U1-CSS (Q2 2009)	H3 / Sr-90	3,280 / 35.6	NA*	3,088 / 14.8

* NA indicates that the sample was not reanalyzed.
** ND indicates that the radionuclide was not detected greater than or equal to the MDC and 3 times the 1 sigma uncertainty.
*** A radionuclide is positively detected when the result is greater than or equal to the MDC and 3 times the 1 sigma uncertainty.

MW-31-49: The Q3 2009 result for this location did not exceed the Tritium I.L. However, the Post-Q3 2009 Mid Quarter result indicates Tritium activity exceeded the I.L. by a factor of

slightly over two[41]. While the Post Q2 Mid Quarter, the Q3 2009 and the first Post Q3 Mid Quarter samples all yielded Tritium levels below the I.L., this sampling location recently yielded its highest Tritium concentration since the Q2 2007 initiation of the LTM program (in Q2 2009). The other sampling zones at this location (31-63 and 31-85) have also shown variable Tritium levels. While the exact cause(s) of the transient Tritium peaks at this location is currently unclear, it is likely related to the mobilization of stored Tritium within the shallow bedrock fractures near the Unit 2 SFP. This storage/Retention Mechanism was initially hypothesized based on the tracer test, as described in the Hydrogeologic Site Investigation Report, with further confirmatory support subsequently obtained as described in Section 3.6.2 of the Q1 2009 Long Term Monitoring Report. However, it is also recognized that the variability in Tritium activity may be related to the Unit 2 ISFSI work (see Section 3.6.4 of the Q1 2009 Quarterly LTM Report). This location will therefore be subject to added scrutiny during the upcoming quarterly monitoring rounds to evaluate the observed variability in Tritium levels.

MW-32-59: Similar to MW-31-49, the Q3 2009 Tritium results for MW-32-59 were below the I.L. However, the Post Q3 2009 Mid Quarter results at this location indicate an exceedance of the Tritium I.L. by a factor slightly under two[42]. While the Post Q2 Mid Quarter, theQ3 2009 and the second Post Q3 2009 Mid Quarter Tritium results were all below the I.L., and the remaining four deeper zones at this location (32-85, 32-149, 32-173, and 32-190) reflect generally stable to decreasing trends, this location also recently exhibited Tritium activities which were the highest recorded since the fall 2007 initiation of the LTMP (in Q2 2009), exceeding the I.L. by a factor over six. As for MW-31-49 above, we believe that the observed Tritium peak is likely related to the mobilization of stored Tritium within the shallow bedrock fractures near the Unit 2 SFP. This storage/Retention Mechanism was initially hypothesized based on the tracer test as described in the Hydrogeologic Site Investigation Report, with further confirmatory support subsequently obtained as described in Section 3.6.2 of the Q1 2009 Long Term Monitoring Report. However, it is also recognized that this Tritium increase may be related to the Unit 2 ISFSI work. This location will therefore be subject to added scrutiny during the upcoming quarterly monitoring rounds to evaluate the observed behavior in Tritium levels.

MW-36-24: The Q3 2009 results indicate Tritium was detected slightly above the I.L at this location. The previous tritium levels at this location have shown a stable to decreasing trend since Q1 2008. While the exact cause of this elevated Tritium activity is unclear, it may also be related to the increased Tritium levels observed in MW-31 and 32 during previous quarters[43]. It is also recognized that this Tritium increase may be related to the Unit 2 ISFSI work or possibly the valve leak associated with the waste distillation tanks that was observed in the Unit 1 FSB. This location will be subject to added scrutiny during the upcoming quarterly monitoring round.

MW-36-41: The Q3 2009 results at this location indicate Strontium exceeded the I.L. by a factor of slightly less than two; however, no 2008 samples were collected from this sampling location and the I.L. was calculated from one Strontium result collected in 2007. Additionally, the remaining two zones at this location (36-24 and 36-52) indicated Q3 2009 Strontium results were within their typical historical ranges. Therefore, while the exact cause of this elevated Strontium activity is unclear, this Strontium exceedance could be a result of local variations in

[41] There were two Post Q3 Mid Quarter samples taken in an effort to further elucidate the variability in the Tritium results observed to date; one was taken on 9/1/09 and the other on 9/14/09. The first of these two samples did not exceed the I.L. We therefore chose to focus on the 2nd sample with the higher Tritium activity.

[42] There were two Post Q3 Mid Quarter samples taken in an effort to further elucidate the recent peak in Tritium activity; one was taken, one on 8/31/09 and one on 9/15/09. The first of these two samples exceed the I.L. and the second did not. We therefore chose to focus on the first sample with the higher Tritium activity.

[43] MW-36 is downgradient of MW-31 and MW-32. The elevated Tritium levels in MW-31 and 32 are likely related to the mobilization of stored Tritium within the shallow bedrock fractures near the Unit 2 SFP.

flow paths or other in-situ processes (natural geohydrologic variability). However, it is also noted that this sampling installation is located within the delineated Unit 1 Strontium plume (downgradient of Unit 1 SFPs). Therefore, the Strontium increase could represent a delayed response to the Unit 1 defueling activities (also see discussion for MW-37-40 below). This location will therefore be subject to added scrutiny during the upcoming quarterly monitoring round.

MW-37-40: The Q3 2009 results at this location indicate Strontium was detected approximately five times the I.L. The remaining three zones at this location (37-22, 37-32, and 37-57) also indicated an increase of Strontium levels during the Q3 2009 sampling event. Given that this sampling location is downgradient of the Unit 1 SFPs, these Strontium increases likely represent a delayed response to the increase in water levels in the Unit 1 SFPs during previous defueling activities (this conclusion increases the probability that MW-36-41 (discussed above) is responding to defueling activities). It is anticipated that Strontium activity at this monitoring location will eventually return to stable, lower levels with time because the Unit 1 fuel has been completely removed and the water was drained from the Unit 1 SFPs. This location will be subject to added scrutiny during the upcoming quarterly monitoring round and it has been added to **Figure 7A**.

MW-50-42: The Q3 2009 results at this location indicate that while Tritium levels were slightly above the I.L., the overall magnitude of the activity is relatively low (about 1000 pCi/L). However, the lower sampling zone at this location (50-66) also indicated a limited increase in Tritium levels during the previous quarter (Q2 2009) followed by a larger magnitude decrease during the Q3 2009 sampling event. The elevated Tritium levels at MW-50-42 are possibly related to the leak in the valves associated with the waste distillation tanks located to the east of the Unit 1 FSB. The leaking valves, located in the FSB, were quickly repaired and the leak was eliminated. Similar to MW-50-66, it is anticipated that Tritium levels at this monitoring location will return to stable, lower levels with time. This location will be subject to added scrutiny during the upcoming quarterly monitoring round.

U1-CSS: The previous (Q2 2009) results at this location indicated Strontium was detected at greater than two times the I.L. and Tritium was detected slightly above the I.L. Because Post Q2 or Q3 2009 samples were not scheduled to be collected from this sampling location, the Q2 2009 Strontium and Tritium exceedances are not resolved. However, the Unit 1 Containment Spray Sump (CSS) is located downgradient of the Unit 1 SFPs, with the associated piping trench backfill forming a preferential flow path leading back to the U1-NCD (see Section 8 of the Hydrogeologic Site Investigation Report for further discussion). The Strontium increase in monitoring installation U1-CSS is therefore likely in response to the Unit 1 SFPs defueling and associated temporary increase in leakage. Similar to the other Unit 1 monitoring locations, it is anticipated that the Strontium levels at this location will eventually decrease given that the remaining fuel has been removed and the water drained from the Unit 1 SFPs.

The Tritium increase in U1-CSS is likely related to the valve leak associated with the waste distillation tanks, as observed in the Unit 1 FSB. Given that these valves were immediately repaired, it is anticipated that the Tritium levels will decrease to stable levels at U1-CSS. In this regard, it is noted that the valve leak was first detected in the groundwater at location MW-42-49 during Q1 2009, and that much larger Tritium peak quickly attenuated to typical levels. Notwithstanding the above, this location will be subject to added scrutiny during the upcoming quarterly monitoring round.

U1-NCD AND U1-SFDS: Sampling of the Unit 1 North Curtain Drain (U1-NCD) and the Unit 1 Sphere Foundation Drain Sump (U1-SFDS) are currently included as part of the Long Term Monitoring Program. These drains have been documented to capture a large proportion of the

Strontium leakage from the Unit 1 SFPs, and continue to collect groundwater containing Strontium and Cesium and direct it to treatment. These drains have also historically been assumed to collect some groundwater contaminated with Tritium from the Unit 2 SFP. This conclusion was validated by the tracer test conducted as part of the hydrogeologic site investigation (see the Hydrogeologic Site Investigation Report prepared by GZA and dated January 7, 2008). The amount of quarterly sampling data is currently insufficient to set Tritium I.L.s for these drains. However, visual inspection of the existing data was performed and decreases in Tritium levels (as well as all of other radionuclides) were observed in samples from both drains from Q2 2009 to Q3 2009. Strontium data from these drains is also summarized on **Figure 7A**.

3.4.5 Conclusions - Boundary and SSC Leak Detection Monitoring

Recognizing that measured activities in the Off-Site and On-Site Boundary Wells have remained below I.L. levels, this overall data set continues to demonstrate that radionuclides are migrating toward the Hudson River to the West, and are not migrating off of the property to the North, East or South, as expected given groundwater flow directions from the property periphery toward the power block area.

Given the analyses discussed above, there is also no compelling reason to believe that any new unidentified leaks have developed in the SSCs monitored relative to Unit 2 or 3. With the exception of locations MW-31-49, MW-32-59, and MW-36-24, Tritium levels within the U2 plume[44] have remained below their I.L.s and the plume is continuing to exhibit overall long-term reductions in Tritium activity. While recent increases in Tritium levels have been observed in MW-31 and MW-32, these data are consistent with episodic releases of Tritium historically stored in the subsurface via natural and anthropogenic Retention Mechanisms[45], which is further supported by the tracer data and other analyses[46] discussed in Section 3.6 of the Q1 2009 Long Term Monitoring Report.

Relative to the Unit 1 data, increased leakage was anticipated during final fuel removal from Unit 1 SFPs. This leakage was readily detected as increased Strontium in the groundwater by the Long Term Monitoring Program. These initial near-pool and more recent downgradient Strontium increases are being routinely monitored as summarized on **Figure 7A**, and are expected to continue to show further decreases with time. The recent increase in Tritium levels at U1-CSS and MW-50-42 are likely attributed to an observed transient leak in the waste distillation tank valving within the Unit 1 FSB, rather than increased leakage from the SSCs associated with Unit 2 and 3. This leakage episode was rapidly identified and immediately repaired.

Overall, GZA believes that continued monitoring will further demonstrate decreasing long term trends in groundwater contaminant activities over time for both the Unit 1 and Unit 2 plumes given the source interdictions completed by Entergy. However, ultimate confirmation of these conclusions will require monitoring over a number of years to demonstrate continued depletion of Tritium and Strontium from the Retention Mechanisms originally sourced by: (1) historic Unit 2 SFP Tritium leakage; and (2) the historic and more recent Strontium leakage due to Unit 1 defueling. It is further noted that quantification of these overall radionuclide reductions

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[44] It is noted that there is no Tritium plume associated with Unit 3.

[45] These retention mechanisms are discussed along with the CSM in the previously cited Hydrogeologic Site Investigation Report.

[46] These data and analyses further support a conclusion that the Unit 2 SFP had ceased leaking after the transfer canal "pin hole leak" was repaired in late 2007. However, given the more recent behavior observed in the Unit 2 collection box data (see Section 3.6 of the Q1 2009 Long Term Monitoring Report), additional investigations/data evaluations are underway to further rule out potential Unit 2 SFP leak mechanisms.

will require that ranges in seasonal variation to be adequately reflected in the monitoring data and any further additions of radionuclides to the Retention Mechanisms, such as through the transient releases discussed above, be dissipated from the geohydrologic flow regime.

Given the above cited constraints, we have not yet been successful in recalibrating the I.L.s that were originally established at the beginning of the LTMP in 2007. Since inception of this program, it has been observed that I.L.s have been routinely exceeded in a number of cases where subsequent data have demonstrated that no new leaks have occurred. The majority of these cases occur where the radionuclide levels are generally low and/or near their detection limits. It appears that data variability, likely due to seasonal precipitation influences and local variations in flow paths and/or other in-situ processes, is the primary cause of these false positives[47], particularly pursuant to Tritium. Therefore, the basis upon which the I.L.s are computed needs to be re-evaluated in light of the long-term natural transient variability of the groundwater system in response to precipitation events, etc. Furthermore, while re-evaluation/re-setting of I.L.s is a clear goal, it is still premature given the lack of sufficient data. This is particularly true given the recent behavior in Strontium levels due to the Unit 1 defueling (see **Figure 7A**) and the transient Tritium releases discussed above and in the Q1 2009 Quarterly LTM Report. As such, the current I.Ls will remain in effect while a sufficient data base is acquired to allow better quantification of the natural (non-leak related) variability in the data.

Three critical conclusions can be drawn from the above summarized data and analyses: 1) the current CSM for the IPEC site provides a good basis for the design of the Long Term Monitoring Program; 2) the procedures and rational used for selecting monitoring locations for leak detection have been further validated given the clear detection of the confirmed Unit 1 SFPs increased leakage during fuel removal, the detection of Tritium leakage from the waste distillation tank valves within the Unit 1 FSB, and the surficial release of Tritium to Manhole A2 in Q1 2009; and 3) increases in Strontium levels following a documented leak take longer to materialize in the groundwater[48] than might otherwise be expected.

3.5 Plume Natural Attenuation Monitoring

The fourth and final objective of the Long Term Monitoring Program is to evaluate if the groundwater plumes identified on-Site demonstrate overall reductions in total activity over time, as is consistent with the requirements of Monitored Natural Attenuation (MNA), the selected remediation for the IPEC Site[49].

Given the likely ages of the leaks identified and characterized during the hydrogeologic investigation, it is probable that the Unit 2 (Tritium) and Unit 1 (Strontium) plumes had reached steady state conditions prior to the beginning of the quarterly monitoring. Given that: (1) the identified leaks in the Unit 2 SFP have all been previously repaired (the last leak repaired in 2007) and; (2) the water in the Unit 1 West Pool underwent intensified demineralization (beginning in April 2006 with a reduction in Strontium levels of over 95 percent), one might expect that the plumes should have started to markedly attenuate toward zero with time. Both plumes have in fact generally shown significant levels of attenuation, when they are viewed in their entirety and past release events and expected seasonal variability in the sampling data are

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[47] In this context, "false positive" does not refer to an error in the actual data value. Rather, it means that a new release was not associated with the I.L exceedance in question. While I.L.s are meant to be set at conservatively low values, and thus "false positives" should be expected, a corollary objective is to set I.L values which keep the number of false positives low enough to eliminate development of complacency.

[48] Given the proximity of monitoring installations to documented release events, the delay in release arrival is likely due primarily to Strontium partitioning and the time required for leakage to traverse anthropogenic features

[49] The selection of MNA as the remediation for the Site is more fully discussed in the Hydrogeologic Site Investigation Report.

accounted for. However, the attenuation has not been as rapid as we originally anticipated during time frames subsequent to the source interdictions implemented by Entergy.

In the case of the Unit 2 Tritium plume, levels have dropped markedly from the highest levels measured during the two-year hydrogeologic investigation. However, the rate of Tritium decrease with time has decreased. This rate of reduction has been difficult to predict due to the impact of natural geologic and anthropogenic Retention Mechanisms. These subsurface features have trapped and stored Tritium released during historic Unit 2 SFP leaks, and are now slowly releasing this Tritium to the groundwater flow regime after the physical leaks have been repaired. This conclusion is consistent with the original CSM presented in the Hydrogeologic Site Investigation Report, as further supported by the tracer test data in that report as well as subsequent tracer data, as described in Section 3.6 of the Q1 2009 Quarterly Monitoring Report, dated July 2, 2010. Further discussion of this quarter's data pursuant to evaluation of the Unit 2 Tritium plume MNA is provided in **Section 3.51** below.

Relative to the Unit 1 Strontium plume, Strontium levels should drop much more slowly than Tritium levels. This is because, in addition to the Retention Mechanisms discussed above for Tritium (which also apply to Strontium), Strontium also undergoes partitioning whereby this radionuclide is adsorbed from the groundwater onto solid surfaces (both geologic and anthropogenic). When the input of Strontium to the groundwater is reduced (such as via fuel pool demineralization) the solid surfaces desorb Strontium back into the groundwater, thus maintaining Strontium levels. Strontium partitioning is therefore expected to substantially slow plume attenuation. Despite partitioning effects, some plume attenuation was observed in response to pool demineralization prior to defueling, particularly proximate to the pool. However, defueling of Unit 1 resulted in a temporarily increase in the leakage rate of West Pool water into the formation. This was expected based on previous work on the Unit 1 SFPs, but was unavoidable given the requirement to raise the pool level for fuel rod removal[50]. The increased leakage rate has resulted in a noticeable increase in Strontium levels in the immediate vicinity of the fuel pool as discussed further in **Section 3.5.2** below.

3.5.1 Unit 2 Tritium Plume Attenuation

Qualitative Evaluation

From a qualitative perspective, a reduction in overall Tritium activity in the Unit 2 plume can be seen through a comparison of the Q3 2009 delineated boundary (**Figure 6**) to those in prior reports. Not only have Tritium levels within the plume generally shown an overall, long-term decreasing trend, but the reductions have recently become particularly evident in the delineated shaded bounds of the plume. As is clear this quarter and in Q2 2009, the shaded plume[51] no longer extends to the river as it did in previous quarters through Q1 2009. In fact, the shaded boundary now terminates upgradient of MW-37, over two hundred feet from the river. This trend over time has been summarized on **Figure 6A**, which is a compilation of the quarterly Tritium plume maps as well as that from the Investigation Report.

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[50] As of late 2008, all the fuel rods have been removed from the Unit 1 SFPs and the pool water has been drained. As such, the Unit 1 SFPs is no longer an active source of radionuclides to the subsurface.

[51] The plume shading on **Figure 6** demarks the estimated boundary that separates Tritium levels greater than 5,000 pCi/L from those below this value. This plume delineation boundary value equates to one-quarter of the drinking water standard for Tritium. Although GZA emphasizes that drinking water standards (USEPA MCLs) do not apply to the IPEC property given that there are no drinking water sources on or proximate to the site, the MCLs do provide a useful benchmark for comparisons of relative human risk. Where yearly rolling average radionuclide activity data were available for multiple depths at a given location, GZA used the highest value to develop plume delineations. This is a typical approach to represent three-dimensional contaminant data sets on two-dimensional maps.

Mann-Kendall Quantitative Analysis

To more quantitatively evaluate MNA progress, a Mann-Kendall analysis, as referenced in USEPA Guidance for Data Quality Assessment – Practical Methods for Data Analysis,[52] was performed on the Tritium levels measured during Q3 2009 at monitoring locations associated with the IP2-SFP and downgradient Unit 2 Tritium plume. This statistical technique was chosen because it is particularly well suited for data sets with a limited number of points. Each of the vertical monitoring intervals at each monitoring installation location was analyzed separately. In general, only data collected after final completion of the multi-level installation[53] was used. However, there were a number of exceptions to this generalization where open borehole and/or borehole packer testing data were also used. These data were incorporated where possible given the importance of early time data (proximate to when documented leaks were still active). Additional, more detailed discussion relative to the basis for these analyses is provided in Section 3.6 of the Q1 2009 Quarterly LTM Report.

Graphs showing the variation in Tritium concentration over time in the immediate vicinity of the Unit 2 SFP are presented as **Figures G-1**, **G-2** and **G-3** in **Appendix G**, for MW-30, 31 and 32, respectively. Additional graphs are also presented in the appendix for the other monitoring locations downgradient of the Unit 2 SFP (see **Figures G-4** through **G-14** for MW-33 through 37, 42[54], 49, 50, 53[55] 55 and 111)[56].

The Mann–Kendall analyses for the individual monitoring points are summarized on **Table G-1** in **Appendix G**. The table includes the results of the analysis for each depth interval ("well") at each of the multi-level monitoring locations enumerated above. The table is color coded, with green shading designating wells showing a decreasing trend, yellow for no trend, and red for an increasing trend.

Comparison of T**able G-1** for Q3 2009 to that from Q2 2009 demonstrates that there have been no major changes. Of the 32 intervals included on the table for Q3 2009, approximately two-thirds (20) show a decreasing trend, as compared to 23 intervals last quarter. It is important to note that this group of "decreasing wells" includes all those located within the core of the plume with the highest Tritium concentrations (MW-30-69, MW-33 and MW-111, with historic yearly

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[52] USEPA Guidance for Data Quality Assessment – Practical Methods for Data Analysis, EPA QA/G9, QA00 UDATE; EPA/600/R-96/084, July, 2000.

[53] Each borehole was completed as a multi-level installation. These multi-level completions were designed to segregate the borehole length into individual sampling zones with depth. The sampling zones were generally established to coincide with the more productive zones of the fractured bedrock and overburden (both natural soils and backfill). These sampling zones were then isolated from each other with various types of seals placed in the open borehole. The objective of the seals is to prevent vertical flow through the borehole and thus establish the same conditions in the formation which existed prior to the drilling of the borehole. As such, the Tritium data is considered depth-discrete. It is noted that the multi-level installations at some monitoring locations were removed and replaced with upgraded systems, such as for the monitoring installation at MW-32.

[54] MW-42 and MW-53 are located downgradient of the Unit 1 SFPs, rather than the Unit 2 SFP. However, these two wells were included in the analyses, as requested by NRC, due to the apparent contribution of Unit 2 SFP Tritium to the Unit 1 groundwater flow regime via vadose zone transport (see **Figure 6**). It is noted that any decreasing Tritium trend in this area due to the termination of leaks from the Unit 2 SFP could be masked by increased leakage of Tritiated water from the Unit 1 SFPs up through the completion of defueling in November 2008.

[55] MW-42 and MW-53 are located downgradient of the Unit 1 SFPs, rather than the Unit 2 SFP. However, these two wells were included in the analyses, as requested by NRC, due to the apparent contribution of Unit 2 SFP Tritium to the Unit 1 groundwater flow regime via vadose zone transport (see **Figure 6**). It is noted that any decreasing Tritium trend in this area due to the termination of leaks from the Unit 2 SFP could be masked by increased leakage of Tritiated water from the Unit 1 SFPs up through the completion of defueling in November 2008.

[56] Monitoring locations MW-66 and MW-67, also located downgradient of the Unit 2 SFP, could not be included in the analyses because the data sets for these two wells do not yet include the recommended minimum number of data points (ten) for the Mann–Kendall analysis method.

average Tritium concentrations > 40,000 pCi/L). These high-concentration wells better represent overall plume behavior because they encompass a great percentage of the Tritium activity in the plume.

Of the 11 wells shaded in yellow (exhibiting "no trend"), only 6 provide valid representations (as shaded) of Unit 2 plume behavior. The shading designation for the others cannot be used to infer conclusions relative to plume trends for Unit 2 based on this analysis, as follows:

- Three (MW-42-49, MW-42-78, and MW-53-82) are located downgradient of the Unit 1 SFPs, rather than the Unit 2 SFP, and therefore are not yet expected to show a decreasing trend due to Unit 1 defueling[57] and the previously discussed U1 FSB valve leak.
- Inspection of the graph for MW-36-24 **(Figure G-7**) shows a rapid and large decrease in Tritium concentrations at early times in this overburden (discharge canal backfill) well (from > 30,000 pCi/L to <3,000 pCi/L). This large decrease is followed by a number of small perturbations around a relatively flat trend. While it is visually clear that this well has shown a major decrease in Tritium levels since containment of the 2005 shrinkage crack leak, the Mann–Kendall analysis only evaluates number of increases relative to decreases and does not weight the analysis relative to the magnitude of the change. As such, visual inspection demonstrates that this location actually exhibits an overall decreasing trend, even though the analysis results in a no trend designation (yellow shading on table).
- Inspection of the graph for MW-55-35 (**Figure G-13**) shows a distinctly decreasing trend in Tritium concentrations at early times, followed by relatively stable Tritium levels through the present quarter. Because the Mann-Kendall analysis does not incorporate the magnitude of decrease or increase in data, small perturbations during the relatively stable portion of the time series have resulted in a no trend designation. The data (and a visual inspection of **Figure G-13**) demonstrate that Tritium levels have decreased from >9,000 pCi/L to relatively stable concentrations of ~2,500 pCi/L over the monitoring period.

It is noted that five of the six remaining "no trend" wells are all associated with the shallow sampling ports of two monitoring locations: MW-31, and MW-32. These two locations are actually not located downgradient of the Unit 2 SFP from a saturated groundwater flow standpoint. Rather, they are generally located up- and cross-gradient[58]. Interval MW-31-85 is also part of this group of upgradient wells. This is the only well for which the Mann-Kendall analysis indicates an increasing trend. The upper-most interval in both MW-31 and MW-32 have shown an additional abrupt increase in Tritium over the last three quarters (Q1 through Q3 2009). The current and historic variability in these data can be explained by either: 1) an ongoing small episodic (< 5L/day) leak in the Unit 2 SFP; 2) a "Retention Mechanism" in the saturated and unsaturated zones under the SFP that can retain substantial volumes of highly

[57] MW-42 and MW-53 are located downgradient of the Unit 1 SFPs, rather than the Unit 2 SFP. However, these two wells were included in the analyses due to the historic hypothesis that the Unit 2 SFP contributes Tritium to the Unit 1 groundwater flow regime via vadose zone transport (see the graphic representation in **Figure 6** herein and the discussion in the Hydrogeologic Site Investigation Report). It is noted that any decreasing Tritium trend in this area due to the termination of leaks from the Unit 2 SFP could be masked by increased leakage of Tritiated water from the Unit 1 SFPs up through the completion of defueling in November 2008, and then thereafter via the Retention Mechanism(s).

[58] While not downgradient of the SFP from a groundwater flow perspective, Tritium leakage from the SFP can still migrate to these locations via vadose zone transport above the water table along dipping bedrock fractures. During the site investigation work, a tracer test was performed which clearly demonstrated that water released proximate to the SFP foundations (adjacent to MW-30) does migrate to the east and south past MW-31 and MW-32 prior to entering the water table, and then flows with the groundwater through these wells and then to the river to the west. This vadose zone migration mechanism is discussed more fully in the Hydrogeologic Site Investigation Report.

Tritiated water (e.g., historic SFP leakage) for substantial amounts of time[59]; and/or 3) a combination of the above[60]. While Tritium concentrations in the groundwater plume could be impacted by both an ongoing leak and the Retention Mechanisms cited above, tracer concentrations in the groundwater cannot be replenished by SFP leakage. As discussed in further detail in Section 3.6 of the Q1 2009 Quarterly Monitoring Report, the original and updated tracer data strongly support a Retention Mechanism explanation. In addition, it would be expected that Tritium release from the Retention Mechanisms would be episodic, for example as associated with periods of increased infiltration from precipitation. Such episodic releases would be expected to result in the peaks in Tritium concentrations observed.

The sixth and final remaining interval reported as "no trend", MW-30-84, is located immediately next to the SFP and generally downgradient of MW-31-85 (interval with increasing trend). While the Mann Kendall analysis yields no trend for this interval over the full monitoring time frame, the interval actually appears to exhibit a slightly increasing trend beginning in the late fall of 2008. The specific reason for this increase is not known, but it is worth noting that the Tritium activity in this interval is over an order of magnitude below that of the interval immediately above (MW-30-69), which shows a decreasing trend. The trend in MW-30-84 may be reflective of that in MW-31-85, both of which are being subjected to added scrutiny through more frequent monitoring.

Based on the evaluation summarized above, the Mann-Kendall analyses of the individual depth intervals within the groundwater monitoring installations located proximate to and downgradient of the Unit 2 SFP overwhelmingly support a conclusion that the Tritium plume has exhibited an overall decreasing trend with time since monitoring began. However, it is noted that as the rapidly decreasing trends in Tritium activity give way to much more slowly decreasing trends as an asymptote is approached, the variability of the Tritium sampling results due to hydrogeologic and laboratory variability are likely to result in more "no trend" classifications based on the Mann-Kendall analysis. Therefore, identification of another, more appropriate method is being investigated, particularly as the total LTMP data set becomes more robust with time.

Tritium Plume Total Activity Analysis

As discussed above, the individual well trend data, when viewed collectively, support a conclusion that the Tritium plume concentrations have been decreasing with time since monitoring began. Another method to analyze plume behavior is to compute the total Tritium activity in the plume at multiple snapshots over time. This procedure[61] was implemented for each quarterly Long Term Monitoring sampling round from Q2 2007 to Q3 2009. In addition, the bounding Tritium concentrations from Figure 8.1 of the Hydrogeologc Site Investigation Report[62] have also been included as a starting point for the graph. These data are summarized as a histogram on **Figure G-15** in **Appendix G**.

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[59] This hypothesized "Retention Mechanism" is supported by our understanding of the construction methods used for the IP2-SFP and adjacent structures, evaluations of contaminant concentration variability trends over short timeframes and precipitation events, as well as the original tracer test results, as further described in Sections 7.0 and 8.0 of the Hydrologic Site Investigation Report.

[60] It is also recognized that the potential exists for a fourth potential source of Tritium; that is any other leak or spill above the upgradient portions of the Unit 2 Tritium plume (such as the distillate tank valve leak discussed in **Section 3.4** above).

[61] The individual sampling point Tritium concentrations were multiplied by the groundwater volumes in representative zones (discretized over area and depth), as computed using soil and bedrock effective porosities developed from the pumping and tracer tests (see the Hydrogeologic Site Investigation Report for further information).

[62] Hydrogeologic Site Investigation Report, January 7, 2008, prepared by GZA GeoEnvironmental, Inc, on behalf of Enercon Services, Inc., for Entergy Nuclear Northeast, Indian Point Energy Center, 450 Broadway, Buchanan, NY 10511.

As can be seen from the figure, the total Tritium activity in the plume downgradient of the Unit 2 SFP has shown a distinctly decreasing trend over time. The total Tritium activity in the plume has decreased 45 percent since Q2 2007, and has decreased by 89 percent when compared to the bounding level Tritium concentrations. In addition, it is also important to note that the graph continues to appear to be approaching a horizontal asymptote[63]. This general "first order" plume decay is what would be expected for a plume undergoing Monitored Natural Attenuation after source termination.

Conclusion- Unit 2 Tritium Plume MNA

Based on the data and analyses provided above, our conclusion is that the Tritium plume is undergoing overall, long-term reductions in activity which are consistent with Monitored Natural Attenuation (MNA), the remedial technology selected for the IPEC Site. Given this conclusion and the recognition that Entergy has terminated all identified leaks in the Unit 2 SFP, the Unit 2 Tritium plume satisfies the requirements for Monitored Natural Attenuation.

Further justification for this conclusion can be found in Section 3.6 of the Q1 2009 Quarterly Monitoring Report as well as the Hydrogeologic Site Investigation Report.

3.5.2 Unit 1 Strontium Plume Attenuation

Despite the effects of partitioning, as discussed above, the overall Strontium activity within the Unit 1 plume had generally shown some attenuation in response to the West Pool demineralization activities conducted by Entergy in preparation for defueling. This work began in 2006 and resulted in an approximately 98% reduction in Strontium in the West Pool (see **Figure 7A**: U1-NCD, U1-SFDS, MW-42, U1-CSS). However, the final defueling of the Unit 1 SFPs has resulted in a noticeable increase in Strontium levels proximate to the SFPs (U1-NCD, U1-SFDS, MW-42, and U1-CSS), as well as initial indications of increases in the Strontium plume levels downgradient (MW-53, MW-55 MW-54, MW-57, MW-50, and MW-37). This is as was predicted given the requirement to temporarily raise the pool levels for fuel rod removal, thus increasing the leakage rate from the SFPs[64].

The data for Q3 2009 indicate that the overall Strontium levels continued to exhibit a general decrease and have now reached pre-defueling levels in the immediate vicinity of the pool (U1-NCD, MW-42 and potentially MW-53). These monitoring locations would be expected to be the first to reflect the complete decommissioning of the SFPs given their location/function. The U1-SFDS, which is located further from the West Pool, has also begun to show a decreasing trend from Q2 2009 to Q3 2009.

Farther downgradient, the Q3 2009 data appear to be showing an increasing trend in Strontium activity as the previous increase in U1-SFPs leakage works its way towards the river. This behavior is most evident at monitoring locations U1-CSS, MW-37, MW-55 and MW-57[65]. MW-54 and MW-50, however, appear to already be exhibiting a decreasing trend, even though they

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[63] A horizontal asymptote could indicate that a persistent, unidentified leak still remains in the Unit 2 SFP. With Tritium at approximately 30,000,000 pCi/L in the SFP, a leak rate directly from the pool of only approximately 10 L/day would be sufficient to provide the required Tritium input to the groundwater. However, the available data do not appear to support a conclusion of such a leak. The rational underlying this conclusion is discussed more fully in Section 3.6 of the Q1 2009 Quarterly Monitoring Report. In addition, the resumption of a more rapid decrease in total Tritium levels during Q2 2009 and Q3 2009 also provides strong support for this conclusion.

[64] As of late 2008, all the fuel rods have been removed from the Unit 1 SFPs and the pool water has been drained. As such, the Unit 1 SFPs is no longer an active source of radionuclides to the subsurface.

[65] Based on Q2 2009 data; this installation is sampled annually.

are progressively farther downgradient than the wells cited above. This behavior serves to again emphasize that the IPEC Site is located in a bedrock fracture controlled hydrologic regime[66]. As such, this type of localized "distance-based inconsistency" is to be expected and likely indicates that these wells are closer to (or within) the more pervious preferential flow pathway that is hypothesized to be responsible for the convergence and narrowing of the Tritium and Strontium plumes as they move toward the river from sources centered at widely spaced locations upgradient[67].

Farther downgradient, in the vicinity of the river, there are no peaks in Strontium activity that can be clearly attributed to the Unit 1 defueling, perhaps with the exception of a mid-depth monitoring interval in MW-62 (MW-62-138). This depth interval in particular (along with, but to a lesser extent the shallower intervals in overburden) appears to show a distinctly increasing trend in Q1 2009 followed by a steady decrease over the past two quarterly monitoring events. However, it is believed that this location is less likely to be responding to Unit 1 defueling given that it does not appear to be proximate to (or within) the preferential flow path cite above.

From an overall, long-term perspective, it is expected that the levels somewhat more downgradient of the pool than MW-42 (e.g., U1-SFDS) will continue to decrease to pre-defueling levels similar to U1-NCD and MW-42. Strontium levels farther downgradient of the pool are expected to increase as this additional Strontium-contaminated water flushes through the groundwater flow system. It is expected that this flushing mechanism will be protracted given the aforementioned impact of partitioning on Strontium levels in the groundwater. However, over time it is expected that downgradient Strontium plume levels will also resume an overall downward trend once this perturbation has passed through the system; decreasing trends are expected and predicted given that Entergy has terminated all leaks in the Unit 1 SFPs through decommissioning and the Unit 1 Strontium plume continues to decreases in accord with Monitored Natural Attenuation. Given this conclusion and the recognition that Entergy has terminated all identified leaks in the Unit 1 SFPs through decommissioning, the Unit 1 Strontium plume satisfies the requirements for Monitored Natural Attenuation.

[66] While groundwater flow through the fractured bedrock at the IPEC Site is highly preferential at small areal scales, it is characterized by sufficiently interconnected small bedrock fractures to allow the hydrogeologic system to function and be modeled as a non-homogeneous, anisotropic, porous media at Site-wide scales.

[67] By way of contrast, in a porous media flow regime, the centerlines of plumes that start at widely spaced locations (spaced perpendicular to the groundwater flow path) will typically remain widely spaced (although the edges of the plumes will likely move closer as the plumes get wider through dispersion). In the case of fracture flow at IPEC however, not only do the Strontium and Tritium plume centerlines converge, but the plumes also get narrower as they move downgradient. In addition, MW-50 displays high relative Strontium concentrations and fault gouge was encountered during the drilling of this well. These behaviors/data are hallmark signatures of a more highly fractured zone preferentially controlling groundwater flow and thus the migration of the contaminants therein (see the Site Hydrologic Investigation Report for further CSM-focused discussion of this issue).

4.0 CONCLUSIONS AND PLANNED ACTIVITIES

In summary, based on the data collected to date, the apparent strength of the CSM to evaluate that data, and the completion of source interdictions by Entergy, we believe all Program Objectives (see Section 3.0) are being met. These objectives are consistent with and fully encompass the guidance provided in the NEI Groundwater Protection Initiative (GPI).

Based on the specific results and evaluation of the Q3 2009 groundwater monitoring within the context of the Long Term Monitoring Program, IPEC plans to continue routine groundwater sampling and related maintenance. This work will be conducted in accordance with the IPEC Radiological Groundwater Monitoring Program IP-SMM-CY-110, and will incorporate the enhancements described herein.

More specifically, evaluation of data collected during Q3 2009 has shown the following:

- While I.L.s have been met at a number of locations this quarter, there is no definitive evidence of new leaks from the Systems, Structures, or Components monitored, with the exception of the anticipated additional leakage from the Unit 1 SFPs during the 2008 activities, the identified and repaired leakage from the waste distillation tank valves within the Unit 1 FSB in Q1 2009, and the transient surficial Tritium release to Unit 3 Manhole A2 in Q2 2009.
    - Based on past work, additional leakage was expected during the raising of water levels in the Unit 1 SFPs for final fuel removal to ISFSI storage. Unit 1 SFPs leakage was terminated with the drainage and sealing of the pools. This previous, transient leakage was initially verified as pronounced increases in Strontium and Cesium in the monitoring locations closest to Unit 1, and continues to be monitored.
    - The Q1 2009 leakage from the waste distillation tank valves was independently[68] identified based on an increase in Tritium levels in monitoring installation MW-42 proximate to the tanks. These valves were immediately repaired. The impact of this release over time and downgradient will be specifically scrutinized during subsequent monitoring rounds. Elevated Tritium activity was detected in Unit 3 Manhole A2 during routine 80-10 Effluents Program sampling during Q2 2009. This manhole is located proximate to the Unit 3 FSB. Subsequent re-sampling of this manhole shows rapidly decreasing Tritium activity, indicating that this was a one-time transient event. This elevated Tritium was also detected in a proximate groundwater monitoring installation (MW-45), likely due to exfiltration of Tritium from the manhole; the Tritium levels in this well have also returned to previous historic trends. While the specific root source of the elevated Tritium is still unclear at this time, Entergy has formulated a plan to investigate a suspected SFP seasonal vapor depositional source.

As such, these data support the validity of the current CSM for use as a basis for Long Term Monitoring Program design. It is further noted that, while a portion of these three documented localized leakage events traveled directly to the saturated groundwater regime and resulted in the observed transient "peaks" in radionuclide levels, additional portions of these releases likely remain above the water table as recharge to the various Retention Mechanisms. This additional

[68] The valve leakage was initially identified during routine visual inspection rounds and immediately repaired. Given that the leak was within the Unit 1 FSB structure, it was documented in a Condition Report under Entergy's Corrective Action Program. This valve leak and repair subsequently came to light within the GPI program during investigations into the cause of the abrupt increase in Tritium levels in MW-42. Additional emphasis has therefore been placed on routine review of these reports as they potentially relate to GPI objectives.

unsaturated zone source recharge will likely be manifested in the future as additional non-specific peaks in radionuclide levels due to episodic releases to the groundwater flow regime from these mechanisms (e.g., from intense/prolonged precipitation events).

- Based on the Q3 2009 data, as well as that collected during previous quarters , it currently appears that the Tritium I.L.s originally established are somewhat too sensitive relative to natural seasonal/precipitation-driven transient variations in radionuclide activities, as well as the variability inherent in the laboratory analyses. Relative to Strontium from the Unit 1 SFPs, the increases in activity in a number of monitoring points, due to the previous Unit 1 defueling activities, limit our ability to establish Strontium baseline levels for assessment of new I.L.s pursuant to the Monitored Natural Attenuation (MNA) of this plume. It is anticipated that this additional Strontium activity will take a number of quarters to flush through the groundwater flow system and attenuate to reasonably stable levels. As such, the originally established I.L.s will continue to be used until sufficient data is collected to allow re-evaluation of I.L. levels for the radionuclides of interest.
- As discussed in the Q2 2009 report, GZA believes that sufficient seasonal/yearly data had been collected through Q2 2009 (nine quarters of data[69]) to allow recalibration of the Precipitation Mass Balance Model. This Model, as used to compute groundwater flux through the Site as part of the radionuclide dose computation, was therefore recalibrated during Q2 2009. To be conservative, the model was recalibrated to the quarter yielding the highest, rather than average, computed dose (Q4 2008 Darcy calculations). This will result in a high, conservative bias to the dose computation for this quarter (Q3 2009), as well as all subsequent quarters going forward.
- From both qualitative and quantitative perspectives, the most recent quarterly data (Q3 2009) provides further support to the conclusion that the overall Tritium activity in the Unit 2 plume is decreasing. These reductions have become particularly evident on the more recent quarterly report **Figures 6** and **6A** where the shaded plume[70] no longer extends to the river as it did prior to Q2 2009. It is further visually evident from **Figure 6A** that the core of the plume (with quarterly rolling average activities greater than 100,000 pCi/L and 2007 bounding core activities greater than 250,000 pCi/L) has also shown a marked decrease in concentration and extent. Based on the data and analyses provided above, our conclusion is that the Tritium plume is undergoing long-term, overall reductions in activity which are consistent with Monitored Natural Attenuation (MNA), the remedial technology selected for the IPEC Site. Given this conclusion, and the recognition that Entergy has terminated all identified leaks in the Unit 2 SFP[71], the Unit 2 Tritium plume satisfies the requirements for Monitored Natural Attenuation.

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[69] After reviewing the groundwater elevation and precipitation data from the Indian Point meteorological station over the time period from Q2 2007 to Q2 2009, it was concluded that sufficient seasonal data had been collected to encompass the majority of the precipitation variability observed over the last fourteen years (fifty-six quarters); see analysis in Appendix H of the Q2 2009 LTM Report.

[70] The plume shading on **Figure 6** demarks the estimated boundary that separates Tritium levels greater than 5,000 pCi/L from those below this value. This plume delineation boundary value equates to one-quarter of the drinking water standard for Tritium. Although GZA emphasizes that drinking water standards (USEPA MCLs) do not apply to the IPEC property given that there are no drinking water sources on or proximate to the site, the MCLs do provide a useful benchmark for comparisons of relative human risk. Where yearly rolling average radionuclide activity data were available for multiple depths at a given location, GZA used the highest value to develop plume delineations. This is a typical approach to represent three-dimensional contaminant data sets on two-dimensional maps.

[71] Further justification for this conclusion can be found in Section 3.6 of the Q1 2009 Quarterly Monitoring Report as well as the Hydrogeologc Site Investigation Report. The Q1 2009 Report summarizes additional, more quantitative analyses that have been completed to further investigate the integrity of the Unit 2 SFP. These analyses provide further support for the original conclusion that the Unit 2 SFP is no longer leaking. However, these analyses cannot definitively rule out the possibility of a remaining small

- The overall Strontium activity within the Unit 1 plume had generally been stable or decreasing in response to the West Pool demineralization activities conducted by Entergy beginning in 2006. However, the final defueling of the Unit 1 SFPs resulted in an initial, noticeable increase followed by a commensurate decrease in Strontium levels proximate to the SFPs, with current indications of increases in the downgradient Strontium levels (see **Figure 7** and **7A**). This is as was predicted given the requirement to temporarily raise the pool levels for rod removal, thus increasing leakage rate from the SFPs[72]. As anticipated, the levels proximate to the pool have recently decreased to pre-defueling Strontium levels, and levels downgradient of the pool are increasing as this additional Strontium-contaminated water flushes through the groundwater flow system. It is expected that this flushing mechanism will be protracted given the aforementioned impact of partitioning on Strontium levels in the groundwater. However, over time it is expected that downgradient Strontium plume levels will also resume an overall downward trend once this perturbation is finished passing through the system. Given this conclusion and the recognition that Entergy has terminated all identified leaks in the Unit 1 SFPs through decommissioning, the Unit 1 Strontium plume satisfies the requirements for Monitored Natural Attenuation. However, as indicated above, the establishment of updated I.L.s for the Unit 1 Strontium plume must await return to the original Strontium baseline levels existing prior to Unit 1 defueling.

leak which could then also be supplying Tritium to the groundwater flow regime in addition to the Retention Mechanism(s). While it is not possible to quantify the size the minimum detectable leak with any degree of certainty, we believe that the maximum leak rate from the Unit 2 SFP that could potentially remain undetected by the groundwater monitoring system is less than 10 to 30 gpd (0.007 to 0.021 gallons per minute). It is also likely that if a small leak exists in the Unit 2 SFP liner, it should not get worse with time, as based on liner evaluations previously conducted by Entergy. It is further emphasized that while a leak of less than 0.02 gallons per minute should be large enough to be readily detectable with the existing Long Term Monitoring Program, this amount of Tritium release to the river is still small compared to permitted levels of Tritium discharge to the river through the Discharge Canal.

[72] As of late 2008, all the fuel rods have been removed from the Unit 1 SFPs and the pool water has been drained. As such, the Unit 1 SFPs is no longer an active source of radionuclides to the subsurface.

TABLES

TABLE 1
GROUNDWATER SAMPLING METHODS, EQUIPMENT, FREQUENCY AND DEPTHS
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	Sampling Method	Sampling Equipment Used	Projected 2009 Sampling Frequency[2]	SAMPLING INTERVAL[3]				SAMPLING DEPTH[4]	
				Ft Below Top of Casing		Elevation in Feet msl			
				Top	Bottom	Top	Bottom	Feet Below TOC	Elevation in Feet msl
MW-30-69	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	67.3	71.3	8.4	4.4	69.3	6.4
MW-30-84	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	77.3	85.4	-1.6	-9.5	83.8	-8.1
MW-31-49	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	34.8	49.3	40.8	26.3	48.8	26.8
MW-31-63	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	55.3	63.8	20.3	11.8	63.3	12.3
MW-31-85	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	69.8	85.4	5.8	-9.6	84.8	-9.2
MW-32-59	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	28.3	61.3	48.8	15.8	58.8	18.3
MW-32-85	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	79.3	92.8	-2.2	-15.7	85.3	85.3
MW-32-131	Waterloo Low Flow	Waterloo Multilevel System	Inactive	125.8	138.3	-48.7	-61.2	130.8	-53.7
MW-32-149	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	125.8	156.8	-70.2	-79.7	149.3	-72.2
MW-32-173	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	165.8	174.3	-88.7	-97.2	172.8	-95.7
MW-32-190	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	180.3	193.9	-103.2	-116.8	190.3	-113.7
MW-33	Low Flow	Peristaltic Pump	Annually	8.0	30.0	10.6	-11.7	16	2.8
MW-34	Low Flow	Peristaltic Pump	Inactive	5.0	30.0	13.5	-11.5	16.5	2.0
MW-35	Low Flow	Peristaltic Pump	Annually	6.5	30.0	12.1	-11.4	15.0	3.6
MW-36-24[5]	Low Flow	Peristaltic Pump	Quarterly	11.0	24.0	0.8	-12.2	17.0	-5.2
MW-36-41	Low Flow	Peristaltic Pump	Inactive	36.0	41.0	-24.2	-29.2	37.0	-25.2
MW-36-52	Low Flow	Peristaltic Pump	Quarterly	48.0	53.0	-36.2	-41.2	50.0	-38.2
MW-37-22	Low Flow	Peristaltic Pump	Quarterly	12.0	22.0	3.0	-7.0	17.0	-2.0
MW-37-32	Low Flow	Peristaltic Pump	Quarterly	28.0	32.5	-13.0	-17.5	29.0	-14.0
MW-37-40	Low Flow	Peristaltic Pump	Quarterly	38.5	40.5	-23.5	-24.5	39.0	-24.0
MW-37-57	Low Flow	Peristaltic Pump	Quarterly	52.0	57.0	-37.0	-42.0	55.0	-40.0
MW-38	Low Flow	Peristaltic Pump	Inactive	5.0	40.0	9.3	-25.7	25.4	-11.1
MW-39-67	Waterloo Low Flow	Waterloo Multilevel System	Bi-Annually	65.0	70.5	15.0	9.5	67.0	13.0
MW-39-84	Waterloo Low Flow	Waterloo Multilevel System	Bi-Annually	76.5	85.0	3.5	-5.0	83.5	-3.5
MW-39-102	Waterloo Low Flow	Waterloo Multilevel System	Bi-Annually	93.0	103.0	-13.0	-23.0	101.5	-21.5
MW-39-124	Waterloo Low Flow	Waterloo Multilevel System	Bi-Annually	115.0	126.5	-35.0	-46.5	124.0	-44.0
MW-39-183	Waterloo Low Flow	Waterloo Multilevel System	Bi-Annually	169.5	186.0	-89.5	-106.0	182.5	-102.5
MW-39-195	Waterloo Low Flow	Waterloo Multilevel System	Bi-Annually	193.0	198.6	-113.0	-118.4	195.0	-115.0
MW-40-27	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	18.2	35.2	55.0	38.0	26.7	46.5
MW-40-46	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	44.2	53.7	29.0	19.5	46.2	27.0
MW-40-81	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	64.7	84.2	8.5	-11.0	80.7	-7.5
MW-40-100	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	93.2	106.7	-20.0	-33.5	100.2	-27.0
MW-40-127	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	125.2	136.7	-52.0	-63.5	127.2	-54.0
MW-40-162	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	158.7	190.3	-85.5	-116.9	161.7	-88.5
MW-41-40	Low Flow	Peristaltic Pump	Bi-Annually	22.0	42.0	32.9	12.9	36.0	18.9
MW-41-63	Modified Well Vol. Purge	Waterra Pump	Bi-Annually	59.0	64.0	-4.1	-9.1	61.0	-6.1
MW-42-49	Modified Well Vol. Purge	Submersible Pump	Quarterly	31.0	51.0	38.7	18.7	41.0	28.7
MW-42-78	Modified Well Vol. Purge	Waterra Pump	Quarterly	69.0	79.0	0.7	-9.3	74.0	-4.3
MW-43-28	Low Flow	Submersible Pump	Bi-Annually	8.0	28.0	40.8	20.7	23.0	25.8
MW-43-62	Low Flow	Submersible Pump	Bi-Annually	42.0	62.0	6.8	-13.2	54.0	-5.2
MW-44-66	Modified Well Vol. Purge	Submersible Pump	Quarterly	52.0	67.0	41.5	26.5	63.0	30.5
MW-44-102	Modified Well Vol. Purge	Waterra Pump	Quarterly	79.0	104.0	14.5	-10.5	80.0	13.5
MW-45-42	Modified Well Vol. Purge	Peristaltic Pump	Quarterly	27.5	42.5	26.2	11.2	37.0	16.6
MW-45-61	Modified Well Vol. Purge	Peristaltic Pump	Quarterly	51.5	61.5	2.2	-7.8	58.0	-4.4
MW-46	Modified Well Vol. Purge	Submersible Pump	Quarterly	6.0	30.0	12.1	-11.9	10.5	7.6
MW-47-56	Low Flow	Submersible Pump	Inactive	36.0	56.0	34.3	14.3	52.0	18.3
MW-47-80	Modified Well Vol. Purge	Waterra Pump	Inactive	70.0	80.0	0.3	-9.7	72.0	-1.7

See Page 3 for Notes

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INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	Sampling Method	Sampling Equipment Used	Projected 2009 Sampling Frequency[2]	SAMPLING INTERVAL[3]				SAMPLING DEPTH[4]	
				Ft Below Top of Casing		Elevation in Feet msl			
				Top	Bottom	Top	Bottom	Feet Below TOC	Elevation in Feet msl
MW-48-23	Low Flow	Peristaltic Pump	Inactive	8.0	23.0	7.4	-7.6	15.8	-0.4
MW-48-37	Low Flow	Peristaltic Pump	Inactive	33.0	38.0	-17.6	22.6	35.8	-20.4
MW-49-26	Low Flow	Peristaltic Pump	Quarterly	15.0	25.0	-0.3	-10.4	20.0	-5.3
MW-49-42	Low Flow	Peristaltic Pump	Quarterly	32.0	42.0	-17.4	-27.4	37.0	-22.3
MW-49-65	Low Flow	Peristaltic Pump	Quarterly	60.0	65.0	-45.4	-50.4	61.0	-46.4
MW-50-42	Low Flow	Peristaltic Pump	Quarterly	22.0	42.0	-7.1	-27.1	27.0	-12.1
MW-50-66	Low Flow	Peristaltic Pump	Quarterly	62.0	67.0	-47.1	-52.1	60.0	-45.1
MW-51-40	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	29.7	44.2	38.0	23.5	39.7	28.0
MW-51-79	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	63.2	81.2	4.5	-13.5	78.7	-11.0
MW-51-104	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	101.2	111.2	-33.5	-43.5	103.7	-36.0
MW-51-135	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	130.2	143.7	-62.5	-76.0	135.2	-67.5
MW-51-163	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	154.7	166.2	-87.0	-98.5	162.7	-95.0
MW-51-189	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	184.2	197.8	-116.5	-129.9	189.2	-121.5
MW-52-11	Modified Well Vol. Purge	Peristaltic Pump	Annually	2.0	12.0	14.8	4.8	10.0	6.8
MW-52-18	Waterloo Low Flow	Waterloo Multilevel System	Annually	10.0	30.0	4.9	-15.1	17.5	-2.6
MW-52-48	Waterloo Low Flow	Waterloo Multilevel System	Annually	48.0	56.0	-33.1	-41.1	48.0	-33.1
MW-52-64	Waterloo Low Flow	Waterloo Multilevel System	Annually	59.0	71.5	-44.1	-56.6	64.0	-49.1
MW-52-122	Waterloo Low Flow	Waterloo Multilevel System	Annually	110.5	123.5	-95.6	-108.6	122.0	-107.1
MW-52-162	Waterloo Low Flow	Waterloo Multilevel System	Annually	154.5	164.0	-139.6	-149.1	161.5	-146.6
MW-52-181	Waterloo Low Flow	Waterloo Multilevel System	Annually	171.0	198.1	-156.1	-183.0	181.0	-166.1
MW-53-82	Low Flow	Submersible Pump	Quarterly	62.0	82.0	8.3	-11.7	75.0	-4.7
MW-53-120	Modified Well Vol. Purge	Waterra Pump	Quarterly	100.0	120.0	-29.7	-49.7	105.0	-34.7
MW-54-37	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	29.0	42.0	-15.9	-28.9	36.5	-23.4
MW-54-58	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	51.5	64.0	-38.4	-50.9	57.5	-44.4
MW-54-123	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	116.0	126.0	-102.9	-112.9	123.0	-109.9
MW-54-141	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	135.0	155.5	-121.9	-142.4	144.0	-130.9
MW-54-173	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	170.5	182.0	-157.4	-168.9	172.5	-159.4
MW-54-190	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	185.0	203.6	-171.9	-190.3	190.0	-176.9
MW-55-24	Low Flow	Peristaltic Pump	Quarterly	14.0	24.0	4.3	-5.8	16.0	2.3
MW-55-35	Low Flow	Peristaltic Pump	Quarterly	30.0	35.0	-11.8	-16.8	32.0	-13.8
MW-55-54	Low Flow	Peristaltic Pump	Quarterly	44.0	54.0	-25.8	-35.8	47.0	-28.8
MW-56-53	Modified Well Vol. Purge	Submersible Pump	Bi-Annually	49.2	54.2	21.0	16.0	52.0	18.3
MW-56-83	Modified Well Vol. Purge	Waterra Pump	Bi-Annually	69.9	84.9	0.4	-14.6	74.0	-3.7
MW-57-11	Modified Well Vol. Purge	Peristaltic Pump	Bi-Annually	6.0	11.0	9.0	4.0	10.0	5.0
MW-57-20	Modified Well Vol. Purge	Peristaltic Pump	Bi-Annually	15.5	20.5	-0.5	-5.5	19.0	-4.0
MW-57-45	Modified Well Vol. Purge	Peristaltic Pump	Bi-Annually	30.5	45.5	-15.5	-30.5	40.0	-25.0
MW-58-26	Low Flow	Peristaltic Pump	Bi-Annually	16.0	26.0	-1.4	-11.4	20.0	-5.4
MW-58-65	Low Flow	Peristaltic Pump	Quarterly	50.0	65.0	-35.4	-50.4	54.0	-39.4
MW-59-32	Low Flow	Peristaltic Pump	Inactive	21.0	31.0	-6.5	-16.5	27.0	-12.5
MW-59-45	Low Flow	Peristaltic Pump	Inactive	35.0	45.0	-20.5	-30.5	42.0	-27.5
MW-59-68	Low Flow	Peristaltic Pump	Inactive	53.0	68.0	-38.5	-53.5	58.0	-43.5
MW-60-35	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	24.9	39.4	-12.4	-26.9	34.9	-22.4
MW-60-53	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	45.4	59.4	-32.9	-46.9	53.4	-40.9
MW-60-72	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	66.4	78.9	-53.9	-66.4	72.4	-59.9
MW-60-135	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	124.9	141.4	-112.4	-128.9	134.9	-122.4
MW-60-154	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	147.4	164.9	-134.9	-152.4	154.4	-141.9
MW-60-176	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	170.9	200.4	-158.4	-187.8	175.9	-163.4

See Page 3 for Notes

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				Ft Below Top of Casing		Elevation in Feet msl			
				Top	Bottom	Top	Bottom	Feet Below TOC	Elevation in Feet msl
MW-62-18	Low Flow	Peristaltic Pump	Quarterly	4.7	14.7	10.0	0.0	13.5	1.2
MW-62-37	Low Flow	Peristaltic Pump	Quarterly	33.3	38.3	-18.6	-23.6	34.5	-19.8
MW-62-53	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	49.6	54.1	-36.8	-41.3	53.1	-40.3
MW-62-71	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	61.1	82.6	-48.3	-69.8	71.1	-58.3
MW-62-92	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	88.6	99.1	-75.8	-86.3	91.6	-78.8
MW-62-138	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	126.1	143.6	-113.3	-130.8	138.1	-125.3
MW-62-182	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	177.6	198.7	-164.8	-185.7	182.1	-169.3
MW-63-18	Low Flow	Peristaltic Pump	Quarterly	8.0	18.0	-3.8	-13.8	14.9	0.7
MW-63-34	Low Flow	Peristaltic Pump	Quarterly	30.0	35.0	-15.8	-20.8	31.5	-17.3
MW-63-50	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	41.5	58.0	-29.2	-45.7	49.5	-37.2
MW-63-93	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	81.5	100.5	-69.2	-88.2	93.0	-80.7
MW-63-112	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	106.5	112.0	-94.2	-99.7	111.5	-99.2
MW-63-121	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	118.0	127.5	-105.7	-115.2	121.0	-108.7
MW-63-163	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	150.5	165.0	-138.2	-152.7	162.5	-150.2
MW-63-174	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	168.0	191.1	-155.7	-178.6	174.0	-161.7
MW-66-21	Modified Well Vol. Purge	Peristaltic Pump	Quarterly	7.0	27.0	6.0	-7.0	14.1	0
MW-66-36	Modified Well Vol. Purge	Penstaltic Pump	Quarterly	31.0	36.0	-17.0	-22.0	33.6	-19.5
MW-67-39	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	28.8	54.3	-15.8	-41.3	38.3	-25.8
MW-67-105	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	90.3	110.8	-77.3	-97.8	104.8	-92.3
MW-67-173	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	164.8	188.3	-151.8	-175.3	172.3	-159.8
MW-67-219	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	209.3	229.8	-196.3	-216.8	218.8	-206.3
MW-67-276	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	250.8	281.3	-237.8	-268.3	275.3	-262.8
MW-67-323	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	317.8	328.3	-304.8	-315.3	322.3	-309.8
MW-67-340	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	335.3	347.9	-322.3	-334.9	339.8	-327.3
MW-107	Low Flow	Submersible Pump	Annually	105.1	126.1	34.9	13.9	32.7	110.1
MW-111	Low Flow	Peristaltic Pump	Bi-Annually	11.6	17.1	7.0	1.5	16.5	2.1
U3-4D	Modified Well Vol. Purge	Peristaltic Pump	Quarterly	25.0	27.6	-10.2	-12.8	25.6	-10.8
U3-T1	Low Flow	Peristaltic Pump	Quarterly	0.2	1.2	3.1	2.1	5.7	2.8
U3-T2	Low Flow	Peristaltic Pump	Quarterly	0.6	1.6	2.7	1.7	5.7	2.6
U1-CSS	Low Flow	Penstaltic Pump	Bi-Annually	NA	10.2	NA	4.9	14.0	6.1
LAF-002	Low Flow	NA	Bi-Annually	NA	NA	NA	NA	NA	-22.3
U1-NCD	Grab	NA	Quarterly	NA	NA	NA	NA	NA	NA
U1-SFDS	Grab	NA	Quarterly	NA	NA	NA	NA	NA	NA
MH-5[6]	Grab	NA	Inactive	NA	NA	NA	NA	NA	NA
B-1[6]	Grab	NA	Inactive	NA	NA	NA	NA	NA	NA
B-6[6]	Grab	NA	Inactive	NA	NA	NA	NA	NA	NA

Notes:

1. For nested multi-level monitoring wells. suffix of well ID indicates depth (rounded to nearest foot) from reference point on casing to bottom of well screen. For Waterloo multi-level systems, suffix indicates depth (rounded to nearest foot) from reference point on casing to top of sampling port. Well IDs without a suffix are open bedrock wellbores.
2. Projected sampling frequencies presented for 2009 are subject to change.
3. For nested multi-level monitoring wells, interval includes well screen and sand pack. For Waterloo multi-level systems, interval includes open wellbore between bottom of 1st packer above and top of 1st packer below sampling port. For open bedrock wellbores, interval extends from bottom of casing to bottom of hole.
4. Sampling depths within sampling intervals (i.e. location of pump intake) have been located adjaeent to a transmissive zone where possible.
5. Dot pattern denotes sampling interval is positioned within overburden. Open box indicates sampling interval is in bedrock.
6. These locations are storm drains.

TABLE 2
HISTORIC QUARTERLY LOW TIDE GROUNDWATER ELEVATIONS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID	LOW RIVER TIDE GROUNDWATER ELEVATIONS (Feet msl)									
	Quarter 2[1], 2007	Quarter 3[2], 2007	Quarter 4[3], 2007	Quarter 1[4], 2008	Quarter 2[5], 2008	Quarter 3[6], 2008	Quarter 4[7], 2008	Quarter 1[8], 2009	Quarter 2[9], 2009	Quarter 3[10][11], 2009
HR-1	NA	-0.86	-1.57	-2.15	-1.13	-1.05	-1.69	-3.28	-1.52	-0.27
I-2	50.23	48.62	51.87	53.73	52.11	52.90	50.75	NA	NA	NA
MW-30-69	11.83	11.53	12.00	NA	12.28	11.77	11.71	12.33	11.84	13.76
MW-30-84	12.77	12.47	12.83	NA	13.06	12.68	12.36	13.13	12.82	12.48
MW-31-49	44.09	NA	45.40	47.50	46.14	45.39	44.13	46.44	45.40	-
MW-31-63	41.56	NA	42.71	45.52	43.96	42.17	41.21	44.12	43.20	-
MW-31-85	39.59	NA	40.81	43.19	41.89	40.58	39.64	42.10	40.64	-
MW-32-48	NA	42.12	46.73	48.81	47.77	46.98	45.79	48.08	47.31	-
MW-32-59	NA	41.44	45.99	47.99	46.75	45.72	44.48	46.83	45.62	-
MW-32-85 (MW-32-92)[12]	10.27	12.35	12.78	13.30	13.17	12.30	12.16	12.60	11.61	-
MW-32-131 (MW-32-140)[12]	13.11	11.96	13.21	25.01	15.67	11.34	11.53	11.86	11.06	-
MW-32-149 (MW-32-165)[12]	8.18	9.87	10.06	10.20	10.04	9.71	9.77	10.00	9.18	-
MW-32-173	NA	9.73	9.86	9.92	9.70	9.45	9.45	9.68	8.81	-
MW-32-190 (MW-32-196)[12]	6.74	8.05	7.88	7.88	7.52	7.16	7.05	7.24	6.26	-
MW-33	10.08	9.80	10.38	11.49	11.66	10.55	10.60	11.23	10.52	-
MW-34	9.87	9.82	10.44	11.63	12.03	10.54	10.54	11.25	6.71	-
MW-35	10.03	9.67	10.37	11.65	12.06	10.68	10.68	11.36	NA	-
MW-36-21	8.89	7.31	7.67	6.85	6.86	7.58	9.05	NA	7.25	-
MW-36-41	8.22	NA	NA	NA	NA	NA	NA	NA	NA	-
MW-36-52	7.43	6.43	6.45	6.42	6.29	6.99	7.45	8.12	6.62	-
MW-37-22	5.51	5.15	4.83	4.66	4.18	5.36	5.55	4.45	5.24	-
MW-37-32	5.51	5.07	4.82	4.63	4.05	5.36	5.61	4.55	5.32	-
MW-37-40	5.40	6.83	6.19	6.17	5.95	6.18	6.04	5.46	6.19	-
MW-37-57	7.07	6.23	6.39	6.28	6.07	6.64	7.20	6.50	6.56	-
MW-38	3.01	2.19	1.46	2.22	1.53	2.12	1.22	NA	2.24	-
MW-39-67	NA	NA	26.84	32.20	31.69	25.96	25.21	28.74	NA	-
MW-39-84	NA	NA	26.64	31.94	31.48	25.78	25.12	28.62	NA	-
MW-39-100	NA	NA	26.38	30.99	31.34	25.52	24.79	28.32	NA	-
MW-39-102	NA	NA	26.31	31.56	NA	NA	NA	NA	NA	-
MW-39-124	NA	NA	26.05	28.37	30.67	25.07	24.43	27.74	NA	-
MW-39-183	NA	NA	25.28	29.74	29.83	22.33	23.79	26.78	NA	-
MW-39-195	NA	NA	24.36	28.80	28.89	23.35	22.70	25.63	NA	-
MW-40-27	NA	NA	55.46	60.39	59.99	54.70	54.22	59.53	57.25	58.75
MW-40-46	NA	47.27	53.19	59.35	59.09	52.57	52.35	59.13	56.56	-
MW-40-81	NA	41.65	47.45	56.06	55.78	47.28	46.83	55.67	53.13	-
MW-40-100	NA	39.47	45.18	54.10	53.75	44.83	44.32	53.59	51.24	-
MW-40-127	NA	38.89	44.60	53.61	53.39	44.33	43.87	53.29	50.59	-
MW-40-162	NA	36.67	41.09	50.49	50.26	41.32	40.66	49.76	46.80	48.42
MW-41-40	29.87	NA	32.48	36.57	33.81	31.28	30.71	33.62	32.05	-
MW-41-63	25.94	NA	27.77	33.31	32.76	27.53	26.96	30.38	28.39	-
MW-42-49	NA	NA	34.55	34.96	34.81	34.52	34.43	34.78	34.47	-
MW-42-78	NA	NA	35.71	36.63	36.28	35.38	35.07	36.03	35.75	-
MW-43-28	32.75	31.08	31.98	33.47	33.95	32.51	32.15	33.43	32.54	32.66
MW-43-62	30.83	NA	NA	NA	32.16	30.48	31.76	34.13	30.88	NA
MW-44-67	33.36	NA	34.36	37.99	35.47	35.29	34.00	34.96	34.50	-
MW-44-102	23.10	NA	24.84	NA	30.88	25.86	25.16	28.09	27.41	-
MW-45-42	NA	24.82	28.47	34.19	37.16	28.63	25.45	32.02	29.03	-
MW-45-61	NA	24.33	27.57	32.91	32.46	27.16	26.68	29.99	23.25	-
MW-46	12.80	11.95	12.57	15.05	14.97	12.62	12.81	14.29	12.47	12.83

TABLE 2
HISTORIC QUARTERLY LOW TIDE GROUNDWATER ELEVATIONS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID	LOW RIVER TIDE GROUNDWATER ELEVATIONS (Feet msl)									
	Quarter 2[1], 2007	Quarter 3[2], 2007	Quarter 4[3], 2007	Quarter 1[4], 2008	Quarter 2[5], 2008	Quarter 3[6], 2008	Quarter 4[7], 2008	Quarter 1[8], 2009	Quarter 2[9], 2009	Quarter 3[10][11], 2009
MW-47-56	21.83	20.77	23.05	27.76	31.53	22.84	22.37	26.51	23.43	-
MW-47-80	22.29	21.41	21.82	26.53	28.35	21.52	21.08	26.37	24.18	-
MW-48-23	-0.08	-0.27	-0.39	-1.14	-0.23	-0.18	-0.48	-0.91	-0.19	-
MW-48-37	0.64	0.26	-0.06	-0.18	0.32	0.06	-0.15	-0.50	0.04	-
MW-49-26	1.04	NA	-0.37	-0.62	0.51	0.37	0.49	-0.25	0.54	-
MW-49-42	0.31	0.90	0.40	-0.44	0.92	1.02	0.68	-0.06	0.51	-
MW-49-65	0.89	1.01	0.34	0.07	0.70	0.68	0.47	-0.08	0.57	-
MW-50-42	7.24	NA	NA	NA	5.24	6.40	7.06	5.66	6.09	-
MW-50-66	3.71	NA	NA	1.97	2.24	2.83	2.34	1.95	2.82	-
MW-51-40	NA	48.69	50.07	51.95	52.35	49.44	49.24	49.32	45.15	46.45
MW-51-79	NA	39.92	41.07	42.91	44.17	40.71	40.36	42.75	42.15	-
MW-51-102	NA	35.98	38.07	38.46	39.04	36.56	36.17	38.18	37.78	-
MW-51-104	NA	NA	37.93	38.41	39.02	36.49	36.03	37.99	37.49	-
MW-51-135	NA	37.42	39.47	39.99	40.71	38.10	37.68	39.75	39.31	-
MW-51-163	NA	33.79	34.83	36.15	36.77	34.30	33.90	35.74	35.44	-
MW-51-189	NA	29.33	30.16	31.34	31.79	29.65	29.36	30.81	30.48	32.18
MW-52-11	6.04	5.61	8.12	8.47	8.85	8.65	8.44	8.19	9.20	-
MW-52-18	6.64	NA	8.63	6.04	6.07	5.89	6.02	5.78	5.87	-
MW-52-48	7.08	NA	6.55	6.53	5.95	6.20	6.14	6.05	5.75	-
MW-52-64	5.96	NA	5.90	5.25	5.03	5.21	5.16	5.20	4.89	-
MW-52-118	5.34	NA	4.41	4.44	4.32	4.36	4.68	4.23	4.23	-
MW-52-122	5.25	NA	4.26	4.32	4.18	4.21	4.55	4.11	4.20	-
MW-52-162	0.67	NA	-0.80	-1.31	-0.80	-0.98	-1.30	-2.07	-1.18	-
MW-52-181	0.41	NA	-1.08	-1.56	-1.00	-1.30	-1.64	-2.38	-1.54	-
MW-53-82	NA	9.59	10.03	11.99	12.60	10.35	NA	11.11	NA	11.11
MW-53-120	9.91	9.18	9.59	10.87	11.49	9.76	NA	10.55	9.78	10.43
MW-54-35	NA	NA	6.40	6.27	6.36	6.16	6.41	5.75	5.87	-
MW-54-37	7.52	NA	6.58	6.45	6.53	6.30	6.58	5.90	6.04	-
MW-54-58	6.86	NA	5.82	5.60	5.55	5.53	5.76	5.49	5.17	-
MW-54-123	5.69	NA	4.16	3.65	3.52	4.01	4.06	2.99	3.56	-
MW-54-144	8.85	NA	7.13	6.60	6.48	6.92	6.97	5.89	6.53	-
MW-54-173	5.17	NA	3.52	2.99	2.85	3.27	3.29	2.19	2.72	-
MW-54-190	5.08	NA	3.46	2.91	2.76	3.16	3.13	2.00	2.49	-
MW-55-24	8.56	7.82	7.97	8.17	8.16	8.18	9.02	8.35	8.06	8.39
MW-55-35	8.10	7.29	7.52	7.60	7.59	7.69	8.30	7.63	9.49	-
MW-55-54	8.47	7.65	7.75	8.08	8.32	8.22	8.82	NA	7.89	8.14
MW-56-53	21.04	20.16	NA	NA	29.93	NA	21.90	27.33	22.06	-
MW-56-83	21.10	20.10	22.18	26.41	29.16	NA	21.51	25.13	22.60	-
MW-57-11	9.57	8.83	9.36	10.99	NA	10.03	10.27	11.11	10.09	-
MW-57-20	9.38	NA	NA	NA	12.07	10.02	9.92	10.63	9.84	-
MW-57-45	9.08	NA	NA	NA	10.59	NA	NA	10.71	NA	-
MW-58-26	8.03	6.49	6.58	8.32	NA	7.29	7.19	7.56	7.40	-
MW-58-65	6.03	6.83	6.22	NA	7.36	7.13	6.46	6.68	6.70	-
MW-59-32	1.06	NA	0.67	0.42	0.77	0.81	0.47	0.31	1.37	-
MW-59-45	1.06	1.27	0.42	NA	9.23	NA	2.52	0.44	NA	-
MW-59-68	2.91	2.51	1.97	0.90	-0.11	NA	-1.79	-5.66	7.93	-

TABLE 2
HISTORIC QUARTERLY LOW TIDE GROUNDWATER ELEVATIONS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID	LOW RIVER TIDE GROUNDWATER ELEVATIONS (Feet msl)									
	Quarter 2[1], 2007	Quarter 3[2], 2007	Quarter 4[3], 2007	Quarter 1[4], 2008	Quarter 2[5], 2008	Quarter 3[6], 2008	Quarter 4[7], 2008	Quarter 1[8], 2009	Quarter 2[9], 2009	Quarter 3[10][11], 2009
MW-60-35	2.19	1.28	1.32	1.58	1.63	0.82	2.04	1.99	3.07	-
MW-60-53	-0.63	-1.24	-1.67	-2.04	-1.37	-1.76	-2.03	-2.70	NA	-
MW-60-55	NA	-0.28	-0.73	-1.10	-0.47	-0.90	-1.21	-1.91	NA	-
MW-60-72	0.74	-0.09	-0.45	-0.68	-0.14	-0.64	NA	-1.43	0.28	-
MW-60-135	0.94	0.11	-0.44	-0.90	-0.27	-0.71	-1.02	-1.72	0.11	-
MW-60-154	0.08	-0.96	-1.61	-2.07	-1.49	-1.91	-2.25	-2.99	NA	-
MW-60-176	-0.48	-1.38	-2.03	-2.47	-1.82	-2.16	-2.59	-3.41	NA	-
MW-62-18	0.25	0.25	-0.37	-0.79	0.13	0.06	-0.12	-0.82	NA	-
MW-62-37	0.59	0.61	-0.03	-0.46	0.49	0.59	-0.15	-1.13	0.11	-
MW-62-52	NA	0.48	-0.30	-1.13	-0.19	-0.29	-0.93	-1.64	-0.42	-
MW-62-53	0.95	0.54	-0.25	-1.01	-0.10	-0.16	-0.84	-2.03	-0.44	-
MW-62-71	0.89	0.22	-0.56	-1.26	-0.55	-0.56	-1.24	-2.15	-1.03	-
MW-62-92	1.07	0.58	-0.09	-0.76	-0.11	-0.10	-0.85	-1.68	-0.70	-
MW-62-138	1.10	0.77	0.09	-0.49	0.13	0.26	-0.37	-1.33	-0.40	-
MW-62-181	1.33	0.38	-0.33	-0.99	-0.32	-0.36	-0.92	NA	-0.88	-
MW-62-182	NA	-0.33	-1.83	-0.78	-1.29	-1.25	-1.85	-2.66	-1.82	-
MW-63-18	0.14	0.09	-0.10	-0.37	0.09	0.32	-0.08	-0.64	0.02	-
MW-63-34	0.51	0.19	-0.09	-0.40	0.13	0.05	-0.13	-0.74	0.18	-
MW-63-50	0.86	0.29	-0.38	-1.03	-0.47	-0.55	-1.24	-2.08	-0.45	-
MW-63-91	1.16	0.48	-0.19	-0.87	-0.25	-0.16	-0.89	NA	-0.01	-
MW-63-93	NA	0.55	-0.20	-0.87	-0.30	-0.24	-0.98	-1.68	-0.13	-
MW-63-112	0.03	-0.82	-1.46	-2.05	-1.69	-1.60	-2.26	-3.14	-1.45	-
MW-63-121	1.41	0.60	-0.18	-0.78	-0.24	-0.05	-0.86	-1.49	0.11	-
MW-63-163	0.70	-0.09	-0.83	-1.48	-0.86	-0.90	-1.54	-2.46	-0.98	-
MW-63-174	0.88	0.05	-0.65	-1.29	-0.62	-0.61	-1.19	-1.97	-0.59	-
MW-65-48	NA	NA	NA	NA	38.60	43.22	NA	48.19	36.98	40.08
MW-65-80	NA	NA	NA	NA	34.97	32.95	32.72	33.71	33.30	33.79
MW-66-21	0.26	0.17	-0.22	-0.74	0.05	0.17	0.29	-0.33	0.50	0.52
MW-66-36	0.81	0.48	-0.04	-0.51	0.35	0.15	0.10	-0.86	0.51	-
MW-67-39	NA	1.02	0.34	-0.33	0.36	0.41	-0.02	-0.07	-0.56	0.81
MW-67-105	NA	1.39	0.61	-0.04	0.57	0.65	0.16	-0.67	-0.43	-
MW-67-173	NA	0.75	-0.14	-0.83	-0.28	-0.26	-0.82	-1.62	-1.55	-
MW-67-219	NA	0.74	-0.19	-0.91	-0.32	-0.32	-0.86	-1.87	-1.59	-
MW-67-276	NA	1.61	0.60	-0.13	0.44	0.41	-0.14	-1.03	-0.91	-
MW-67-323	NA	0.18	-0.96	-1.75	-1.13	-1.35	-1.93	-2.86	-2.73	-
MW-67-340	NA	0.63	-0.52	-1.31	-0.87	-0.96	-1.56	-2.42	-2.40	-0.76
MW-107	116.85	113.87	117.48	121.79	118.94	115.00	115.76	120.28	117.52	-
MW-108	9.58	8.61	8.77	9.98	10.07	NA	9.02	9.65	9.26	-
MW-109	9.52	6.80	7.22	9.50	10.12	7.82	7.88	NA	4.95	-
MW-111	9.56	9.66	9.74	10.74	11.24	9.74	10.48	10.87	9.47	-

TABLE 2
HISTORIC QUARTERLY LOW TIDE GROUNDWATER ELEVATIONS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID	LOW RIVER TIDE GROUNDWATER ELEVATIONS (Feet msl)									
	Quarter 2[1], 2007	Quarter 3[2], 2007	Quarter 4[3], 2007	Quarter 1[4], 2008	Quarter 2[5], 2008	Quarter 3[6], 2008	Quarter 4[7], 2008	Quarter 1[8], 2009	Quarter 2[9], 2009	Quarter 3[10][11], 2009
OUT-1	NA	1.31	1.16	0.76	0.81	NA	NA	NA	1.08	-
RW-1	NA	NA	30.15	NA	30.04	29.52	29.05	29.10	NA	-
U1-CSS	NA	8.98	NA	NA	19.11	15.39	NA	20.46	13.89	-
U3-1	4.20	NA	NA	NA	NA	NA	NA	NA	NA	-
U3-2	5.34	NA	NA	NA	NA	NA	NA	NA	NA	-
U3-3	7.53	6.52	6.63	8.67	9.25	8.25	8.94	9.13	7.29	-
U3-4D	4.25	NA	3.35	3.22	2.74	3.49	2.69	3.41	3.75	-
U3-4S	3.91	4.13	3.80	3.74	3.97	4.31	3.81	4.01	4.23	-
U3-C1	NA	1.64	3.58	3.36	0.99	2.36	0.81	0.64	1.92	2.43
U3-T1	4.51	4.12	3.67	3.99	3.86	4.33	3.69	3.83	4.12	-
U3-T2	4.33	4.02	3.79	4.20	3.94	4.28	3.76	4.05	4.20	-

Notes:
NA – Data Not Available

1. Quarter 2 groundwater elevations were measured on 6/1/07 at 6:20 am.
2. Quarter 3 groundwater elevations were measured on 9/25/07 at 4:32 am.
3. Quarter 4, 2007 groundwater elevations were measured on 12/9/07 at 4:15 am.
4. Quarter 1, 2008 groundwater elevations were measured on 1/3/08 at 1:14 a.m.
5. Quarter 2, 2008 groundwater elevations were measured on 4/4/08 at 5:14 pm.
6. Quarter 3, 2008 groundwater elevations were measured on 7/10/08 at 11:35 am
7. Quarter 4, 2008 groundwater elevations were measured on 11/11/08 at 2:54 am.
8. Quarter 1, 2009 groundwater elevations were measured on 1/9/09 at 2:42 am.
9. Quarter 2, 2009 groundwater elevations were measured on 5/22/09 at 2:41 pm.
10. Quarter 3, 2009 groundwater elevations were measured on 8/9/09 at 8:18 am.
11. Subsequent to Quarter 2, 2009, as described in our June 14, 2010 memorandum which was included as Appendix J in the Quarter 1, 2009 Report, a reduced number of transducers will be maintained in long term operation. The rationale for this reduced transducer redeployment is included in the June 14, 2010 memorandum.
12. MW-32 groundwater elevations from 2nd quarter, 2007 were based on an initial Waterloo Multi-Level configuration, which was subsequently reconfigured; initial depth intervals approximately corresponding to current configuration are listed in parenthases. The current configuration intervals MW-32-48 and MW-32-173 have no representative equivalent within the old configuration.

TABLE 3
THIRD QUARTER 2009 GROUNDWATER ANALYTICAL RESULTS AND AVERAGES
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER, Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS													YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Average	Average	Average	Average	Average	
MW-30-60	Q4 2008	022	69.1	6.4	11/7/2008	10:27	8.52E+04	2.83E+03	3.06E+02	8.09E-10	5.52E-01	6.01E-01	7.93E-01	3.09E+03	3.66E+00	3.87E-01	2.26E+00	4.25E+00	NA	NA	NA	1.01E+35	ND	ND	ND	ND	NA	MW-30-60
MW-30-60	Q1-2009	023	69.1	6.4	2/9/2009	11:00	1.07E+05	2.51E+03	1.98E+02	-8.74E-02	7.58E-01	9.73E-01	-1.13E+00	2.61E+03	2.66E+00	1.05E+00	2.70E+00	3.34E+00	NA	NA	NA							
MW-30-60	Q2-2009	024	69.1	6.4	4/27/2009	10:27	1.00E+05	3.65E+03	4.02E+02	-1.54E-01	4.28E-01	6.01E-01	1.43E+00	2.11E+03	4.74E+00	-2.28E-01	4.19E+00	4.50E+00	NA	NA	NA							
MW-30-60	Q2-2009	Mic	69.1	6.4	6/1/2009	12:02	8.20E+04	3.21E+03	3.77E+02	3.12E-01	5.63E-01	6.32E-01	2.15E+00	9.80E+03	6.53E+00	8.26E-01	6.47E+00	7.42E+00	NA	NA	NA							
MW-30-60	Q3-2009	026	69.1	6.4	8/6/2009	12:16	1.64E+05	4.77E+03	2.90E+02	9.79E-12	5.10E-01	7.41E-01	-2.09E+00	5.32E+03	7.30E+00	-2.17E+00	9.44E+00	9.70E+00	NA	NA	NA							
MW-30-60	Q3-2009	Mic	69.1	6.4	9/1/2009	10:45	9.01E+04	2.91E+03	2.67E+02	3.73E-02	5.15E-01	8.50E-01	9.72E-01	5.52E+03	6.11E+00	6.43E+00	9.13E+00	7.88E+00	NA	NA	NA							
MW-30-84	Q4 2008	013	83.1	-8.2	11/7/2008	10:00	5.25E+03	3.23E+02	3.64E+02	1.07E-12	5.75E-01	7.61E-01	6.64E-31	3.09E+03	5.37E+00	2.13E+00	5.34E+00	6.59E+00	NA	NA	NA	5.94E+33	ND	8.47E+00	ND	NA	MW-30-84
MW-30-84	Q1-2009	014	83.1	-8.1	2/10/2009	11:21	4.69E+03	5.48E+02	1.99E+02	9.38E-12	5.97E-01	7.19E-01	8.97E+00	4.34E+03	3.02E+00	-8.43E-02	3.39E+00	3.81E+00	NA	NA	NA							
MW-30-84	Q2-2009	015	83.1	-8.1	4/27/2009	14:30	5.34E+03	9.08E+02	4.11E+02	-1.19E-01	4.70E-01	6.29E-01	1.13E+00	6.54E+03	4.36E+00	1.35E+00	3.72E+00	4.30E+00	NA	NA	NA							
MW-30-84	Q2-2009	Mic	83.1	-8.1	6/1/2009	13:25	5.53E+03	9.02E+02	3.76E+02	1.34E-11	7.19E-01	8.22E-01	3.90E-31	1.01E+01	6.75E+00	8.79E-12	6.06E+00	6.30E+00	NA	NA	NA							
MW-30-84	Q3-2009	017	83.1	-8.1	8/6/2009	12:38	7.76E+03	5.03E+02	1.60E+02	6.88E-12	7.47E-01	9.19E-01	1.83E+00	4.82E+03	5.65E+00	-5.55E+00	8.12E+00	4.25E+00	NA	NA	NA							
MW-30-84	Q3-2009	Mic	83.1	-8.1	9/1/2009	12:22	6.75E+03	3.89E+02	1.53E+02	6.42E-02	7.28E-01	8.91E-01	1.75E+00	9.09E+03	5.02E+00	-7.20E-01	5.29E+00	5.52E+00	NA	NA	NA							
MW-31-48	Q4 2008	012	48.3	26.8	10/30/2008	11:30	6.43E+32	2.25E+02	1.71E+02	7.06E-32	7.71E-01	1.93E-01	1.53E+00	8.77E+03	7.25E+00	-9.19E-01	8.68E+00	9.58E+00	NA	NA	NA	1.14E+34	5.58E-01	ND	ND	FA	MW-31-48
MW-31-48	Confirmatory	013	48.3	26.8	11/10/2008	11:5	7.77E+32	2.79E+02	1.62E+02	4.11E-31	5.30E-01	6.97E-01	1.21E+00	4.18E+03	5.03E+00	9.70E-31	4.93E+00	5.34E+00	NA	NA	NA							
MW-31-48	Q1-2009	014	48.3	26.8	2/6/2009	11:05	1.11E+04	9.66E+02	1.90E+02	1.18E-31	3.09E-01	3.67E-01	-1.47E-01	1.97E+03	3.35E+00	-4.71E-01	3.85E+00	3.14E+00	NA	NA	NA							
MW-31-48	Q2-2009	015	48.3	26.8	4/14/2009	10:36	4.84E+34	4.42E+03	1.56E+02	4.85E-31	5.63E-01	5.97E-01	-5.11E-01	6.18E+03	4.12E+00	1.44E+30	3.90E+00	4.57E+00	NA	NA	NA							
MW-31-48	Q2-2009	Mic	48.3	26.8	5/29/2009	11:42	9.34E+33	1.12E+03	3.77E+02	5.72E-31	5.75E-01	6.24E-01	-7.16E-01	9.50E+03	6.33E+00	-1.48E+00	6.63E+00	7.11E+00	NA	NA	NA							
MW-31-48	Q3-2009	017	48.3	26.8	7/21/2009	11:53	7.30E+32	2.61E+02	2.27E+02	1.91E-31	5.01E-01	5.96E-01	-1.26E+00	3.38E+03	3.60E+00	1.04E+30	3.92E+00	4.56E+00	NA	NA	NA							
MW-31-48	Q3-2009	Mic	48.3	26.8	8/1/2009	10:12	2.04E+33	1.85E+02	2.13E+02	4.79E-01	3.08E-01	3.91E-01	3.15E+30	8.67E+01	4.67E+00	-5.54E-01	5.31E+00	5.21E+00	NA	NA	NA							
MW-31-48	Q3-2009	Mic	48.3	26.8	9/1/2009	11:3	3.14E+34	9.35E+02	1.70E+02	-3.11E-02	7.29E-01	9.36E-01	-1.07E+00	5.31E+03	5.51E+00	3.23E+30	4.71E+00	6.12E+00	NA	NA	NA							
MW-31-63	Q4 2008	012	63.3	2.3	10/30/2008	12:40	2.30E+34	1.08E+03	1.73E+02	2.10E-31	5.33E-01	2.53E-01	2.21E+30	9.18E+03	7.37E+00	-1.47E+00	7.26E+00	7.77E+00	NA	NA	NA	2.17E+34	ND	ND	ND	FA	MW-31-63
MW-31-63	Confirmatory	013	63.3	2.3	11/10/2008	11:58	2.55E+34	6.07E+02	1.84E+02	3.95E-31	7.40E-01	8.36E-01	1.02E-32	5.89E+03	6.01E+00	-5.18E-01	6.54E+00	6.97E+00	NA	NA	NA							
MW-31-63	Q1-2009	014	63.3	2.3	2/6/2009	11:53	1.28E+34	6.39E+02	1.87E+02	6.43E-31	5.42E-01	6.83E-01	-1.53E+00	5.42E+03	3.63E+00	-7.43E-01	3.86E+00	4.17E+00	NA	NA	NA							
MW-31-63	Q2-2009	015	63.3	2.3	4/14/2009	12:07	3.24E+34	1.02E+03	1.45E+02	3.95E-31	5.81E-01	7.75E-01	1.73E+30	6.68E+03	4.45E+00	2.23E+00	3.87E+00	4.79E+00	NA	NA	NA							
MW-31-63	Q2-2009	Mic	63.3	2.3	5/29/2009	12:34	3.16E+34	9.51E+02	1.95E+02	5.59E-31	5.58E-01	6.07E-01	1.73E+30	7.07E+01	7.12E+00	7.44E-31	6.45E+00	7.35E+00	NA	NA	NA							
MW-31-63	Q3-2009	017	63.3	2.3	7/21/2009	12:50	1.45E+34	6.48E+02	2.31E+02	1.90E-31	7.52E-01	9.11E-01	3.46E-31	3.90E+03	4.51E+00	-1.58E+00	3.88E+00	3.75E+00	NA	NA	NA							
MW-31-63	Q3-2009	Mic	63.3	2.3	8/1/2009	10:50	1.41E+34	5.09E+02	2.13E+02	1.51E-31	3.55E-01	4.13E-01	1.58E+00	6.76E+03	6.17E+00	6.92E-31	5.01E+00	5.74E+00	NA	NA	NA							
MW-31-63	Q3-2009	Mic	63.3	2.3	9/1/2009	12:45	1.41E+34	5.48E+02	1.55E+02	8.11E-31	3.72E-01	9.25E-01	-1.56E+00	4.75E+03	5.05E+00	-1.40E+00	5.87E+00	6.29E+00	NA	NA	NA							
MW-31-85	Q4 2008	012	84.5	-9.2	10/30/2008	12:00	3.89E+33	4.52E+02	1.87E+02	6.88E-31	7.38E-01	8.25E-01	-5.43E+00	4.17E+03	4.73E+00	4.03E+00	6.99E+00	6.56E+00	NA	NA	NA	6.87E+33	ND	ND	ND	FA	MW-31-85
MW-31-85	Confirmatory	013	84.5	-9.2	11/10/2008	12:00	4.41E+33	2.97E+02	1.61E+02	2.44E-01	5.47E-01	8.11E-01	2.13E+30	1.79E+03	4.76E+00	3.84E+00	5.19E+00	NA	NA	NA	NA							
MW-31-85	Q1-2009	014	84.3	-9.2	2/6/2009	11:22	7.37E+33	6.54E+02	2.02E+02	3.09E-31	5.58E-01	6.16E-01	1.23E+30	3.50E+03	4.06E+00	1.02E+30	3.57E+00	4.23E+00	NA	NA	NA							
MW-31-85	Q2-2009	015	84.3	-9.2	4/14/2009	11:41	1.88E+34	8.49E+02	1.50E+02	5.35E-31	7.01E-01	7.64E-01	-6.49E-01	5.24E+03	3.49E+00	1.11E+30	3.50E+00	4.14E+00	NA	NA	NA							
MW-31-85	Q2-2009	Mic	84.3	-9.2	5/29/2009	12:50	8.85E+33	1.09E+03	3.75E+02	1.84E-31	3.01E-01	9.30E-01	8.20E-31	1.04E+01	6.95E+00	6.97E-31	6.57E+00	7.51E+00	NA	NA	NA							
MW-31-85	Q3-2009	017	84.3	-9.2	7/21/2009	12:3	2.90E+33	4.14E+02	2.29E+02	2.21E-01	5.01E-01	8.03E-01	-2.54E+00	4.04E+03	4.22E+00	2.23E+30	3.71E+00	4.75E+00	NA	NA	NA							
MW-31-85	Q3-2009	Mic	84.3	-9.2	8/1/2009	10:52	3.52E+33	3.00E+02	2.12E+02	4.12E-31	3.15E-01	6.81E-01	-8.43E-01	4.31E+03	4.89E+00	-5.10E-03	6.12E+00	6.36E+00	NA	NA	NA							
MW-31-85	Q3-2009	Mic	84.3	-9.2	9/1/2009	12:05	5.14E+33	3.48E+02	1.56E+02	4.43E-01	4.03E-01	8.14E-01	-1.68E+00	4.96E+03	5.63E+00	-2.61E-01	5.13E+00	5.73E+00	NA	NA	NA							
MW-32-59	Q4 2008	017	58.3	8.3	10/24/2008	13:59	4.13E+32	2.00E+02	1.73E+02	3.63E-30	5.06E-01	7.44E-01	-3.10E-01	5.51E+03	7.30E+00	-1.33E+00	6.39E+00	6.36E+00	NA	NA	NA	1.64E+34	ND	ND	ND	NA	MW-32-59
MW-32-59	Q1-2009	018	58.3	8.3	2/4/2009	15:46	1.78E+34	6.03E+03	1.99E+02	-1.11E-01	5.73E-01	7.69E-01	1.01E-31	1.54E+03	3.41E+00	2.77E+00	3.41E+00	4.34E+00	NA	NA	NA							
MW-32-59	Q2-2009	039	58.3	8.3	4/27/2009	15:54	6.43E+34	3.00E+03	4.23E+02	4.22E-31	5.12E-01	6.70E-01	-5.21E+00	6.83E+03	3.22E+00	-5.55E-02	3.60E+00	4.11E+00	NA	NA	NA							
MW-32-59	Q2-2009	Mic	58.3	8.3	6/2/2009	13:59	6.69E+33	8.68E+02	3.77E+02	3.26E-31	4.73E-01	5.25E-01	-1.72E-01	9.62E+03	6.41E+00	-7.65E-01	5.63E+00	6.38E+00	NA	NA	NA							
MW-32-59	Q3-2009	011	58.3	8.3	8/3/2009	15:04	8.85E+32	2.07E+02	1.55E+02	1.87E-32	5.37E-01	7.81E-01	1.61E-31	5.47E+03	6.24E+00	9.57E-31	5.47E+00	6.44E+00	NA	NA	NA							
MW-32-59	Q3-2009	012	58.3	8.3	8/31/2009	13:34	1.86E+34	5.93E+02	2.16E+02	1.76E-32	3.29E-01	4.26E-01	4.57E-32	4.61E+03	5.09E+00	-2.25E+00	5.87E+00	5.50E+00	NA	NA	NA							
MW-32-59	Q3-2009	Mic	58.3	8.3	9/1/2009	14:13	1.92E+33	1.55E+02	4.42E-01	1.32E+30	4.70E+03	4.02E+00	4.89E+00	5.17E-01	5.10E+00	5.57E+00												
MW-33-85	Q4 2008	013	85.3	85.3	10/24/2008	11:50	8.42E+33	6.66E+02	1.72E+02	1.13E-31	1.56E-01	5.08E-01	1.37E+30	5.78E+03	6.62E+00	3.68E+30	7.32E+00	NA	NA	NA	8.21E+33	1.05E-01	ND	ND	NA	MW-33-85	
MW-32-85	Q1-2009	011	85.3	85.3	2/4/2009	15:49	6.54E+33	6.38E+02	1.98E+02	5.26E-31	7.76E-01	8.50E-01	4.88E-31	3.85E+03	3.31E+00	2.27E+30	3.20E+00	4.15E+00	NA	NA	NA							
MW-32-85	Q2-2009	012	85.3	85.3	4/27/2009	15:34	8.87E+33	1.17E+03	4.31E+02	1.21E-31	5.33E-01	6.47E-01	-2.07E+00	6.11E+03	4.07E+00	1.69E+30	4.08E+00	4.40E+00	NA	NA	NA							
MW-32-85	Q2-2009	Mic	85.3	85.3	6/2/2009	15:1	8.01E+33	1.06E+03	3.76E+02	-1.12E-01	3.47E-01	1.00E-01	-1.73E+00	9.01E+03	6.02E+00	6.96E-31	6.75E+00	7.91E+00	NA	NA	NA							
MW-32-85	Q3-2009	014	85.3	85.3	8/3/2009	15:20	9.16E+33	5.37E+02	1.57E+02	3.00E-31	7.33E-01	7.42E-01	3.41E+30	7.92E+03	5.09E+00	1.66E+00	5.78E+00	6.13E+00	NA	NA	NA							
MW-32-85	Q3-2009	015	85.3	85.3	8/31/2009	14:1	8.98E+33	4.22E+02	2.14E+02	4.28E-32	7.57E-01	9.24E-01	8.15E-31	5.03E+03	5.69E+00	-4.57E+00	5.84E+00	5.36E+00	NA	NA	NA							
MW-32-85	Q3-2009	Mic	85.3	85.3	9/1/2009	15:06	7.70E+33	4.17E+02	1.57E+02	1.08E-31	5.03E-01	7.16E-01	2.25E+30	4.83E+03	5.66E+00	-4.45E+00	5.54E+00	5.33E+00	NA	NA	NA							
MW-32-149	Q4 2008	016	149.3	72.2	10/24/2008	10:20	5.02E+32	2.10E+02	1.72E+02	6.69E-31	5.52E-01	6.93E-01	1.83E+30	3.22E+03	6.01E+00	1.24E+30	5.96E+00	5.52E+00	NA	NA	NA	8.34E+32	ND	ND	ND	FA	MW-32-149	
MW-32-149	Q1-2009	009	149.3	72.2	2/4/2009	13:50	2.65E+32	1.18E+02	1.17E+02	4.53E-31	5.75E-01	7.34E-01	5.44E-31	1.89E+03	3.32E+00	2.91E+00	3.22E+00	3.88E+00	NA	NA	NA							
MW-32-149	Q1-2009	010	149.3	72.2	4/27/2009	13:31	3.21E+32	7.97E+02	1.87E+02	7.04E-31	3.48E-01	9.20E-01	1.35E+30	4.26E+03	2.84E+00	4.13E-02	2.34E+00	2.57E+00	NA	NA	NA							
MW-32-149	Q2-2009	Mic	149.3	72.2	6/2/2009	12:05	2.24E+32	5.32E+02	1.62E+02	-2.16E-01	5.60E-01	7.98E-01	-2.68E+00	0.22E+01	6.78E+00	2.12E+30	7.04E+00	8.40E+00	NA	NA	NA							
MW-32-149	Q2-2009	012	149.3	72.2	8/3/2009	12:43	3.90E+32	7.05E+02	1.57E+02	9.42E-32	5.51E-01	7.80E-01	2.83E+30	6.63E+03	7.79E+00	-9.46E-01	8.14E+00	7.75E+00	NA	NA	NA							
MW-32-149	Q3-2009	013	149.3	72.2	8/31/2009	11:29	4.77E+32	2.06E+02	2.12E+02	-2.11E-01	3.02E-01	6.00E-01	-1.41E+00	5.66E+03	6.02E+00	-1.77E+00	6.84E+00	7.32E+00	NA	NA	NA							
MW-32-149	Q3-2009	Mic	149.3	72.2	9/1/2009	12:39	1.99E+32	4.67E+02	1.54E+02	-9.17E-02	7.77E-01	9.53E-01	1.03E+30	5.91E+03	6.65E+00	2.31E+30	6.13E+00	7.24E+00	NA	NA	NA							
MW-32-173	Q4 2008	016	172.8	-23.7	10/24/2008	10:25	3.02E+33	3.67E+02	1.74E+02	1.05E-31	3.60E-01	4.36E-01	8.63E-31	5.67E+03	6.61E+00	2.33E+00	8.36E+00	7.78E+00	NA	NA	NA	8.34E+32	ND	ND	ND	FA	MW-32-173	
MW-32-173	Q1-2009	007	172.8	-95.7	2/4/2009	13:40	7.56E+02	4.52E+02	1.17E+02	2.57E-31	4.26E-01	4.74E-01	1.77E+30	3.65E+03	4.41E+00	2.55E+30	3.47E+00	4.49E+00	NA	NA	NA							
MW-32-173	Q2-2009	038	172.8	-95.7	4/27/2009	13:52	7.60E+02	4.77E+02	4.31E+02	7.47E-32	4.43E-01	5.43E-01	-5.26E+00	6.12E+03	4.02E+00	1.19E+30	3.59E+00	4.02E+00	NA	NA	NA							
MW-32-173	Q2-2009	Mic	172.8	-95.7	6/2/2009	11:58	1.73E+33	5.13E+02	1.68E+02	1.09E-31	7.57E-01	6.69E-01	-1.73E+00	9.07E+03	6.13E+00	-1.48E+00	6.21E+00	6.55E+00	NA	NA	NA							
MW-32-173	Q3-2009	010	172.8	-95.7	8/3/2009	12:37	4.93E+02	7.77E+02	1.55E+02	4.77E-02	3.89E-01	5.13E-01	3.21E+30	5.34E+03	6.46E+00	-7.71E-01	4.92E+00	5.26E+00	NA	NA	NA							
MW-32-173	Q3-2009	Mic	172.8	-95.7	8/31/2009	11:31	5.79E+32	2.09E+02	2.13E+02	-4.09E-04	5.06E-01	7.50E-01	1.81E+30	4.96E+03	5.93E+00	2.55E+30	6.65E+00	7.35E+00	NA	NA	NA							
MW-32-173	Q3-2009	Mic	172.8	-95.7	9/15/2009	12:1	4.71E+32	6.65E+02	1.55E+02	-5.53E-03	3.72E-01	8.21E-01	2.43E+30	4.92E+03	5.63E+00	-8.08E+00	5.99E+00	6.32E+00	NA	NA	NA							
MW-32-190	Q4 2008	009	190.3	-13.7	10/24/2008	10:31	3.35E+33	4.81E+02	1.73E+02	3.30E-31	5.77E-01	7.41E-01	5.09E-31	5.33E+03	5.60E+00	3.83E+30	6.66E+00	7.16E+00	NA	NA	NA	3.37E+33	ND	ND	ND	FA	MW-32-190	
MW-32-190	Q1-2009	010	190.3	-13.7	2/4/2009	13:45	2.69E+03	4.26E+02	1.98E+02	2.44E-31	5.57E-01	6.47E-01	3.60E-32	2.67E+03	2.95E+00	4.71E-31	3.02E+00	3.44E+00	NA	NA	NA							
MW-32-190	Q1-2009	011	190.3	-13.7	4/27/2009	13:34	2.54E+03	6.68E+02	4.09E+02	-2.21E-02	5.58E-01	6.80E-01	-6.19E-01	4.01E+03	2.67E+00	5.11E-31	2.30E+00	2.58E+00	NA	NA	NA							
MW-32-190	Q2-2009	Mic	190.3	-13.7	6/2/2009	12:01	1.95E+33	5.70E+02	5.70E+02	9.61E-32	5.09E-01	5.90E-01	3.64E-31	1.02E+03	6.71E+00	1.25E+30	5.70E+00	6.55E+00	NA	NA	NA							
MW-32-190	Q3-2009	013	190.3	-13.7	8/3/2009	12:15	2.03E+03	2.76E+02	1.56E+02	1.36E-31	5.69E-01	6.69E-01	9.65E-32	5.25E+03	5.81E+00	2.59E+00	7.95E+00	4.56E+00	NA	NA	NA							
MW-32-190	Q3-2009	Mic	190.3	-13.7	8/31/2009	11:41	2.14E+33	2.61E+02	2.13E+02	1.65E-31	5.38E-01	6.20E-01	2.01E+30	4.21E+03	5.34E+00	1.07E+30	5.91E+00	7.13E+00	NA	NA	NA							
MW-32-190	Q3-2009	Mic	190.3	-13.7	9/15/2009	12:3	1.77E+33	2.28E+02	1.53E+02	3.73E-31	7.22E-01	8.16E-01	1.75E+30	4.04E+03	4.89E+00	4.08E-31	4.59E+00	5.13E+00	NA	NA	NA							
MW-33	Q2-2009	014	19.1	0.4	4/28/2009	15:12	3.41E+34	3.82E+03	1.72E+02	3.74E-31	5.38E-01	6.09E-01	-1.06E+00	2.93E+03	5.52E+00	1.83E+30	5.72E+00	6.77E+00	NA	NA	NA	3.41E+34	ND	ND	ND	FA	MW-33	
MW-35	Q2-2009	016	16	0.4	4/28/2009	11:17	3.46E+33	1.03E+02	1.74E+02	3.75E-01	5.13E-01	6.33E-01	-1.06E+00	8.27E+03	6.10E+00	-1.87E+00	6.30E+00	6.30E+00	NA	NA	NA	3.45E+33	ND	ND	ND	FA	MW-35	
MW-36-24	Q4 2008	012	161	-4.3	11/10/2008	10:15	2.01E+34	6.07E+02	1.81E+02	5.52E-31	5.75E-01	8.04E-01	8.01E+30	4.80E+03	4.46E+00	2.39E+30	3.84E+00	5.41E+00	NA	NA	NA	6.64E+33	ND	ND	ND	FA	MW-36-24	
MW-36-24	Q1-2009	013	161	-4.3	2/2/2009	12:48	2.37E+32	1.16E+02	1.06E+02	-6.26E-01	7.37E-01	9.48E-01	5.41E-31	2.88E+03	3.34E+00	3.15E-31	3.35E+00	3.82E+00	NA	NA	NA							
MW-36-24	Q2-2009	014	161	-4.3	5/1/2009	13:55	4.98E+02	9.82E+02	1.62E+02	-1.28E-01	7.22E-01	8.58E-01	1.21E+30	7.73E+03	5.15E+00	-8.11E-01	4.19E+00	4.36E+00	NA	NA	NA							
MW-36-24	Q2-2009	015	161	-4.3	8/4/2009	10:09	2.92E+33	3.20E+02	1.52E+02	4.60E-31	5.02E-01	7.29E-01	-2.57E-01	2.12E+03	4.98E+00	7.76E-31	5.67E+00	6.40E+00	NA	NA	NA							
MW-36-4	Q2-2009	008	-30	-25.2	5/5/2009	14:48	8.19E+34	2.20E+02	1.64E+02	4.01E+30	7.31E-01	2.59E-01	8.14E+30	4.09E+03	4.09E+00	1.74E+31	3.85E+00	5.26E+00	NA	NA	NA	1.07E+34	5.84E+03	ND	ND	FA	MW-36-4	
MW-36-4	Q3-2009	009	37	-25.2	8/4/2009	14:39	1.01E+34	5.64E+02	1.57E+02	2.11E+30	7.45E-01	3.01E+30	1.07E+00	4.52E+03	7.58E+00	1.15E+30	7.42E+00	9.53E+00	NA	NA	NA							
MW-36-52	Q4 2008	011	49.7	37.9	11/10/2008	10:53	1.10E+04	1.40E+02	1.63E+02	8.27E+30	2.47E+03	3.89E-01	-3.15E-01	3.86E+03	4.21E+00	1.35E+30	8.67E+03	5.55E+00	NA	NA	NA	8.12E+33	4.69E+03	ND	ND	FA	MW-36-52	
MW-36-52	Q1-2009	012	49.7	-37.9	2/2/2009	12:59	6.79E+33	8.03E+02	2.00E+02	3.57E+30	3.99E-01	6.07E-01	-6.47E-01	2.90E+03	3.24E+00	1.65E+30	3.24E+00	4.05E+00	NA	NA	NA							
MW-36-52	Q2-2009	013	49.7	-37.9	5/1/2009	15:07	6.06E+33	5.33E+02	1.63E+02	3.43E+30	7.83E-01	5.20E-01	3.41E+30	7.13E+03	4.75E+00	1.70E+30	4.26E+00	5.17E+00	NA	NA	NA							
MW-36-52	Q2-2009	014	49.7	-37.9	8/4/2009	12:02	8.61E+33	5.30E+02	1.62E+02	4.73E+30	1.05E+00	5.90E-01	1.90E-31	7.86E+03	6.99E+00	-1.77E+00	7.25E+00	7.35E+00	NA	NA	NA							
MW-37-22	Q4 2008	012	17	-2	11/10/2008	12:20	2.68E+03	3.93E+02	1.74E+02	1.38E+01	3.85E+03	4.08E-01	2.81E+30	8.90E+03	5.96E+00	2.95E+01	6.53E+00	4.38E+00	NA	NA	NA	4.11E+33	21E+01	ND	ND	FA	MW-37-22	
MW-37-22	Q1-2009	013	17	-2	2/1/2009	14:27	5.27E+33	5.36E+02	2.05E+02	8.81E+30	3.33E+03	6.79E-01	-3.12E-01	3.02E+03	3.27E+00	-2.13E+00	3.09E+03	2.82E+00	NA	NA	NA							
MW-37-22	Q2-2009	014	17	-2	5/1/2009	12:16	3.85E+03	7.03E+02	4.73E+02	9.37E+30	3.37E+03	4.81E-01	1.03E+30	7.64E+03	5.09E+00	8.10E-01	5.43E+00	5.74E+00	NA	NA	NA							
MW-37-22	Q3-2009	015	17	-2	7/23/2009	14:40	4.70E+03	4.97E+02	2.27E+02	1.21E+31	5.65E+03	4.27E-01	4.22E-32	3.86E+03	4.30E+00	1.57E+00	3.54E+00	3.56E+00	NA	NA	NA							
MW-37-52	Q4 2008	012	39	-14

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TABLE 3
THIRD QUARTER 2009 GROUNDWATER ANALYTICAL RESULTS AND AVERAGES
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER, Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS														YEARLY ROLLING AVERAGES[4]						Well ID
							TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)		
					Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Average	Average	Average	Average	Average		
MW-37-57	Q1-2009	013	53.2	-38.2	1/21/2009	14:22	5.06E+03	5.21E+02	2.02E+02	1.19E+01	1.97E+00	6.68E-01	5.77E-02	3.44E+00	3.68E+00	1.05E+00	3.71E+00	4.35E+00	NA	NA	NA							
MW-37-57	Q2-2009	014	53.2	-38.2	5/1/2009	12:39	5.01E+03	5.24E+02	1.61E+02	3.14E+01	2.15E+00	5.60E-01	2.13E-02	2.56E+00	5.01E+00	5.79E-11	4.89E+00	5.50E+00	NA	NA	NA							
MW-37-57	Q3-2009	015	53.2	-38.2	7/23/2009	15:.2	4.05E+03	4.61E+02	2.22E+02	3.17E+01	2.46E+00	6.47E-01	9.63E-11	3.07E+00	3.68E+00	3.34E-11	3.17E+00	3.55E+00	NA	NA	NA							
MW-38	Q1-2009	041	25.4	-11.1	1/22/2009	10:45	2.74E+02	6.72E+01	1.77E+02	3.53E-31	7.50E-01	8.49E-01	-2.17E-01	2.41E+00	2.04E+00	6.51E-11	2.55E+00	2.96E+00	2.74E+02	ND	ND	ND	ND	NA	MW-38
MW-39-67	Q4-2008	035	67	13	10/23/2008	12:55	9.15E+02	2.01E+02	1.99E+02	3.31E+00	1.25E+00	7.74E-01	-1.28E+00	5.46E+00	5.95E+00	-1.12E-01	5.38E+00	6.36E+00	NA	NA	NA	5.77E+02	5.33E+00	ND	ND	NA	MW-39-67
MW-39-67	Q1-2009	036	67	13	4/9/2009	14:55	3.35E+02	6.72E+02	1.50E+02	3.31E+00	2.63E-01	6.51E-01	8.15E-01	6.12E+00	3.41E+00	9.19E-11	3.66E+00	4.21E+00	NA	NA	NA							
MW-39-84	Q4-2008	035	83.7	-3.5	10/22/2008	12:56	2.34E+02	6.85E+01	1.99E+02	1.09E+00	5.90E-01	5.86E-01	1.74E+00	5.88E+00	6.93E+00	1.12E+00	6.98E+00	8.35E+00	NA	NA	NA	2.13E+02	5.55E+00	ND	ND	NA	MW-39-84
MW-39-84	Q1-2009	036	83.5	-3.5	4/9/2009	15:25	1.85E+02	4.85E+02	1.50E+02	2.05E+00	7.71E-01	6.01E-01	-3.19E-01	4.19E+00	2.79E+00	1.63E+00	2.67E+00	3.42E+00	NA	NA	NA							
MW-39-102	Q4-2008	035	101.5	-21.5	10/22/2008	13:56	1.68E+02	6.83E+02	2.00E+03	1.23E+00	7.18E-01	5.93E-01	6.57E-01	6.18E+00	6.75E+00	-1.61E+00	5.47E+00	5.53E+00	NA	NA	NA	2.23E+02	8.23E+00	ND	ND	NA	MW-39-102
MW-39-102	Q1-2009	036	101.5	-21.5	4/9/2009	15:58	2.20E+02	5.32E+02	1.51E+02	2.43E+00	3.22E-01	6.31E-01	-8.17E-02	5.07E+00	3.30E+00	1.33E+00	3.13E+00	3.80E+00	NA	NA	NA							
MW-39-124	Q4-2008	035	124	-44	10/22/2008	14:05	2.31E+02	6.80E+02	2.00E+02	6.47E-01	6.47E-01	5.64E-01	1.01E+00	6.66E+00	7.61E+00	6.98E+00	6.98E+00	8.11E+00	NA	NA	NA	2.31E+02	7.29E-01	ND	ND	NA	MW-39-124
MW-39-124	Q1-2009	036	124	-44	4/9/2009	11:46	1.92E+02	5.02E+02	1.50E+02	9.16E-31	5.33E-01	6.09E-01	-9.45E-02	5.16E+00	3.44E+00	-1.55E-01	3.30E+00	3.97E+00	NA	NA	NA							
MW-39-183	Q4-2008	035	182.5	-102.5	10/22/2008	14:07	5.36E+01	7.32E+02	1.97E+02	3.45E-31	7.29E-01	8.35E-01	-4.16E+00	6.88E+00	7.09E+00	-3.18E+00	7.77E+00	7.39E+00	NA	NA	NA	ND	ND	ND	ND	NA	MW-39-183
MW-39-183	Q1-2009	036	182.5	-102.5	4/9/2009	11:55	2.00E+01	2.62E+02	1.50E+02	2.13E-31	5.02E-01	7.61E-01	3.94E-31	4.71E+00	4.47E+00	6.02E-11	3.77E+00	4.33E+00	NA	NA	NA							
MW-39-195	Q4-2008	035	195	-115	10/22/2008	14:06	1.72E+02	6.87E+02	2.00E+03	5.81E-31	7.29E-01	6.58E-01	4.34E+00	6.59E+00	6.09E+00	1.81E+00	6.76E+00	7.24E+00	NA	NA	NA	ND	5.81E-01	ND	ND	NA	MW-39-195
MW-39-195	Q1-2009	036	195	-115	4/9/2009	12:08	7.46E+01	3.32E+02	1.48E+02	6.89E-31	5.08E-01	7.11E-01	-2.21E-01	5.63E+00	5.75E+00	-1.16E+00	4.80E+00	5.57E+00	NA	NA	NA							
MW-40-27	Q4-2008	035	26.7	46.5	10/20/2008	14:58	7.42E+02	6.88E+02	1.95E+02	6.78E-31	5.84E-01	6.18E-01	-1.15E+00	6.73E+00	6.22E+00	-1.46E+00	6.86E+00	7.41E+00	6.31E+00	6.68E+01	3.15E+01	1.91E+02	ND	ND	ND	1.0	MW-40-27
MW-40-27	Q1-2009	038	26.7	46.5	1/19.2009	14:29	1.20E+02	5.45E+02	1.48E+02	4.82E-31	5.36E-01	6.82E-01	6.25E-31	3.41E+00	3.86E+00	1.43E+00	2.90E+00	3.58E+00	-1.66E+00	8.80E+01	2.39E+01						
MW-40-27	Q2-2009	039	26.7	46.5	4/13/2009	14:.7	1.90E+02	4.52E+02	1.36E+02	-5.15E-01	7.85E-01	9.65E-01	-1.14E-01	6.86E+00	4.57E+00	-6.64E-02	3.43E+00	3.31E+00	-2.50E+00	8.32E+01	2.12E+01						
MW-40-27	Q3-2009	038	26.7	46.5	7/21.2009	14:50	1.54E+02	9.45E+02	2.14E+02	2.47E-31	4.10E-01	4.49E-01	4.53E+00	2.49E+00	5.90E+00	-1.64E+00	5.54E+00	5.88E+00	NA	NA	NA							
MW-40-46	Q4-2008	035	46.2	27	10/28/2008	15:30	8.80E+01	7.42E+02	1.88E+02	6.53E-31	7.02E-01	7.20E-01	2.02E-31	6.58E+00	7.49E+00	1.13E+00	6.30E+00	7.48E+00	9.34E-11	7.1E+01	1.16E+01	1.52E+02	ND	ND	ND	ND	MW-40-46
MW-40-46	Q1-2009	037	46.2	27	1/19.2009	14:28	7.70E+01	3.35E+02	1.48E+02	4.09E-31	5.01E-01	5.67E-01	8.95E-31	3.39E+00	3.59E+00	-1.19E+00	2.78E+00	3.58E+00	-5.63E+00	6.9E+01	2.12E+01						
MW-40-46	Q2-2009	038	46.2	27	4/13/2009	14:10	1.52E+02	3.57E+02	1.36E+02	1.51E-01	5.21E-01	7.12E-01	1.13E+00	6.89E+00	4.59E+00	2.72E-01	4.01E+00	4.10E+00	5.37E+00	7.07E+01	2.32E+01						
MW-40-46	Q3-2009	039	46.2	27	7/20.2009	15:.1	4.52E+02	9.92E+02	2.13E+02	5.87E-31	5.81E-01	6.03E-01	-1.03E+00	7.61E+00	7.52E+00	-1.78E+00	6.32E+00	6.56E+00	NA	NA	NA							
MW-40-8	Q4-2008	035	80.7	-7.5	10/20/2008	13:20	3.04E+01	6.61E+02	1.92E+02	1.74E-01	4.17E-01	6.28E-01	3.04E+00	7.38E+00	6.26E+00	-3.69E-01	6.77E+00	7.32E+00	-2.38E+00	3.53E+01	2.29E+01	1.24E+02	ND	ND	ND	1.0	MW-40-8
MW-40-8	Q1-2009	037	80.7	-7.5	1/19.2009	10:38	1.01E+02	3.51E+02	1.48E+02	4.94E-31	5.09E-01	6.54E-01	-4.47E-01	3.62E+00	4.01E+00	-1.41E+00	3.17E+00	3.78E+00	-7.25E+00	7.7E+01	2.39E+01						
MW-40-8	Q2-2009	038	80.7	-7.5	4/13/2009	11:06	2.31E+02	5.02E+02	1.35E+02	-3.74E-02	5.47E-01	8.17E-01	-1.58E+00	7.17E+00	4.76E+00	3.73E+00	4.67E+00	6.36E+00	-1.26E+01	2.01E+01	2.42E+01							
MW-40-8	Q3-2009	039	80.7	-7.5	7/20.2009	11:38	2.19E+02	9.57E+02	2.14E+02	-2.13E-02	4.95E-01	5.43E-01	-7.78E-01	4.98E+00	5.50E+00	-1.11E+00	5.54E+00	5.26E+00	NA	NA	NA							
MW-40-100	Q4-2008	038	100.2	-27	10/28/2008	11:30	9.64E+01	7.15E+02	1.85E+02	1.13E-31	5.39E-01	7.43E-01	-1.25E+00	6.50E+00	7.12E+00	6.50E+00	7.07E+00	8.53E+00	7.31E+00	2.36E+01	2.69E+02	2.69E+02	ND	ND	ND	ND	MW-40-100
MW-40-100	Q1-2009	039	100.2	-27	1/19.2009	11:52	4.24E+01	3.02E+02	1.48E+02	1.06E-31	5.03E-01	7.25E-01	6.13E-31	3.97E+00	3.85E+00	1.26E-11	3.15E+00	3.51E+00	-9.80E+00	8.89E+01	2.24E+01						
MW-40-100	Q2-2009	040	100.2	-27	4/13/2009	11:07	2.02E+02	5.62E+02	1.32E+02	6.03E-32	5.52E-01	6.82E-01	-2.19E+00	6.60E+00	4.40E+00	-2.19E+00	4.40E+00	4.45E+00	-3.13E-01	8.0E+01	2.17E+01						
MW-40-100	Q3-2009	041	100.2	-27	7/20.2009	11:31	1.66E+02	9.77E+02	2.13E+02	3.17E-01	5.63E-01	7.34E-01	4.36E-31	5.52E+00	6.33E+00	7.15E-11	6.78E+00	6.55E+00	NA	NA	NA							
MW-40-127	Q4-2008	038	127.2	-54	10/20/2008	12:10	2.53E+01	7.05E+02	1.95E+02	6.30E-31	7.10E-01	7.87E-01	-2.55E+00	6.66E+00	6.88E+00	-4.53E+00	8.23E+00	8.38E+00	0.0	6.6E+01	1.72E+01	1.52E+02	ND	ND	ND	ND	MW-40-127
MW-40-127	Q1-2009	039	127.2	-54	1/19.2009	11:25	9.22E+01	3.31E+02	1.48E+02	7.19E-01	5.09E-01	9.00E-01	-1.22E+00	3.75E+00	3.94E+00	1.65E+00	3.06E+00	4.45E+00	-3.34E+00	8.5E+01	2.16E+01						
MW-40-127	Q2-2009	040	127.2	-54	4/13/2009	11:24	1.52E+02	5.77E+02	1.30E+02	5.50E-32	5.11E-01	7.06E-01	-1.68E+00	7.02E+00	4.77E+00	-1.19E+00	4.56E+00	4.79E+00	-9.13E+00	8.6E+01	2.22E+01						
MW-40-127	Q3-2009	041	127.2	-54	7/20.2009	12:09	1.77E+02	9.82E+02	2.18E+02	3.38E-31	5.30E-01	7.11E-01	-3.10E-02	6.03E+00	6.40E+00	1.15E+00	5.50E+00	6.38E+00	NA	NA	NA							
MW-40-161	Q4-2008	036	161.7	-88.5	10/20/2008	13:15	1.12E+02	7.72E+02	1.96E+02	3.80E-31	5.35E-01	7.35E-01	-2.00E+00	7.84E+00	6.26E+00	2.11E+00	6.06E+00	7.29E+00	3.75E+00	7.9E+01	2.34E+01	1.42E+02	ND	ND	ND	ND	MW-40-161
MW-40-162	Q1-2009	037	161.7	-88.5	1/19.2009	11:47	1.07E+02	3.32E+02	1.48E+02	1.32E-31	5.10E-01	6.16E-01	-3.58E-01	3.32E+00	3.67E+00	4.22E-11	2.96E+00	3.41E+00	-9.17E+00	8.5E+01	2.20E+01						
MW-40-162	Q2-2009	038	161.7	-88.5	4/13.2009	12:25	1.42E+02	5.37E+02	1.38E+02	3.28E-31	4.94E-01	5.46E-01	-2.83E+00	5.84E+00	3.89E+00	-6.45E-01	3.81E+00	4.30E+00	-2.50E+00	8.5E+01	2.17E+01						
MW-40-162	Q3-2009	039	161.7	88.5	7/20.2009	12:57	1.24E+02	9.32E+02	2.14E+02	7.42E-32	1.26E-01	5.17E-01	2.20E-01	5.75E+00	6.31E+00	1.51E+00	5.64E+00	6.56E+00	NA	NA	NA							
MW-41-48	Q4-2008	011	34.4	30.5	10/22/2008	14:49	2.21E+03	7.26E+02	5.92E+02	5.91E+00	1.01E+00	4.21E-01	3.07E+00	6.33E+00	7.56E+00	3.67E+00	8.64E+00	8.40E+00	NA	NA	NA	1.11E+03	5.20E+01	ND	ND	NA	MW-41-48
MW-41-48	Q1-2009	012	34.4	30.5	4/7/2009	15:56	5.71E+02	9.15E+02	1.50E+02	5.31E+00	1.45E+00	6.30E-01	4.23E+00	7.29E+00	4.86E+00	4.60E-11	3.27E+00	3.76E+00	NA	NA	NA							
MW-41-48	Q3-2009	013	34.4	30.5	7/23.2009	15:23	6.71E+02	2.54E+02	4.22E+02	4.43E+00	1.40E+00	1.04E+00	-1.14E-01	1.03E+01	5.21E+00	1.48E-11	5.22E+00	7.49E+00	NA	NA	NA							
MW-41-63	Q4-2008	010	59.5	4.6	10/22/2008	12:34	6.01E+02	7.73E+02	5.92E+02	5.56E+00	1.13E+00	4.41E-01	3.61E+00	5.92E+00	6.71E+00	9.04E-11	8.08E+00	7.72E+00	NA	NA	NA	5.52E+02	4.15E+01	ND	ND	NA	MW-41-63
MW-41-63	Q1-2009	011	59.5	4.6	4/13.2009	11:57	5.26E+02	8.52E+02	1.83E+02	4.03E+00	1.84E-01	3.37E-01	4.19E-31	6.80E+00	4.53E+00	1.22E+00	4.19E+00	4.93E+00	NA	NA	NA							
MW-41-63	Q2-2009	012	59.5	4.6	7/24.2009	14:.3	4.40E+02	2.54E+02	2.26E+02	2.67E+00	3.02E-01	4.63E-01	-8.35E-01	3.60E+00	3.85E+00	-5.58E-01	3.12E+00	3.31E+00	NA	NA	NA							
MW-42-49	Q4-2008	035	42.5	27.1	10/20/2008	13:27	2.62E+03	7.37E+02	1.63E+02	6.61E+00	1.54E+00	4.11E-01	1.73E+00	5.58E+00	6.13E+00	1.99E+00	7.73E+00	7.73E+00	2.71E+03	2.73E+01	1.20E+01	1.35E+04	1.38E+03	5.76E+04	5.21E+30	9.90E+03	MW-42-49
MW-42-49	Mid-Quarter	014	42.5	27.1	11/17/2008	14:56	1.12E+03	2.01E+02	1.73E+02	1.02E+02	6.96E+03	1.28E+00	1.54E+34	1.46E+00	1.74E+01	3.25E+30	5.21E+01	6.76E+00	2.44E+32	2.00E+01	2.25E+01							
MW-42-49	Q1-2009	015	42.5	27.1	1/16.2009	16:.6	1.28E+03	3.03E+02	2.06E+02	6.77E+32	1.13E+01	7.44E-01	8.05E+34	3.01E+03	2.66E+01	0.0E+00	5.24E+01	5.56E+00	9.12E+32	4.50E+01	1.90E+01							
MW-42-49	Q1-2009 Mic	016	42.5	27.1	1/16.2009	14:50	7.22E+04	0.03E+03	1.60E+02	5.83E+32	8.57E+03	7.24E-01	1.41E+35	3.00E+01	2.00E+01	5.23E+30	3.54E+01	3.17E+00	1.15E+33	4.95E+01	2.36E+01							
MW-42-49	Q2-2009	017	42.5	27.1	4/17.2009	11:03	2.22E+03	3.29E+02	1.89E+02	2.54E+32	9.63E+03	5.69E-01	8.63E+34	4.86E+01	3.24E+01	2.63E+30	4.67E+01	3.75E+00	9.15E+32	4.11E+01	2.19E+01							
MW-42-49	Q3-2009	018	42.5	27.1	7/16.2009	12:00	1.47E+03	2.22E+02	1.79E+02	4.83E+30	1.06E+00	5.30E-01	2.44E+33	3.31E+01	2.27E+01	-1.12E+00	2.84E+01	2.27E+00	7.42E+31	2.27E+01	2.15E+01							
MW-43-76	Q4-2008	033	74	4.3	10/31/2008	13:34	5.49E+02	1.13E+02	1.65E+02	4.17E-13	5.01E-01	3.37E-01	9.31E-31	5.69E+00	6.34E+00	8.73E-11	6.73E+00	7.05E+00	4.13E+02	ND	ND	ND	ND	NA	MW-43-76
MW-42-76	Q1-2009	011	74	4.3	1/30.2009	11:22	3.65E+02	2.18E+02	2.00E+02	4.40E-31	5.45E-01	7.03E-01	6.70E-31	3.32E+00	3.88E+00	-1.19E-01	3.57E+00	3.99E+00	NA	NA	NA							
MW-42-76	Q2-2009	012	74	4.3	4/17.2009	10:49	2.74E+02	8.82E+02	1.89E+02	4.67E-31	5.74E-01	7.47E-01	1.61E+30	5.85E+00	3.90E+00	5.31E-11	3.60E+00	4.14E+00	6.53E+00	9.1E+01	2.16E+01							
MW-42-76	Q3-2009	013	74	4.3	7/16.2009	12:49	1.19E+02	8.25E+02	1.72E+02	2.90E-31	5.39E-01	6.73E-01	6.07E-31	1.40E+00	3.80E+00	8.71E-11	3.34E+00	3.94E+00	-7.52E+00	9.0E+01	2.32E+01							
MW-43-76	Q4-2008	010	73.5	25.3	10/31/2008	14:17	5.45E+02	7.48E+02	1.66E+02	2.11E-31	4.95E-01	5.66E-01	4.07E+00	7.10E+03	6.64E+00	1.13E+00	6.21E+00	6.53E+00	NA	NA	NA	2.91E+02	ND	ND	ND	NA	MW-43-76
MW-43-26	Q1-2009	011	23.5	25.3	4/7/2009	12:.4	3.14E+02	6.55E+02	1.51E+02	-1.43E-01	5.66E-01	7.05E-01	5.41E-31	5.93E+00	3.95E+00	-1.11E-01	3.45E+00	3.77E+00	NA	NA	NA							
MW-43-26	Q2-2009	012	23.5	25.3	7/31.2009	13:.0	1.30E+02	4.42E+02	1.56E+02	-2.45E-02	4.13E-01	5.46E-01	1.13E+10	6.04E+00	7.03E+00	-1.16E+00	6.23E+00	6.54E+00	NA	NA	NA							
MW-43-62	Q4-2008	031	52	-2.2	10/30/2008	12:18	2.42E+02	7.52E+02	1.86E+02	3.17E-31	5.13E-01	6.74E-01	-3.51E+00	6.92E+00	6.70E+00	1.23E+00	6.20E+00	7.08E+00	2.23E+02	7.84E-01	1.18E+01		ND	NA	MW-43-62
MW-43-62	Q1-2009	011	51	2.2	4/7/2009	13:59	1.31E+02	4.43E+02	1.52E+02	6.85E-31	5.88E-01	5.09E-01	1.18E+11	4.15E+00	4.19E+00	4.45E-01	3.89E+00	4.22E+00	NA	NA	NA							
MW-43-62	Q2-2009	012	51	-2.2	7/31.2009	12:52	1.18E+02	4.46E+02	1.59E+02	8.83E-31	4.79E-01	3.54E-01	-8.49E-01	5.09E+00	5.49E+00	-2.66E-01	7.25E+00	6.57E+00	NA	NA	NA							
MW-44-66	Q4-2008	033	62.4	31.1	10/23/2008	13:.7	3.16E+02	6.61E+02	1.66E+03	3.13E-31	4.83E-01	3.93E-01	-3.20E+00	6.21E+03	5.30E+00	-1.29E+00	5.73E+03	6.22E+00	3.95E+02	1.0	ND	ND	ND	NA	MW-44-66
MW-44-66	Q1-2009	011	62.4	31.1	4/9/2009	9:43	2.06E+02	9.42E+02	1.91E+02	4.52E-31	7.98E-01	8.95E-01	1.95E+10	3.53E+00	4.12E+00	3.02E+00	3.06E+00	4.12E+00	NA	NA	NA							
MW-44-66	Q2-2009	012	62.4	31.1	7/15.2009	13:32	3.10E+02	9.05E+02	2.06E+02	2.20E-31	1.53E-01	5.59E-01	7.77E-01	6.35E+00	4.25E+00	1.51E-01	4.49E+00	4.77E+00	NA	NA	NA							
MW-44-66	Q3-2009	013	62.4	31.1	7/29.2009	12:56	7.44E+02	2.08E+02	1.88E+02	6.54E-31	7.67E-01	8.03E-01	8.84E-32	6.04E+00	6.70E+00	1.83E+00	5.58E+00	6.59E+00	NA	NA	NA							
MW-44-102	Q4-2008	011	80	3.5	10/23/2008	13:48	4.75E+02	6.68E+02	1.65E+02	3.01E-31	4.65E-01	5.44E-01	1.71E+30	6.34E+03	7.28E+00	1.23E+00	6.12E+03	8.47E+00	NA	NA	NA	4.24E+02	1.0	ND	ND	NA	MW-44-102
MW-44-102	Q1-2009	012	80	3.5	2/2/2009	12:06	2.57E+02	9.42+02	1.93E+02	4.66E-31	5.12E-01	6.71E-01	9.83E-31	3.39E+00	4.02E+00	-9.45E-01	3.53E+00	3.74E+00	NA	NA	NA							
MW-44-102	Q2-2009	013	80	3.5	4/28.2009	13:24	5.14E+02	8.62E+02	1.80E+02	2.70E-31	7.10E-01	8.03E-01	9.60E-31	8.27E+00	5.51E+00	-2.47E-01	5.13E+00	5.35E+00	NA	NA	NA							
MW-44-102	Q3-2009	014	80	3.5	7/16.2009	12:08	4.54E+02	9.09E+02	2.06E+02	4.34E-31	5.40E-01	6.91E-01	-1.47E-01	6.79E+00	6.15E+00	-3.55E-01	5.49E+00	5.49E+00	NA	NA	NA							
MW-45-42	Q4-2008	014	37	6.6	10/22/2008	14:55	3.14E+03	8.03E+02	5.91E+02	4.62E-31	5.15E-01	5.29E-01	-1.04E+00	6.07E+03	5.26E+00	1.30E+00	8.93E+03	6.36E+00	NA	NA	NA	3.11E+03	ND	ND	ND	NA	MW-45-42
MW-45-42	Q1-2009	015	37	6.6	2/2/2009	18:02	1.41E+03	3.27E+02	1.97E+02	-1.78E-01	4.41E-01	6.64E-01	-1.41E+00	2.57E+00	2.67E+00	-1.27E+00	2.55E+00	2.57E+00	NA	NA	NA							
MW-45-42	Q2-2009	016	37	6.6	4/23.2009	15:20	5.99E+03	9.58E+02	4.08E+02	2.63E-31	5.23E-01	6.06E-01	-4.63E-01	4.41E+00	2.94E+00	-1.42E+00	2.49E+00	2.48E+00	NA	NA	NA							
MW-45-42	Q3-2009	017	37	6.6	7/24.2009	14:10	1.09E+03	2.50E+02	2.31E+02	5.09E-32	7.67E-01	9.17E-01	4.49E-31	3.25E+00	3.29E+00	1.20E+30	3.46E+01	4.18E+00	NA	NA	NA							
MW-45-6	Q4-2008	014	58	4.4	10/23/2008	9:33	1.27E+03	6.35E+02	5.90E+02	1.99E-31	5.53E-01	6.91E-01	-1.25E+00	5.07E+03	5.53E+00	1.04E+30	5.73E+03	6.52E+00	NA	NA	NA	1.13E+03	ND	ND	ND	NA	MW-45-61
MW-45-6	Q1-2009	015	58	4.4	2/2/2009	13:.3	1.36E+03	3.24E+02	1.99E+02	-1.47E-01	7.61E-01	9.47E-01	9.93E-31	3.59E+03	4.20E+00	2.30E-11	3.23E+03	3.56E+00	NA	NA	NA							
MW-45-6	Q2-2009	016	58	4.4	4/23.2009	10:20	1.40E+03	5.45E+02	4.05E+02	-1.77E-01	3.17E-01	8.06E-01	-4.72E-01	4.17E+00	2.78E+00	1.13E+00	2.54E+00	3.31E+00	NA	NA	NA							
MW-45-6	Q3-2009	017	58	4.4	7/24.2009	11:56	1.11E+03	2.93E+02	2.30E+02	3.10E-31	3.04E-01	9.63E-01	-5.29E-01	3.33E+03	3.69E+00	6.09E-11	3.24E+03	3.12E+00	NA	NA	NA							
MW-46	Q4-2008	014	105	7.6	10/20/2008	15:27	3.18E+03	8.44E+02	5.89E+02	9.33E-31	5.85E-01	5.11E-01	-2.27E+00	8.88E+03	5.91E+00	-5.85E-01	6.62E+03	6.39E+00	NA	NA	NA	9.9E+02	2.33E-01	ND	ND	NA	MW-46
MW-46	Q1-2009	015	105	7.6	2/5/2009	13:46	1.00E+03	2.88E+02	1.96E+02	-1.10E-01	5.23E-01	7.82E-01	-1.68E+00	2.78E+03	2.71E+00	7.02E-11	2.82E+03	3.28E+00	NA	NA	NA							
MW-46	Q2-2009	016	105	7.6	4/16.2009	12:31	7.56E+02	2.07E+02	1.48E+02	-7.39E-02	5.40E-01	6.63E-01	9.83E-34	5.58E+03	3.72E+00	1.54E+30	3.68E+03	4.40E+00	NA	NA	NA							
MW-46	Q3-2009	017	105	7.6	7/14.2009	13:57	8.32E+02	2.72E+02	2.30E+02	5.35E-31	7.99E-01	8.88E-01	1.07E-01	3.07E+03	3.10E+00	2.37E+30	7.07E+03	4.55E+00	NA	NA	NA							
MW-49-26	Q4-2008	010	19.1	-4.4	10/28/2008	15:40	3.47E+03	8.55E+02	1.91E+02	1.35E+31	5.05E+03	6.10E-01	-1.59E+00	8.03E+03	5.26E+00	-3.17E-01	6.65E+03	5.10E+00	2.93E+30	7.7E+01	2.32E+01	3.31E+03	4.1E+01	ND	ND	ND	MW-49-26
MW-49-26	Q1-2009	014	19.1	-4.4	2/6/2009	13:03	3.10E+03	2.66E+02

TABLE 3
THIRD QUARTER 2009 GROUNDWATER ANALYTICAL RESULTS AND AVERAGES
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER, Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS														YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Average	Average	Average	Average	Average	
MW-50-42	Q1-2009	017	42	-27.1	5/5/2009	14:11	3.92E+02	9.95E+02	1.72E+02	2.53E+00	3.93E-01	6.96E-01	5.89E-01	9.20E+00	6.13E+00	-2.20E+00	5.73E+00	3.71E+00	-9.59E+00	2.07E+01	2.42E+01						
MW-50-42	Q2-2009	018	42	-27.1	8/7/2009	13:30	1.06E+03	2.09E+02	1.70E+02	5.33E+00	2.55E+00	7.23E-01	7.74E-02	3.66E+00	4.11E+00	3.08E-11	3.27E+00	3.73E+00	1.25E+01	6.45E+01	1.74E+01						
MW-50-66	Q4-2008	013	66	-45.1	11/6/2008	12:38	2.73E+03	4.17E+02	1.88E+02	9.21E+00	3.03E+00	7.41E-01	-8.69E-01	5.97E+00	6.56E+00	-1.52E+00	8.96E+00	8.45E+00	-1.63E+00	2.07E+01	2.39E+01	2.24E+03	2.13E+01	ND	ND	ND	MW-50-66
MW-50-66	Mid-Quarter	019	66	-45.1	11/15/2008	16:29	2.43E+03	3.49E+02	1.73E+02	4.99E+01	3.75E+00	8.66E-01	2.51E+00	5.26E+00	2.61E+00	5.13E-11	2.70E+00	3.17E+00	-5.06E-01	9.98E+00	2.29E+01						
MW-50-66	Q1-2009	020	66	-45.1	1/22/2009	16:01	2.30E+03	2.18E+02	1.88E+02	2.75E+01	2.68E+00	4.01E-01	-1.68E+00	4.40E+00	3.99E+00	-1.51E-01	3.32E+00	3.56E+00	-9.13E+00	8.88E+00	2.23E+01						
MW-50-66	Q1-2009 Mid	021	66	-45.1	3/18/2009	15:06	3.13E+03	7.02E+02	3.55E+02	2.43E+01	2.55E+00	9.13E-01	1.95E-02	5.75E+00	3.93E+00	-9.77E-01	3.56E+00	3.55E+00	1.55E+00	7.08E+00	1.34E+01						
MW-50-66	Q1-2009	022	66	-45.1	5/5/2009	16:33	3.45E+03	6.35E+02	1.74E+02	2.82E+01	2.33E+00	6.13E-01	-4.27E+00	5.96E+00	5.07E+00	-6.11E-03	5.87E+00	6.54E+00	-1.53E+00	8.85E+00	2.13E+01						
MW-50-66	Q1-2009	023	66	-45.1	8/7/2009	16:27	3.00E+03	2.79E+02	1.79E+02	2.91E+01	2.54E+00	9.11E-01	2.03E-01	3.35E+00	3.82E+00	7.02E-11	3.51E+00	4.14E+00	-1.36E+00	8.83E+00	2.19E+01						
MW-51-48	Q4-2008	009	39.7	28	10/23/2008	13:11	3.68E+03	8.85E+02	1.95E+03	1.84E-12	4.26E-03	5.67E-01	4.51E-13	4.28E+00	4.82E+00	-1.63E+00	6.35E+00	6.59E+00	-5.63E+00	2.11E+01	2.46E+01	2.35E+03	1.1	ND	ND	ND	MW-51-48
MW-51-48	Q1-2009	010	39.7	28	1/20/2009	14:50	2.37E+03	6.82E+02	1.92E+02	1.92E-31	7.95E-01	9.70E-01	9.39E-31	2.81E+00	3.26E+00	1.03E+00	2.75E+00	3.30E+00	8.92E+00	6.67E+00	1.37E+01						
MW-51-48	Q1-2009	011	39.7	28	5/7/2009	14:19	2.09E+03	7.67E+02	1.81E+02	1.10E-11	9.81E-01	8.77E-01	1.11E+10	7.80E+00	4.73E+00	-1.14E+00	6.00E+00	5.38E+00	-1.16E+00	8.9E+00	2.11E+01						
MW-51-48	Q2-2009	012	39.7	28	8/12/2009	13:42	2.67E+02	7.02E+02	1.79E+02	6.39E-32	5.69E-01	6.89E-01	2.93E-31	3.35E+00	3.41E+00	1.03E+00	3.01E+00	3.56E+00	-5.55E+00	9.5E+00	2.27E+01						
MW-51-79	Q4-2008	049	78.7	-11	10/23/2008	12:30	1.14E+31	6.22E+02	1.89E+02	3.14E-33	5.14E-01	7.85E-01	8.43E-31	5.07E+03	5.75E+03	2.43E+10	5.21E+03	6.37E+03	3.72E+30	7.7E+01	2.12E+01	1.93E+32	ND	ND	ND	ND	MW-51-79
MW-51-79	Q1-2009	010	78.7	-11	1/20/2009	15:21	1.01E+32	5.35E+02	1.48E+02	-1.71E-01	3.15E-01	5.02E-01	5.93E-31	5.57E+00	3.65E+00	-2.64E-01	3.21E+00	3.56E+00	1.52E+31	7.3E+01	1.80E+01						
MW-51-79	Q1-2009	011	78.7	-11	5/7/2009	15:10	6.19E+31	5.67E+02	1.81E+02	8.07E-11	7.59E-01	8.70E-01	-5.17E-11	6.68E+00	5.19E+00	2.93E+10	5.79E+00	6.27E+00	-6.46E+00	7.9E+01	2.19E+01						
MW-51-79	Q2-2009	012	78.7	-11	8/12/2009	11:11	1.99E+32	6.77E+02	1.80E+02	7.34E-32	4.50E-01	5.53E-01	-4.76E-01	4.82E+00	4.34E+00	-1.34E+00	4.26E+00	4.21E+00	-1.73E+01	8.3E+01	2.19E+01						
MW-51-104	Q4-2008	047	103.7	-36	10/22/2008	16:07	1.21E+32	3.95E+02	1.49E+03	1.19E-31	4.97E-01	6.13E-01	5.61E+30	6.81E+03	8.52E+03	5.73E+08	8.93E+03	8.26E+03	-1.61E+00	8.84E+01	2.12E+01	2.91E+32	ND	ND	ND	ND	MW-51-104
MW-51-104	Q1-2009	038	103.7	-36	1/20/2009	10:46	9.95E+31	5.33E+02	1.48E+02	9.07E-33	3.78E-01	5.04E-01	-1.13E+00	2.87E+00	3.03E+00	-1.01E+00	2.37E+00	3.42E+00	-2.60E+00	2.00E+01	2.33E+01						
MW-51-104	Q1-2009	039	103.7	-36	5/7/2009	11:48	1.11E+32	6.12E+02	1.78E+02	-1.15E-01	5.36E-01	7.99E-01	-8.55E-01	5.79E+00	3.86E+00	4.67E-11	3.51E+00	4.31E+00	-1.35E+01	1.36E+01	2.71E+01						
MW-51-104	Q2-2009	040	103.7	-36	8/11/2009	11:40	2.91E+32	7.15E+02	1.80E+02	1.27E-31	3.65E-01	4.36E-01	8.06E-31	6.58E+00	3.82E+00	1.09E-11	3.93E+00	4.36E+00	-2.40E+00	8.6E+01	2.16E+01						
MW-51-135	Q4-2008	017	135.2	-67.5	10/22/2008	10:05	7.68E+31	7.32E+02	1.89E+02	2.72E-36	5.05E-01	6.63E-01	-1.74E+00	7.26E+03	5.63E+03	3.82E+10	6.09E+03	7.59E+03	-3.15E-01	7.4E+01	2.13E+01	ND	ND	ND	ND	ND	MW-51-135
MW-51-135	Q1-2009	038	135.2	-67.5	1/20/2009	11:02	1.31E+02	5.25E+02	1.48E+02	-3.14E-01	3.41E-01	5.64E-01	-6.91E-01	5.89E+00	4.31E+00	9.34E-11	3.98E+00	4.10E+00	1.08E+01	7.1E+01							
MW-51-135	Q2-2009	039	135.2	-67.5	5/7/2009	11:53	2.41E+31	4.33E+02	1.71E+02	8.54E-32	1.71E-01	5.92E-01	3.06E+30	7.04E+00	4.60E+00	7.13E-01	3.77E+00	4.30E+00	2.11E+01	3.24E+01	2.50E+01						
MW-51-135	Q2-2009	041	135.2	-67.5	8/12/2009	10:12	9.58E+01	6.1E+02	1.79E+02	-1.72E-01	4.93E-01	6.57E-01	-1.17E+00	3.75E+00	3.74E+00	2.63E+10	3.30E+00	4.29E+00	-1.50E+01	8.1E+01	2.17E+01						
MW-51-163	Q4-2008	017	162.7	-95	10/22/2008	10:30	5.51E+31	6.67E+02	1.95E+02	2.59E-31	5.71E-01	6.67E-01	-1.71E+00	5.18E+03	6.73E+03	5.42E+31	6.38E+03	6.92E+03	2.21E+30	6.8E+01	2.14E+01	ND	ND	ND	ND	ND	MW-51-163
MW-51-163	Q1-2009	038	162.7	-95	1/20/2009	11:44	4.60E+31	5.81E+02	1.93E+02	-1.19E-01	4.97E-01	6.95E-01	-9.40E-01	5.14E+00	5.47E+00	-7.40E-02	5.24E+00	5.94E+00	-1.11E+01	8.8E+01	2.14E+01						
MW-51-163	Q2-2009	039	162.7	-95	5/7/2009	12:09	5.60E+31	5.62E+02	1.81E+02	-5.45E-02	4.61E-01	6.13E-01	-7.16E-01	5.09E+00	3.39E+00	1.03E+10	3.63E+00	3.53E+00	4.13E+00	8.9E+01	2.15E+01						
MW-51-163	Q3-2009	040	162.7	-95	8/11/2009	11:18	1.41E+32	6.3E+02	1.79E+02	7.34E-32	5.76E-01	6.99E-01	7.91E-31	4.74E+00	4.26E+00	-2.31E+00	3.93E+00	3.76E+00	-3.79E+00	8.8E+01	2.19E+01						
MW-51-189	Q4-2008	013	189.2	-21.5	10/22/2008	10:11	7.60E+31	7.84E+02	1.99E+02	6.61E-30	7.14E-01	7.51E-01	6.11E-31	6.33E+03	7.30E+03	3.84E+10	6.13E+03	7.49E+03	-6.55E+00	8.4E+01	2.17E+01	ND	ND	ND	ND	ND	MW-51-189
MW-51-189	Q1-2009	038	189.2	-21.5	1/20/2009	11:33	3.32E+01	5.3E+02	1.48E+02	2.14E-01	3.45E-01	5.59E-01	-2.15E+00	3.48E+00	3.62E+00	1.91E+10	3.32E+00	4.20E+00	-8.53E+00	7.9E+01	2.11E+01						
MW-51-189	Q2-2009	039	189.2	-21.5	5/7/2009	11:55	2.06E+01	5.22E+02	1.81E+02	1.44E-31	3.33E-01	6.41E-01	1.73E+30	9.39E+00	6.26E+00	-1.22E+00	5.79E+00	6.11E+00	-3.56E+00	8.6E+01	2.14E+01						
MW-51-189	Q3-2009	040	189.2	-21.5	8/12/2009	11:1	2.75E+01	5.9E+02	1.69E+02	7.76E-31	3.8E-01	6.41E-01	9.95E-31	3.87E+00	4.47E+00	1.47E+10	3.84E+00	4.50E+00	-1.68E+00	7.4E+01	2.17E+01						
MW-52-1	Q2-2009	014	6.8	-2.6	5/6/2009	14:22	5.19E+32	4.61E+02	1.72E+02	6.53E-32	5.64E-01	7.17E-01	2.95E-31	5.52E+03	5.01E+00	1.41E+30	5.07E+03	6.34E+00	NA	NA	NA	5.12E+32	ND	ND	ND	ND	MW-52-1
MW-52-1	Q3-2009	014	17.3	-2.6	8/12/2009	10:55	2.20E+32	5.01E+02	1.71E+02	4.72E-32	5.55E-01	7.33E-01	-2.47E-02	5.20E+00	5.20E+00	8.89E-11	4.46E+03	5.36E+00	NA	NA	NA	2.27E+32	ND	ND	ND	NA	MW-52-1
MW-52-44	Q2-2009	044	42	-33.1	5/5/2009	11:55	1.43E+32	8.04E+01	1.00E+02	4.53E-32	3.02E-01	7.02E-01	1.13E+30	6.01E+03	5.07E+00	2.73E+00	4.81E+03	4.99E+00	NA	NA	NA	1.41E+32	ND	ND	ND	NA	MW-52-44
MW-52-66	Q2-2009	014	64	-49.1	5/5/2009	13:50	-1.12E+01	8.27E+01	1.80E+03	8.33E-31	7.01E-01	7.72E-01	1.81E+30	6.54E+03	4.36E+00	1.54E+30	4.25E+03	6.10E+00	NA	NA	NA	ND	ND	ND	ND	NA	MW-52-66
MW-52-104	Q2-2009	014		-43.0	5/6/2009	12:03	3.15E+32	1.03E+02	1.86E+02	-3.14E-01	4.29E-01	6.93E-01	3.01E+30	6.58E+03	5.70E+00	1.37E+30	4.66E+03	5.55E+00	NA	NA	NA	1.15E+32	ND	ND	ND	NA	MW-52-104
MW-52-162	Q2-2009	014	161.5	-142.8	5/6/2009	12:06	4.92E+02	1.45E+02	1.72E+02	-1.49E-01	3.63E-01	7.37E-01	-5.69E-01	6.58E+03	5.06E+00	-1.08E+00	5.06E+03	5.17E+00	NA	NA	NA	4.92E+02	ND	ND	ND	NA	MW-52-162
MW-52-181	Q2-2009	014	181	-161.5	5/6/2009	12:07	1.47E+32	6.95E+01	1.81E+02	-4.15E-02	5.36E-01	7.43E-01	-2.27E+00	3.82E+03	3.88E+00	-1.51E+00	4.17E+03	4.27E+00	NA	NA	NA	1.47E+32	ND	ND	ND	NA	MW-52-181
MW-53-82	Q4-2008	049	75	-4.7	10/30/2008	15:52	7.94E+32	2.37E+02	1.65E+02	4.79E-03	2.99E-01	9.19E-01	3.86E+30	6.31E+03	7.56E+00	1.78E+00	6.33E+03	6.53E+00	-4.83E+00	6.5E+01	3.73E+01	1.05E+33	1.30E+03	7.68E+00	ND	ND	MW-53-82
MW-53-82	Q1-2009	010	75	-4.7	1/26/2009	12:00	4.26E+33	3.06E+02	1.92E+02	2.33E-30	1.07E+00	9.76E-01	1.13E+30	3.96E+00	4.51E+00	-2.15E-01	3.59E+00	3.38E+00	8.04E+30	6.6E+01	1.34E+01						
MW-53-82	Q2-2009	011	75	-4.7	4/14/2009	14:58	1.75E+33	3.14E+02	1.36E+02	-3.13E-01	7.29E-01	8.97E-01	7.73E+30	6.60E+00	4.40E+00	1.20E-11	4.34E+00	4.34E+00	-1.09E+00	8.5E+01	2.16E+01						
MW-53-82	Q3-2009	012	75	-4.7	7/11/2009	10:26	9.82E+32	2.62E+02	1.49E+02	1.91E-31	3.87E-01	6.81E-01	3.71E+30	6.31E+03	5.11E+00	1.14E+30	4.97E+03	5.53E+00	-9.53E+00	8.1E+01	2.15E+01						
MW-53-120	Q4-2008	011	109.8	-39.5	10/30/2008	13:00	5.57E+03	5.32E+02	1.66E+02	2.51E+31	1.04E+03	3.80E+31	3.27E+30	6.77E+03	5.76E+00	9.13E+00	6.26E+00	6.48E+00	1.73E+01	6.9E+01	1.73E+01	5.31E+03	1.95E+01	ND	ND	ND	MW-53-120
MW-53-120	Mid-Quarter	012	109.8	-39.5	11/17/2008	10:31	5.04E+33	3.23E+02	1.72E+02	4.25E+31	3.63E+00	6.74E-01	3.25E-31	4.72E+00	5.28E+00	-1.66E-02	4.09E+00	4.49E+00	2.12E+31	2.03E+01	2.21E+01						
MW-53-120	Q1-2009	013	109.8	-39.5	1/26/2009	12:43	5.06E+03	3.26E+02	1.92E+02	2.64E+31	2.37E+00	7.50E-01	-3.06E-01	4.53E+00	5.10E+00	2.32E+30	4.34E+00	5.39E+00	1.12E+31	2.22E+01	2.49E+01						
MW-53-120	Q1-2009 Mid	014	109.8	-39.5	3/16/2009	9:43	5.07E+03	6.51E+02	3.81E+02	2.37E+31	3.07E+00	7.53E-01	-9.24E-02	7.48E+00	6.15E+00	-7.15E-01	8.48E+00	7.13E+00	1.13E+31	8E+01	1.21E+01						
MW-53-120	Q2-2009	015	109.8	-39.5	4/14/2009	13:08	5.65E+03	5.40E+02	1.36E+02	2.95E+31	2.19E+00	5.66E+01	-2.26E+00	6.15E+03	4.10E+00	-6.33E+01	3.86E+03	4.10E+00	8.66E+30	8.3E+01	2.37E+01						
MW-53-120	Q3-2009	016	109.8	-39.5	7/11/2009	13:38	5.40E+03	5.18E+02	2.07E+02	4.00E-31	3.46E-01	5.93E-01	-1.68E+00	3.42E+03	3.59E+00	3.12E+30	3.86E+03	5.33E+00	4.52E+30	6.6E+01	1.38E+01						
MW-54-37	Q4-2008	017	36.5	-23.4	11/11/2008	13:16	3.25E+03	3.02E+02	1.73E+02	2.31E+30	4.51E+00	5.76E-01	-2.50E+00	6.27E+03	6.87E+00	2.81E+00	5.34E+03	6.50E+00	2.47E+30	9.2E+01	2.11E+01	1.27E+33	5.39E+01	ND	ND	ND	MW-54-37
MW-54-37	Q1-2009	018	36.5	-23.4	2/3/2009	15:34	1.16E+03	1.86E+02	1.64E+02	2.93E+30	1.16E+00	6.66E-01	1.77E+30	3.33E+00	3.92E+00	-1.15E+00	3.24E+00	3.14E+00	-3.14E+00	2.16E+01	2.50E+01						
MW-54-37	Q2-2009	019	36.5	-23.4	5/6/2009	11:51	1.24E+03	2.79E+02	1.81E+02	6.03E+30	2.01E+00	4.72E-01	-1.01E+00	2.22E+00	2.01E+00	-1.10E+00	2.72E+00	2.91E+00	4.13E+30	9.9E+01	2.10E+01						
MW-54-37	Q3-2009	020	36.5	-23.4	8/4/2009	14:35	1.47E+33	3.26E+02	2.57E+02	5.51E+30	1.87E+00	6.88E-01	-3.76E-01	3.94E+00	4.29E+00	8.01E-11	4.43E+00	4.53E+00	5.81E+30	9.1E+01	2.41E+01						
MW-54-58	Q4-2008	017	57.5	-44.4	11/11/2008	13:02	6.96E+02	2.85E+02	1.74E+03	9.03E+30	6.65E+00	5.87E-01	-7.43E-01	3.71E+03	3.89E+00	-1.32E+00	3.56E+03	3.31E+00	3.01E+30	9.1E+01	2.18E+01	7.07E+32	1.60E+01	ND	ND	ND	MW-54-58
MW-54-58	Q1-2009	018	57.5	-44.4	2/3/2009	14:53	6.82E+32	7.12E+02	1.66E+02	1.99E+30	3.52E-01	7.24E-01	9.58E-31	2.78E+00	3.29E+00	4.22E-11	3.94E+00	3.39E+00	-3.15E+00	9.5E+01	2.27E+01						
MW-54-58	Q2-2009	019	57.5	-44.4	5/6/2009	12:23	2.24E+02	2.24E+02	1.72E+02	2.03E+30	3.50E-01	6.94E-01	2.19E+30	6.09E+00	4.00E+00	-2.30E+00	3.63E+00	3.32E+00	-1.52E+01	2.15E+01	2.50E+01						
MW-54-58	Q3-2009	020	57.5	-44.4	8/4/2009	14:10	7.81E+32	7.73E+02	2.94E+02	1.41E+30	3.04E-01	7.44E-01	-1.71E+00	3.95E+00	3.97E+00	-9.66E-01	3.67E+00	3.79E+00	8.94E-11	9.2E+01	2.50E+01						
MW-54-123	Q4-2008	017	123	-69.8	11/11/2008	11:03	5.88E+02	7.75E+02	1.71E+02	1.25E+31	2.10E+03	7.26E-01	-6.72E-01	5.34E+03	5.51E+00	1.63E+00	4.29E+03	5.52E+00	4.68E+00	8.3E+01	2.15E+01	6.07E+32	6.75E+01	ND	ND	ND	MW-54-123
MW-54-123	Q1-2009	018	123	-69.8	2/3/2009	11:55	5.31E+32	6.62E+02	1.64E+02	5.91E+30	1.55E+00	5.70E-01	9.03E-31	3.03E+00	3.59E+00	5.33E-12	3.09E+00	3.52E+00	9.09E-11	2.00E+01	2.30E+01						
MW-54-123	Q2-2009	019	123	-69.8	5/6/2009	12:40	6.94E+32	7.26E+02	1.79E+02	3.49E+30	1.01E+00	5.20E-01	-1.72E+00	5.94E+00	3.99E+00	4.02E+00	3.18E+00	3.44E+00	2.07E-11	1.8E+01	2.13E+01						
MW-54-123	Q3-2009	020	123	-69.8	8/4/2009	14:10	6.26E+32	7.63E+02	2.38E+02	4.58E+30	2.42E+00	7.76E-01	6.28E-31	5.50E+00	5.06E+00	1.36E-11	4.76E+00	4.11E+00	1.17E+31	8.1E+01	2.12E+01						
MW-54-144	Q4-2008	013	144	-30.9	11/11/2008	11:06	1.14E+03	3.03E+02	1.72E+02	2.01E+31	1.27E+03	4.69E-01	-6.18E-01	1.80E+03	4.30E+00	5.67E-11	5.17E+03	5.96E+00	4.81E+30	1.09E+01	2.19E+01	1.27E+33	1.59E+01	ND	ND	ND	MW-54-144
MW-54-144	Q1-2009	038	144	-30.9	2/3/2009	12:41	1.13E+03	3.03E+02	1.77E+02	1.44E+31	1.76E+03	6.51E-01	-5.18E-03	3.15E+03	3.46E+00	-2.10E-02	2.91E+03	3.20E+00	2.21E+30	3.7E+01	2.76E+01						
MW-54-144	Q2-2009	039	144	-30.9	5/6/2009	10:13	1.42E+33	2.91E+02	1.79E+02	1.43E+31	1.89E+03	5.95E-01	-1.15E+00	4.97E+03	3.51E+00	9.07E-11	3.35E+03	3.40E+00	-5.83E+00	9.1E+01	2.21E+01						
MW-54-144	Q3-2009	040	144	-30.9	8/4/2009	11:10	1.29E+33	3.15E+02	2.29E+02	1.51E+31	2.75E+03	7.02E-01	6.70E-31	5.91E+03	3.83E+00	1.51E+00	3.72E+03	3.56E+00	1.81E+31	2.0E+01	2.50E+01						
MW-54-173	Q4-2008	017	172.5	-59.4	11/11/2008	11:07	1.66E+03	3.24E+02	1.75E+02	1.51E+31	2.12E+03	7.21E-01	1.51E-31	8.23E+03	4.77E+00	-5.34E-01	5.93E+03	6.19E+00	3.01E+30	9.2E+01	2.20E+01	1.77E+33	1.10E+01	ND	ND	ND	MW-54-173
MW-54-173	Q1-2009	038	172.5	-59.4	2/3/2009	12:19	1.98E+03	5.45E+02	1.85E+02	1.02E+31	1.45E+03	5.93E-01	-1.52E+00	3.03E+03	3.08E+00	-2.27E+00	3.20E+03	2.24E+00	4.01E+30	3.7E+01	2.76E+01						
MW-54-173	Q2-2009	039	172.5	-59.4	5/6/2009	10:34	1.57E+03	3.03E+02	1.80E+02	8.59E+30	4.46E+00	7.75E-01	3.40E-31	5.16E+03	3.44E+00	1.02E+30	3.63E+03	3.14E+00	-1.38E+00	9.2E+01	2.20E+01						
MW-54-173	Q3-2009	040	172.5	-59.4	8/4/2009	11:45	1.57E+03	3.56E+02	2.34E+02	9.12E+30	5.12E+00	7.94E-01	1.49E-30	5.33E+03	3.92E+00	-6.41E-01	3.98E+03	3.14E+00	3.62E+30	2.1E+01	2.49E+01						
MW-54-190	Q4-2008	017	190	-76.9	11/11/2008	11:09	3.48E+03	3.10E+02	1.69E+02	3.51E+31	3.17E+03	6.14E-01	-5.43E-01	6.80E+03	4.56E+00	-4.62E-01	5.54E+03	5.91E+00	4.39E+30	9.1E+01	2.20E+01	1.67E+33	2.31E+01	ND	ND	ND	MW-54-190
MW-54-190	Q1-2009	038	190	-76.9	2/3/2009	12:35	1.43E+33	4.88E+02	1.80E+02	1.91E+31	2.85E+03	3.85E-01	-1.18E+00	3.48E+03	3.74E+00	7.39E-11	3.08E+03	3.70E+00	-5.10E+00	2.37E+01	2.84E+01						
MW-54-190	Q2-2009	039	190	-76.9	5/6/2009	10:27	1.60E+03	3.05E+02	1.80E+02	1.91E+31	2.07E+03	4.19E-01	2.31E+30	7.22E+03	4.81E+00	-8.14E-01	3.86E+03	4.36E+00	-2.10E+00	9.4E+01	2.23E+01						
MW-54-190	Q3-2009	040	190	-76.9	8/4/2009	11:20	1.94E+33	3.62E+02	2.26E+02	1.91E+31	2.00E+03	6.71E-01	-7.49E-01	3.31E+03	3.53E+00	9.20E-11	3.99E+03	4.59E+00	-1.31E+00	2.14E+01	2.47E+01						
MW-55-24	Q4-2008	018	24	3.1	10/21/2008	15:06	7.93E+02	3.67E+02	1.83E+03	1.69E+00	5.97E-03	5.59E-01	1.13E+00	6.92E+00	5.13E+00	2.68E+00	6.66E+00	6.58E+00	-6.77E+00	7.8E+01	2.19E+01	1.04E+33	3.55E+00	ND	ND	ND	MW-55-24
MW-55-24	Q1-2009	039	16	2.3	2/11/2009	12:55	1.04E+33	4.49E+02	1.84E+02	1.62E+31	7.42E+03	3.85E-01	1.91E+30	3.88E+03	3.50E+00	1.35E+30	3.14E+03	3.76E+00	-1.21E+01	2.45E+01	2.99E+01						
MW-55-24	Q2-2009	010	16	2.3	4/29/2009	11:28	1.14E+33	2.69E+02	1.80E+02	1.55E+31	7.88E+03	6.50E-01	-1.11E-01	3.02E+03	6.77E+00	-9.11E-01	4.91E+03	5.14E+00	4.83E+30	9.5E+01	2.22E+01						
MW-55-24	Q3-2009	011	16	2.3	8/5/2009	13:52	1.59E+33	3.59E+02	2.37E+02	3.07E+31	2.52E+03	7.22E-01	-7.10E-01	3.74E+03	3.61E+00	1.63E+30	3.92E+03	3.52E+00	4.83E+30	2.2E+01	2.59E+01						
MW-55-35	Q4-2008	018	32	-13.8	10/21/2008	13:46	8.63E+32	2.36E+02	1.84E+02	1.47E+31	8.22E+03	4.32E-01	1.01E+30	3.14E+03	3.68E+00	1.58E+30	3.78E+03	3.15E+00	3.46E+30	2.3E+01	2.59E+01	2.11E+03	1.17E+01	ND	ND	ND	MW-55-35
MW-55-35	Q1-2009	039	32	-13.8	2/4/2009	11:26	2.70E+33	3.37E+02	1.81E+02	3.51E+31	3.79E+03	6.05E-01	4.16E+00	6.72E+03	4.41E+00	7.97E-11	4.22E+03	5.34E+00	7.31E+30	2.5E+01	2.28E+01						
MW-55-35	Q2-2

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TABLE 3
THIRD QUARTER 2009 GROUNDWATER ANALYTICAL RESULTS AND AVERAGES
INDIAN POINT ENERGY CENTER
BUCUANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER, Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS													YEARLY ROLLING AVERAGES[4]					
							TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Average	Average	Average	Average	Average	
MW-58-2a	Q1-2009	038	20	-5.4	4/24/2009	12:21	4.13E+02	4.8E+02	1.47E+02	5.74E-02	4.53E-01	5.97E-01	1.23E+00	4.20E+00	2.83E+00	1.02E-01	2.31E+01	2.37E+00	NA	NA	NA						
MW-58-65	Q4-2008	036	-34	39.4	11/7/2008	10:56	2.81E+02	4.6E+02	1.62E+02	6.19E-01	1.77E-01	1.82E-01	9.13E-02	3.33E+00	3.06E+00	1.51E+00	2.21E+01	2.78E+00	NA	NA	NA	2.63E+02	ND	ND	ND	NA	MW-58-65
MW-58-65	Q1-2009	037	-54	-39.4	2/3/2009	12:05	2.75E+02	2.03E+02	1.95E+02	6.60E-01	3.00E-01	8.56E-01	-8.45E-01	3.21E+00	3.41E+00	1.91E+00	3.09E+01	3.39E+00	NA	NA	NA						
MW-58-65	Q2-2009	038	-54	-39.4	4/24/2009	11:52	2.33E+02	1.67E+02	1.78E+02	-2.56E-01	4.62E-01	6.58E-01	9.67E-02	3.86E+00	2.57E+00	-1.14E-01	2.46E+01	2.72E+00	NA	NA	NA						
MW-60-35	Q4-2008	017	-34.2	-22.4	1/5/2009	15:05	3.42E+02	6.8E+02	1.99E+02	3.62E-01	5.01E-01	6.09E-01	-2.38E+00	5.68E+03	6.67E+00	-1.83E+00	6.52E+03	7.56E+00	NA	NA	NA	2.3E+02	ND	ND	5D	NA	MW-60-35
MW-60-35	Q1-2009	018	-34.2	-22.4	2/9/2009	16:2	2.00E+02	5.3E+02	1.95E+02	3.81E-01	3.27E-01	9.41E-01	1.10E+00	3.89E+03	3.19E+00	3.53E-01	3.96E+03	3.22E+00	3.56E+00	2.39E-01	2.32E+01					
MW-60-35	Q2-2009	019	-34.2	-22.4	5/5/2009	14:06	1.54E+02	6.6E+02	1.71E+02	3.09E-01	3.43E-01	7.50E-01	1.11E+00	2.76E+03	5.84E+00	7.27E-01	5.60E+03	6.58E+00	NA	NA	NA						
MW-60-35	Q3-2009	010	-34.2	-22.4	8/11/2009	14:41	2.60E+02	4.9E+02	1.53E+02	3.16E-01	4.41E-01	4.71E-01	2.47E+00	5.67E+03	6.63E+00	3.45E+00	6.18E+03	7.58E+00	5.77E+00	7.9E+01	2.33E+01					
MW-60-53	Q4-2008	017	-53.4	-40.9	1/5/2009	14:12	3.38E+02	6.8E+02	1.99E+03	-1.15E-01	5.83E-01	8.17E-01	8.77E-01	4.58E+03	5.23E+00	1.33E+00	5.78E+03	6.58E+00	8.51E+02	1.1	ND	ND	ND	NA	MW-60-53
MW-60-53	Q1-2009	038	-53.4	-40.9	2/9/2009	11:28	1.31E+02	7.9E+02	1.90E+02	4.01E-01	3.09E-01	9.06E-01	-1.28E+00	3.80E+03	3.55E+00	6.34E-01	3.78E+03	3.22E+00	-1.14E+00	2.43E+01	2.35E+01					
MW-60-53	Q2-2009	019	-53.4	-40.9	5/5/2009	10:08	4.99E+02	1.13E+02	1.75E+02	6.40E-10	6.75E-01	8.03E-01	7.75E-01	1.8E+00	2.89E+00	-3.16E+00	2.10E+01	2.95E+00	0.01E+30	7.59E+01	2.31E+01					
MW-60-53	Q3-2009	010	-53.4	-40.9	8/11/2009	14:26	2.03E+02	5.6E+02	1.69E+02	1.35E-31	7.18E-01	8.69E-01	1.11E+00	4.86E+03	5.53E+00	4.62E-32	4.88E+03	5.44E+00	-3.23E+00	7.1E+01	2.30E+01					
MW-60-72	Q4-2008	017	-72.4	-59.9	1/5/2009	14:58	3.94E+02	6.6E+02	1.78E+02	3.09E-31	5.54E-01	7.72E-01	-9.53E-01	5.62E+03	6.09E+00	-1.43E+00	5.36E+03	5.56E+00	NA	NA	NA	1.84E+02	ND	ND	5D	NA	MW-60-72
MW-60-72	Q1-2009	038	-72.4	-59.9	2/9/2009	11:25	1.67E+02	5.5E+02	1.69E+02	-4.16E-01	7.19E-01	9.60E-01	-6.54E-01	3.90E+03	3.30E+00	7.53E-31	3.95E+03	3.59E+00	-9.25E+00	2.24E+01	2.56E+01					
MW-60-72	Q2-2009	019	-72.4	-59.9	5/5/2009	10:12	1.57E+02	4.7E+02	1.75E+02	5.56E-01	7.71E-01	9.29E+10	1.07E+01	7.59E+00	6.97E+01	1.75E+00	6.97E+01	7.24E+00	NA	NA	NA						
MW-60-72	Q3-2009	010	-72.4	-59.9	8/11/2009	10:40	1.73E+02	5.5E+02	1.69E+02	6.31E-32	5.38E-01	6.80E-01	2.63E+30	3.88E+03	4.62E+00	4.35E+30	6.15E+03	5.56E+00	-2.42E+00	7.6E+01	2.34E+01					
MW-60-135	Q4-2008	017	-134.9	-22.4	1/6/2009	10:49	4.25E+02	7.0E+02	1.99E+03	1.11E-01	5.01E-01	7.18E-01	-2.18E-02	5.73E+03	6.40E+00	-3.53E+00	8.25E+03	5.99E+00	NA	NA	NA	3.61E+02	ND	ND	5D	1.1	MW-60-135
MW-60-135	Q1-2009	038	-134.9	-22.4	2/9/2009	12:04	3.83E+02	6.7E+02	1.69E+02	5.52E-31	5.99E-01	6.39E-01	1.42E+30	2.90E+03	3.48E+00	4.24E-31	3.05E+03	3.35E+00	3.74E+30	2.27E+01	2.58E+01					
MW-60-135	Q2-2009	039	-134.9	-22.4	5/5/2009	10:54	3.17E+02	8.5E+02	1.71E+02	-1.77E-01	5.12E-01	7.45E-01	-3.23E+00	4.31E+01	8.76E+00	3.12E-31	6.81E+01	7.54E+00	NA	NA	NA						
MW-60-135	Q3-2009	010	-134.9	-22.4	8/11/2009	10:52	3.46E+02	6.4E+02	1.69E+02	4.65E-31	5.08E-01	6.16E-01	1.73E+30	3.36E+03	4.02E+00	4.56E-31	3.51E+03	3.93E+00	-3.72E+00	7.7E+01	2.27E+01					
MW-60-154	Q4-2008	017	-154.4	-41.9	1/6/2009	11:19	6.87E+02	4.1E+02	1.86E+02	6.12E-31	5.57E-01	7.19E-01	1.47E+30	9.96E+03	5.91E+00	5.49E-31	5.87E+03	6.51E+00	NA	NA	NA	5.21E+02	ND	ND	5D	NA	MW-60-154
MW-60-154	Q1-2009	038	-154.4	-41.9	2/9/2009	12:15	4.12E+02	6.5E+02	1.87E+02	4.03E-31	5.09E-01	8.90E-01	7.14E-31	3.02E+03	3.45E+00	1.01E+30	3.54E+03	4.13E+00	-3.34E+00	2.09E+01	2.42E+01					
MW-60-154	Q2-2009	039	-154.4	-41.9	5/5/2009	11:5	4.32E+02	2.01E+02	1.72E+02	7.36E-32	5.70E-01	6.83E-01	2.72E-01	6.89E+03	4.59E+00	1.47E+00	5.97E+03	5.12E+00	NA	NA	NA						
MW-60-154	Q3-2009	010	-154.4	-41.9	8/11/2009	11:4	5.13E+02	7.1E+02	1.69E+02	-3.72E-01	7.19E-01	9.69E-01	-3.53E-01	5.04E+03	5.67E+00	-2.59E+00	6.06E+03	6.34E+00	1.97E+30	2.8E+01	2.29E+01					
MW-60-176	Q4-2008	017	-175.9	-63.4	1/6/2009	11:55	8.32E+02	4.3E+02	1.86E+02	2.17E-31	4.71E-01	5.45E-01	-2.43E+00	5.89E+03	5.07E+00	-3.16E+01	5.66E+03	6.32E+00	NA	NA	NA	9.55E+02	ND	ND	5D	NA	MW-60-176
MW-60-176	Q1-2009	038	-175.9	-63.4	2/9/2009	13:08	9.10E+02	9.1E+02	1.70E+02	4.45E-31	5.58E-01	7.58E-01	-2.42E-01	3.17E+03	3.56E+00	5.10E-31	3.29E+03	3.74E+00	-1.24E+01	2.08E+01	2.44E+01					
MW-60-176	Q2-2009	039	-175.9	-63.4	5/5/2009	11:8	1.04E+03	2.64E+02	1.72E+02	3.40E-31	5.08E-01	6.90E-01	-4.10E+00	8.45E+03	5.63E+00	1.23E+30	5.69E+03	6.59E+00	NA	NA	NA						
MW-60-176	Q3-2009	010	-175.9	-63.4	8/11/2009	11:49	1.09E+03	9.6E+02	1.69E+02	-2.76E-02	3.44E-01	4.63E-01	1.79E+30	4.84E+03	5.71E+00	2.35E+30	4.89E+03	5.31E+00	-2.45E+00	7.7E+01	2.17E+01					
MW-62-15	Q4-2008	035	13.5	1.2	10/26/2008	10:20	4.03E+02	6.6E+02	1.66E+02	6.23E-31	5.03E-01	6.37E-01	-3.19E-02	5.10E+03	5.60E+00	-3.51E+00	6.25E+03	6.78E+00	NA	NA	NA	3.91E+02	6.9E+00	ND	ND	NA	MW-62-15
MW-62-15	Q1-2009	038	13.5	1.2	/23/2009	11:55	4.64E+02	3.9E+02	1.87E+02	1.01E+30	5.47E-01	6.00E-01	9.88E-31	2.55E+03	3.06E+00	-3.42E-01	2.48E+03	2.74E+00	NA	NA	NA						
MW-62-15	Q2-2009	039	13.5	1.2	4/15/2009	13:8	4.56E+02	8.5E+02	1.36E+02	1.76E-31	5.99E-01	7.14E-01	-3.74E-01	5.81E+03	3.87E+00	1.91E+00	3.29E+03	4.20E+00	-1.68E+00	8.6E+01	2.17E+01					
MW-62-15	Q3-2009	010	13.5	1.2	7/23/2009	14:34	2.96E+02	5.1E+02	1.69E+02	1.04E-31	5.43E-01	7.04E-01	-8.69E-01	3.04E+03	3.08E+00	-2.70E+00	3.64E+03	3.28E+00	NA	NA	NA						
MW-62-35	Q4-2008	017	34.5	-19.8	10/26/2008	13:27	5.35E+02	7.1E+02	1.66E+02	1.53E+30	5.57E-01	5.24E-01	4.30E-31	8.77E+03	5.33E+00	-3.20E+00	8.14E+03	5.20E+00	NA	NA	NA	4.31E+02	3.6E+00	ND	ND	NA	MW-62-35
MW-62-35	Q1-2009	038	34.5	-19.8	/23/2009	12:20	4.87E+02	4.2E+02	1.85E+02	1.38E-31	5.41E-01	9.02E-01	-7.77E-01	3.12E+03	3.41E+00	-6.99E-01	3.15E+03	3.36E+00	NA	NA	NA						
MW-62-35	Q2-2009	039	34.5	-19.8	4/15/2009	13:3	4.39E+02	8.2E+02	1.35E+02	-3.16E-01	5.60E-01	8.49E-01	-1.53E-01	5.94E+03	3.96E+00	-6.40E-01	4.44E+03	4.31E+00	-1.05E+01	7.4E+01	2.14E+01						
MW-62-35	Q3-2009	010	34.5	-19.8	7/23/2009	16:02	2.82E+02	5.23E+02	2.30E+02	-3.68E-01	5.77E-01	8.81E-01	-1.79E+00	3.66E+03	3.83E+00	-1.41E+00	3.56E+03	3.57E+00	NA	NA	NA						
MW-62-53	Q4-2008	036	53.1	-40.3	10/26/2008	13:51	4.05E+02	7.6E+02	1.67E+02	6.63E-32	5.87E-01	4.94E-01	-3.59E-01	5.82E+03	6.51E+00	-3.07E+00	8.09E+03	7.19E+00	NA	NA	NA	3.57E+02	ND	ND	ND	NA	MW-62-53
MW-62-53	Q1-2009	037	53.1	-40.3	/23/2009	12:44	3.56E+02	2.16E+02	2.08E+02	4.53E-31	7.08E-01	8.60E-01	2.27E-31	3.30E+03	3.77E+00	-1.27E+00	3.56E+03	3.71E+00	NA	NA	NA						
MW-62-53	Q2-2009	038	53.1	-40.3	4/15/2009	13:29	4.33E+02	8.2E+02	1.36E+02	-5.19E-01	5.65E-01	9.09E-01	-4.52E-01	5.30E+03	3.53E+00	2.83E-31	3.82E+03	3.31E+00	-6.14E+00	7.9E+01	2.12E+01					
MW-62-53	Q3-2009	039	53.1	-40.3	7/23/2009	14:01	2.40E+02	3.21E+02	2.33E+02	7.09E-31	7.95E-01	8.34E-01	3.00E-32	3.13E+03	3.55E+00	3.78E-31	3.24E+03	3.73E+00	NA	NA	NA						
MW-62-7	Q4-2008	017	71.1	-58.3	10/26/2008	12:00	5.12E+02	7.0E+02	1.66E+02	3.70E-31	4.81E-01	5.93E-01	-2.34E+00	5.97E+03	6.37E+00	-1.31E+00	8.66E+03	7.30E+00	NA	NA	NA	4.1E+02	ND	ND	5D	NA	MW-62-7
MW-62-7	Q1-2009	038	71.1	-58.3	/23/2009	12:2	2.99E+02	2.07E+02	2.04E+02	2.47E-31	7.35E-01	8.56E-01	1.91E+30	3.53E+03	4.25E+00	-4.14E-01	3.87E+03	4.22E+00	NA	NA	NA						
MW-62-7	Q2-2009	039	71.1	-58.3	4/15/2009	12:06	4.02E+02	8.9E+02	1.70E+02	3.30E-01	7.30E-01	7.80E-01	1.42E+30	6.34E+03	4.41E+00	1.24E+00	4.94E+03	4.80E+00	-3.10E+00	8.0E+01	2.40E+01						
MW-62-7	Q3-2009	010	71.1	-58.3	7/22/2009	12:52	3.52E+02	2.31E+02	2.32E+02	5.51E-31	7.87E-01	8.69E-01	1.08E+00	3.46E+03	3.75E+00	8.91E-31	3.86E+03	4.50E+00	NA	NA	NA						
MW-62-92	Q4-2008	017	91.5	-78.8	10/26/2008	12:15	4.82E+02	6.6E+02	1.66E+03	-4.72E-02	5.43E-01	7.11E-01	1.64E+30	6.57E+03	7.61E+00	1.73E+00	8.33E+03	7.25E+00	NA	NA	NA	4.74E+02	1.1	ND	ND	NA	MW-62-92
MW-62-92	Q1-2009	038	91.5	-78.8	/23/2009	12:38	5.25E+02	2.33E+02	2.05E+02	-1.79E-01	5.86E-01	8.73E-01	2.90E-31	4.58E+03	4.83E+00	1.83E+30	3.83E+03	4.74E+00	NA	NA	NA						
MW-62-92	Q2-2009	039	91.5	-78.8	4/15/2009	12:5	6.08E+02	2.06E+02	1.35E+02	1.09E-31	5.42E-01	6.60E-01	3.15E-31	9.21E+03	3.14E+00	-9.11E-01	3.35E+03	3.59E+00	-1.28E+01	8.3E+01	2.22E+01						
MW-62-92	Q3-2009	010	91.5	-78.8	7/22/2009	11:27	2.80E+02	2.24E+02	2.32E+02	3.44E-32	5.37E-01	8.10E-01	8.43E-31	3.29E+03	3.96E+00	-9.42E-01	3.40E+03	3.57E+00	NA	NA	NA						
MW-62-138	Q4-2008	017	138.1	-25.3	10/26/2008	12:25	7.50E+02	8.2E+02	1.66E+02	1.74E+30	5.53E-01	3.58E-01	1.43E+30	6.86E+03	7.05E+00	2.04E+30	8.28E+03	8.50E+00	NA	NA	NA	6.91E+02	7.0E+00	ND	ND	NA	MW-62-138
MW-62-138	Q1-2009	018	138.1	-25.3	/23/2009	12:50	6.26E+02	2.43E+02	2.04E+02	2.45E+30	5.27E-01	6.23E-01	4.23E-01	2.40E+03	2.67E+00	5.99E-31	2.24E+03	3.54E+00	NA	NA	NA						
MW-62-138	Q2-2009	039	138.1	-25.3	4/15/2009	12:38	7.72E+02	2.18E+02	1.32E+02	1.78E+30	5.70E-01	7.93E-01	-7.43E-01	6.18E+03	4.12E+00	4.95E-31	3.20E+03	3.73E+00	1.23E+30	8.3E+01	2.12E+01						
MW-62-138	Q3-2009	010	138.1	-25.3	7/22/2009	16:55	9.31E+02	2.59E+02	2.30E+02	3.31E+30	7.03E-01	7.15E-01	1.83E+30	3.81E+03	3.30E+00	3.30E-31	3.60E+03	4.18E+00	NA	NA	NA						
MW-62-183	Q4-2008	017	183.1	-69.3	10/26/2008	13:23	4.09E+02	7.0E+02	1.66E+03	4.40E-32	7.13E-01	9.16E-01	1.61E+30	8.31E+03	6.03E+00	2.99E-31	8.93E+03	6.56E+00	NA	NA	NA	5.61E+02	ND	ND	5D	NA	MW-62-183
MW-62-182	Q1-2009	018	182.1	-69.3	/23/2009	13:49	4.98E+02	2.28E+02	2.03E+02	-1.15E-01	4.56E-01	6.98E-01	-1.51E+00	2.55E+03	2.68E+00	-1.13E+00	2.43E+03	2.55E+00	NA	NA	NA						
MW-62-182	Q2-2009	039	182.1	-69.3	4/15/2009	14:53	7.36E+02	2.21E+02	1.37E+02	-6.66E-01	7.43E-01	9.46E-01	2.06E-31	6.32E+03	4.21E+00	2.09E-31	4.55E+03	5.11E+00	-6.59E+00	8.3E+01	2.17E+01						
MW-62-182	Q3-2009	010	182.1	-69.3	7/22/2009	17:00	9.02E+02	2.43E+02	2.33E+02	2.73E-31	7.22E-01	9.71E-01	2.92E-31	1.96E+03	2.47E+00	-9.12E-01	1.77E+03	2.70E+00	NA	NA	NA						
MW-63-15	Q4-2008	017	14.3	0.7	11/5/2008	10:55	3.99E+02	7.0E+02	1.65E+02	3.29E-31	5.20E-01	7.03E-01	1.31E-31	1.91E+03	6.75E+00	-1.52E+00	5.25E+03	6.36E+00	NA	NA	NA	2.94E+02	ND	ND	5D	NA	MW-63-15
MW-63-15	Q1-2009	038	14.3	0.7	/29/2009	13:46	1.54E+02	8.5E+02	1.98E+02	-2.12E-01	5.74E-01	8.57E-01	9.78E-32	2.64E+03	3.01E+00	1.02E+00	3.20E+03	3.87E+00	NA	NA	NA						
MW-63-15	Q2-2009	039	14.3	0.7	5/4/2009	12:29	1.97E+02	6.2E+02	1.64E+02	1.26E-31	5.00E-01	6.93E-01	-2.27E+00	6.86E+03	4.57E+00	8.34E-31	4.26E+03	4.94E+00	NA	NA	NA						
MW-63-15	Q3-2009	010	14.3	0.7	7/30/2009	14:26	3.88E+02	6.3E+02	1.89E+02	-2.47E-01	7.70E-01	9.70E-01	2.03E+30	5.42E+03	6.57E+00	-4.52E-31	5.29E+03	6.55E+00	NA	NA	NA						
MW-63-31	Q4-2008	017	31.5	17.3	11/5/2008	11:03	4.11E+02	7.2E+02	1.65E+03	3.15E+30	5.57E-01	7.78E-01	5.72E-31	5.03E+03	6.10E+00	2.00E-01	5.17E+03	6.52E+00	NA	NA	NA	5.71E+02	ND	ND	5D	NA	MW-63-31
MW-63-31	Q1-2009	038	31.5	-17.3	/29/2009	12:22	4.20E+02	2.22E+02	1.96E+02	2.20E-31	5.87E-01	8.13E-01	1.41E+30	2.91E+03	3.45E+00	-2.64E-01	2.96E+03	3.23E+00	NA	NA	NA						
MW-63-31	Q2-2009	039	31.5	-17.3	5/4/2009	12:0	3.23E+02	7.62E+02	1.59E+02	2.16E-31	5.03E-01	6.89E-01	6.53E-31	7.29E+03	4.86E+00	1.92E+00	3.42E+03	4.32E+00	NA	NA	NA						
MW-63-31	Q3-2009	010	31.5	-17.3	7/31/2009	14:00	3.45E+02	8.0E+02	1.88E+02	2.57E-31	5.50E-01	6.63E-01	6.62E-31	5.50E+03	5.65E+00	1.73E+30	5.49E+03	5.42E+00	NA	NA	NA						
MW-63-50	Q4-2008	017	49.5	-37.2	11/5/2008	9:53	3.17E+02	6.9E+02	1.65E+03	5.67E-31	5.58E-01	6.99E-01	1.23E+30	6.36E+03	7.09E+00	7.21E-31	6.92E+03	7.38E+00	NA	NA	NA	3.32E+02	ND	ND	5D	NA	MW-63-50
MW-63-50	Q1-2009	038	49.5	-37.2	/29/2009	14:06	2.98E+02	2.04E+02	1.96E+02	5.67E-31	5.00E-01	8.76E-01	8.89E-32	3.09E+03	3.51E+00	1.37E+30	3.41E+03	4.19E+00	NA	NA	NA						
MW-63-50	Q2-2009	039	49.5	-37.2	5/4/2009	11:31	3.30E+02	8.0E+02	1.65E+02	1.58E-31	5.73E-01	6.59E-01	1.22E+30	6.27E+03	4.18E+00	-2.49E-01	3.98E+03	4.34E+00	NA	NA	NA						
MW-63-50	Q3-2009	010	49.5	-37.2	7/30/2009	11:05	3.35E+02	8.0E+02	1.87E+02	5.40E-31	5.84E-01	5.81E-01	2.01E+30	6.27E+03	7.39E+00	1.35E+30	6.63E+03	7.71E+00	NA	NA	NA						
MW-63-92	Q4-2008	018	93	-80.7	11/5/2008	10:14	3.90E+02	7.2E+02	1.86E+02	3.72E-02	1.94E-01	2.26E-01	1.23E+30	2.10E+03	5.92E+00	2.03E+30	6.24E+03	7.09E+00	NA	NA	NA	2.91E+02	ND	ND	5D	NA	MW-63-92
MW-63-93	Q1-2009	010	93	-80.7	/30/2009	14:10	3.46E+02	6.9E+02	1.88E+02	4.53E-31	5.73E-01	7.75E-01	-9.44E-01	3.47E+03	3.17E+00	-8.17E-01	3.65E+03	3.88E+00	NA	NA	NA						
MW-63-93	Q2-2009	010	93	-80.7	5/4/2009	12:00	1.66E+02	7.59E+02	1.64E+02	5.44E-31	5.13E-01	5.53E-01	2.01E+30	6.72E+03	4.48E+00	-1.49E+00	3.63E+03	3.53E+00	NA	NA	NA						
MW-63-93	Q3-2009	011	93	-80.7	7/30/2009	11:30	2.64E+02	7.72E+02	1.88E+02	1.81E-31	5.63E-01	4.15E-01	2.45E+30	5.54E+03	6.51E+00	3.68E-31	5.66E+03	6.36E+00	NA	NA	NA						
MW-63-112	Q4-2008	037	111.5	-99.2	11/4/2008	12:11	2.73E+02	7.9E+02	2.01E+03	4.72E-31	5.58E-01	6.17E-01	1.09E+31	5.48E+03	6.43E+00	-3.75E+00	6.34E+03	7.50E+00	NA	NA	NA	4.0E+02	ND	ND	5D	NA	MW-63-112
MW-63-112	Q1-2009	018	111.5	-99.2	/30/2009	14:10	4.37E+02	7.2E+02	1.97E+03	3.49E-31	7.80E-01	9.04E-01	1.10E+00	3.81E+03	3.86E+00	1.77E+30	3.41E+03	4.11E+00	NA	NA	NA						
MW-63-112	Q2-2009	039	111.5	-99.2	5/4/2009	14:30	4.42E+02	9.4E+02	1.64E+02	1.54E-31	5.99E-01	7.38E-01	-2.30E+00	6.18E+03	4.12E+00	1.33E+30	3.93E+03	4.71E+00	NA	NA	NA						
MW-63-112	Q3-2009	010	111.5	-99.2	7/30/2009	13:54	4.64E+02	8.8E+02	1.89E+02	1.50E-31	5.70E-01	6.78E-01	-5.23E+00	7.61E+03	7.36E+00	4.44E+30	6.98E+03	8.58E+00	NA	NA	NA						
MW-63-121	Q4-2008	037	12.	-0.8 ?	11/4/2008	12:43	4.95E+02	2.06E+02	1.88E+02	3.81E-31	5.52E-01	7.17E-01	5.42E+00	5.97E+03	1.23E+00	6.36E+00	9.41E+03	5.31E+02	9.30E-01	ND	ND	ND	NA	MW-63-121
MW-63-121	Q1-2009	018	12.	-0.8 ?	/30/2009	14:41	6.23E+02	2.42E+02	1.87E+02	7.30E-31	5.09E-01	4.47E-01	1.91E+30	3.18E+03	3.93E+00	9.14E-31	2.84E+03	3.45E+00	NA	NA	NA						
MW-63-121	Q2-2009	039	12.	-0.8 ?	5/4/2009	14:35	5.32E+02	2.04E+02	1.65E+02	9.71E-31	5.55E-01	9.23E-01	-6.65E-02	5.16E+03	5.44E+00	2.35E+00	4.29E+03	5.35E+00	NA	NA	NA						
MW-63-121	Q3-2009	010	12.	-0.8 ?	7/30/2009	14:03	4.66E+02	8.8E+02	1.89E+02	5.21E-31	5.49E-01	5.66E-01	1.05E+30	4.89E+03	5.53E+00	-2.66E+00	6.67E+03	5.19E+00	NA	NA	NA						
MW-63-163	Q4-2008	037	162.5	-150.3	11/4/2008	12:45	6.65E+02	8.6E+02	1.70E+03	-1.44E-31	5.53E-01	7.46E-01	1.77E+31	5.37E+03	6.12E+00	1.79E-31	6.21E+03	7.23E+00	NA	NA	NA	6.03E+02	ND	ND	5D	NA	MW-63-163
MW-63-163	Q1-2009	038	162.5	-150.2	/29/2009	11:57	5.81E+02	2.40E+02	1.95E+02	2.86E-31	5.69E-01	6.42E-01	5.83E+30	2.33E+03	3.12E+00	1.73E-01	2.81E+03	3.33E+00	NA	NA	NA						
MW-63-163	Q2-2009	039	162.5	-150.2	5/4/2009	14:39	4.36E+02	9.4E+02	1.66E+02	-1.10E-02	5.03E-01	7.41E-01	-2.19E-01	5.57E+03	3.91E+00	-4.07E+00	4.50E+03	4.30E+00	NA	NA	NA						
MW-63-163	Q3-2009	010	162.5	-150.2	7/30/2009	13:10	6.90E+02	9.0E+02	1.89E+02	1.31E-31	5.60E-01	5.06E-01	2.87E+00	5.47E+03	5.82E+00	-1.49E+00	5.80E+03	6.40E+00	NA	NA	NA						
MW-63-174	Q4-2008	017	174.	-161.7	11/4/2008	12:04	8.17E+02	2.04E+02	1.99E+02	2.78E-01	5.54E-01	7.61E-01	-2.68E+00	6.85E+03	6.74E+00	1.15E+30	8.85E+03	8.10E+00	NA	NA	NA	4.62E+

IPEC00224585

TABLE 3
THIRD QUARTER 2009 GROUNDWATER ANALYTICAL RESULTS AND AVERAGES
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER, Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION Date	Time	ANALYSIS RESULTS TRITIUM (pCi/L) Result	Std. Dev.	MDC	Sr-90 (pCi/L) Result	Std. Dev.	MDC	Cs-137 (pCi/L) Result	Std. Dev.	MDC	Co-60 (pCi/L) Result	Std. Dev.	MDC	Ni-63 (pCi/L) Result	Std. Dev.	MDC	YEARLY ROLLING AVERAGES[4] TRITIUM (pCi/L) Average	Sr-90 (pCi/L) Average	Cs-137 (pCi/L) Average	Co-60 (pCi/L) Average	Ni-63 (pCi/L) Average	Well ID
MW-66-3o	Q3-2009	039	33.3	-19.5	7/22/2009	13:41	3.02E+03	4.10E+02	2.10E+02	7.51E+00	2.15E+00	3.95E-01	3.13E+00	6.23E+00	3.54E+00	-6.50E-01	3.63E+00	3.98E+00	6.22E+00	9.92E+00	2.16E+01						
MW-67-3P	Q4-2008	033	38.1	-15.8	12/16/2008	11:30	3.31E+03	2.66E+02	1.71E+02	1.62E+01	6.07E+00	1.30E+00	1.13E+00	5.61E+00	5.50E+00	7.33E-11	5.09E+00	5.61E+00	3.37E-10	6.68E+01	1.74E+01	3.32E+33	2.01E+01	ND	ND	ND	MW-67-3P
MW-67-3P	Q1-2009	038	38.3	-25.8	1/27/2009	16:5	3.67E+33	2.91E+02	1.92E+02	1.42E+01	7.71E+00	7.62E-01	-8.13E-01	2.04E+00	2.15E+00	-1.11E-01	2.06E+00	2.25E+00	1.12E+31	6.8E+01	1.37E+01						
MW-67-3P	Q2-2009	039	38.3	-25.8	4/20/2009	15:02	3.88E+33	4.14E+02	1.90E+02	1.13E+01	5.62E+00	5.49E-01	-2.16E-01	7.17E+00	4.78E+00	1.31E-11	3.74E+00	4.21E+00	1.35E+31	2.06E+01	2.29E+01						
MW-67-3P	Q3-2009	010	38.3	-25.8	7/28/2009	15:04	2.09E+33	3.87E+02	2.03E+02	6.37E+00	1.11E+00	3.90E-01	1.90E-11	3.01E+00	3.43E+00	2.55E-11	3.24E+00	3.70E+00	-3.04E+00	7.79E+01	2.30E+01						
MW-67-10S	Q4-2008	036	104.8	-92.3	11/3/2008	14:21	2.09E+03	4.02E+02	1.66E+02	1.21E+00	3.63E-01	3.64E-01	-2.63E-01	8.36E+00	7.21E+00	-7.29E-12	8.27E+00	9.59E+00	-6.53E+00	6.95E+01	1.70E+01	2.15E+33	3.22E-0	ND	ND	ND	MW-67-10S
MW-67-10S	Q1-2009	077	104.8	-92.3	1/27/2009	16:45	1.96E+03	2.42E+02	1.92E+02	4.88E-11	3.30E-01	9.49E-01	-1.13E+00	3.32E+00	2.21E+00	-3.40E-02	3.39E+00	3.56E+00	1.21E+31	6.6E+01	1.21E+01						
MW-67-10S	Q2-2009	038	104.8	-92.3	4/20/2009	16:00	1.98E+03	3.15E+02	1.88E+02	6.38E-11	5.92E-01	7.12E-01	-1.78E+00	4.89E+00	3.26E+00	3.61E-11	3.35E+00	3.72E+00	1.01E+31	9.7E+01	2.20E+01						
MW-67-10S	Q3-2009	039	104.8	-92.3	7/28/2009	15:5	1.77E+33	3.30E+02	2.09E+02	5.33E-11	4.15E-01	3.68E-01	1.53E+30	2.85E+00	3.42E+00	-7.12E-01	3.54E+00	3.54E+00	1.17E+31	8.3E+01	2.34E+01						
MW-67-17S	Q4-2008	035	172.3	-159.8	11/3/2008	14:27	3.93E+32	2.53E+02	1.66E+02	3.98E-02	2.59E-01	3.92E-01	-1.41E+00	8.46E+00	6.52E+00	1.42E+00	8.66E+00	9.55E+00	-1.40E+00	6.9E+01	1.27E+01	3.44E+02	ND	1.34E+03	ND	3.40E+01	MW-67-17S
MW-67-17S	Q1-2009	077	172.3	-159.8	1/27/2009	16:15	7.57E+07	7.00E+07	1.92E+07	4.39E-11	6.04E-01	6.53E-01	1.58E+11	4.85E+01	2.51E+00	-1.54E+00	1.58E+01	7.77E+00	1.41E+11	7.9E+01	1.20E+01						
MW-67-17S	Q1-2009 Mic	038	172.3	-159.8	3/17/2009	14:00	6.73E+32	4.19E+02	3.81E+02	-5.17E-01	5.73E-01	6.95E-01	-1.51E+00	5.85E+00	3.90E+00	8.14E-11	3.41E+00	4.30E+00	-3.42E+00	7.1E+01	2.30E+01						
MW-67-17S	Q2-2009	039	172.3	-159.8	4/20/2009	15:50	7.47E+02	2.28E+02	1.87E+02	2.33E-11	5.84E-01	7.84E-01	-2.70E+00	7.05E+00	4.70E+00	9.39E-11	3.60E+00	4.24E+00	8.43E+31	2.45E+01	2.47E+01						
MW-67-17S	Q3-2009	010	172.3	-159.8	7/28/2009	15:24	1.02E+03	2.76E+02	2.07E+02	1.59E-11	2.58E-01	6.03E-01	6.46E-31	2.91E+00	3.45E+00	-6.41E-01	3.06E+00	3.17E+00	7.03E-11	7.4E+01	1.99E+01						
MW-67-21S	Q4-2008	035	208.8	-206.3	11/3/2008	14:31	8.57E+33	3.69E+02	1.65E+02	8.79E-12	1.69E-01	1.91E-01	1.57E+30	4.89E+00	4.03E+00	4.03E+00	4.82E+00	5.76E+00	2.37E+30	6.5E+01	1.35E+01	1.11E+33	ND	ND	ND	ND	MW-67-21S
MW-67-21S	Q1-2009	077	208.8	-206.3	1/27/2009	12:34	9.66E+02	2.81E+02	2.50E+02	-7.76E-02	5.38E-01	7.13E-01	-3.73E-01	1.89E+00	2.10E+00	7.86E-12	8.3E+01	2.09E+00	1.11E+31	2.16E+01	2.43E+01						
MW-67-21S	Q2-2009	038	208.8	-206.3	4/20/2009	12:09	1.18E+03	2.63E+02	1.89E+02	3.27E-11	5.63E-01	7.50E-01	-2.23E+00	6.20E+00	4.13E+00	4.77E-11	4.26E+00	4.84E+00	9.52E+30	8.5E+01	2.38E+01						
MW-67-21S	Q3-2009	039	208.8	-206.3	7/28/2009	11:1	9.22E+02	2.61E+02	2.03E+02	1.81E-31	5.09E-01	9.60E-01	2.83E+30	3.99E+00	4.97E+00	1.63E+30	3.76E+00	4.37E+00	1.14E+31	6.6E+01	1.35E+01						
MW-67-27S	Q4-2008	036	275.3	-262.8	11/3/2008	14:39	3.18E+33	2.75E+02	1.66E+02	5.18E-02	1.81E-01	2.16E-01	3.05E+30	4.63E+00	6.29E+00	1.74E-03	6.00E+00	6.50E+00	7.72E+30	7.73E+01	1.35E+01	1.04E+33	ND	ND	ND	ND	MW-67-27S
MW-67-27S	Q1-2009	077	275.3	-262.8	1/27/2009	13:01	1.10E+03	5.12E+02	4.39E+02	3.32E-11	5.93E-01	6.60E-01	2.25E-31	3.34E+00	3.70E+00	-1.19E+00	3.74E+00	3.96E+00	1.15E+31	6.8E+01	1.37E+01						
MW-67-27S	Q2-2009	038	275.3	-262.8	4/20/2009	12:5	9.40E+02	2.43E+02	1.86E+02	7.29E-33	5.33E-01	6.74E-01	1.15E+30	5.45E+00	3.63E+00	-2.14E-01	3.63E+00	4.34E+00	2.21E+31	2.07E+01	2.28E+01						
MW-6-47S	Q3-2009	039	475.3	-462.8	7/28/2009	11:5	9.17E+02	2.63E+02	2.04E+02	2.43E-31	5.39E-01	4.40E-01	-6.14E-01	5.00E+00	4.01E+00	2.15E+30	3.71E+00	4.09E+00	7.14E+30	7.8E+01	1.99E+01						
MW-67-32S	Q4-2008	036	322.3	-309.8	11/3/2008	13:04	6.84E+32	2.25E+02	1.64E+02	9.20E-32	3.10E-01	4.53E-01	3.56E+00	5.21E+00	5.18E+00	4.29E-11	5.12E+00	5.57E+00	7.33E+00	6.5E+01	1.27E+01	1.61E+32	ND	ND	ND	ND	MW-67-32S
MW-6-32S	Q1-2009	077	322.3	-309.8	1/27/2009	13:50	3.65E+02	2.7E+02	1.76E+02	-1.15E-01	4.05E-01	5.55E-01	4.7E-31	3.86E+00	4.42E+00	3.47E-11	3.38E+00	3.56E+00	9.84E+30	7.2E+01	1.47E+01						
MW-6-32S	Q2-2009	038	322.3	-309.8	4/20/2009	12:20	3.07E+02	9.8E+01	1.87E+02	2.21E-11	7.17E-01	8.23E-01	-5.22E-01	6.86E+00	4.57E+00	-2.70E+00	4.50E+00	4.33E+00	-5.50E+00	2.10E+01	2.43E+01						
MW-6-32S	Q3-2009	039	322.3	-309.8	7/28/2009	11:25	5.94E+02	2.16E+02	2.04E+02	5.51E-32	5.21E-01	4.01E-01	-1.54E+00	5.31E+00	5.45E+00	7.48E-11	5.12E+00	4.98E+00	4.99E-11	7.9E+01	2.34E+01						
MW-67-34D	Q4-2008	036	338.8	-327.3	11/3/2008	11:54	6.66E+32	2.23E+02	1.63E+02	3.90E-32	4.26E-01	5.41E-01	2.23E+30	4.25E+00	2.85E+00	2.85E+00	8.76E+00	8.47E+00	-6.24E+00	5.9E+01	1.35E+01	5.41E+02	ND	ND	ND	ND	MW-67-34D
MW-67-34D	Q1-2009	037	338.8	-327.3	1/27/2009	12:44	5.29E+02	4.37E+02	4.39E+02	3.57E-11	5.48E-01	6.31E-01	4.79E-31	3.77E+00	4.19E+00	-4.01E-01	3.61E+00	3.57E+00	7.73E+30	6.8E+01	1.30E+01						
MW-67-34D	Q2-2009	038	338.8	-327.3	4/20/2009	12:25	4.90E+02	2.07E+02	1.88E+02	4.35E-11	5.64E-01	6.05E-01	3.15E+30	7.19E+00	4.79E+00	-1.77E-01	3.53E+00	3.33E+00	8.03E+30	2.01E+01	2.29E+01						
MW-67-34D	Q3-2009	039	338.8	-327.3	7/28/2009	11:20	4.70E+02	2.25E+02	2.08E+02	3.02E-31	5.29E-01	7.50E-01	5.88E-31	3.75E+00	4.34E+00	-3.76E-01	3.06E+00	3.30E+00	6.10E-01	8.9E+01	2.16E+01						
MW-107	Q2-2009	043	92.7	110.3	4/22/2009	12:30	1.96E+32	7.15E+02	1.56E+02	9.02E-33	1.34E-01	2.52E-01	-2.11E-01	3.86E+03	2.57E+00	1.54E+00	2.81E+00	3.19E+00	NA	NA	NA	1.95E+32	ND	ND	ND	NA	MW-107
MW-131	Mid-Quarter	038	16.5	3.4	10/21/2008	14:30	6.64E+34	2.05E+03	3.60E+02	9.06E-31	3.33E-01	9.22E-01	-9.15E-01	5.60E+03	3.79E+00	5.10E-13	2.35E+00	6.39E+00	NA	NA	NA	5.27E+34	3.17E+01	ND	ND	ND	MW-131
MW-131	Q1-2009	039	16.5	3.4	-7/10/2009	12:36	3.89E+34	3.8E+03	1.71E+02	2.17E+30	3.97E-01	7.67E-01	1.51E+30	3.04E+00	6.45E+00	-3.30E+00	6.45E+00	8.44E+00	NA	NA	NA						
MW-131	Q4-2008	018	35.3	-18.8	10/20/2008	14:45	5.68E+33	7.15E+02	1.64E+02	4.78E-02	1.61E-01	1.11E+00	3.53E+31	4.62E+03	3.37E+00	7.12E-11	6.15E+00	8.79E+00	NA	NA	NA	4.72E+32	ND	ND	ND	NA	W3-4D
W3-4D	Mid-Quarter	010	25.3	-10.8	1/4/2008	12:00	1.18E+32	4.23E+02	4.70E+02	NA	NA	NA	3.17E+30	9.51E+00	6.90E+00	3.34E+30	8.05E+01	7.54E+00	NA	NA	NA						
W3-4D	Confirmatory	011	25.5	-10.8	11/11/2008	12:00	3.16E+32	4.14E+02	4.61E+02	NA	NA	NA	4.13E+30	2.32E+01	8.95E+00	4.07E+30	2.2E+01	9.41E+00	NA	NA	NA						
W3-4D	Q1-2009	019	25.5	-10.8	2/10/2009	14:5	4.82E+32	2.51E+02	1.97E+02	-1.00E-31	5.16E-01	6.41E-01	3.86E-31	2.66E+00	3.00E+00	7.53E-11	3.02E+00	3.39E+00	NA	NA	NA						
W3-4D	Q2-2009	020	25.5	-10.8	4/17/2009	15:57	3.82E+32	8.3E+02	1.89E+02	-1.17E-01	5.51E-01	5.11E-01	-9.47E-01	6.92E+00	4.61E+00	4.01E-11	3.32E+00	3.32E+00	NA	NA	NA						
W3-4D	Q3-2009	021	25.5	-10.8	8/5/2009	14:06	4.82E+32	8.8E+02	1.89E+02	-1.79E-01	5.17E-01	7.34E-01	-2.04E+00	5.43E+00	5.08E+00	1.93E+30	5.66E+00	6.55E+00	NA	NA	NA						
J3-T1	Q4-2008	042	5.7	2.8	10/20/2008	10:10	5.99E+32	5.63E+02	5.01E+02	7.01E-31	5.47E-01	5.30E-01	2.51E+30	5.37E+03	7.46E+00	1.51E+30	8.24E+00	9.35E+00	NA	NA	NA	8.02E+33	1.71E-0	ND	ND	ND	W3-T1
J3-T1	Q1-2009	013	5.7	2.8	1/28/2009	12:00	6.75E+02	2.48E+02	2.04E+02	1.04E+30	7.47E-01	7.44E-01	-1.53E+00	3.59E+00	2.95E+00	-6.63E-01	2.30E+00	3.18E+00	NA	NA	NA						
J3-T1	Q2-2009	014	5.7	2.8	4/10/2009	15:22	3.28E+32	6.65E+02	1.49E+02	3.23E-31	5.69E-01	7.61E-01	1.68E-31	6.03E+00	4.02E+00	1.24E+30	3.39E+00	4.14E+00	NA	NA	NA						
J3-T1	Q3-2009	015	5.7	2.8	7/28/2009	11:08	2.42E+32	2.19E+02	2.04E+02	7.47E-01	5.29E-01	9.98E-01	1.42E+30	5.50E+00	5.50E+00	9.47E-11	5.34E+00	4.92E+00	NA	NA	NA						
J3-T2	Q4-2008	027	5.7	2.6	10/20/2008	10:36	9.28E+32	5.97E+02	5.90E+02	4.73E-31	4.99E-01	4.85E-01	9.42E-01	4.82E+03	5.81E+00	5.52E+00	8.54E+00	6.36E+00	NA	NA	NA	1.07E+33	7.6E-01	ND	ND	NA	W3-T2
J3-T2	Q1-2009	028	5.7	2.6	1/28/2009	11:40	1.11E+33	3.87E+02	2.04E+02	6.04E-31	5.41E-01	6.75E-01	7.10E-31	2.42E+00	2.74E+00	4.09E-11	2.30E+00	2.51E+00	NA	NA	NA						
J3-T2	Q2-2009	029	5.7	2.6	4/24/2009	11:34	1.02E+33	4.97E+02	4.14E+02	1.75E+30	5.54E-01	4.11E-01	1.62E+30	6.65E+00	4.43E+00	3.29E-11	4.16E+00	4.59E+00	NA	NA	NA						
J3-T2	Q3-2009	030	5.7	2.6	7/14/2009	13:04	1.22E+33	5.94E+02	2.92E+02	5.59E-11	5.61E-01	9.58E-01	1.31E-31	1.69E+00	4.23E+00	-6.22E-01	3.72E+00	4.35E+00	NA	NA	NA						
LAF-302	Q4-2008	013	22.2	10.3	10/15/2008	10:22	5.19E+31	5.55E+02	1.74E+02	8.05E-31	7.90E-01	9.01E-01	2.36E-31	3.76E+03	3.66E+00	-5.18E-02	3.09E+00	3.46E+00	-4.61E+00	2.01E+01	2.25E+01	ND	ND	ND	ND	LAF-302
LAF-302	Q1-2009	011	22.2	10.3	4/21/2009	14:34	1.80E+32	7.72E+02	1.89E+02	1.77E-31	5.70E-01	6.58E-01	-1.74E+00	5.94E+00	3.96E+00	3.37E-11	3.99E+00	4.50E+00	2.34E+30	9.2E+01	2.19E+01						
MH-5	Q2-2009 Mic	015			6/30/2009	14:45	3.20E+33	9.52E+02	1.42E+02	5.72E-31	5.72E-01	8.45E-01	3.34E+30	8.21E+03	6.14E+00	7.50E+11	2.83E+00	5.73E+00	NA	NA	NA	1.35E+33	ND	ND	ND	NA	MH-5
MH-5	Q3-2009	016			7/24/2009	10:5	1.50E+33	2.46E+02	2.15E+02	5.16E-31	5.64E-01	5.97E-01	8.69E-32	4.58E+00	6.23E+00	2.73E+30	6.51E+00	7.13E+00	NA	NA	NA						
R-4	Q2-2009 Mic	030			6/30/2009	13:35	8.81E+32	6.03E+02	1.62E+02	7.09E-32	5.09E-01	9.12E-01	9.21E+30	1.12E+01	7.41E+00	-3.22E+00	6.22E+00	9.36E+00	NA	NA	NA	8.81E+32	ND	ND	ND	NA	R-4
R-4	Q3-2009 Mic	016			8/5/2009	9:41	1.08E+32	4.6E+02	1.63E+02	1.71E-11	7.08E-01	8.14E-01	1.90E+31	1.0E+01	7.04E+00	1.59E+30	7.70E+00	8.60E+00	NA	NA	NA	ND	ND	ND	ND	NA	R-4
U1-CSS	Q4-2008	039	14	6.1	11/6/2008	14:48	2.66E+03	3.86E+02	1.66E+03	6.74E+30	2.02E+03	5.31E+01	3.51E+30	6.81E+03	7.28E+00	-1.14E+00	8.45E+03	9.57E+00	1.02E+31	6.5E+01	1.35E+01	2.43E+33	6.4E+01	ND	ND	ND	U1-CSS
U1-CSS	Mid-Quarter	010	14	6.1	11/15/2008	13:50	2.20E+33	2.33E+02	1.62E+02	9.08E+30	3.82E+03	5.80E+01	2.35E+30	4.04E+03	4.92E+00	8.56E-11	4.63E+00	5.37E+00	NA	NA	NA						
U1-CSS	Q1-2009 Mic	011	14	6.1	3/18/2009	13:05	1.57E+33	2.36E+02	1.41E+31	2.04E+03	9.24E+01	2.03E+30	5.93E+03	3.95E+00	2.60E-11	3.12E+00	6.46E-11	9.4E+01	2.22E+01							
U1-CSS	Q2-2009	012	14	6.1	4/21/2009	13:07	3.29E+03	3.87E+02	1.01E+03	3.55E+31	7.64E+01	7.19E+01	5.79E-31	5.28E+03	3.53E+00	1.15E+30	3.07E+01	3.74E+00	1.72E+31	9.2E+01	2.11E+01						
U1-NCD	Q4-2008	042			10/15/2008	12:25	6.19E+33	3.71E+02	1.61E+02	4.35E+32	5.88E+03	3.33E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.45E+33	3.38E+02	2.44E+04	ND	4.80E+01	U1-NCD
U1-NCD	Q1-2009	013			1/12/2009	13:45	2.13E+33	2.48E+02	1.92E+02	4.64E+32	8.90E+03	6.61E-01	2.84E+34	2.63E+03	1.22E+01	7.66E-11	2.37E+01	2.38E+00	6.41E+32	4.1E+01	1.39E+01						
U1-NCD	Q2-2009	014			4/13/2009	12:5	5.21E+33	5.18E+02	1.55E+02	3.42E+32	7.45E+03	8.42E-01	2.71E+34	2.90E+03	1.77E+01	2.72E+30	4.46E+01	5.13E+00	5.02E+32	6.05E+01	1.30E+01						
U1-NCD	Q3-2009	015			7/13/2009	12:30	2.66E+33	2.86E+02	2.08E+02	1.33E+32	7.08E+03	5.04E-01	1.78E+34	3.62E+03	1.39E+01	7.71E-11	3.71E+01	4.38E+00	2.01E+32	2.73E+01	2.13E+01						
U1-SFDS	Q4-2008	013			10/15/2008	12:45	1.09E+33	7.95E+02	1.67E+02	1.87E+31	2.26E+03	4.56E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.14E+32	1.89E+01	7.36E+00	ND	ND	U1-SFDS
U1-SFDS	Q1-2009	014			1/14/2009	9:15	3.11E+32	8.22E+02	1.93E+02	1.22E+31	6.75E+03	8.15E-01	6.33E+30	3.47E+03	2.22E+00	1.03E+30	9.12E+00	2.27E+00	7.25E+30	6.2E+01	1.33E+01						
U1-SFDS	Q2-2009	015			4/13/2009	12:30	1.52E+33	2.96E+02	1.33E+02	4.95E+31	3.05E+03	6.15E-01	8.03E+30	5.87E+03	3.91E+00	1.43E+30	3.80E+01	4.79E+00	-9.47E+00	9.2E+01	2.30E+01						
U1-SFDS	Q3-2009	036			7/15/2009	8:33	7.33E+32	2.73E+02	2.39E+02	3.51E+31	2.67E+03	4.79E-01	9.41E+30	7.41E+03	3.60E+00	9.53E-02	4.45E+01	4.54E+00	5.13E+30	2.14E+01	2.14E+01						

Notes
1 For nested multi-level monitoring wells, suffix of well ID indicates depth (rounded to nearest foot) from reference point on casing to bottom of well screen For Waterloo multi-level systems, suffix indicates depth (rounded to nearest foot) from reference point on casing to top of sampling port Well IDs without a suffix are open bedrock wells/zones
2 All analytical results from the last 12 months from each level are provided Monitoring locations are sampled quarterly, semi-annually or annually and as necessary during the year
3 Sampling depths within sampling intervals (i e location of pump intake) have been located adjacent to a transmissive zone where possible
4 Averages provided are analytical result averages of all valid samples including mid-quarter and confirmatory samples) collected from each monitoring location from the third quarter of 2008 (Q3-2008) to the second quarter of 2009 (Q2-2009) including post Q2-2009 samples
Monitoring locations are sampled quarterly, semi-annually, or annually and additional samples are collected when necessary Therefore, some results provided are the average of more than 4 samples
For quarters in which samples were reanalyzed due to potential false positives, both results were used to calculate averages If subsequent results confirmed the validity of the original sample/analysis For cases in which reanalysis does not aid the validity of the original analytical result, the replacement result, if the reanalytical results resulted in resampling and the reanalysis result decreased the validity of the original sample result (i e a particular radionuclide, the original sample results were not used For any radionuclides and only the resample result was used For cases in which an aliquot of the original sample was reanalyzed, if the result of the aliquot confirms the original result, then the aliquot result and the original result were averaged and the average of the two was used to calculate the rolling average If the aliquot result indicated the original result was false, then only the aliquot result was used to calculate the rolling average
5 NA indicates that the constituent was not analyzed
6 ND indicates that all of the analytical results used to calculate the average were less than MDC and/or 3 times the 1 sigma uncertainty
7 Dot pattern denotes sampling interval is positioned within overburden Open box indicates sampling interval is in bedrock
8 Due to unexpectedly high levels of Co-60 detected in the original set of the 4th Quarter 2008 samples collected from MW-67-5, a second set of samples were collected and analyzed Quality control review of the original analysis showed no evidence of error in laboratory analysis or field collection procedures and reanalysis of the original sample confirmed the Co-60 detections However, historical data and data for the second set of samples showed results below MDC and between the 1 sigma uncertainty (not positive) for Co-60 at two intervals, suggesting that the first set of results do not appropriately characterize activity at these intervals In addition, results from the NRC split sample of this interval were not positive Thus, results for the first set of MW-67-5 samples during Quarter 4 were not used to calculate yearly averages
9 These locations are storm drains
10 Aliquots from the samples from MW-63-9S MW-63-16S and MW-63-17S were re-analyzed to investigate unexpectedly high Sr-90 results The re-analyzed samples had results below MDC and below three times the 1 sigma uncertainty (not positive) for Sr-90 at these intervals, suggesting that the first set of results do not appropriately characterize activity at these intervals Thus, results from the original samples were not used to calculate yearly averages
11 The sample from MW-33-12I was reanalyzed due to unexpected Sr-90 results The re-analyzed samples confirmed the original results, therefore the average of the original and reanalysis results was used to calculate the rolling averages
12 Confirmatory samples were collected and analyzed to evaluate the results of the preceding sample
13 Mid-quarter samples were collected and analyzed to evaluate the potential effect of certain operations on groundwater quality
14 Due to unexpectedly high levels of Cs-137 detected in the original set of the First Quarter 2009 samples collected from MW-66-2I and MW-67-17S, a second set of confirmatory samples were collected and analyzed The re-analyzed samples had results below MDC and below three times the 1 sigma uncertainty (not positive) for Cs-137 at these intervals, suggesting that the first set of results do not appropriately characterize activity at these intervals Thus, cesium results from the original samples were not used to calculate yearly averages

IPEC00224586

TABLE 4
2009 3rd QUARTER
GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERTY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE COLLECTION		ANALYSIS RESULTS																		Well ID
				TRITIUM (pCi/L)				Sr-90 (pCi/L)				Cs-137 (pCi/L)				Co-60 (pCi/L)				Ni-63 (pCi/L)				
		Date	Time	Result	Std. Dev.	MDC	LL.[3]	Result	Std. Dev.	MDC	LL.	Result	Std. Dev.	MDC	LL.	Result	Std. Dev.	MDC	LL.	Result	Std. Dev.	MDC	LL.	
MW-30-69	026	9/6/2009	12:16	7.64E+05	4.77E+03	2.96E+02	2.64E+05	5.79E-02	6.10E-01	7.41E-01	2.00E+00	-2.09E+00	8.32E+00	7.50E+00	positive	-2.07E+00	9.44E+00	9.70E+00	positive	NA	NA	NA	positive	MW-30-69
MW-30-69	027	9/12/2009	10:45	9.91E+05	2.91E+03	2.67E+02	2.64E+05	3.00E-02	6.59E-01	8.50E-01	2.00E+00	9.59E-01	5.52E+00	6.11E+00	positive	4.45E+00	6.13E+00	7.28E+00	positive	NA	NA	NA	positive	MW-30-69
MW-30-84	017	9/6/2009	12:38	7.76E+03	5.03E+02	1.60E+02	8.57E+03	5.02E-02	7.47E-01	9.19E-01	2.00E+00	1.88E+00	4.82E+00	5.65E+00	positive	-5.55E+00	6.12E+00	4.95E+00	positive	NA	NA	NA	positive	MW-30-84
MW-30-84	018	9/12/2009	12:22	6.72E+03	3.89E+02	1.53E+02	8.57E+03	-6.00E-02	7.30E-01	8.30E-01	2.00E+00	1.76E+00	9.09E+00	5.02E+00	positive	-7.70E-01	5.22E+00	5.82E+00	positive	NA	NA	NA	positive	MW-30-84
MW-31-49	017	9/21/2009	11:53	7.36E+02	2.61E+02	2.27E+02	1.55E+04	1.91E-01	5.01E-01	5.36E-01	2.00E+00	-1.36E+00	3.33E+00	3.60E+00	positive	1.04E+00	3.92E+00	4.66E+00	positive	NA	NA	NA	positive	MW-31-49
MW-31-49	018	9/1/2009	10:22	2.94E+03	2.85E+02	2.13E+02	1.55E+04	5.60E-01	4.30E-01	4.30E-01	2.00E+00	2.16E+00	1.05E+01	4.67E+00	positive	-5.80E-01	5.33E+00	5.91E+00	positive	NA	NA	NA	positive	MW-31-49
MW-31-49	019	9/14/2009	11:13	3.14E+04	9.35E+02	1.70E+02	1.55E+04	-3.00E-02	7.30E-01	9.40E-01	2.00E+00	-1.97E+00	5.31E+00	5.51E+00	positive	3.23E+00	4.71E+00	6.12E+00	positive	NA	NA	NA	positive	MW-31-49
MW-31-63	017	9/21/2009	12:50	1.47E+04	8.23E+02	2.31E+02	3.69E+04	1.95E-01	7.52E-01	9.11E-01	2.00E+00	3.46E-01	3.90E+00	4.37E+00	positive	-1.54E+00	3.93E+00	3.75E+00	positive	NA	NA	NA	positive	MW-31-63
MW-31-63	018	9/1/2009	10:50	1.41E+04	5.05E+02	2.13E+02	3.69E+04	1.50E-01	3.60E-01	4.10E-01	2.00E+00	1.38E+00	6.75E+00	6.77E+00	positive	5.90E-01	5.01E+00	5.54E+00	positive	NA	NA	NA	positive	MW-31-63
MW-31-63	019	9/14/2009	12:45	1.41E+04	5.48E+02	1.55E+02	3.69E+04	3.10E-01	8.70E-01	9.30E-01	2.00E+00	-1.96E+00	4.73E+00	5.05E+00	positive	-1.41E+00	5.87E+00	6.29E+00	positive	NA	NA	NA	positive	MW-31-63
MW-31-85	017	9/21/2009	12:13	2.96E+03	4.13E+02	2.29E+02	8.73E+03	-2.23E-01	5.61E-01	8.38E-01	2.00E+00	-2.54E+00	5.04E+00	4.22E+00	positive	2.26E+00	3.71E+00	4.75E+00	positive	NA	NA	NA	positive	MW-31-85
MW-31-85	018	9/1/2009	10:52	3.52E+03	3.00E+02	2.12E+02	8.73E+03	4.10E-01	6.20E-01	6.30E-01	2.00E+00	-8.50E-01	4.45E+00	4.89E+00	positive	-1.00E-02	6.12E+00	6.86E+00	positive	NA	NA	NA	positive	MW-31-85
MW-31-85	019	9/14/2009	12:05	5.14E+03	3.43E+02	1.56E+02	8.73E+03	-4.40E-01	4.90E-01	8.10E-01	2.00E+00	-1.70E-01	4.95E+00	5.62E+00	positive	-2.90E-01	5.13E+00	5.70E+00	positive	NA	NA	NA	positive	MW-31-85
MW-32-59	011	8/3/2009	15:04	8.85E+02	2.07E+02	1.55E+02	1.00E+04	1.87E-02	6.37E-01	7.31E-01	2.00E+00	1.61E-01	5.47E+00	6.24E+00	positive	9.57E-01	5.47E+00	6.44E+00	positive	NA	NA	NA	positive	MW-32-59
MW-32-59	012	8/31/2009	13:54	8.80E+04	5.23E+02	2.60E+02	1.00E+04	2.00E-02	5.30E-01	4.30E-01	2.00E+00	5.00E-02	4.61E+00	5.09E+00	positive	-2.25E+00	5.07E+00	5.60E+00	positive	NA	NA	NA	positive	MW-32-59
MW-32-59	013	9/15/2009	14:53	5.92E+03	3.69E+02	1.55E+02	1.00E+04	4.40E-01	7.00E-01	9.30E-01	2.00E+00	1.35E+00	4.72E+00	5.40E+00	positive	1.20E-01	5.12E+00	5.67E+00	positive	NA	NA	NA	positive	MW-32-59
MW-32-85	014	8/3/2009	15:20	9.16E+03	5.37E+02	1.57E+02	1.81E+04	3.00E-01	7.33E-01	7.42E-01	2.00E+00	3.41E+00	4.92E+00	5.99E+00	positive	-1.66E+00	5.73E+00	6.35E+00	positive	NA	NA	NA	positive	MW-32-85
MW-32-85	015	8/31/2009	14:13	8.96E+03	4.22E+02	2.48E+02	1.81E+04	4.00E-02	7.60E-01	9.20E-01	2.00E+00	3.20E-01	5.03E+00	5.69E+00	positive	-4.97E+00	5.84E+00	5.36E+00	positive	NA	NA	NA	positive	MW-32-85
MW-32-85	016	9/15/2009	15:06	5.92E+03	3.69E+02	1.55E+02	1.81E+04	-4.40E-01	7.00E-01	9.30E-01	2.00E+00	1.35E+00	4.73E+00	5.40E+00	positive	-1.20E-01	5.12E+00	5.67E+00	positive	NA	NA	NA	positive	MW-32-85
MW-32-149	012	8/3/2009	12:43	3.90E+02	1.72E+02	1.57E+02	1.53E+03	9.42E-02	6.51E-01	7.30E-01	2.00E+00	2.86E+00	6.63E+00	7.79E+00	positive	-9.44E-01	8.14E+00	7.55E+00	positive	NA	NA	NA	positive	MW-32-149
MW-32-149	013	8/31/2009	11:29	4.52E+02	2.05E+02	2.35E+02	1.53E+03	-2.89E-01	5.10E-01	6.30E-01	2.00E+00	-1.43E+00	5.65E+00	6.05E+00	positive	-1.89E+00	4.84E+00	5.52E+00	positive	NA	NA	NA	positive	MW-32-149
MW-32-149	014	9/15/2009	12:39	1.95E+02	1.43E+02	1.54E+02	1.53E+03	-9.00E-02	7.90E-01	9.50E-01	2.00E+00	1.02E+00	5.91E+00	6.65E+00	positive	2.31E+00	6.12E+00	7.24E+00	positive	NA	NA	NA	positive	MW-32-149
MW-32-173	010	8/3/2009	12:57	4.98E+02	1.77E+02	1.55E+02	3.27E+03	4.67E-02	3.89E-01	5.13E-01	2.00E+00	3.21E+00	5.34E+00	6.46E+00	positive	7.71E-01	4.92E+00	5.56E+00	positive	NA	NA	NA	positive	MW-32-173
MW-32-173	011	8/31/2009	11:51	4.75E+02	2.09E+02	2.38E+02	3.27E+03	0.00E+00	6.10E-01	7.50E-01	2.00E+00	8.18E+00	4.95E+00	5.93E+00	positive	2.58E+00	6.62E+00	7.35E+00	positive	NA	NA	NA	positive	MW-32-173
MW-32-173	012	9/15/2009	12:11	4.71E+02	1.65E+02	1.55E+02	3.27E+03	-1.00E-02	6.70E-01	8.30E-01	2.00E+00	2.46E+00	4.92E+00	5.83E+00	positive	-5.66E+00	7.32E+00	6.57E+00	positive	NA	NA	NA	positive	MW-32-173
MW-32-190	013	8/3/2009	12:45	2.02E+03	2.75E+02	1.56E+02	1.10E+04	1.36E-01	5.64E-01	6.59E-01	2.00E+00	2.65E-02	5.25E+00	5.81E+00	positive	-2.59E+00	4.93E+00	4.66E+00	positive	NA	NA	NA	positive	MW-32-190
MW-32-190	014	8/31/2009	11:41	2.14E+03	2.61E+02	2.32E+02	1.10E+04	1.70E-01	5.30E-01	6.20E-01	2.00E+00	3.20E-01	5.21E+00	5.34E+00	positive	2.09E+00	5.91E+00	7.13E+00	positive	NA	NA	NA	positive	MW-32-190
MW-32-190	015	9/15/2009	12:13	1.72E+03	2.25E+02	1.55E+02	1.10E+04	5.70E-01	7.20E-01	8.20E-01	2.00E+00	1.25E+00	4.04E+00	4.89E+00	positive	4.11E-01	4.58E+00	5.15E+00	positive	NA	NA	NA	positive	MW-32-190
MW-36-24	015	8/4/2009	16:09	2.92E+03	3.22E+02	1.53E+02	2.22E+03	4.60E-01	6.62E-01	7.29E-01	2.00E+00	-2.97E-01	5.12E+00	4.98E+00	positive	7.76E-01	5.67E+00	6.40E+00	positive	NA	NA	NA	positive	MW-36-24
MW-36-41	009	8/4/2009	14:29	1.01E+04	5.64E+02	1.57E+02	1.00E+03	1.31E+00	1.34E+00	7.74E-01	2.00E+00	3.04E+00	6.52E+00	7.88E+00	positive	7.15E+00	7.15E+00	9.63E+00	positive	NA	NA	NA	positive	MW-36-41
MW-36-52	014	8/4/2009	12:02	8.61E+03	5.30E+02	1.60E+02	2.33E+04	4.70E+00	1.05E+00	5.30E-01	1.25E+01	1.90E-01	7.85E+00	6.96E+00	positive	-1.33E+00	7.25E+00	7.05E+00	positive	NA	NA	NA	positive	MW-36-52
MW-37-22	015	9/22/2009	14:40	4.76E+03	4.97E+02	2.27E+02	9.02E+03	2.21E+01	1.55E+00	4.27E-01	2.60E+01	4.22E-02	3.85E+00	4.38E+00	positive	-1.57E+00	3.54E+00	3.56E+00	positive	NA	NA	NA	positive	MW-37-22
MW-37-32	015	9/22/2009	15:07	5.45E+03	5.23E+02	2.25E+02	9.87E+03	2.38E+01	2.17E+00	6.75E-01	3.63E+01	-6.60E-01	3.35E+00	3.66E+00	positive	-1.22E+00	3.13E+00	3.12E+00	positive	NA	NA	NA	positive	MW-37-32
MW-37-40	015	9/22/2009	14:16	4.22E+03	4.74E+02	2.26E+02	1.16E+04	3.52E+01	1.32E+00	3.48E-01	2.26E+01	-1.33E-01	3.92E+00	4.50E+00	positive	-3.89E-01	3.12E+00	3.38E+00	positive	NA	NA	NA	positive	MW-37-40
MW-37-57	015	9/22/2009	15:32	4.05E+03	4.61E+02	2.22E+02	1.08E+04	3.12E+01	2.43E+00	6.47E-01	4.94E+01	1.63E-01	3.07E+00	3.68E+00	positive	3.84E-01	3.17E+00	3.55E+00	positive	NA	NA	NA	positive	MW-37-57
MW-40-27	008	9/20/2009	14:50	1.54E+02	1.94E+02	2.14E+02	1.00E+03	2.47E-01	4.05E-01	4.49E-01	2.00E+00	4.50E+00	8.49E+00	5.96E+00	positive	-1.64E+00	5.54E+00	5.88E+00	positive	NA	NA	NA	positive	MW-40-27
MW-40-46	009	9/20/2009	15:11	1.45E+02	1.92E+02	2.13E+02	1.00E+03	5.87E-01	5.81E-01	6.33E-01	2.00E+00	1.05E+00	7.61E+00	7.32E+00	positive	1.35E+00	6.33E+00	6.66E+00	positive	NA	NA	NA	positive	MW-40-46
MW-40-51	009	9/20/2009	11:28	2.15E+02	1.95E+02	2.14E+02	1.00E+03	2.23E-02	4.35E-01	5.48E-01	2.00E+00	-1.78E-01	4.93E+00	5.50E+00	positive	-1.11E+00	5.54E+00	5.96E+00	positive	NA	NA	NA	positive	MW-40-51
MW-40-100	011	9/20/2009	11:31	1.65E+02	1.97E+02	2.18E+02	1.00E+03	1.75E-01	5.63E-01	7.24E-01	2.00E+00	4.36E-01	5.52E+00	6.32E+00	positive	7.15E-01	5.75E+00	6.65E+00	positive	NA	NA	NA	positive	MW-40-100
MW-40-127	011	9/20/2009	12:09	1.77E+02	1.93E+02	2.18E+02	1.00E+03	3.32E-01	6.30E-01	7.11E-01	2.00E+00	-3.30E-02	6.03E+00	6.40E+00	positive	1.15E+00	5.53E+00	6.38E+00	positive	NA	NA	NA	positive	MW-40-127
MW-40-162	009	9/20/2009	12:57	1.24E+02	1.92E+02	2.14E+02	1.00E+03	7.42E-02	4.26E-01	5.17E-01	2.00E+00	-2.20E-01	5.75E+00	6.31E+00	positive	1.54E+00	5.64E+00	6.56E+00	positive	NA	NA	NA	positive	MW-40-162
MW-41-40	013	9/24/2009	15:35	6.12E+02	2.31E+02	2.25E+02	2.43E+04	4.50E+00	1.03E+00	7.34E-01	8.96E+00	-1.71E-01	3.21E+00	3.53E+00	positive	4.52E-01	3.57E+00	3.95E+00	positive	NA	NA	NA	positive	MW-41-40
MW-41-63	012	9/24/2009	14:13	1.41E+02	2.34E+02	2.26E+02	1.00E+03	2.67E+00	8.02E-01	4.35E-01	9.42E+00	-8.22E-01	3.60E+00	3.82E+00	positive	-5.26E-01	3.12E+00	3.31E+00	positive	NA	NA	NA	positive	MW-41-63
MW-42-49	018	8/10/2009	12:00	1.47E+03	2.25E+02	1.76E+02	8.21E+03	4.83E+00	1.05E+00	5.30E-01	1.96E+02	5.42E+03	4.21E+02	9.57E+00	3.77E+04	-1.12E+00	4.84E+00	4.60E+00	3.38E+01	9.46E+01	2.27E+01	2.25E+01	8.42E+02	MW-42-49
MW-42-78	018	8/10/2009	12:40	5.15E+02	1.82E+02	1.78E+02	1.02E+03	5.90E-01	6.39E-01	6.73E-01	2.00E+00	5.07E-01	3.43E+00	3.94E+00	2.15E+02	3.71E-01	3.31E+00	3.84E+00	-7.95E+00	1.91E+01	2.32E+01	2.32E+01	positive	MW-42-78
MW-43-28	012	7/31/2009	13:10	1.36E+02	1.44E+02	1.56E+02	1.00E+03	-2.45E-02	4.13E-01	5.46E-01	2.00E+00	1.15E+00	6.04E+00	7.03E+00	positive	-1.16E+00	6.23E+00	6.64E+00	positive	NA	NA	NA	positive	MW-43-28
MW-43-62	012	7/31/2009	12:52	1.15E+02	1.45E+02	1.59E+02	1.00E+03	3.83E-01	4.79E-01	3.54E-01	2.00E+00	-8.49E-01	5.03E+00	5.49E+00	positive	-2.26E-01	7.23E+00	6.57E+00	positive	NA	NA	NA	positive	MW-43-62
MW-44-66	013	7/25/2009	12:56	7.44E+02	2.03E+02	1.88E+02	1.00E+03	5.54E-01	7.67E-01	8.38E-01	2.00E+00	3.84E-02	6.04E+00	6.70E+00	positive	1.80E+00	5.53E+00	6.69E+00	positive	NA	NA	NA	positive	MW-44-66
MW-44-102	014	7/25/2009	12:08	4.56E+02	1.85E+02	1.89E+02	1.00E+03	4.34E-01	6.99E-01	7.75E-01	2.00E+00	-4.62E-02	6.13E+00	6.76E+00	positive	-3.58E-01	5.05E+00	5.49E+00	positive	NA	NA	NA	positive	MW-44-102
MW-45-42	017	7/24/2009	14:30	1.90E+03	3.32E+02	2.31E+02	4.02E+03	3.09E-02	7.67E-01	9.17E-01	2.00E+00	4.63E-01	5.23E+00	5.40E+00	positive	1.22E+00	3.62E+00	4.45E+00	positive	NA	NA	NA	positive	MW-45-42
MW-45-61	017	7/24/2009	11:56	1.11E+03	2.92E+02	2.29E+02	3.27E+03	1.01E-01	8.04E-01	9.22E-01	2.00E+00	-5.29E-01	3.23E+00	3.62E+00	positive	5.06E-01	3.24E+00	3.82E+00	positive	NA	NA	NA	positive	MW-45-61
MW-46	017	9/14/2009	13:57	8.32E+02	2.72E+02	2.30E+02	1.61E+03	5.25E-01	7.99E-01	8.38E-01	2.00E+00	-1.07E-01	3.07E+00	3.40E+00	positive	2.37E+00	4.07E+00	4.55E+00	positive	NA	NA	NA	positive	MW-46
MW-49-26	017	8/7/2009	10:50	3.56E+03	2.97E+02	1.79E+02	8.32E+03	1.22E+01	1.64E+00	6.79E-01	3.63E+01	-9.22E-01	3.27E+00	3.47E+00	positive	-1.44E+00	3.65E+00	3.60E+00	positive	4.77E+00	1.95E+01	2.22E+01	positive	MW-49-26
MW-49-42	017	8/7/2009	10:55	2.66E+03	2.69E+02	1.79E+02	5.54E+03	1.75E+01	1.92E+00	6.36E-01	4.80E+01	-3.65E-01	3.43E+00	3.79E+00	positive	9.35E-01	3.33E+00	3.95E+00	-7.87E+00	1.49E+01	1.75E+01	positive	MW-49-42
MW-49-65	017	8/7/2009	12:48	1.64E+03	2.33E+02	1.80E+02	3.30E+03	1.24E+01	1.62E+00	7.16E-01	4.07E+01	5.00E-01	3.13E+00	3.54E+00	positive	5.17E-01	3.22E+00	3.76E+00	positive	-3.28E+00	1.85E+01	2.15E+01	positive	MW-49-65
MW-50-42	018	8/7/2009	13:13	1.06E+03	2.09E+02	1.79E+02	1.00E+03	5.33E+00	1.25E+00	7.23E-01	9.49E+00	-7.54E-02	3.65E+00	4.14E+00	positive	3.06E-01	3.27E+00	3.75E+00	positive	-1.25E+01	1.64E+01	1.94E+01	positive	MW-50-42
MW-50-66	023	8/7/2009	16:12	3.06E+03	2.79E+02	1.79E+02	5.50E+03	2.91E+01	2.54E+00	9.11E-01	7.23E+01	2.05E-01	3.53E+00	3.82E+00	positive	7.02E-01	3.51E+00	4.14E+00	positive	-1.36E+01	1.85E+01	2.19E+01	positive	MW-50-66
MW-51-40	012	8/12/2009	13:42	2.67E+02	1.72E+02	1.79E+02	1.00E+03	5.39E-02	5.69E-01	6.39E-01	2.00E+00	3.92E-01	2.35E+00	3.41E+00	positive	1.00E+00	3.01E+00	3.56E+00	positive	-5.55E+00	1.95E+01	2.27E+01	positive	MW-51-40
MW-51-79	011	8/12/2009	11:11	1.95E+02	1.67E+02	1.80E+02	1.00E+03	7.53E-02	4.50E-01	5.53E-01	2.00E+00	4.76E-01	4.82E+00	4.34E+00	positive	1.34E+00	4.22E+00	4.21E+00	positive	-1.73E+01	1.85E+01	2.19E+01	positive	MW-51-79
MW-51-104	010	8/12/2009	11:14	2.91E+02	1.71E+02	1.80E+02	1.00E+03	1.27E-01	3.65E-01	4.36E-01	2.00E+00	3.06E-01	6.53E+00	3.82E+00	positive	1.05E-01	3.93E+00	4.36E+00	positive	-2.40E+00	1.85E+01	2.16E+01	positive	MW-51-104
MW-51-135	010	8/12/2009	11:22	9.84E+01	1.61E+02	1.79E+02	1.00E+03	-1.62E-01	4.93E-01	6.57E-01	2.00E+00	-1.17E+00	3.75E+00	3.74E+00	positive	2.68E+00	3.33E+00	4.29E+00	positive	-1.50E+01	1.81E+01	2.17E+01	positive	MW-51-135
MW-51-163	010	8/12/2009	11:28	1.41E+02	1.62E+02	1.79E+02	1.00E+03	7.24E-02	5.76E-01	6.39E-01	2.00E+00	7.50E-01	3.74E+00	4.26E+00	positive	-2.23E+00	3.23E+00	3.06E+00	positive	-3.79E+00	1.83E+01	2.08E+01	positive	MW-51-163
MW-51-189	010	8/12/2009	11:11	2.75E+01	1.39E+02	1.60E+02	1.00E+03	7.76E-01	8.83E-01	9.41E-01	2.00E+00	9.35E-01	3.82E+00	4.47E+00	positive	1.47E+00	3.84E+00	4.60E+00	positive	-1.98E+00	2.14E+01	2.47E+01	positive	MW-51-189
MW-53-82	012	7/21/2009	16:26	9.82E+02	2.67E+02	2.04E+02	1.96E+03	1.67E-01	8.37E-01	9.31E-01	2.00E+00	3.71E+00	3.87E+00	4.87E+00	positive	3.14E+00	4.33E+00	5.53E+00	positive	-9.93E-01	1.81E+01	2.07E+01	positive	MW-53-82
MW-53-120	016	7/21/2009	13:10	5.45E+03	5.13E+02	2.07E+02	1.19E+04	4.00E-01	5.40E-01	5.93E-01	6.30E+01	-1.68E+00	3.42E+00	3.59E+00	positive	3.12E+00	3.63E+00	5.03E+00	positive	4.59E+00	1.63E+01	1.83E+01	4.54E+01	MW-53-120
MW-54-37	010	8/4/2009	14:35	1.45E+03	2.52E+02	2.37E+02	2.07E+03	5.55E+00	1.11E+00	6.88E-01	1.22E+01	3.75E-01	3.91E+00	4.29E+00	positive	3.01E+00	4.02E+00	4.53E+00	positive	5.80E+00	2.11E+01	2.11E+01	positive	MW-54-37
MW-54-58	010	8/4/2009	14:30	7.81E+02	2.73E+02	2.34E+02	1.32E+03	1.41E+00	8.04E-01	7.44E-01	7.37E+00	-1.71E+00	3.23E+00	3.97E+00	positive	-9.96E-01	3.63E+00	3.83E+00	positive	3.36E+00	2.22E+01	2.60E+01	positive	MW-54-58
MW-54-123	010	8/4/2009	14:00	6.25E+02	2.63E+02	2.38E+02	1.21E+03	4.55E+00	1.24E+00	7.76E-01	1.76E+01	5.28E-01	3.53E+00	4.06E+00	positive	2.36E-01	3.27E+00	3.76E+00	positive	1.79E+00	2.11E+01	2.41E+01	positive	MW-54-123
MW-54-144	010	8/4/2009	11:10	1.25E+03	3.18E+02	2.39E+02	2.41E+03	1.42E+01	1.74E+00	7.22E-01	3.42E+01	5.70E-01	2.91E+00	3.33E+00	positive	-1.51E+00	3.72E+00	3.66E+00	positive	1.41E+01	2.24E+01	2.50E+01	positive	MW-54-144
MW-54-173	010	8/4/2009	11:15	1.87E+03	3.55E+02	2.34E+02	3.83E+03	9.15E+00	1.51E+00	7.34E-01	2.77E+01	1.45E+00	3.33E+00	3.92E+00	positive	-6.51E-01	2.93E+00	3.44E+00	positive	3.69E+00	2.13E+01	2.49E+01	positive	MW-54-173
MW-54-190	010	8/4/2009	11:20	1.94E+03	3.62E+02	2.36E+02	3.39E+03	1.92E+01	2.03E+00	6.71E-01	4.70E+01	-7.49E-01	3.31E+00	3.53E+00	positive	9.28E-01	3.99E+00	4.59E+00	positive	-1.53E+00	2.14E+01	2.47E+01	positive	MW-54-190
MW-55-54	011	8/5/2009	13:52	1.55E+03	3.39E+02	2.37E+02	2.19E+03	3.07E+01	2.52E+00	7.22E-01	4.06E+01	-7.93E-01	3.74E+00	3.61E+00	positive	1.05E+00	2.92E+00	3.52E+00	positive	4.03E+00	2.23E+01	2.59E+01	positive	MW-55-54
MW-55-35	010	8/5/2009	13:10	2.83E+03	4.19E+02	2.38E+02	3.77E+03	4.14E+01	2.83E+00	7.28E-01	5.75E+01	1.22E+00	3.52E+00	3.46E+00	positive	2.61E-01	3.33E+00	3.79E+00	positive	2.68E+00	2.23E+01	2.61E+01	positive	MW-55-35
MW-55-54	011	8/5/2009	13:25	5.47E+03	5.45E+02	2.35E+02	1.38E+04	2.82E+01	2.43E+00	6.15E-01	4.61E+01	-1.03E-01	2.75E+00	3.04E+00	positive	-1.85E+00	3.12E+00	3.17E+00	positive	8.36E+00	2.34E+01	2.65E+01	positive	MW-55-54
MW-60-35	010	8/11/2009	14:41	2.02E+02	1.49E+02	1.53E+02	2.00E+03	3.16E-01	4.41E-01	4.71E-01	2.00E+00	2.47E+00	5.67E+00	6.63E+00	positive	3.46E+00	6.13E+00	7.58E+00	positive	5.77E+00	1.77E+01	2.03E+01	positive	MW-60-35
MW-60-53	010	8/11/2009	14:26	2.02E+02	1.55E+02	1.69E+02	2.00E+03	1.13E-01	7.18E-01	8.59E-01	2.00E+00	1.11E+00	4.85E+00	5.52E+00	positive	4.62E-02	4.88E+00	5.44E+00	positive	-3.22E+00	1.71E+01	2.00E+01	positive	MW-60-53
MW-60-72	010	8/11/2009	10:40	1.72E+02	1.55E+02	1.69E+02	2.00E+03	5.31E-02	5.38E-01	6.30E-01	2.00E+00	2.68E+00	3.83E+00	4.62E+00	positive	4.36E+00	6.15E+00	5.86E+00	positive	-2.42E+00	1.75E+01	2.04E+01	positive	MW-60-72
MW-60-135	010	8/11/2009	10:52	3.46E+02	1.64E+02	1.69E+02	2.00E+03	4.65E-01	5.88E-01	6.16E-01	2.00E+00	1.76E+00	3.35E+00	4.03E+00	positive	4.56E-01	3.51E+00	3.93E+00	positive	-3.72E+00	1.77E+01	2.07E+01	positive	MW-60-135
MW-60-154	010	8/11/2009	11:14	5.15E+02	1.71E+02	1.69E+02	2.00E+03	-3.52E-01	7.10E-01	9.29E-01	2.00E+00	-3.93E-01	5.04E+00	5.67E+00	positive	-2.95E+00	6.02E+00	5.34E+00	positive	1.97E+00	1.83E+01	2.08E+01	positive	MW-60-154
MW-60-176	010	8/11/2009	11:19	1.02E+03	1.91E+02	1.69E+02	2.00E+03	2.36E-02	3.44E-01	4.53E-01	2.00E+00	1.75E+00	4.86E+00	5.71E+00	positive	2.25E+00	4.89E+00	5.91E+00	positive	2.65E+00	1.77E+01	2.07E+01	positive	MW-60-176
MW-62-18	010	9/22/2009	14:24	2.36E+02	2.15E+02	2.29E+02	2.00E+03	1.04E-01	6.42E-01	7.34E-01	2.00E+00	-8.49E-01	2.94E+00	3.08E+00	positive	-2.70E+00	3.65E+00	3.28E+00	positive	NA	NA	NA	positive	MW-62-18
MW-62-37	010	9/22/2009	16:02	2.82E+02	2.22E+02	2.30E+02	2.00E+03	-3.63E-01	6.77E-01	8.31E-01	2.00E+00	-1.79E+00	3.65E+00	3.82E+00	positive	-1.63E+00	3.53E+00	3.57E+00	positive	NA	NA	NA	positive	MW-62-37
MW-62-53	009	9/22/2009	14:01	2.42E+02	2.21E+02	2.33E+02	2.00E+03	7.09E-01	7.95E-01	8.34E-01	2.00E+00	3.00E-02	3.13E+00	3.55E+00	positive	3.78E-01	3.24E+00	3.72E+00	positive	NA	NA	NA	positive	MW-62-53
M

TABLE 4
2009 3rd QUARTER
GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERTY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE COLLECTION		ANALYSIS RESULTS																		Well ID
		TRITIUM (pCi/L)						Sr-90 (pCi/L)				Cs-137 (pCi/L)				Co-60 (pCi/L)				Ni-63 (pCi/L)				
		Date	Time	Result	Std. Dev.	MDC	LL.[3]	Result	Std. Dev.	MDC	LL.	Result	Std. Dev.	MDC	LL.	Result	Std. Dev.	MDC	LL.	Result	Std. Dev.	MDC	LL.	
MW-62-92	010	7/22/2009	11 37	2 80E+02	2 24E+02	2 32E+02	2 00E+03	3 44E-02	6 37E-01	9 10E-01	2 00E+00	3 42E-01	3 29E+00	3 96E+00	positive	-9 42E-01	3 45E+00	3 57E+00	positive	NA	NA	NA	positive	MW-62-92
MW-62-138	010	7/22/2009	16 55	6 31E+02	2 54E+02	2 29E+02	2 00E+03	7 31E+00	7 83E-01	7 15E-01	2 00E+00	1 86E+00	3 81E+00	4 50E+00	positive	3 36E-01	3 63E+00	4 12E+00	positive	NA	NA	NA	positive	MW-62-138
MW-62-182	010	7/22/2009	17 00	4 66E+02	2 43E+02	2 33E+02	2 00E+03	2 73E-01	8 22E-01	9 71E-01	2 00E+00	5 07E-01	2 95E+00	3 47E+00	positive	-9 17E-01	2 73E+00	2 70E+00	positive	NA	NA	NA	positive	MW-62-182
MW-63-18	010	7/30/2009	14 26	3 80E+02	1 83E+02	1 89E+02	2 00E+03	-2 47E-01	2 76E-01	4 70E-01	2 00E+00	2 06E+00	5 42E+00	6 37E+00	positive	4 32E-01	5 99E+00	6 85E+00	positive	NA	NA	NA	positive	MW-63-18
MW-63-34	010	7/30/2009	14 00	3 37E+02	1 83E+02	1 88E+02	2 00E+03	2 57E-01	5 50E-01	6 37E-01	2 00E+00	5 62E-01	5 53E+00	5 65E+00	positive	1 70E+00	5 42E+00	6 42E+00	positive	NA	NA	NA	positive	MW-63-34
MW-63-50	010	7/30/2009	11 05	3 35E+02	1 83E+02	1 87E+02	2 00E+03	5 40E-01	5 84E-01	5 31E-01	2 00E+00	2 00E+00	6 27E+00	7 39E+00	positive	1 36E+00	6 63E+00	7 71E+00	positive	NA	NA	NA	positive	MW-63-50
MW-63-55	011	7/30/2009	11 30	2 64E+02	1 77E+02	1 88E+02	2 00E+03	1 8 E-01	3 65E-01	4 15E-01	2 00E+00	2 42E+00	5 54E+00	6 51E+00	positive	3 8E-01	5 65E+00	6 56E+00	positive	NA	NA	NA	positive	MW-63-55
MW-63-112	010	7/30/2009	13 54	4 64E+02	1 83E+02	1 89E+02	2 00E+03	1 50E-01	5 70E-01	6 78E-01	2 00E+00	-2 23E+00	7 61E+00	7 36E+00	positive	4 44E+00	6 93E+00	8 68E+00	positive	NA	NA	NA	positive	MW-63-112
MW-63-121	010	7/30/2009	14 03	4 66E+02	1 83E+02	1 89E+02	2 00E+03	5 2 E-01	5 49E-01	5 56E-01	2 00E+00	1 05E+00	4 87E+00	5 53E+00	positive	2 66E+00	6 67E+00	5 29E+00	positive	NA	NA	NA	positive	MW-63-121
MW-63-163	010	7/30/2009	13 45	6 9 E+02	1 93E+02	1 89E+02	2 00E+03	-1 33E-01	3 60E-01	5 36E-01	2 00E+00	-2 87E+00	5 47E+00	5 52E+00	positive	-1 49E-01	5 83E+00	6 40E+00	positive	NA	NA	NA	positive	MW-63-163
MW-63-174	010	7/30/2009	13 05	4 22E+02	1 85E+02	1 89E+02	2 00E+03	-1 74E-01	5 20E-01	6 32E-01	2 00E+00	1 42E-01	5 52E+00	6 38E+00	positive	1 22E+00	5 72E+00	6 23E+00	positive	NA	NA	NA	positive	MW-63-174
MW-66-21	010	7/28/2010	14 10	8 22E+02	2 52E+02	2 01E+02	1 54E+03	4 5 E-01	6 90E-01	7 54E-01	2 02E+00	4 32E-01	4 04E+00	4 51E+00	positive	3 35E-01	3 65E+00	4 34E+00	positive	8 48E+00	2 07E+01	2 33E+01	positive	MW-66-21
MW-66-36	009	7/28/2010	13 41	3 05E+03	4 10E+02	2 10E+02	1 19E+04	7 51E+00	1 21E+00	3 25E-01	2 71E+01	3 15E+00	6 23E+00	3 54E+00	positive	-6 56E-01	3 65E+00	3 98E+00	positive	6 22E+00	1 92E+01	2 16E+01	positive	MW-66-36
MW-66-59	010	7/28/2009	15 04	2 65E+05	5 8 E+02	2 08E+02	7 45E+05	6 5 E+00	1 11E+00	5 88E-01	5 56E+01	1 90E-01	3 01E+00	3 45E+00	positive	2 5 E-01	3 24E+00	3 30E+00	positive	-5 64E+00	1 71E+01	2 06E+01	positive	MW-66-59
MW-67-105	009	7/28/2009	15 15	1 77E+03	3 30E+02	2 09E+02	4 95E+03	3 33E-01	4 15E-01	3 58E-01	2 14E+00	1 55E+00	2 83E+00	3 42E+00	positive	-7 22E-01	3 54E+00	3 64E+00	positive	1 17E+01	1 85E+01	2 04E+01	positive	MW-67-105
MW-67-172	010	7/28/2009	15 24	1 05E+03	2 75E+02	2 07E+02	1 90E+03	1 59E-01	5 50E-01	6 32E-01	2 00E+00	5 44E-01	2 91E+00	3 45E+00	positive	-6 41E-01	3 05E+00	3 17E+00	positive	7 62E-01	1 74E+01	1 99E+01	positive	MW-67-172
MW-67-219	009	7/28/2009	11 11	9 25E+02	2 61E+02	2 03E+02	2 51E+03	1 8 E-01	8 09E-01	9 56E-01	2 00E+00	2 88E+00	3 93E+00	4 97E+00	positive	1 63E+00	3 73E+00	4 67E+00	positive	1 14E+01	1 65E+01	1 85E+01	positive	MW-67-219
MW-67-276	009	7/28/2009	11 15	9 17E+02	2 63E+02	2 04E+02	2 27E+03	2 23E-01	3 98E-01	4 46E-01	2 00E+00	6 84E-01	5 01E+00	4 61E+00	positive	2 18E+00	3 71E+00	4 70E+00	positive	7 04E+00	1 75E+01	1 99E+01	positive	MW-67-276
MW-67-323	009	7/28/2009	11 25	3 94E+02	2 15E+02	2 07E+02	1 00E+03	5 3 E-02	3 21E-01	4 37E-01	2 00E+00	-1 54E+00	3 31E+00	3 45E+00	positive	7 3 E-01	3 72E+00	4 34E+00	positive	2 92E-01	1 72E+01	2 04E+01	positive	MW-67-323
MW-67-340	009	7/28/2009	11 20	4 7 E+02	2 25E+02	2 08E+02	1 11E+03	2 02E-01	6 29E-01	7 50E-01	2 00E+00	5 88E-01	3 75E+00	4 34E+00	positive	-3 76E-01	3 05E+00	3 30E+00	positive	-6 20E-01	1 87E+01	2 16E+01	positive	MW-67-340
U3-4D	021	8/5/2009	14 06	4 82E+02	1 88E+02	1 89E+02	1 00E+03	-1 59E-01	5 17E-01	7 34E-01	2 00E+00	-2 04E+00	5 43E+00	5 08E+00	positive	1 93E+00	5 65E+00	6 65E+00	positive	NA	NA	NA	positive	U3-4D
U3-T1	025	7/14/2009	11 08	3 95E+02	2 35E+02	2 32E+02	1 28E+03	4 7 E-02	7 47E-01	8 36E-01	2 00E+00	2 51E+00	5 24E+00	5 65E+00	positive	3 47E-01	3 72E+00	4 43E+00	positive	NA	NA	NA	positive	U3-T1
U3-T2	020	7/14/2009	13 04	1 12E+03	2 94E+02	2 30E+02	2 14E+03	5 50E-01	8 61E-01	9 58E-01	2 00E+00	1 31E-01	3 60E+00	4 23E+00	positive	-6 33E-01	3 72E+00	4 05E+00	positive	NA	NA	NA	positive	U3-T2
U1-NCT	005	7/13/2009	12 30	2 66E+03	3 85E+02	2 08E+02	1 00E+03	1 30E+02	4 93E+00	5 34E-01	2 00E+00	1 78E+04	1 35E+03	1 39E+01	positive	7 71E-01	3 71E+00	4 30E+00	positive	2 91E+02	2 72E+01	2 12E+01	positive	U1-NCT
U1-SFDS	006	7/15/2009	8 30	7 35E+02	2 75E+02	2 39E+02	1 00E+03	3 54E+01	2 67E+00	4 79E-01	2 00E+00	9 41E+00	7 41E+00	3 60E+00	positive	-9 93E-02	4 44E+00	4 64E+00	positive	5 10E+00	2 14E+01	2 44E+01	positive	U1-SFDS

Notes
1 For nested multi-level monitoring wells, suffix of well ID indicates depth (rounded to nearest foot) from reference point on casing to bottom of well screen For Waterloo multi-level systems, suffix indicates depth (rounded to nearest foot) from reference point on casing to top of sampling port
Well IDs without a suffix are open bedrock wellbores
2 Sampling depths within sampling intervals (location of pump intake) have been established at locations of most contaminative zone to the extent possible
3 LL s (Investigation Levels) are predetermined detection limits assigned to each sampling location which, if reached or exceeded, require further investigation or action LL s presented here are established for 2009 based on 2008 averages Positive detections indicate that the the result is greater than MDC and greater than or equa to 3 times the 1 sigma uncertainty
4 NA indicates that the constituent was not analyzed
5 Dot pattern denotes sampling interval is positioned within overburden soils Open box indicates sampling interval is in bedrock
6 Shading indicates that the sample result exceeds the Investigation Level
7 Due to unexpectedly high levels of XXX detected in the original set of the Second Quarter 2009 samples collected from XXX and XXXX, a second set of samples were collected and analyzed The re-analyzed samples had results below MDC and below three times the 1 sigma uncertainty (not positive) for Cs-137 at these intervals, suggesting that the first set of results do not appropriately characterize activity at these intervals

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-30-69	001	69.3	6.4	1/30/2005	15:40	2.15E+05	2.76E+04	6.26E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-30-69
	003	69.3	6.4	6/23/2005	10:50	3.52E+05	3.53E+04	6.02E+03	5.34E-02	8.24E-01	1.09E+00	2.96E+01	1.40E+01	1.14E+01	4.23E+00	9.93E+00	1.48E+0.	1.02E+01	1.27E+01	1.36E+01	
	004	69.3	6.4	8/18/2005	14:45	2.20E+05	4.20E+03	1.10E+03	8.14E-01	1.40E+00	1.52E+00	-7.33E+00	1.40E+01	1.41E+01	3.91E+00	1.51E+01	1.78E+0.	Na	Na	Na	
	005	69.3	6.4	11/29/2006	10:45	1.06E+05	1.86E+03	5.30E+02	2.50E+00	8.40E-01	8.10E-01	3.13E+03	3.30E+01	5.00E+30	1.20E+00	2.28E+00	2.50E+00	1.15E+01	1.26E+01	1.40E+01	
	006	69.3	6.4	1/16/2007	14:05	9.17E+04	3.73E+03	6.34E+02	-1.66E-01	1.47E+00	1.60E+00	0.00E+00	2.10E+00	2.40E+30	-4.36E-01	2.37E+00	2.50E+00	7.07E+00	1.94E+01	2.20E+01	
	007	69.3	6.4	6/12/2007	10:20	2.57E+05	3.73E+03	6.34E+02	-2.63E-01	4.19E-01	6.45E-01	3.93E-01	3.75E+00	4.05E+30	6.00E-02	4.30E+00	3.94E+00	NA	NA	NA	
	008	69.3	6.4	7/18/2007	9:55	8.21E+04	3.46E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	010	69.3	6.4	8/1/2007	11:44	1.03E+05	3.09E+03	6.44E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	011	69.3	6.4	8/8/2007	10:00	9.56E+04	2.99E+03	6.37E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	012	69.3	6.4	8/15/2007	11:00	2.33E+05	5.99E+03	6.37E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	013	69.3	6.4	8/21/2007	9:45	1.07E+05	3.21E+03	7.05E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	014	69.3	6.4	8/30/2007	11:32	9.80E+04	2.94E+03	7.03E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	015	69.3	6.4	9/19/2007	11:00	9.20E+04	2.76E+03	7.02E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	016	69.3	6.4	10/23/2007	11:48	1.32E+05	3.90E+03	4.24E+02	2.52E-01	6.16E-01	7.12E-01	2.42E+00	5.76E+00	4.45E+30	-5.09E-01	3.56E+00	3.86E+00	NA	NA	NA	
	017	69.3	6.4	2/4/2008	13:00	1.87E+05	5.51E+03	3.95E+02	1.57E-01	6.98E-01	8.57E-01	1.26E+00	3.05E+00	5.56E+30	-6.00E-01	3.53E+00	3.28E+00	NA	NA	NA	
	018	69.3	6.4	5/6/2008	11:00	1.53E+05	3.01E+03	4.06E+02	3.34E-01	3.98E-01	6.71E-01	4.94E-01	1.83E+00	3.21E+30	-5.70E-01	1.71E+00	2.73E+00	NA	NA	NA	
	019	69.3	6.4	6/6/2008	11:01	7.36E+04	2.02E+03	5.06E+02	2.02E-01	3.20E-01	5.59E-01	-9.82E-01	2.10E+00	3.27E+30	4.91E-01	2.24E+00	3.85E+00	NA	NA	NA	
	020	69.3	6.4	8/5/2008	11:22	1.59E+05	3.92E+03	4.95E+02	2.09E-01	3.07E-01	5.34E-01	-1.57E-01	1.42E+00	2.38E+30	1.11E+00	1.28E+00	2.33E+00	NA	NA	NA	
	021	69.3	6.4	9/3/2008	11:29	8.53E+04	2.03E+03	5.05E+02	-3.12E-01	5.12E-01	9.72E-01	-1.89E+00	2.22E+00	2.56E+30	NA	NA	NA	NA	NA	NA	
	022	69.3	6.4	11/7/2008	10:27	9.55E+04	2.85E+03	5.06E+02	4.09E-01	5.55E-01	6.31E-01	7.85E-01	3.09E+00	2.66E+30	-1.07E-01	2.55E+00	2.82E+00	NA	NA	NA	
	023	69.3	6.4	1/30/2009	11:00	1.07E+05	2.51E+03	1.96E+02	-8.47E-02	7.58E-01	9.73E-01	-1.13E+00	2.61E+00	2.66E+30	1.06E+00	2.70E+00	3.24E+00	NA	NA	NA	
	024	69.3	6.4	4/27/2009	10:27	1.10E+05	3.63E+03	4.02E+02	-1.54E-01	4.28E-01	6.31E-01	1.49E+00	7.11E+00	4.74E+30	-2.78E-01	4.19E+00	4.60E+00	NA	NA	NA	
	025	69.3	6.4	6/1/2009	12:02	8.20E+04	3.21E+03	3.77E+02	3.12E-01	5.63E-01	6.32E-01	2.16E+00	9.00E+00	6.52E+30	6.26E-01	6.47E+00	7.42E+00	NA	NA	NA	
	026	69.3	6.4	8/6/2009	12:16	1.64E+05	4.77E+03	2.96E+02	6.79E-02	6.10E-01	7.41E-01	-2.02E+00	3.32E+00	7.36E+30	-2.07E+30	2.44E+00	2.70E+00	NA	NA	NA	
	027	69.3	6.4	9/12/2009	10:45	9.51E+04	3.91E+03	2.67E+02	3.43E-02	6.45E-01	8.50E-01	9.52E-01	5.52E+00	6.11E+30	4.45E+00	6.13E+00	7.88E+00	NA	NA	NA	
MW-30-84	001	83.8	-8.1	8/22/2005	13:15	1.25E+04	2.43E+03	1.61E+03	-1.60E-01	9.82E-01	1.13E+00	1.88E+00	1.09E+01	1.24E+31	-5.52E+30	1.30E+01	1.03E+0.	NA	NA	NA	MW-30-84
	002	83.8	-8.1	11/29/2006	14:30	1.01E+04	1.59E+03	1.11E+03	-9.40E-01	7.80E-01	8.70E-01	2.94E+02	1.63E+01	5.00E+30	-3.00E-01	3.90E+00	4.80E+00	4.10E+00	1.17E+01	1.36E+01	
	003	83.8	-8.1	1/17/2007	9:45	7.33E+03	7.50E+02	5.30E+02	4.80E-01	1.50E+00	1.60E+00	1.18E+00	2.61E+00	2.90E+30	0.00E+00	2.91E+00	3.40E+00	NA	NA	NA	
	004	83.8	-8.1	6/12/2007	10:19	7.79E+03	9.47E+02	4.42E+02	-1.49E-01	4.44E-01	6.41E-01	-1.06E+00	2.29E+00	2.41E+30	-6.93E-01	2.38E+00	2.54E+00	-3.57E+00	1.74E+01	2.03E+01	
	005	83.8	-8.1	7/18/2007	10:25	4.80E+03	7.20E+02	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006	83.8	-8.1	7/25/2007	13:00	5.02E+03	4.49E+02	2.43E+02	1.56E-01	3.09E-01	3.48E-01	2.03E+00	3.33E+00	2.84E+30	2.03E+00	2.91E+00	3.57E+00	NA	NA	NA	
	007	83.8	-8.1	10/23/2007	12:49	4.27E+03	7.33E+02	4.03E+02	5.95E-01	5.53E-01	5.59E-01	1.56E+00	2.81E+00	3.38E+30	-1.17E+30	3.72E+00	3.27E+00	NA	NA	NA	
	008	83.8	-8.1	2/4/2008	14:16	4.34E+03	2.61E+02	1.32E+02	-4.08E-01	4.55E-01	7.47E-01	-1.00E+00	2.55E+00	2.73E+30	-4.32E-01	2.97E+00	2.79E+00	NA	NA	NA	
	009	83.8	-8.1	5/6/2008	13:40	4.18E+03	2.83E+02	2.20E+02	3.26E-01	3.86E-01	6.51E-01	4.43E-01	2.37E+00	4.00E+30	-1.91E+30	2.53E+00	3.69E+00	NA	NA	NA	
	010	83.8	-8.1	6/6/2008	12:10	3.85E+03	5.33E+02	5.04E+02	1.54E-01	2.46E-01	4.34E-01	-8.97E-01	2.16E+00	3.57E+30	2.05E+00	2.31E+00	4.25E+00	NA	NA	NA	
	020	83.8	-8.1	8/5/2008	14:40	4.31E+03	2.23E+02	1.94E+02	2.77E-01	2.86E-01	4.57E-01	-1.87E-01	1.44E+00	2.35E+30	-1.04E-01	2.12E+00	2.66E+00	NA	NA	NA	
	021	83.8	-8.1	9/3/2008	11:29	3.78E+03	3.13E+02	3.52E+02	-4.62E-02	4.61E-01	9.36E-01	-3.02E-01	1.73E+00	2.89E+30	NA	NA	NA	NA	NA	NA	
	023	83.8	-8.1	11/7/2008	10:50	5.25E+03	3.23E+02	1.64E+02	1.07E-02	5.75E-01	7.51E-01	6.04E-01	4.63E+00	5.37E+30	2.13E+00	5.34E+00	6.53E+00	NA	NA	NA	
	024	83.8	-8.1	1/30/2009	11:21	4.69E+03	3.43E+02	1.95E+02	5.38E-02	5.97E-01	7.19E-01	8.97E+00	4.34E+00	3.02E+30	-8.43E-02	3.39E+00	3.81E+00	NA	NA	NA	
	025	83.8	-8.1	4/27/2009	14:50	5.34E+03	9.03E+02	4.11E+02	-1.19E-01	4.70E-01	6.29E-01	1.13E+00	5.54E+00	4.36E+30	1.33E+00	3.72E+00	4.20E+00	NA	NA	NA	
	026	83.8	-8.1	6/1/2009	13:25	5.63E+03	2.02E+02	3.74E+02	1.34E-01	7.10E-01	8.22E-01	3.90E-01	1.01E+01	6.75E+30	6.79E-02	6.36E+00	6.80E+00	NA	NA	NA	
	027	83.8	-8.1	8/6/2009	12:38	7.76E+03	5.03E+02	1.66E+02	6.08E-02	7.47E-01	9.19E-01	1.88E+00	1.82E+00	5.65E+30	5.55E+30	6.12E+00	7.95E+00	NA	NA	NA	
	028	83.8	-8.1	9/12/2009	12:22	6.75E+03	3.89E+02	1.53E+02	6.42E-02	7.28E-01	8.21E-01	1.76E+00	2.09E+00	5.02E+30	7.70E-01	5.29E+00	5.82E+00	NA	NA	NA	
MW-31-49	001	48.8	25.8	11/27/2006	11:45	2.58E+02	1.74E+02	1.70E+02	0.00E+00	1.29E+00	1.40E+00	NA	NA	NA	1.80E+00	3.60E+00	4.00E+00	1.42E+02	1.65E+02	1.87E+02	MW-31-49
	002	48.8	25.8	1/18/2007	9:13	1.20E+03	5.70E+02	5.03E+02	3.00E-01	1.62E+00	1.80E+00	NA	NA	NA	-5.10E+30	8.10E+00	9.50E+00	NA	NA	NA	
	003	48.8	25.8	6/12/2007	14:24	1.48E+03	5.24E+02	4.37E+02	-1.51E-01	5.49E-01	7.52E-01	1.83E-01	2.12E+00	2.35E+30	1.26E-01	2.21E+00	2.26E+00	0.00E+00	1.11E+01	1.29E+01	
	004	48.8	25.8	8/2/2007	10:23	1.19E+04	1.27E+03	5.43E+02	-5.17E-01	7.89E-01	9.55E-01	8.83E+01	1.35E+01	3.31E+30	1.80E-01	3.53E+00	4.11E+00	NA	NA	NA	
	005	48.8	25.8	9/11/2007	13:10	6.58E+03	3.27E+02	1.55E+02	-2.26E-01	4.23E-01	6.01E-01	-1.10E+00	3.04E+00	3.24E+30	0.00E+00	4.26E+00	4.75E+00	NA	NA	NA	
	006	48.8	25.8	10/24/2007	15:50	8.77E+03	2.99E+02	4.01E+02	5.14E-02	4.26E-01	5.86E-01	-6.76E-01	3.94E+00	3.57E+30	1.35E+00	3.21E+00	3.52E+00	NA	NA	NA	
	007	48.8	25.8	1/16/2008	10:31	3.57E+02	1.94E+02	1.77E+02	-9.14E-02	6.86E-01	8.97E-01	-1.17E+00	4.74E+00	5.07E+30	-9.76E-01	4.41E+00	4.65E+00	NA	NA	NA	
	009	48.8	25.8	6/6/2008	15:05	3.04E+04	1.34E+03	4.69E+02	2.83E-01	3.39E-01	5.72E-01	1.11E+00	1.93E+00	3.47E+30	1.72E+00	2.01E+00	3.82E+00	NA	NA	NA	
	010	48.8	25.8	8/7/2008	12:43	5.54E+02	1.33E+02	1.92E+02	2.39E-01	2.67E-01	4.43E-01	7.07E-01	1.30E+00	2.23E+30	7.08E-01	1.49E+00	2.56E+00	NA	NA	NA	
	011	48.8	25.8	8/30/2008	11:55	1.36E+04	3.61E+02	5.53E+02	4.16E-01	4.80E-01	8.36E-01	1.27E+00	3.63E+00	3.05E+30	NA	NA	NA	NA	NA	NA	
	012	48.8	25.8	10/30/2008	11:50	6.43E+02	2.25E+02	1.71E+02	7.64E-02	1.71E-01	1.93E-01	1.89E+00	5.27E+00	1.25E+30	-9.09E-01	6.40E+00	6.88E+00	NA	NA	NA	
	013	48.8	25.8	11/18/2008	11:15	7.77E+02	1.79E+02	1.62E+02	4.11E-01	6.80E-01	6.97E-01	1.21E+00	4.13E+00	5.05E+30	5.78E-01	4.23E+00	5.84E+00	NA	NA	NA	
	014	48.8	25.8	2/6/2009	11:05	1.11E+04	7.86E+02	1.95E+02	1.18E-01	3.00E-01	3.57E-01	-1.67E-01	2.97E+00	3.35E+30	-4.61E-01	2.85E+00	3.14E+00	NA	NA	NA	
	015	48.8	25.8	4/14/2009	10:56	4.84E+04	1.42E+03	1.56E+02	4.85E-01	5.63E-01	5.97E-01	-5.81E-01	5.13E+00	4.12E+30	1.44E+00	3.90E+00	4.67E+00	NA	NA	NA	
	016	48.8	25.8	5/29/2009	11:42	9.34E+03	1.12E+03	3.77E+02	5.72E-01	5.75E-01	6.34E-01	-7.90E-01	9.50E+00	6.33E+30	-1.45E+30	6.53E+00	7.31E+00	NA	NA	NA	
	017	48.8	25.8	7/21/2009	11:53	7.36E+02	2.61E+02	2.27E+02	1.91E-01	5.01E-01	5.26E-01	-1.36E+00	3.30E+00	3.60E+30	1.04E+00	3.22E+00	4.66E+00	NA	NA	NA	
	018	48.8	25.8	9/1/2009	10:22	2.54E+03	2.83E+02	2.13E+02	5.58E-01	4.29E-01	3.98E-01	2.16E+00	1.06E+01	7.67E+30	5.8?E-01	5.33E+00	5.91E+00	NA	NA	NA	
	019	48.8	25.8	9/14/2009	11:13	3.14E+04	2.35E+02	1.70E+02	-3.21E-02	7.29E-01	9.36E-01	-1.97E+00	5.31E+00	5.51E+30	3.23E+00	4.71E+00	6.72E+00	NA	NA	NA	
MW-31-63	001	83.3	12.3	11/27/2006	12:10	6.59E+03	1.44E+03	1.17E+03	5.30E-01	1.26E+00	1.40E+00	1.09E+02	2.40E+00	3.67E+30	6.88E-01	2.34E+00	3.40E+00	4.10E+01	1.17E+02	1.36E+02	MW-31-63
	002	83.3	12.3	1/18/2007	9:25	1.41E+04	9.00E+02	5.20E+02	-6.50E-01	1.50E+00	1.70E+00	-4.00E-01	3.00E+00	3.50E+30	-4.50E-01	2.91E+00	3.50E+00	NA	NA	NA	
	003	83.3	12.3	6/12/2007	14:20	5.00E+03	7.81E+02	4.38E+02	4.72E-01	6.36E-01	6.93E-01	-5.01E-01	1.92E+00	2.06E+30	-8.78E-02	1.27E+00	2.20E+00	3.37E+00	1.89E+01	2.17E+01	
	004	83.3	12.3	8/2/2007	11:15	4.66E+04	2.27E+03	5.53E+02	-5.41E-01	7.84E-01	9.33E-01	1.20E+00	3.56E+00	4.18E+30	-3.09E-02	4.41E+00	4.23E+00	NA	NA	NA	
	005	83.3	12.3	9/11/2007	13:25	3.77E+04	1.13E+03	2.20E+02	-1.37E-01	4.52E-01	6.15E-01	-4.39E-01	3.51E+00	3.80E+30	-8.64E-01	3.92E+00	3.44E+00	NA	NA	NA	
	006	83.3	12.3	10/24/2007	14:55	3.58E+04	1.94E+03	4.00E+02	-1.62E-01	4.58E-01	6.34E-01	1.07E+00	5.31E+00	4.01E+30	1.01E+00	3.40E+00	4.11E+00	NA	NA	NA	
	007	83.3	12.3	1/16/2008	11:32	1.24E+04	7.35E+02	1.80E+02	-6.88E-02	5.34E-01	7.44E-01	-2.49E-01	4.04E+00	4.42E+30	-9.08E-01	4.19E+00	4.32E+00	NA	NA	NA	
	009	83.3	12.3	6/6/2008	16:16	1.02E+04	7.92E+02	5.04E+02	1.44E-01	3.40E-01	6.17E-01	-1.15E+00	2.11E+00	3.36E+30	2.47?+00	2.31E+00	4.45E+00	NA	NA	NA	
	010	83.3	12.3	8/7/2008	11:22	1.76E+04	4.17E+02	1.94E+02	-2.12E-01	2.61E-01	5.39E-01	-1.86E-01	1.28E+00	2.16E+30	3.73E-01	1.43E+00	2.49E+00	NA	NA	NA	
	011	83.3	12.3	8/30/2008	12:34	2.21E+04	1.07E+03	5.45E+02	-6.34E-01	4.35E-01	9.79E-01	3.76E-01	2.35E+00	4.04E+30	NA	NA	NA	NA	NA	NA	
	012	83.3	12.3	10/30/2008	12:14	2.50E+04	1.08E+03	1.72E+02	2.28E-01	2.53E-01	2.92E-01	2.21E+00	5.18E+00	5.37E+30	-1.47E+30	7.26E+00	7.77E+00	NA	NA	NA	
	013	83.3	12.3	11/18/2008	11:58	2.55E+04	3.07E+02	1.84E+02	3.95E-01	7.40E-01	8.36E-01	1.02E-02	5.89E+00	6.01E+30	-5.18E-01	6.54E+00	6.97E+00	NA	NA	NA	
	014	83.3	12.3	2/6/2009	11:53	1.28E+04	3.32E+02	1.97E+02	6.43E-01	6.42E-01	6.32E-01	-1.32E+00	3.42E+00	3.63E+30	-7.48E-01	3.86E+00	4.17E+00	NA	NA	NA	
	015	83.3	12.3	4/14/2009	12:07	3.84E+04	1.10E+03	1.48E+02	2.95E-01	6.81E-01	7.75E-01	1.76E+00	5.68E+00	4.45E+30	2.23?+00	3.87E+00	4.79E+00	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE LID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-31-63	006	63.3	12.3	5/29/2009	12:34	3.16E+04	9.51E+02	1.95E+02	5.59E-01	5.58E-01	6.07E-01	1.79E+00	1.07E+01	7.12E+00	7.44E-01	6.45E+00	7.35E+00	NA	NA	NA	MW-31-63
	007	63.3	12.3	7/21/2009	12:50	1.45E+04	3.23E+02	2.31E+02	1.95E-01	7.52E-01	9.11E-01	3.43E-01	3.90E+00	4.37E+00	-1.56E+00	3.88E+00	3.75E+00	NA	NA	NA	
	008	63.3	12.3	9/1/2009	10:50	1.41E+04	3.09E+02	2.13E+02	1.51E-01	3.55E-01	4.13E-01	-1.38E+00	5.76E+00	6.17E+00	6.92E-01	5.31E+00	5.74E+00	NA	NA	NA	
	009	63.3	12.3	9/14/2009	12:45	1.41E+04	3.43E+02	1.92E+02	8.11E-01	8.72E-01	9.25E-01	-1.96E+00	4.75E+00	5.02E+00	-1.45E+00	5.81E+00	6.29E+00	NA	NA	NA	
MW-31-85	001	84.8	-9.2	11/27/2006	12:20	4.42E+02	1.74E+02	1.70E+02	1.50E-01	1.44E+00	1.60E+00	1.32E+02	3.40E+00	3.20E+00	2.10E-01	2.19E+00	2.30E+00	2.20E+01	9.30E+01	1.00E+02	MW-31-85
	002	84.8	-9.2	1/18/2007	9:15	2.60E+03	5.00E+02	2.20E+02	-5.90E-01	1.59E+00	1.80E+00	-4.90E+00	3.70E+00	1.00E+01	-6.00E-01	8.70E+00	1.00E+01	8.35E+00	2.11E+01	2.35E+01	
	003	84.8	-9.2	6/12/2007	14:05	3.17E+02	1.62E+02	1.69E+02	-3.03E-01	6.62E-01	9.31E-01	3.95E-01	2.70E+00	1.91E+00	-5.71E-01	1.59E+00	1.03E+00	NA	NA	NA	
	004	84.8	-9.2	8/3/2007	10:58	2.69E+03	7.11E+02	5.31E+02	3.20E-01	6.31E-01	9.31E-01	5.01E-02	3.29E+00	3.55E+00	1.90E+00	3.35E+00	3.31E+00	NA	NA	NA	
	005	84.8	-9.2	9/11/2007	13:30	4.32E+03	3.32E+02	1.82E+02	6.86E-01	7.48E-01	7.93E-01	7.04E-01	3.01E+00	3.26E+00	3.07E+00	3.58E+00	3.54E+00	NA	NA	NA	
	006	84.8	-9.2	10/24/2007	14:40	5.51E+03	3.13E+02	3.92E+02	2.53E-01	4.08E-01	4.51E-01	5.68E-01	2.90E+00	3.35E+00	4.76E-01	2.75E+00	2.19E+00	NA	NA	NA	
	007	84.8	-9.2	1/16/2008	11:56	1.31E+03	2.81E+02	1.84E+02	6.97E-01	7.67E-01	7.79E-01	2.68E+00	4.05E+00	4.89E+00	1.90E+00	3.80E+00	4.67E+00	NA	NA	NA	
	009	84.8	-9.2	6/6/2008	15:26	5.55E+03	5.80E+02	2.05E+02	1.52E-01	3.17E-01	5.59E-01	-8.07E-01	2.20E+00	3.45E+00	1.91E+00	2.45E+00	4.58E+00	NA	NA	NA	
	010	84.8	-9.2	8/7/2008	11:13	2.30E+03	1.83E+02	1.94E+02	1.07E-01	2.87E-01	5.30E-01	-6.47E-01	1.22E+00	1.94E+00	1.63E-02	1.31E+00	2.18E+00	NA	NA	NA	
	011	84.8	-9.2	8/30/2008	12:08	8.34E+03	7.00E+02	5.52E+02	4.46E-01	4.87E-01	8.10E-01	-5.50E-01	1.86E+00	3.07E+00	NA	NA	NA	NA	NA	NA	
	012	84.8	-9.2	10/30/2008	12:09	3.59E+03	4.52E+02	1.67E+02	4.08E-01	7.33E-01	8.25E-01	-5.63E+00	5.17E+00	4.73E+00	-4.82E+00	6.98E+00	6.56E+00	NA	NA	NA	
	013	84.8	-9.2	11/18/2008	12:00	4.41E+03	2.97E+02	1.61E+02	-2.44E-01	5.37E-01	8.11E-01	2.13E+00	3.79E+00	4.76E+00	2.84E+00	3.82E+00	5.19E+00	NA	NA	NA	
	014	84.8	-9.2	2/6/2009	11:22	7.37E+03	5.54E+02	2.02E+02	3.89E-01	5.58E-01	6.16E-01	1.22E+00	3.50E+00	4.06E+00	1.09E+00	3.57E+00	4.23E+00	NA	NA	NA	
	015	84.8	-9.2	4/14/2009	11:41	1.88E+04	3.49E+02	1.50E+02	5.35E-01	7.01E-01	7.54E-01	-6.49E-01	5.24E+00	5.45E+00	1.11E+00	3.50E+00	4.14E+00	NA	NA	NA	
	016	84.8	-9.2	5/29/2009	12:50	8.65E+03	1.09E+03	3.75E+02	1.84E-01	8.01E-01	9.30E-01	8.20E-01	1.04E+01	6.95E+00	6.97E-01	6.57E+00	7.51E+00	NA	NA	NA	
	017	84.8	-9.2	7/21/2009	12:13	2.56E+03	4.10E+02	2.25E+02	-2.28E-01	5.61E-01	8.38E-01	-2.54E+00	5.04E+00	4.22E+00	2.26E+00	3.71E+00	4.75E+00	NA	NA	NA	
	018	84.8	-9.2	9/1/2009	10:52	3.52E+03	5.00E+02	2.12E+02	4.12E-01	6.15E-01	6.31E-01	-8.48E-01	4.46E+00	4.89E+00	-5.30E-03	6.12E+00	6.86E+00	NA	NA	NA	
	019	84.8	-9.2	9/14/2009	12:05	5.14E+03	3.43E+02	1.55E+02	-4.43E-01	4.92E-01	8.14E-01	-1.68E-01	4.96E+00	5.62E+00	-2.91E-01	5.13E+00	5.72E+00	NA	NA	NA	
MW-32-59	001	58.8	13.3	1/19/2007	9:53	7.67E+03	7.50E+02	5.20E+02	6.30E-01	1.47E+00	1.60E+00	-8.60E-01	1.98E+00	2.30E+00	4.90E-01	2.28E+00	2.60E+00	NA	NA	NA	MW-32-59
	002	58.8	13.3	6/28/2007	14:25	2.40E+04	7.37E+02	1.97E+02	-1.63E-01	5.90E-01	7.97E-01	-1.74E+00	3.51E+00	3.30E+00	-1.42E+00	3.87E+00	3.34E+00	NA	NA	NA	
	003	58.8	13.3	8/13/2007	13:07	1.42E+04	5.00E+02	1.95E+02	-2.71E-01	5.50E-01	7.50E-01	1.40E+00	2.10E+00	2.22E+00	-4.66E-01	3.30E+00	3.65E+00	NA	NA	NA	
	001	58.8	13.3	10/26/2007	12:07	1.11E+04	1.61E+02	1.84E+02	3.22E-01	6.43E-01	7.36E-01	1.94E-01	3.82E+00	3.87E+00	2.45E+00	3.26E+00	4.08E+00	NA	NA	NA	
	002	58.8	13.3	1/18/2008	13:25	1.57E+04	9.11E+02	1.86E+02	4.67E-01	6.96E-01	7.57E-01	9.98E-01	4.25E+00	4.79E+00	1.99E+00	3.81E+00	4.65E+00	NA	NA	NA	
	003	58.8	13.3	5/5/2008	15:33	4.15E+03	2.01E+02	1.87E+02	7.61E-02	5.20E-01	9.70E-01	-7.05E-01	1.89E+00	3.06E+00	1.25E+00	2.21E+00	3.77E+00	NA	NA	NA	
	004	58.8	13.3	6/9/2008	12:10	2.55E+03	4.81E+02	5.06E+02	-3.39E-01	3.64E-01	7.51E-01	-1.22E+00	1.94E+00	2.96E+00	-7.10E-01	2.43E+00	3.91E+00	NA	NA	NA	
	005	58.8	13.3	7/31/2008	13:23	1.54E+03	1.63E+02	1.94E+02	1.72E-01	3.81E-01	6.20E-01	4.66E-01	1.97E+00	3.33E+00	-1.08E+00	2.48E+00	3.26E+00	NA	NA	NA	
	006	58.8	13.3	9/2/2008	13:52	2.44E+03	4.59E+02	5.53E+02	2.19E-01	5.54E-01	9.94E-01	7.77E-01	1.83E+00	3.21E+00	NA	NA	NA	NA	NA	NA	
	007	58.8	13.3	10/24/2008	13:59	4.13E+02	2.00E+02	1.73E+02	1.63E-01	6.06E-01	7.44E-01	-3.50E-01	7.51E+00	7.36E+00	-1.32E+00	6.29E+00	6.66E+00	NA	NA	NA	
	008	58.8	13.3	2/4/2009	15:46	1.78E+04	1.03E+03	1.96E+02	-1.01E-01	5.73E-01	7.59E-01	1.01E-01	3.54E+00	3.41E+00	2.70E+00	3.41E+00	4.34E+00	NA	NA	NA	
	009	58.8	13.3	4/27/2009	15:54	6.43E+04	3.00E+03	4.23E+02	4.22E-01	6.15E-01	6.76E-01	-3.21E+00	4.83E+00	5.22E+00	-5.75E-02	3.50E+00	4.11E+00	NA	NA	NA	
	010	58.8	13.3	6/2/2009	13:59	6.69E+03	9.60E+02	3.77E+02	3.26E-01	4.73E-01	5.25E-01	-1.72E-01	9.62E+00	6.41E+00	-2.66E-01	5.53E+00	6.03E+00	NA	NA	NA	
	011	58.8	13.3	8/3/2009	15:04	8.55E+02	2.07E+02	1.55E+02	1.87E-02	6.37E-01	7.31E-01	1.61E-01	5.47E+00	6.24E+00	5.57E-01	5.47E+00	6.44E+00	NA	NA	NA	
	012	58.8	13.3	8/31/2009	13:24	1.66E+04	5.93E+02	2.14E+02	1.76E-02	3.29E-01	4.26E-01	4.57E-02	4.61E+00	5.05E+00	-2.25E+00	5.37E+00	5.60E+00	NA	NA	NA	
	013	58.8	13.3	9/15/2009	14:55	5.52E+03	3.69E+02	1.52E+02	-4.41E-01	6.93E-01	9.32E-01	1.85E+00	4.70E+00	5.41E+00	-1.15E-01	5.10E+00	5.67E+00	NA	NA	NA	
	001	85.3	85.3	1/19/2007	9:43	1.12E+04	3.40E+02	5.30E+02	3.20E-01	1.47E+00	1.60E+00	1.57E+00	2.82E+00	3.10E+00	-9.00E-01	4.20E+00	4.80E+00	NA	NA	NA	
	002	85.3	85.3	6/28/2007	15:05	5.42E+03	3.77E+02	1.92E+02	-4.17E-01	5.10E-01	6.73E-01	-1.70E-01	2.77E+00	3.03E+00	-3.02E-01	3.19E+00	3.21E+00	NA	NA	NA	
	003	85.3	85.3	8/13/2007	10:40	5.70E+03	4.05E+02	2.01E+02	-2.45E-02	4.47E-01	5.75E-01	3.23E-01	2.01E+00	2.15E+00	5.90E-01	2.90E+00	3.53E+00	NA	NA	NA	
	004	85.3	85.3	10/26/2007	11:12	1.26E+04	4.79E+02	1.75E+02	-1.17E-01	4.27E-01	6.25E-01	8.05E-01	2.97E+00	2.45E+00	-1.05E-02	3.23E+00	3.63E+00	NA	NA	NA	
	005	85.3	85.3	1/18/2008	14:50	1.07E+04	5.90E+02	1.83E+02	3.03E-01	4.38E-01	7.35E-01	3.77E-01	2.61E+00	2.67E+00	5.31E-01	1.77E+00	2.13E+00	NA	NA	NA	
	006	85.3	85.3	5/5/2008	14:10	8.36E+03	2.64E+02	1.81E+02	-6.65E-02	3.89E-01	7.59E-01	1.55E+00	2.16E+00	2.96E+00	-3.66E-01	2.36E+00	3.27E+00	NA	NA	NA	
	007	85.3	85.3	6/9/2008	12:25	1.11E+04	3.21E+02	1.04E+02	-9.56E-02	3.57E-01	7.12E-01	1.39E+00	2.01E+00	2.65E+00	-5.47E-01	2.34E+00	3.34E+00	NA	NA	NA	
	008	85.3	85.3	7/31/2008	14:35	7.48E+03	2.83E+02	1.93E+02	1.16E-01	3.35E-01	6.74E-01	2.14E-01	2.06E+00	2.50E+00	1.07E+00	1.88E+00	3.43E+00	NA	NA	NA	
	009	85.3	85.3	9/2/2008	14:40	8.05E+03	5.90E+02	5.52E+02	1.42E-01	4.15E-01	7.55E-01	-1.37E+00	2.45E+00	2.52E+00	NA	NA	NA	NA	NA	NA	
	010	85.3	85.3	10/24/2008	14:50	8.62E+03	5.66E+02	1.72E+02	1.13E-01	4.56E-01	5.58E-01	1.39E+00	5.78E+00	6.62E+00	3.08E+00	5.39E+00	7.32E+00	NA	NA	NA	
	011	85.3	85.3	2/4/2009	15:49	6.54E+03	5.38E+02	1.96E+02	5.26E-01	7.76E-01	8.50E-01	4.88E-01	2.85E+00	3.31E+00	2.27E+00	3.20E+00	4.15E+00	NA	NA	NA	
	012	85.3	85.3	4/27/2009	15:34	8.87E+03	1.17E+03	4.31E+02	1.21E-01	5.33E-01	6.47E-01	-2.07E+00	5.11E+00	4.07E+00	1.69E+00	4.38E+00	4.90E+00	NA	NA	NA	
	013	85.3	85.3	6/2/2009	15:11	8.07E+03	1.04E+03	3.76E+02	-1.55E-01	6.47E-01	7.50E-01	-1.73E+00	1.30E+01	8.65E+00	8.98E-01	8.75E+00	9.91E+00	NA	NA	NA	
	014	85.3	85.3	8/3/2009	15:20	9.16E+03	5.37E+02	1.57E+02	8.00E-01	7.33E-01	7.42E-01	3.41E+00	4.92E+00	5.95E+00	-1.66E+00	5.78E+00	6.13E+00	NA	NA	NA	
	015	85.3	85.3	8/31/2009	14:11	8.58E+03	4.22E+02	2.14E+02	4.28E-02	7.57E-01	9.24E-01	8.15E-01	5.03E+00	5.65E+00	-4.97E+00	5.84E+00	5.36E+00	NA	NA	NA	
	016	85.3	85.3	9/15/2009	15:06	7.70E+03	4.17E+02	1.57E+02	1.08E-01	6.03E-01	7.16E-01	2.26E+00	4.83E+00	5.66E+00	-4.65E+00	5.54E+00	5.03E+00	NA	NA	NA	
MW-32-131	001	130.8	-53.7	1/19/2007	9:45	1.18E+04	3.40E+02	5.31E+02	-1.03E+00	1.47E+00	1.60E+00	-6.00E-02	2.04E+00	2.31E+00	3.00E-02	2.71E+00	2.40E+00	NA	NA	NA	MW-32-131
	002	130.8	-53.7	6/28/2007	12:45	3.12E+02	1.83E+02	1.97E+02	-1.59E-01	5.13E-01	5.94E-01	-1.46E+00	3.09E+00	2.92E+00	-9.88E-01	3.76E+00	4.38E+00	NA	NA	NA	
	003	130.8	-53.7	8/13/2007	11:15	1.29E+02	1.70E+02	1.87E+02	2.69E-01	7.33E-01	8.31E-01	-8.09E-01	4.86E+00	4.85E+00	-1.19E+00	3.29E+00	3.22E+00	NA	NA	NA	
	004	130.8	-53.7	10/26/2007	10:11	3.74E+02	2.39E+02	2.42E+02	2.47E-01	6.03E-01	7.30E-01	-1.81E-01	3.43E+00	3.82E+00	-2.35E-01	3.92E+00	3.99E+00	NA	NA	NA	
	005	130.8	-53.7	1/18/2008	11:23	5.64E+02	2.07E+02	1.75E+02	5.14E-01	7.79E-01	8.52E-01	8.47E-01	2.19E+00	2.21E+00	-8.40E-02	1.90E+00	2.10E+00	NA	NA	NA	
	006	130.8	53.7	5/5/2008	12:35	1.03E+03	1.36E+02	1.93E+02	2.89E-01	3.98E-01	7.75E-01	1.21E+00	3.23E+00	3.55E+00	3.26E-01	2.27E+00	3.66E+00	NA	NA	NA	
	004	149.3	-72.2	10/26/2007	10:10	2.52E+03	2.94E+02	1.90E+02	2.41E-01	4.89E-01	7.22E-01	1.99E-01	3.10E+00	3.51E+00	1.65E-01	3.56E+00	3.99E+00	NA	NA	NA	
	005	149.3	-72.2	1/18/2008	11:18	1.15E+03	2.69E+02	1.85E+02	3.04E-01	8.25E-01	9.53E-01	2.54E+00	4.29E+00	5.05E+00	-8.74E-01	2.82E+00	2.93E+00	NA	NA	NA	
	006	149.3	-72.2	5/5/2008	10:54	8.53E+02	1.31E+02	1.87E+02	7.39E-01	5.05E-01	7.34E-01	-2.99E+00	2.67E+00	3.71E+00	2.04E+00	2.17E+00	4.17E+00	NA	NA	NA	
	007	149.3	-72.2	7/31/2008	11:10	5.52E+02	1.31E+02	1.94E+02	1.38E-02	3.46E-01	6.30E-01	1.06E+00	1.65E+00	2.87E+00	1.42E+00	1.56E+00	2.81E+00	NA	NA	NA	
	008	149.3	-72.2	10/24/2008	10:28	5.03E+02	2.10E+02	1.72E+02	4.69E-01	6.52E-01	6.99E-01	1.80E+00	6.07E+00	5.22E+00	1.25E+00	4.26E+00	5.82E+00	NA	NA	NA	
	009	149.3	-72.2	2/4/2009	13:50	2.65E+02	1.13E+02	1.72E+02	4.53E-01	6.75E-01	7.34E-01	5.44E-01	2.99E+00	3.38E+00	3.32E-01	2.91E+00	3.28E+00	NA	NA	NA	
	010	149.3	-72.2	4/27/2009	13:31	3.21E+02	1.17E+02	1.87E+02	7.04E-01	8.48E-01	9.20E-01	1.35E+00	4.26E+00	4.84E+00	-4.83E-02	2.34E+00	2.57E+00	NA	NA	NA	
	011	149.3	-72.2	6/2/2009	12:05	2.24E+02	1.53E+02	1.62E+02	-2.86E-01	6.60E-01	7.98E-01	-2.68E+00	1.02E+01	6.76E+00	2.12E+00	7.34E+00	8.40E+00	NA	NA	NA	
	012	149.3	-72.2	8/3/2009	12:43	3.50E+02	1.70E+02	1.57E+02	9.42E-02	6.51E-01	7.30E-01	2.86E+00	5.63E+00	7.75E+00	-9.46E-01	8.14E+00	7.75E+00	NA	NA	NA	
	013	149.3	-72.2	8/31/2009	11:29	4.57E+02	2.06E+02	2.15E+02	-2.81E-01	5.05E-01	6.30E-01	-1.45E+00	5.66E+00	6.05E+00	-1.77E-01	4.84E+00	5.32E+00	NA	NA	NA	
	014	149.3	-72.2	9/15/2009	12:39	1.59E+02	1.46E+02	1.54E+02	-9.07E-02	7.77E-01	9.52E-01	1.03E+00	5.91E+00	6.65E+00	2.31E+00	6.12E+00	7.24E+00	NA	NA	NA	
MW-32-165	001	163.1	-85.9	1/19/2007	9:53	1.05E+04	3.70E+02	5.71E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-32-165
	002	163.1	-85.9	6/28/2007	13:06	3.81E+02	2.03E+02	1.97E+02	-2.82E-01	7.53E-01	9.70E-01	8.74E-01	2.85E+00	2.94E+00	-8.16E-01	2.46E+00	2.60E+00	NA	NA	NA	
	003	163.1	-85.9	8/13/2007	11:35	4.53E+02	2.09E+02	2.06E+02	-6.38E-01	3.81E-01	6.52E-01	-1.42E+00	3.76E+00	3.37E+00	1.63E+00	1.59E+00	2.91E+00	NA	NA	NA	
MW-32-173	001	172.8	-95.7	10/26/2007	9:55	5.89E+03	3.87E+02	1.92E+02	1.86E-02	5.87E-01	7.34E-01	6.92E-01	3.00E+00	3.51E+00	-9.97E-01	2.91E+00	3.02E+00	NA	NA	NA	MW-32-173

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-32-173	002	172.8	-55.7	1/18/2008	11:05	3.40E+03	4.07E+02	1.82E+02	1.13E-01	6.02E-01	7.53E-01	-3.84E-01	2.00E+00	2.18E+00	-6.14E-01	2.39E+00	2.25E+00	NA	NA	NA	MW-32-173
	003	172.8	-55.7	5/5/2008	10:33	1.69E+03	1.52E+02	1.82E+02	1.11E-02	3.53E-01	7.29E-01	1.95E-01	2.13E+00	3.64E+00	5.47E-01	2.24E+00	3.91E+00	NA	NA	NA	
	004	172.8	-55.7	7/31/2008	10:52	1.08E+03	1.43E+02	1.92E+02	6.80E-01	4.52E-01	7.11E-01	-1.71E+00	1.53E+00	2.47E+00	6.06E-01	1.55E+00	2.96E+00	NA	NA	NA	
	005	172.8	-55.7	9/2/2008	11:50	9.72E+02	1.72E+02	2.48E+02	1.85E-01	4.64E-01	8.41E-01	-1.02E+00	2.67E+00	3.88E+00	NA	NA	NA	NA	NA	NA	
	006	172.8	-55.7	10/24/2008	10:25	1.03E+03	2.67E+02	1.74E+02	1.05E-01	3.60E-01	4.36E-01	8.63E-01	3.67E+00	6.61E+00	2.30E+00	6.36E+00	7.74E+00	NA	NA	NA	
	007	172.8	-55.7	2/4/2009	13:40	7.50E+02	1.43E+02	1.17E+02	2.57E-01	4.20E-01	4.74E-01	1.79E+00	3.63E+00	4.41E+00	2.56E+00	3.47E+00	4.49E+00	NA	NA	NA	
	008	172.8	-55.7	4/27/2009	13:32	7.60E+02	4.77E+02	4.31E+02	7.47E-02	4.43E-01	5.40E-01	-3.20E+00	5.12E+00	8.00E+00	1.19E+00	4.77E+00	5.59E+00	NA	NA	NA	
	009	172.8	-55.7	6/2/2009	11:58	1.72E+03	3.19E+02	1.66E+02	1.05E-01	5.78E-01	6.59E-01	1.33E+00	2.20E+00	6.13E+00	1.40E+00	6.31E+00	6.55E+00	NA	NA	NA	
	010	172.8	-55.7	8/3/2009	12:37	4.53E+02	1.77E+02	1.55E+02	4.67E-02	3.89E-01	5.13E-01	3.21E+00	5.31E+00	6.46E+00	7.71E-01	4.92E+00	5.36E+00	NA	NA	NA	
	011	172.8	-55.7	9/31/2009	11:31	5.79E+02	2.09E+02	2.13E+02	4.09E-04	6.09E-01	7.50E-01	1.61E+00	4.96E+00	5.93E+00	2.58E+00	6.52E+00	7.35E+00	NA	NA	NA	
	012	172.8	-55.7	9/15/2009	12:11	4.71E+02	1.61E+02	1.55E+02	-5.97E-03	6.73E-01	8.21E-01	2.46E+00	4.97E+00	5.89E+00	-6.66E+00	7.39E+00	6.57E+00	NA	NA	NA	
MW-32-190	001	190.3	-113.7	1/19/2007	9:55	1.13E+04	3.40E+02	5.20E+02	4.20E-01	1.50E+00	1.70E+00	2.40E-01	1.26E+00	1.46E+00	7.10E-01	1.58E+00	1.70E+00	NA	NA	NA	MW-32-190
	002	190.3	-113.7	6/28/2007	13:07	2.41E+03	2.72E+02	1.83E+02	-5.09E-02	6.12E-01	8.30E-01	1.52E+00	3.07E+00	3.64E+00	-1.29E+00	3.27E+00	3.37E+00	NA	NA	NA	
	003	190.3	-113.7	8/13/2007	11:25	1.72E+03	2.67E+02	2.03E+02	-3.65E-01	8.12E-01	1.04E+00	6.21E-01	2.49E+00	2.93E+00	-1.15E+00	2.38E+00	2.39E+00	NA	NA	NA	
	004	190.3	-113.7	10/26/2007	9:53	9.76E+03	4.80E+02	1.93E+02	-5.01E-01	7.75E-01	9.73E-01	-6.17E-01	3.07E+00	3.27E+00	-1.94E-01	3.18E+00	3.57E+00	NA	NA	NA	
	005	190.3	-113.7	1/18/2008	11:35	8.69E+03	5.32E+02	1.83E+02	4.28E-01	7.73E-01	8.59E-01	6.57E-01	1.71E+00	2.02E+00	5.18E-01	1.55E+00	1.96E+00	NA	NA	NA	
	006	190.3	-113.7	5/5/2008	10:57	6.73E+03	2.41E+02	1.82E+02	-1.68E-01	4.28E-01	8.16E-01	-1.18E+00	2.03E+00	3.24E+00	-2.62E+00	3.16E+00	2.97E+00	NA	NA	NA	
	007	190.3	-113.7	7/31/2008	11:24	4.71E+03	2.35E+02	1.94E+02	3.21E-01	3.35E-01	5.51E-01	-8.54E-01	1.55E+00	2.53E+00	2.22E+00	1.77E+00	3.30E+00	NA	NA	NA	
	008	190.3	-113.7	9/2/2008	11:40	3.81E+03	5.20E+02	5.44E+02	5.92E-01	5.81E-01	9.53E-01	1.39E+00	2.82E+00	4.63E+00	NA	NA	NA	NA	NA	NA	
	009	190.3	-113.7	10/24/2008	10:31	3.35E+03	4.31E+02	1.73E+02	3.30E-03	5.75E-01	7.41E-01	5.89E-01	5.33E+00	5.96E+00	3.85E+00	5.58E+00	7.16E+00	NA	NA	NA	
	010	190.3	-113.7	2/4/2009	13:45	2.69E+03	4.26E+02	1.98E+02	2.44E-01	5.57E-01	6.47E-01	5.60E-02	2.67E+00	2.92E+00	4.71E-01	3.32E+00	5.44E+00	NA	NA	NA	
	011	190.3	-113.7	4/27/2009	13:24	2.54E+03	5.63E+02	4.05E+02	-2.51E-02	5.58E-01	6.30E-01	-6.89E-01	4.01E+00	4.67E+00	5.11E-01	2.30E+00	2.68E+00	NA	NA	NA	
	012	190.3	-113.7	6/2/2009	12:01	1.95E+03	3.76E+02	3.78E+02	8.61E-02	5.09E-01	5.90E-01	3.04E-01	1.02E+01	6.77E+00	1.26E+00	5.70E+00	6.67E+00	NA	NA	NA	
	013	190.3	-113.7	8/3/2009	12:45	2.03E+03	3.76E+02	1.56E+02	1.36E-01	5.64E-01	6.59E-01	9.63E-02	3.23E+00	3.81E+00	-8.39E+00	4.92E+00	4.66E+00	NA	NA	NA	
	014	190.3	-113.7	9/31/2009	11:41	2.14E+03	3.61E+02	2.13E+02	1.65E-01	5.30E-01	6.20E-01	2.61E+00	5.21E+00	7.34E+00	2.09E+00	5.21E+00	7.13E+00	NA	NA	NA	
	015	190.3	113.7	9/15/2009	12:13	1.77E+03	3.23E+02	1.53E+02	3.73E-01	7.22E-01	8.16E-01	1.75E+00	1.01E+00	7.85E+00	4.08E-01	4.59E+00	5.13E+00	NA	NA	NA	
MW-33	001	19.2	-0.4	12/15/2005	3:03	1.42E+05	4.26E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-33
	002	19.2	-0.4	12/19/2005	11:38	1.59E+05	5.97E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	19.2	-0.4	12/29/2005	11:30	2.20E+05	5.60E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004	19.2	-0.4	1/6/2006	12:30	1.69E+05	5.67E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005	19.2	-0.4	1/13/2006	12:10	2.32E+05	5.96E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006	19.2	-0.4	1/20/2006	10:40	2.26E+05	5.73E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	007	19.2	-0.4	1/27/2006	11:10	2.42E+05	7.26E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	008	19.2	-0.4	2/3/2006	12:15	2.50E+05	2.84E+04	6.33E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	009	19.2	-0.4	2/7/2006	16:00	2.14E+05	2.64E+04	6.37E+02	1.36E-01	5.06E-01	6.25E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	010	19.2	-0.4	2/16/2006	13:55	2.61E+05	2.91E+04	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	011	19.2	-0.4	3/3/2006	10:20	2.53E+05	7.59E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	012	19.2	-0.4	4/7/2006	10:20	2.21E+05	5.63E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	013	19.2	-0.4	5/17/2006	12:50	1.35E+05	2.01E+04	1.66E+03	7.79E-01	1.43E+00	1.47E+00	1.17E+01	1.19E+01	1.37E+01	4.62E+00	1.41E+01	1.26E+01	NA	NA	NA	
	014	19.2	-0.4	6/7/2006	10:15	1.41E+05	1.83E+04	1.32E+03	6.74E-01	5.63E-01	6.44E-01	6.93E-01	3.72E+00	9.56E+00	-6.11E+00	8.53E+00	8.02E+00	NA	NA	NA	
	015	19.2	-0.4	7/3/2006	9:50	2.04E+05	3.01E+04	3.05E+03	4.76E-01	1.37E+00	1.57E+00	-6.05E-01	1.17E+01	1.27E+01	-5.24E+00	1.20E+01	1.21E+01	NA	NA	NA	
	016	19.2	-0.4	8/4/2006	9:15	1.64E+05	2.54E+04	1.07E+03	NA	NA	NA	3.53E+00	5.31E+00	7.04E+00	-1.14E+00	7.35E+00	6.60E+00	NA	NA	NA	
	019	19.2	-0.4	8/30/2006	13:00	1.15E+05	1.77E+04	7.35E+03	NA	NA	NA	6.99E-01	3.47E+00	8.00E+00	3.71E+00	7.21E+00	9.60E+00	NA	NA	NA	
	020	19.2	-0.4	6/15/2007	15:48	9.06E+04	3.26E+03	3.61E+02	-2.83E-01	2.86E-01	4.35E-01	-2.78E-01	3.82E+00	3.76E+00	-1.64E+00	3.44E+00	3.39E+00	-8.12E-01	1.16E+01	1.37E+01	
	021	19.2	-0.4	8/3/2007	10:20	2.30E+04	7.03E+02	2.04E+02	5.80E-01	8.49E-01	9.33E-01	8.38E-01	2.37E+00	2.83E+00	2.45E+00	2.13E+00	2.46E+00	NA	NA	NA	
	022	19.2	-0.4	4/28/2008	15:00	5.65E+04	1.16E+03	2.58E+02	1.69E-01	2.97E-01	5.22E-01	1.08E-01	1.83E+00	3.12E+00	-4.51E-02	2.12E+00	3.49E+00	NA	NA	NA	
	023	19.2	-0.4	9/4/2008	14:41	6.60E+04	1.82E+03	5.47E+02	1.33E-01	4.05E-01	7.55E-01	5.46E-01	1.61E+00	2.83E+00	NA	NA	NA	NA	NA	NA	
	024	19.2	-0.4	4/29/2009	15:12	3.44E+04	1.30E+03	1.72E+02	2.74E-01	5.39E-01	6.29E-01	-1.06E+00	3.93E+00	5.95E+00	1.83E+00	5.72E+00	6.77E+00	NA	NA	NA	
MW-34	001	18.9	-0.4	12/13/2005	13:53	6.39E+04	1.92E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-34
	002	18.9	-0.4	12/19/2005	10:35	1.21E+05	3.63E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	18.9	-0.4	12/29/2005	10:50	1.47E+05	4.41E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004	18.9	-0.4	1/6/2006	11:35	1.59E+05	4.77E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005	18.9	-0.4	1/13/2006	11:40	1.31E+05	3.93E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006	18.9	-0.4	1/20/2006	10:00	2.11E+05	5.33E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	007	18.9	-0.4	1/27/2006	10:50	2.12E+05	5.56E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	008	18.9	-0.4	2/3/2006	12:20	2.64E+05	2.69E+04	6.33E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	009	18.9	-0.4	2/7/2006	15:15	1.74E+05	2.33E+04	6.37E+02	9.22E-02	3.78E-01	4.57E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	010	18.9	-0.4	2/16/2006	13:55	1.99E+05	2.50E+04	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	011	18.9	-0.4	3/3/2006	9:35	2.30E+05	5.90E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	012	18.9	-0.4	4/7/2006	10:05	2.76E+05	3.23E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	013	18.9	-0.4	5/17/2006	13:15	3.61E+04	3.52E+03	8.35E+02	2.50E-02	6.63E-01	9.24E-01	7.84E+00	1.39E+01	1.55E+01	2.72E+00	1.31E+01	1.44E+01	NA	NA	NA	
	014	18.9	-0.4	6/7/2006	10:20	1.05E+04	3.52E+02	3.41E+02	3.71E-01	6.49E-01	7.79E-01	1.93E+00	7.85E+00	8.96E+00	5.84E+00	7.34E+00	9.37E+00	NA	NA	NA	
	015	18.9	-0.4	7/6/2006	10:50	4.07E+04	3.51E+03	1.57E+03	2.18E-01	8.97E-01	1.16E+00	-1.73E-01	4.87E+00	5.24E+00	-2.54E-01	5.54E+00	6.78E+00	NA	NA	NA	
	016	18.9	-0.4	8/24/2006	12:18	6.69E+04	1.03E+04	3.35E+03	NA	NA	NA	1.62E+00	5.81E+00	6.76E+00	-1.60E+00	5.39E+00	5.85E+00	NA	NA	NA	
	017	18.9	-0.4	9/21/2006	9:45	1.61E+04	2.73E+03	5.86E+02	0.00E+00	1.12E+00	1.31E+00	6.09E-02	1.69E+00	1.85E+00	-2.10E-01	1.55E+00	1.79E+00	NA	NA	NA	
	018	18.9	-0.4	8/3/2007	10:21	2.22E+04	7.44E+02	2.13E+02	3.94E-02	7.08E-01	9.34E-01	-1.55E+00	4.53E+00	4.44E+00	2.12E+00	3.40E+00	4.01E+00	NA	NA	NA	
MW-35	001	19	-0.4	12/13/2005	13:50	4.23E+04	3.13E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-35
	002	19	-0.4	12/19/2005	10:17	7.60E+04	2.23E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	19	-0.4	12/29/2005	10:00	8.05E+04	2.42E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004	19	-0.4	1/6/2006	11:10	9.54E+04	2.86E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005	19	-0.4	1/13/2006	10:50	9.78E+04	2.93E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006	19	-0.4	1/20/2006	9:33	1.04E+05	3.12E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	007	19	-0.4	1/27/2006	11:00	3.87E+04	1.16E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	008	19	-0.4	2/3/2006	12:20	5.14E+04	1.29E+04	6.33E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	009	19	-0.4	2/7/2006	14:40	8.44E+04	1.66E+04	6.37E+02	1.62E-01	4.32E-01	5.28E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE LED	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-35	001	19	-0.4	2/16/2005	13:30	9.04E+04	1.72E+04	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-35
	001	19	-0.4	3/3/2006	9:05	1.19E+05	3.57E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	002	19	-0.4	4/7/2006	9:55	5.62E+04	1.69E+03	1.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	19	-0.4	5/11/2005	13:57	4.10E+04	5.15E+03	8.72E+02	4.70E-01	7.53E-01	7.83E-01	6.46E+00	2.07E+01	1.64E+01	3.04E+00	1.57E+01	1.53E+01	NA	NA	NA	
	004	19	-0.4	6/26/2005	10:40	1.74E+04	1.37E+03	4.25E+02	-2.30E-01	6.66E-01	8.59E-01	-1.14E+00	1.01E+01	1.05E+01	-2.43E+00	8.92E+00	9.36E+00	NA	NA	NA	
	005	19	-0.4	9/21/2005	9:33	4.23E+04	7.19E+03	9.12E+02	0.26E-01	1.30E+00	1.41E+00	-3.15E-01	1.96E+00	1.82E+00	2.44E-01	1.49E+00	1.69E+00	NA	NA	NA	
	006	19	-0.4	6/15/2007	13:50	2.03E+03	5.07E+02	3.04E+02	2.20E-01	4.34E-01	4.91E-01	-4.66E+00	3.02E+00	2.81E+00	-1.27E+00	2.50E+00	2.03E+00	6.10E+00	1.92E+01	2.20E+01	
	007	19	-0.4	8/3/2007	10:22	5.55E+03	5.52E+02	2.70E+02	5.45E-02	5.76E-01	6.38E-01	9.20E-01	2.71E+00	2.82E+00	5.74E-01	2.88E+00	3.33E+00	NA	NA	NA	
	008	19	-0.4	1/28/2008	13:38	1.04E+03	1.77E+02	2.12E+02	5.34E-01	2.96E-01	5.32E-01	2.93E-02	2.03E+00	1.34E+00	5.27E-02	2.36E+00	3.87E+00	NA	NA	NA	
	009	19	-0.4	4/30/2009	11:17	1.46E+03	3.03E+02	1.74E+02	-2.72E-01	5.13E-01	6.38E-01	-1.08E+00	2.27E+00	2.15E+00	-1.87E+00	5.79E+00	6.00E+00	NA	NA	NA	
MW-36-04	001	16.1	+4.3	2/7/2006	17:00	NA	NA	NA	1.27E+00	5.48E-01	5.53E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-36-04
	002	16.1	+4.3	2/27/2005	9:45	3.04E+04	2.93E+03	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	16.1	+4.3	3/23/2005	16:00	3.42E+04	3.81E+03	1.86E+03	5.99E-01	6.42E-01	6.42E-01	-3.86E+00	1.01E+01	1.05E+01	5.02E+00	9.33E+00	1.22E+01	6.41E+01	1.59E+01	1.53E+01	
	004	16.1	+4.3	4/5/2006	10:30	NA	NA	NA	1.56E+00	4.86E-01	4.35E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005	16.1	+4.3	6/5/2006	12:20	2.02E+02	1.59E+02	1.51E+02	3.70E-01	7.66E-01	9.31E-01	3.59E+00	1.03E+01	1.21E+01	6.90E-02	1.22E+01	1.12E+01	NA	NA	NA	
	006	16.1	+4.3	8/28/2005	10:30	2.45E+02	1.80E+02	1.71E+02	NA	NA	NA	-1.04E+00	3.27E+00	3.32E+00	1.66E+00	3.26E+00	4.19E+00	NA	NA	NA	
	007	16.1	+4.3	6/27/2007	10:40	1.54E+02	1.76E+02	1.93E+02	5.90E-01	7.92E-01	8.46E-01	3.31E-01	2.81E+00	2.17E+00	4.00E-01	3.03E+00	3.45E+00	NA	NA	NA	
	008	16.1	+4.3	8/8/2007	13:45	1.63E+02	1.85E+02	2.04E+02	-5.35E-01	6.81E-01	9.31E-01	1.73E-01	3.40E+00	2.77E+00	3.56E+00	3.40E+00	4.17E+00	-7.46E+00	2.10E+01	2.54E+01	
	009	16.1	+4.3	10/18/2007	10:06	2.66E+02	1.91E+02	2.01E+02	8.56E-02	7.60E-01	9.26E-01	7.20E-01	2.91E+00	3.37E+00	3.11E-01	3.01E+00	3.47E+00	NA	NA	NA	
	010	16.1	+4.3	1/23/2008	14:18	2.16E+03	2.36E+02	1.77E+02	1.03E-01	3.12E-01	3.76E-01	2.92E-02	2.39E+00	2.67E+00	-4.84E-01	2.37E+00	2.57E+00	NA	NA	NA	
	011	16.1	+4.3	7/24/2008	13:27	1.02E+03	1.22E+02	1.62E+02	2.58E-01	3.75E-01	6.04E-01	5.97E-01	2.09E+00	2.61E+00	-5.42E-01	2.31E+00	3.85E+00	NA	NA	NA	
	012	16.1	+4.3	11/10/2008	15:33	2.01E+02	1.50E+02	1.61E+02	5.52E-01	7.53E-01	8.94E-01	0.00E+00	5.81E+00	6.46E+00	2.72E+00	3.84E+00	5.41E+00	NA	NA	NA	
	013	16.1	+4.3	1/22/2009	12:48	2.57E+02	1.16E+02	1.06E+02	-6.26E-01	7.37E-01	9.48E-01	5.41E-01	2.88E+00	3.34E+00	3.15E-01	3.33E+00	3.82E+00	NA	NA	NA	
	014	16.1	+4.3	5/1/2009	13:55	4.58E+02	1.93E+02	1.62E+02	-1.28E-01	7.22E-01	8.38E-01	1.20E+00	7.73E+00	5.15E+00	-8.11E-01	4.19E+00	4.36E+00	NA	NA	NA	
	015	16.1	+4.3	8/4/2009	16:09	2.52E+03	3.20E+02	1.55E+02	4.60E-01	6.62E-01	7.29E-01	-2.97E-01	5.12E+00	4.90E+00	7.76E-01	5.57E+00	6.40E+00	NA	NA	NA	
MW-36-41	001	37	-25.2	2/10/2005	11:10	4.75E+04	1.24E+04	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-36-41
	002	37	-25.2	2/27/2005	13:45	4.58E+04	1.22E+04	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	37	-25.2	3/24/2005	12:45	5.52E+04	4.65E+03	1.86E+03	3.48E+00	5.46E-01	4.16E-01	-5.91E+00	1.39E+01	1.45E+01	2.97E+00	1.53E+01	1.74E+01	4.87E+01	1.65E+01	1.65E+01	
	004	37	-25.2	4/5/2006	12:55	NA	NA	NA	3.53E+00	6.24E-01	5.32E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005	37	-25.2	6/5/2006	11:30	2.05E+04	3.17E+03	6.01E+02	2.30E+00	6.59E-01	6.10E-01	-3.37E+00	1.27E+01	1.33E+01	6.21E-02	1.03E+01	1.13E+01	NA	NA	NA	
	006	37	-25.2	8/28/2005	10:10	2.01E+04	3.09E+03	6.45E+02	NA	NA	NA	1.96E+00	4.13E+00	5.22E+00	-2.78E-01	3.56E+00	3.78E+00	NA	NA	NA	
	007	37	-25.2	6/27/2007	12:30	6.11E+03	3.50E+02	1.74E+02	2.18E+00	1.17E+00	9.35E-01	4.30E-01	4.61E+00	1.74E+00	1.36E+00	2.91E+00	3.67E+00	NA	NA	NA	
	008	37	-25.2	5/1/2009	14:40	1.13E+04	7.20E+02	1.64E+02	4.03E+00	1.14E+00	7.31E-01	-2.59E-01	5.14E+00	4.05E+00	1.04E-01	3.03E+00	3.26E+00	NA	NA	NA	
	009	37	-25.2	8/4/2009	14:29	1.01E+04	5.64E+02	1.57E+02	7.12E+00	1.34E+00	7.74E-01	3.04E+00	5.52E+00	7.88E+00	7.15E+00	7.15E+00	9.63E+00	NA	NA	NA	
MW-36-52	001	49.7	-37.9	2/10/2005	10:30	2.24E+04	3.55E+03	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-36-52
	002	49.7	-37.9	2/27/2005	12:05	2.57E+04	9.14E+03	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	49.7	-37.9	3/24/2005	16:00	2.68E+04	3.47E+03	1.87E+03	4.11E+00	5.66E-01	5.14E-01	4.47E+00	9.06E+00	1.04E+01	-2.47E+00	9.59E+00	1.03E+01	1.18E+01	1.44E+01	1.54E+01	
	004	49.7	-37.9	4/5/2006	14:30	NA	NA	NA	5.01E+00	7.23E-01	6.26E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005	49.7	-37.9	6/5/2006	11:30	2.40E+04	3.68E+03	6.46E+02	4.42E+00	8.33E-01	5.93E-01	3.49E+00	1.05E+01	1.21E+01	4.80E-01	1.04E+01	1.15E+01	NA	NA	NA	
	006	49.7	-37.9	8/28/2005	10:00	1.41E+04	2.19E+03	5.31E+02	NA	NA	NA	4.06E-01	5.52E+00	5.36E+00	-2.69E-01	5.23E+00	5.69E+00	NA	NA	NA	
	007	49.7	-37.9	6/27/2007	11:45	1.01E+04	4.09E+02	1.95E+02	2.62E+00	1.09E+00	3.38E-01	-3.82E-01	2.77E+00	2.99E+00	5.25E-01	2.51E+00	3.14E+00	NA	NA	NA	
	008	49.7	-37.9	8/8/2007	14:15	1.25E+04	1.24E+03	4.66E+02	2.26E+00	1.00E+00	2.32E-01	1.30E+00	2.97E+00	3.51E+00	-8.62E-01	3.31E+00	3.55E+00	4.27E+00	2.14E+01	2.47E+01	
	009	49.7	-37.9	1/23/2008	14:13	1.13E+04	1.47E+02	1.71E+02	4.85E+00	9.69E-01	4.34E-01	2.89E-01	3.01E+00	2.25E+00	4.08E-01	1.86E+00	2.20E+00	NA	NA	NA	
	010	49.7	-37.9	7/24/2008	16:00	1.26E+04	7.66E+02	3.74E+02	5.67E+00	7.42E-01	4.73E-01	4.79E-01	2.24E+00	3.65E+00	2.77E-02	2.11E+00	3.53E+00	NA	NA	NA	
	011	49.7	-37.9	11/10/2008	16:53	1.10E+04	4.40E+02	1.67E+02	8.27E+00	1.24E+00	3.89E-01	-3.85E-01	3.86E+00	4.21E+00	1.86E+00	4.57E+00	5.65E+00	NA	NA	NA	
	012	49.7	-37.9	1/22/2009	12:59	6.79E+03	5.03E+02	2.06E+02	3.37E+00	8.99E-01	6.37E-01	-6.07E-01	2.96E+00	3.24E+00	1.65E+00	3.24E+00	4.05E+00	NA	NA	NA	
	013	49.7	-37.9	5/1/2009	15:07	6.06E+03	5.33E+02	1.63E+02	2.40E+00	7.82E-01	5.20E-01	2.41E+00	7.13E+00	4.75E+00	1.70E+00	4.26E+00	5.17E+00	NA	NA	NA	
	014	49.7	-37.9	8/4/2009	12:02	8.61E+03	5.30E+02	1.62E+02	4.70E+00	1.05E+00	5.90E-01	1.90E-01	7.86E+00	6.96E+00	-1.37E+00	7.25E+00	7.05E+00	NA	NA	NA	
MW-37-22	001	17	-2	2/24/2005	9:50	1.07E+04	5.92E+03	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-37-22
	002	17	-2	2/28/2005	10:20	1.28E+04	2.03E+03	1.31E+03	2.37E+00	8.91E-01	8.44E-01	2.41E+00	1.92E+01	1.95E+01	3.60E+00	1.58E+01	1.77E+01	4.24E+01	1.48E+01	1.47E+01	
	002	17	-2	2/28/2005	10:20	NA	NA	NA	2.40E+00	9.10E-01	9.16E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	17	-2	3/10/2005	10:35	2.32E+04	2.57E+03	1.28E+03	4.70E+00	9.84E-01	7.37E-01	4.61E+00	1.46E+01	1.63E+01	5.65E+00	1.39E+01	1.57E+01	2.08E+01	1.27E+01	1.33E+01	
	004	17	-2	3/27/2005	10:35	3.49E+04	3.73E+03	1.81E+03	4.05E+00	8.76E-01	6.97E-01	9.75E-01	4.63E+00	5.21E+00	7.46E-01	4.48E+00	4.97E+00	5.43E+01	1.53E+01	1.52E+01	
	005	17	-2	6/27/2005	10:25	1.05E+04	3.53E+02	3.40E+02	9.57E+00	1.20E+00	7.37E-01	3.20E+00	5.92E+00	8.00E+00	-8.05E-01	6.94E+00	7.43E+00	NA	NA	NA	
	006	17	-2	9/29/2005	9:53	7.51E+03	1.22E+03	5.76E+02	1.42E+01	1.80E+00	9.71E-01	-3.84E-02	5.51E+00	5.45E+00	-1.05E+00	7.58E+00	7.69E+00	NA	NA	NA	
	007	17	-2	6/27/2007	10:50	4.05E+03	5.35E+02	1.94E+02	1.49E+01	2.13E+00	8.72E-01	-2.26E+00	4.88E+00	5.51E+00	-1.12E+00	5.24E+00	5.34E+00	NA	NA	NA	
	008	17	-2	8/7/2007	10:55	2.79E+03	2.69E+02	1.85E+02	1.83E+01	2.07E+00	8.37E-01	2.74E+00	3.95E+00	4.22E+00	4.23E-01	3.77E+00	3.34E+00	NA	NA	NA	
	009	17	-2	10/15/2007	14:30	2.20E+03	3.22E+02	1.66E+02	2.29E+01	2.28E+00	4.57E-01	1.33E+00	3.23E+00	3.78E+00	-1.42E+00	3.44E+00	3.44E+00	NA	NA	NA	
	010	17	-2	1/23/2008	10:42	6.22E+03	3.54E+02	1.71E+02	0.73E+00	1.27E+00	4.43E-01	-2.09E+00	2.90E+00	2.90E+00	2.34E-01	3.30E+00	3.49E+00	NA	NA	NA	
	011	17	-2	7/24/2008	11:20	4.33E+03	3.23E+02	1.95E+02	1.32E+01	1.25E+00	7.14E-01	4.52E-01	3.13E+00	3.66E+00	2.97E+00	2.57E+00	4.83E+00	NA	NA	NA	
	012	17	-2	11/10/2008	12:50	2.68E+03	3.92E+02	1.74E+02	1.80E+01	1.88E+00	4.36E-01	2.61E+00	1.96E+00	5.96E+00	2.85E-01	4.53E+00	4.88E+00	NA	NA	NA	
	013	17	-2	1/21/2009	14:27	5.27E+03	5.36E+02	2.05E+02	8.81E+00	1.33E+00	6.79E-01	-3.12E-01	3.02E+00	3.27E+00	-2.03E+00	3.09E+00	3.82E+00	NA	NA	NA	
	014	17	-2	5/1/2009	12:16	3.65E+03	7.97E+02	2.77E+02	9.37E+00	1.37E+00	4.31E-01	1.09E+00	7.64E+00	7.09E+00	-8.06E-01	5.43E+00	5.74E+00	NA	NA	NA	
	015	17	-2	7/23/2009	14:40	4.70E+03	4.97E+02	2.27E+02	1.21E+01	1.56E+00	4.27E-01	4.22E-02	3.86E+00	4.35E+00	-1.57E+00	3.54E+00	3.56E+00	NA	NA	NA	
MW-37-32	002	29	-14	2/28/2005	12:00	2.66E+04	3.73E+03	1.32E+03	1.78E+01	1.49E+00	2.22E+00	1.27E+01	1.93E+01	2.17E+01	1.50E+01	1.90E+01	2.20E+01	3.41E+01	1.46E+01	1.48E+01	MW-37-32
	002	29	-14	2/28/2005	12:00	NA	NA	NA	1.82E+01	1.72E+00	2.23E+00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	29	-14	3/10/2005	12:50	2.63E+04	2.79E+03	1.28E+03	1.52E+01	1.39E+00	1.90E+00	1.43E+01	1.59E+01	1.76E+01	1.51E+00	1.51E+01	1.65E+01	1.13E+01	1.26E+01	1.34E+01	
	004	29	-14	3/27/2005	11:10	1.39E+04	2.61E+03	1.72E+03	1.95E+01	1.59E+00	2.44E+00	1.10E+00	4.72E+00	5.25E+00	-8.50E-01	4.41E+00	4.80E+00	6.09E+00	1.40E+01	1.51E+01	
	005	29	-14	6/27/2005	9:15	7.52E+03	5.63E+02	2.99E+02	2.98E+01	2.64E+00	3.72E+00	-2.37E-01	5.24E+00	6.07E+00	-2.02E-01	4.75E+00	5.78E+00	NA	NA	NA	
	006	29	-14	9/29/2005	10:15	1.15E+04	1.83E+03	4.64E+02	1.53E+01	1.80E+00	1.91E+00	-3.21E+00	3.93E+00	8.67E+00	2.51E+00	8.73E+00	1.06E+01	NA	NA	NA	
	001	29	-14	2/24/2007	10:55	3.01E+04	2.93E+03	6.35E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	007	29	-14	6/27/2007	12:20	3.13E+03	3.05E+02	1.93E+02	1.85E+01	2.37E+00	2.31E+00	-1.49E+00	3.86E+00	3.38E+00	1.63E+00	3.38E+00	4.14E+00	NA	NA	NA	
	008	29	-14	8/7/2007	10:26	3.81E+03	2.97E+02	1.81E+02	1.89E+01	2.02E+00	2.36E+00	1.99E+00	3.18E+00	2.85E+00	1.88E+00	3.19E+00	4.01E+00	NA	NA	NA	
	009	29	-14	10/15/2007	14:36	2.49E+03	2.30E+02	1.69E+02	2.13E+01	2.19E+00	2.66E+00	8.79E-01	4.61E+00	4.81E+00	2.53E+00	3.75E+00	4.70E+00	NA	NA	NA	
	010	29	-14	1/23/2008	11:03	6.76E+03	3.57E+02	1.70E+02	1.52E+01	1.59E+00	3.35E-01	1.09E+00	2.70E+00	3.10E+00	-5.32E-02	2.72E+00	2.55E+00	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-37-32	01	29	-14	7/24/2008	12 28	5 16E+03	2 43E+02	1 95E+02	2 06E+01	1 51E+00	8 53E-01	-4 08E-01	1 58E+00	2 18E+00	-1 46E-01	2 34E+00	2 58E+00	NA	NA	NA	MW-37-32
	02	29	-14	11/10/2008	12 20	2 59E+03	4 01E+02	1 71E+02	1 86E+01	1 95E+00	3 99E-01	1 71E+00	5 33E+00	6 24E+00	4 09E-01	5 37E+00	6 14E+00	NA	NA	NA	
	03	29	-14	1/21/2009	14 50	3 76E+03	4 61E+02	2 04E+02	1 11E+01	1 49E+00	6 27E-01	1 59E+00	2 84E+00	3 48E+00	-1 12E-01	3 52E+00	3 49E+00	NA	NA	NA	
	04	29	-14	5/1/2009	12 13	4 83E+03	3 66E+02	2 12E+02	1 72E+01	1 80E+00	6 54E-01	-2 55E+00	1 43E+00	2 92E+00	1 24E-01	3 56E+00	4 12E+00	NA	NA	NA	
	05	29	-14	7/23/2009	15 07	5 48E+03	3 23E+02	2 22E+02	2 38E+01	2 17E+00	6 75E-01	-6 60E-01	5 33E+00	3 66E+00	-1 22E+00	3 10E+00	3 12E+00	NA	NA	NA	
MW-37-40	001	39 2	-24 2	2/24/2005	11 55	1 68E+04	7 41E+03	6 39E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-37-40
	002	39 2	-24 2	2/28/2005	11 40	1 47E+04	2 13E+03	1 32E+03	3 06E+00	1 23E+00	1 19E+00	1 79E+01	1 71E+01	1 95E+01	1 53E+00	1 54E+01	1 81E+01	5 65E+01	1 65E+01	1 61E+01	
	002	39 2	24 2	2/28/2005	11 40	NA	NA	NA	4 91E+00	1 23E+00	1 08E+00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	39 2	24 2	3/10/2005	10 25	1 70E+04	2 30E+03	1 26E+03	1 35E+01	1 32E+00	7 38E-01	5 51E+00	1 45E+01	1 67E+01	1 99E+00	1 47E+01	1 62E+01	1 21E+01	1 35E+01	1 44E+01	
	004	39 2	-24 2	3/27/2005	11 55	1 56E+04	2 82E+03	1 82E+03	1 11E+01	1 12E+00	5 30E-01	3 34E+00	5 14E+00	5 43E+00	4 03E+00	4 71E+00	5 39E+00	6 37E+00	1 35E+01	1 47E+01	
	006	39 2	-24 2	6/27/2005	10 15	1 47E+04	1 11E+03	3 86E+02	2 44E+01	1 71E+00	7 37E-01	8 69E+00	7 63E+00	9 75E+00	-4 36E+00	6 70E+00	6 60E+00	NA	NA	NA	
	007	39 2	-24 2	6/27/2007	11 00	6 35E+03	3 99E+02	1 93E+02	4 69E+00	1 14E+00	8 47E-01	5 92E-01	3 36E+00	3 91E+00	-1 07E+00	3 15E+00	3 32E+00	NA	NA	NA	
	008	39 2	-24 2	8/7/2007	13 45	5 65E+03	3 50E+02	1 88E+02	9 76E+00	1 51E+00	6 27E-01	1 10E+00	3 12E+00	3 71E+00	-2 46E-01	3 36E+00	3 70E+00	NA	NA	NA	
	009	39 2	-24 2	10/15/2007	15 00	5 69E+03	3 03E+02	1 66E+02	5 98E+00	1 28E+00	7 48E-01	7 63E-01	2 91E+00	3 36E+00	5 99E-01	2 82E+00	3 32E+00	NA	NA	NA	
	010	39 2	-24 2	2/1/2008	17 20	6 73E+03	3 17E+02	1 33E+02	5 48E-01	8 54E-01	8 45E-01	3 09E-01	2 63E+00	2 95E+00	-3 70E-01	2 75E+00	2 94E+00	4 35E+00	1 46E+01	1 76E+01	
	011	39 2	-24 2	7/24/2008	13 12	5 24E+03	2 43E+02	1 91E+02	1 31E+00	4 41E-01	5 07E-01	-1 10E+00	1 52E+00	2 46E+00	-1 35E+00	2 11E+00	2 70E+00	NA	NA	NA	
	012	39 2	-24 2	11/10/2008	16 17	5 49E+03	5 45E+02	1 76E+02	1 13E+00	5 31E-01	3 33E-01	3 61E-01	5 03E+00	6 83E+00	5 04E+00	7 42E+00	9 22E+00	NA	NA	NA	
	013	39 2	-24 2	1/22/2009	13 05	4 51E+03	5 13E+02	2 00E+02	3 47E+00	8 85E-01	5 59E-01	-2 64E+00	3 78E+00	3 27E+00	2 67E+00	3 14E+00	4 08E+00	NA	NA	NA	
	014	39 2	-24 2	5/1/2009	14 15	4 38E+03	3 33E+02	1 73E+02	1 11E+00	5 15E-01	3 77E-01	-2 89E-01	7 70E+00	5 13E+00	2 74E+00	5 21E+00	6 44E+00	NA	NA	NA	
	015	39 2	-24 2	7/23/2009	14 16	4 22E+03	4 74E+02	2 26E+02	1 19E+01	1 39E+00	3 48E-01	-1 35E+01	3 99E+00	4 56E+00	-3 89E-01	3 12E+00	3 38E+00	NA	NA	NA	
MW-51-51	001	53 2	-38 2	2/24/2005	10 50	1 60E+04	7 22E+03	6 35E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-51-51
	002	53 2	-38 2	2/28/2005	13 35	1 33E+04	2 06E+00	1 32E+03	2 22E+01	1 75E+00	1 05E+00	1 81E+00	2 14E+01	2 44E+01	5 22E+00	1 82E+01	2 .4E+0.	2 31E+01	1 50E+01	1 54E+01	
	002	53 2	-38 2	2/28/2005	13 35	NA	NA	NA	2 27E+01	2 00E+00	1 02E+00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	53 2	-38 2	3/10/2005	11 45	1 51E+04	2 40E+03	1 25E+03	2 29E+01	1 74E+00	7 58E-01	1 46E+00	1 76E+01	1 72E+01	7 74E+00	1 53E+01	1 73E+01	1 04E+01	1 33E+01	1 43E+01	
	004	53 2	-38 2	3/27/2005	13 55	1 59E+04	2 04E+03	1 01E+03	1 65E+01	1 30E+00	6 50E-01	2 52E+00	5 25E+00	5 00E+00	3 04E+00	4 36E+00	5 53E+00	3 71E+00	1 37E+01	1 46E+01	
	005	53 2	38 2	6/27/2005	9 35	1 48E+04	3 42E+03	6 83E+02	2 73E+01	1 89E+00	8 18E-01	NA	NA	NA	2 04E+00	5 77E+00	6 52E+00	NA	NA	NA	
	006	53 2	-38 2	9/29/2005	10 40	1 05E+04	1 74E+03	4 52E+02	1 81E+01	1 98E+00	7 37E-01	-3 39E+00	3 04E+00	3 81E+00	2 60E+00	8 86E+00	1 07E+0.	NA	NA	NA	
	007	53 2	-38 2	6/27/2007	12 20	5 59E+03	3 89E+02	1 97E+02	2 47E+01	3 03E+00	8 34E-01	2 45E+00	3 51E+00	4 33E+00	-9 58E-02	4 57E+00	4 84E+00	NA	NA	NA	
	008	53 2	-38 2	8/7/2007	12 55	6 68E+03	3 63E+02	1 86E+02	2 33E+01	2 15E+00	5 31E-01	-1 35E+00	3 27E+00	3 42E+00	-3 64E-02	3 86E+00	4 33E+00	NA	NA	NA	
	009	53 2	-38 2	10/15/2007	15 00	4 88E+03	2 85E+02	1 66E+02	2 78E+01	2 49E+00	5 53E-01	3 42E-01	2 67E+00	2 72E+00	1 20E-01	2 40E+00	2 77E+00	NA	NA	NA	
	010	53 2	-38 2	2/1/2008	16 31	6 63E+03	3 14E+02	1 33E+02	2 89E+01	3 20E+00	9 52E-01	-9 71E-01	3 72E+00	3 66E+00	-2 93E-01	3 12E+00	3 45E+00	8 47E-01	1 46E+01	1 71E+01	
	011	53 2	-38 2	7/24/2008	13 20	5 33E+03	2 47E+02	1 94E+02	2 12E+01	1 46E+00	5 27E-01	-7 71E-01	1 83E+00	3 07E+00	-1 17E+00	2 10E+00	3 24E+00	NA	NA	NA	
	012	53 2	-38 2	11/10/2008	11 04	4 27E+03	4 77E+02	1 71E+02	2 40E+01	2 29E+00	6 36E-01	-1 57E-01	5 03E+00	6 80E+00	5 78E-01	7 18E+00	8 14E+00	NA	NA	NA	
	013	53 2	-38 2	1/21/2009	14 22	5 04E+03	5 21E+02	2 02E+02	1 99E+01	1 97E+00	6 58E-01	3 77E-02	3 44E+00	3 80E+00	1 05E+00	3 71E+00	4 35E+00	NA	NA	NA	
	014	53 2	-38 2	5/1/2009	12 39	5 54E+03	5 24E+02	1 61E+02	2 49E+01	2 15E+00	5 59E-01	-2 83E-02	7 56E+00	5 04E+00	5 79E-01	4 39E+00	5 60E+00	NA	NA	NA	
	015	53 2	-38 2	7/23/2009	15 12	4 05E+03	4 61E+02	2 22E+02	3 17E+01	2 46E+00	6 47E-01	9 63E-01	3 07E+00	3 34E-01	3 34E-01	3 17E+00	3 55E+00	NA	NA	NA	
MW-38	002	25 4	-11 1	12/8/2005	10 30	9 55E+02	4 38E+02	4 54E+02	-4 38E+00	9 29E+00	1 25E+0.	2 53E+00	3 80E+00	6 57E+00	2 99E+00	8 98E+00	7 06E+00	NA	NA	NA	MW-38
	003	25 4	-11 1	12/8/2005	11 20	2 20E+02	4 29E+02	4 71E+02	NA	NA	NA	2 94E+00	5 31E+00	6 35E+00	2 81E+00	8 43E+00	6 71E+00	NA	NA	NA	
	004	25 4	-11 1	1/10/2005	13 50	1 01E+03	4 59E+02	4 96E+02	NA	NA	NA	3 71E+00	1 11E+01	6 02E+00	3 55E+00	1 06E+01	8 02E+00	NA	NA	NA	
	005	25 4	-11 1	1/19/2005	13 15	7 28E+02	4 29E+02	4 61E+02	NA	NA	NA	3 13E+00	9 33E+00	5 14E+00	3 71E+00	1 11E+01	8 77E+00	NA	NA	NA	
	006	25 4	-11 1	1/25/2005	12 15	1 44E+03	4 59E+02	4 61E+02	NA	NA	NA	3 07E+00	1 10E+01	6 21E+00	4 10E+00	1 25E+01	9 71E+00	NA	NA	NA	
	007	25 4	-11 1	2/1/2006	13 30	3 39E+02	4 23E+02	4 65E+02	NA	NA	NA	3 06E+00	9 19E+00	6 91E+00	3 03E+00	9 39E+00	7 30E+00	NA	NA	NA	
	008	25 4	11 1	2/8/2006	11 15	1 89E+02	3 80E+02	3 46E+02	1 35E-01	4 34E-01	5 15E-01	5 29E+00	1 16E+01	1 31E+01	2 41E+00	1 17E+01	1 31E+0.	NA	NA	NA	
	009	25 4	-11 1	2/16/2006	10 05	1 47E+02	4 11E+02	4 54E+02	NA	NA	NA	2 51E+00	8 74E+00	6 54E+00	2 48E+00	7 44E+00	6 05E+00	NA	NA	NA	
	010	25 4	-11 1	2/23/2006	13 25	2 63E+02	4 93E+02	4 61E+02	NA	NA	NA	1 97E+00	5 90E+00	4 95E+00	1 88E+00	5 53E+00	4 19E+00	NA	NA	NA	
	011	25 4	-11 1	3/3/2006	3 50	3 30E+02	4 71E+02	4 66E+02	NA	NA	NA	2 65E+00	7 94E+00	6 36E+00	4 53E+00	1 36E+01	1 08E+0.	NA	NA	NA	
	013	25 4	-11 1	5/22/2005	9 23	7 59E+02	4 11E+02	4 46E+02	1 52E-01	2 88E-01	3 20E-01	3 42E+00	1 03E+01	7 57E+00	3 40E+00	1 22E+01	7 93E+00	NA	NA	NA	
	014	25 4	-11 1	6/21/2005	9 43	9 16E+02	4 33E+02	4 66E+02	-2 66E+00	2 16E+00	2 40E+00	2 52E+00	7 56E+00	5 45E+00	2 50E+00	7 49E+00	5 59E+00	1 10E+00	5 70E+00	6 46E+00	
	014	25 4	-11 1	6/21/2005	9 43	7 62E+02	1 77E+02	1 70E+02	NA	NA	NA	5 90E-01	2 10E+00	2 46E+00	1 20E+00	2 27E+00	2 20E+00	NA	NA	NA	
	015	25 4	-11 1	7/6/2006	12 00	5 53E+02	4 20E+02	4 52E+02	-3 70E-01	4 50E-01	5 20E-01	3 40E+00	1 02E+01	7 70E+00	2 98E+00	8 95E+00	7 41E+00	NA	NA	NA	
	016	25 4	-11 1	8/7/2006	13 23	2 15E+02	1 80E+02	1 74E+02	5 00E-02	6 30E-01	7 10E-01	2 29E+00	5 47E+00	9 51E+00	-7 22E-01	6 90E+00	9 33E+00	2 75E+01	2 94E+01	3 13E+01	
	017	25 4	-11 1	9/5/2006	11 30	3 53E+02	1 86E+02	1 67E+02	-5 30E-01	7 80E-01	8 70E-01	3 81E-01	7 68E+00	8 63E+00	-4 48E-01	6 20E+00	6 42E+00	NA	NA	NA	
	018	25 4	-11 1	11/22/2006	10 38	1 78E+02	4 03E+02	4 56E+02	-7 00E-02	6 60E-01	7 30E-01	3 13E+00	9 33E+00	7 14E+00	3 08E+00	9 25E+00	7 53E+00	NA	NA	NA	
	019	25 4	-11 1	2/12/2007	9 53	2 24E+03	5 00E+02	5 36E+02	-5 10E-01	1 32E+00	1 50E+00	2 73E+00	1 92E+00	2 00E+00	-1 03E+00	1 41E+00	1 80E+00	NA	NA	NA	
	020	25 4	-11 1	8/16/2007	11 50	6 04E+02	1 55E+02	1 44E+02	-9 21E-02	6 92E-01	8 50E-01	1 21E+00	3 07E+00	3 65E+00	2 48E+00	3 31E+00	3 98E+00	NA	NA	NA	
	021	25 4	-11 1	4/22/2009	10 45	2 04E+02	1 67E+02	1 77E+02	3 53E-01	7 50E-01	8 49E-01	-2 57E-01	4 41E+00	6 94E+00	6 31E-01	2 55E+00	2 94E+00	NA	NA	NA	
MW-39-67	001	67	-3	5/22/2007	9 53	4 73E+02	1 77E+02	1 31E+02	2 76E+00	8 57E-01	5 71E-01	1 23E-01	1 67E+00	1 85E+00	1 84E+00	1 88E+00	2 08E+00	-3 11E+00	1 06E+01	1 25E+01	MW-39-67
	002	67	-3	8/7/2007	16 30	3 25E+02	1 86E+02	1 92E+02	4 78E+00	1 13E+00	6 32E-01	2 29E+00	4 02E+00	3 57E+00	2 02E-01	2 55E+00	2 96E+00	NA	NA	NA	
	003	67	-3	1/17/2003	14 35	3 57E+02	1 95E+02	1 03E+02	3 52E+00	1 29E+00	6 53E-01	-1 20E-01	3 17E+00	3 57E+00	1 76E+00	3 53E+00	4 25E+00	NA	NA	NA	
	004	67	-3	5/1/2008	13 48	3 18E+02	1 21E+02	1 96E+02	2 21E+00	6 17E-01	6 78E-01	3 01E-01	1 53E+00	2 53E+00	3 64E-01	1 80E+00	3 11E+00	NA	NA	NA	
	005	67	-3	10/23/2008	12 53	4 15E+02	2 01E+02	1 95E+02	3 31E+00	1 12E+00	7 74E-01	1 28E+00	5 46E+00	5 95E+00	2 32E-01	5 38E+00	6 06E+00	NA	NA	NA	
	006	67	-3	4/9/2009	14 55	3 38E+02	1 67E+02	1 50E+02	3 35E+00	9 69E-01	6 51E-01	-8 09E-01	5 12E+00	3 41E+00	5 19E-01	3 50E+00	4 21E+00	NA	NA	NA	
MW-39-84	001	83 5	-3 5	5/22/2007	10 38	5 51E+02	1 89E+02	1 90E+02	1 72E+00	7 72E-01	5 57E-01	-9 07E-02	1 65E+00	1 65E+00	5 61E-01	1 58E+00	1 81E+00	-1 68E+00	9 99E+00	1 15E+01	MW-39-84
	002	83 5	-3 5	8/7/2007	15 30	2 22E+02	1 77E+02	1 91E+02	7 97E-01	7 18E-01	7 30E-01	3 55E-01	3 07E+00	3 44E+00	-1 11E+00	3 59E+00	3 76E+00	NA	NA	NA	
	003	83 5	-3 5	1/17/2008	13 25	1 43E+02	1 70E+02	1 84E+02	1 78E+00	9 47E-01	7 34E-01	-2 74E+00	2 99E+00	2 86E+00	8 36E-01	2 94E+00	3 50E+00	NA	NA	NA	
	004	83 5	-3 5	5/1/2008	14 10	1 50E+02	1 13E+02	1 99E+02	2 23E+00	7 07E-01	8 23E-01	-2 22E-01	2 24E+00	3 69E+00	-2 11E-01	2 24E+00	3 67E+00	NA	NA	NA	
	005	83 5	-3 5	10/23/2008	12 56	2 34E+02	1 83E+02	1 95E+02	1 04E+00	6 90E-01	5 36E-01	1 74E+00	5 83E+00	6 93E+00	1 12E+00	6 98E+00	8 05E+00	NA	NA	NA	
	006	83 5	-3 5	4/9/2009	15 25	1 65E+02	1 43E+02	1 50E+02	2 05E+00	7 71E-01	6 21E-01	-3 09E-01	4 19E+00	2 75E+00	1 63E+00	2 57E+00	3 42E+00	NA	NA	NA	
MW-39-102	001	101 5	-21 5	5/22/2007	10 40	8 05E+02	2 13E+02	1 29E+02	1 32E+00	7 17E-01	6 21E-01	-3 99E-02	1 81E+00	1 95E+00	6 54E-01	1 78E+00	2 .1E+00	6 39E-02	1 15E+01	1 32E+01	MW-39-102
	002	101 5	-21 5	8/7/2007	14 25	3 21E+02	1 79E+02	1 88E+02	4 71E-01	5 61E-01	5 95E-01	-7 63E-01	3 33E+00	3 65E+00	-2 47E+00	4 70E+00	4 22E+00	NA	NA	NA	
	003	101 5	-21 5	1/17/2008	13 32	1 54E+02	1 67E+02	1 75E+02	9 88E-01	8 36E-01	7 97E-01	7 42E-01	2 37E+00	2 83E+00	7 91E-01	3 45E+00	2 98E+00	NA	NA	NA	
	004	101 5	-21 5	4/30/2008	14 56	5 03E+02	1 69E+02	2 44E+02	6 83E-01	5 43E-01	7 95E-01	-1 02E+00	2 63E+00	4 00E+00	4 88E-01	1 90E+00	3 34E+00	-1 07E+01	1 40E+01	2 46E+01	
	005	101 5	-21 5	10/22/2008	13 26	1 68E+02	1 88E+02	2 00E+02	1 23E+00	7 18E-01	5 72E-01	6 17E-01	5 18E+00	6 72E+00	-1 96E+00	5 47E+00	5 53E+00	NA	NA	NA	
	006	101 5	-21 5	4/9/2009	15 38	2 20E+02	1 53E+02	1 51E+02	2 40E+00	8 22E-01	6 31E-01	-8 .7E-02	5 07E+00	3 38E+00	1 30E+00	3 12E+00	3 80E+00	NA	NA	NA	
MW-39-124	001	24	-44	5/22/2007	9 53	2 61E+02	1 49E+02	1 31E+02	9 26E-01	9 70E-01	1 00E+00	-1 .5E-01	1 64E+00	1 80E+00	-5 31E-01	1 54E+00	1 63E+00	3 55E+00	1 17E+01	1 32E+01	MW-39-124

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-39-124	002	124	-44	8/7/2007	13 40	1 52E+02	1 73E+02	1 88E+02	5 90E-C1	8 57E-01	9 43E-01	-1 14E+00	2 94E+00	3 06E+00	4 97E-C1	3 17E+00	3 61E+00	NA	NA	NA	MW-39-124
	003	124	-44	1/17/2008	15 40	1 67E+02	1 64E+02	1 73E+02	1 48E+00	9 71E-01	8 50E-01	6 55E-01	2 61E+00	3 0CE+30	5 85E-C1	2 33E+00	2 55E+00	NA	NA	NA	
	004	124	-44	4/30/2008	15 24	2 15E+02	4 50E+01	1 52E+02	1 79E+00	6 60E-01	8 91E-01	-1 13E+00	2 13E+00	2 4CE+30	5 87E-C1	2 19E+00	2 89E+00	-1 15E+01	1 42E+01	2 52E+01	
	005	124	-44	10/22/2008	14 10	2 31E+02	1 88E+02	2 0CE+02	5 42E-C1	6 47E-01	5 54E-01	1 03E+00	5 64E+00	6 61E+30	1 65E+00	6 49E+00	8 11E+00	NA	NA	NA	
	006	124	-44	4/9/2009	11 46	1 98E+02	1 50E+02	1 5CE+02	5 16E-C1	6 33E-01	6 29E-01	-9 45E-02	5 16E+00	3 44E+30	-1 53E-01	3 30E+00	3 67E+00	NA	NA	NA	
MW-39-183	001	183 5	-102 5	5/22/2007	10 C8	2 47E+02	1 43E+02	1 29E+02	C 51E-C1	8 82E-01	9 33E-01	6 42E-01	1 83E+00	1 85E+30	3 09E-C2	1 58E+00	1 79E+00	0 00E+00	1 09E+01	2 2E+01	MW-39-133
	002	183 5	-102 5	8/7/2007	12 40	1 CCE102	1 73E102	1 69E102	7 11E-C1	0 02E-01	0 32E-01	1 30E100	5 12E100	5 12E100	2 34E100	4 5CE100	5 46E100	NA	NA	NA	
	003	183 5	102 5	1/17/2008	11 55	4 65E+01	1 56E+02	1 82E+02	6 39E-C1	6 17E-01	5 32E-01	3 72E-01	3 51E+00	3 92E+30	0 00E+00	2 33E+00	2 20E+00	NA	NA	NA	
	004	183 5	102 5	4/30/2008	15 C3	1 12E+02	1 04E+02	1 77E+02	1 12E+00	5 66E-01	7 33E-01	1 45E-01	2 45E+00	2 14E+30	7 95E-C1	2 50E+00	4 48E+00	1 83E+00	1 46E+01	2 5CE+01	
	005	183 5	-102 5	10/22/2008	14 C7	5 39E+01	1 73E+02	1 97E+02	3 45E-C1	7 29E-01	8 35E-01	-4 15E+00	5 83E+00	7 05E+30	-3 08E+30	7 77E+00	7 35E+00	NA	NA	NA	
	006	183 5	-102 5	4/9/2009	11 45	2 69E+01	1 76E+02	1 5CE+02	2 11E-C1	6 65E-01	7 51E-01	3 94E-01	5 71E+00	4 47E+30	6 09E-C1	3 77E+00	4 13E+00	NA	NA	NA	
MW-39-195	001	195	-115	5/22/2007	12 45	2 55E+02	1 5CE+02	1 33E+02	1 32E+00	6 90E-01	5 59E-01	0 00E+00	7 67E+00	4 34E+30	3 54E-C1	4 16E+00	4 82E+00	-2 52E+00	9 95E+00	1 5E+01	MW-39-195
	002	195	-115	8/7/2007	12 C0	2 0CE+02	1 7CE+02	1 8CE+02	5 92E-C1	6 23E-01	6 55E-01	-4 08E-02	4 14E+00	4 0CE+30	-2 76E-01	4 5CE+00	4 30E+00	NA	NA	NA	
	003	195	-115	1/17/2008	17 28	9 63E+01	1 64E+02	1 84E+02	8 97E-C1	8 51E-01	8 38E-01	7 57E-01	4 08E+00	4 0CE+30	8 15E-C1	3 42E+00	4 01E+00	NA	NA	NA	
	004	195	-115	4/30/2008	16 10	2 74E+02	1 5CE+02	2 3CE+02	1 21E+00	5 52E-01	8 29E-01	-1 17E+00	2 23E+00	3 71E+30	2 23E-C2	2 48E+00	4 21E+00	-2 59E+00	1 45E+01	2 51E+01	
	005	195	-115	10/22/2008	14 26	1 72E+02	1 83E+02	2 0CE+02	8 81E-C1	7 23E-01	6 38E-01	4 14E+00	5 57E+00	6 9CE+30	1 81E+00	6 76E+00	7 96E+00	NA	NA	NA	
	006	195	-115	4/9/2009	12 C8	7 46E+01	1 32E+02	1 4CE+02	6 89E-C1	6 60E-01	7 11E-01	-2 41E-01	3 63E+00	5 75E+30	-1 04E+30	4 80E+00	5 07E+00	NA	NA	NA	
MW-40-27	001	26 7	45 5	6/5/2007	11 C0	1 56E+02	1 53E+02	1 63E+02	-7 8CE-04	6 48E-01	8 50E-01	2 70E-02	3 04E+00	3 39E+30	1 48E+00	2 90E+00	3 17E+00	NA	NA	NA	MW-40-27
	002	26 7	45 5	7/23/2007	12 35	1 42E+02	1 59E+02	1 69E+02	3 32E-C1	5 90E-01	6 52E-01	2 52E+00	3 39E+00	3 8CE+30	-5 97E-02	3 45E+00	3 83E+00	NA	NA	NA	
	003	26 7	45 5	1/7/2008	16 28	1 44E+02	1 7CE+02	1 82E+02	-4 39E-01	4 49E-01	7 34E-01	-4 17E-01	1 74E+00	1 87E+30	6 09E-C1	1 7CE+00	1 99E+00	NA	NA	NA	
	004	26 7	45 5	8/11/2008	13 19	2 22E+02	1 06E+02	1 72E+02	1 66E-C1	4 2CE-01	7 25E-01	6 16E-01	2 28E+00	4 0CE+30	-3 72E-01	2 56E+00	3 85E+00	-7 57E+00	1 15E+01	2 0CE+01	
	005	26 7	45 5	10/28/2008	14 58	1 42E+02	1 8CE+02	1 9CE+02	4 78E-C1	5 84E-01	6 1CE-01	-1 55E+00	5 73E+00	6 22E+30	-1 46E+30	6 86E+00	7 41E+00	6 28E+00	1 64E+01	3 8E+01	
	006	26 7	45 5	1/19/2009	14 29	1 2CE+02	1 34E+02	1 48E+02	4 82E-C1	6 3CE-01	6 32E-01	6 25E-01	3 41E+00	3 8CE+30	1 46E+00	2 9CE+00	3 38E+00	-1 86E+00	1 80E+01	2 09E+01	
	007	26 7	45 5	4/13/2009	14 17	1 58E+02	1 4CE+02	1 3CE+02	-5 3CE-01	7 8CE-01	9 5CE-01	-1 14E-01	5 8CE+00	6 52E+30	-6 0CE-02	3 42E+00	3 81E+00	-2 30E+00	1 8CE+01	2 12E+01	
	008	26 7	45 5	7/20/2009	14 50	1 54E102	1 04E102	2 14E102	2 47E-C1	4 0CE-01	4 4CE-01	4 50E100	3 4CE100	5 0CE100	-1 64E100	5 54E100	5 08E100	NA	NA	NA	
MW-40-46	001	46 2	27	6/5/2007	11 50	1 42E+02	1 53E+02	1 6CE+02	3 17E-01	5 82E-01	8 38E-01	7 9CE-01	3 59E+00	3 35E+30	5 35E+30	2 7CE+00	2 27E+00	NA	NA	NA	MW-40-46
	002	46 2	27	7/23/2007	12 15	9 48E+01	1 53E+02	1 71E+02	3 5CE-C1	5 6CE-01	6 28E-01	-9 08E-01	3 79E+00	4 0CE+30	-1 72E+30	3 37E+00	2 9CE+00	NA	NA	NA	
	003	46 2	27	10/17/2007	14 45	-1 59E+01	1 57E+02	1 74E+02	-2 14E-02	5 1CE-01	6 35E-01	-3 8CE-01	3 72E+00	3 5CE+30	4 94E-C1	3 72E+00	4 26E+00	NA	NA	NA	
	004	46 2	27	1/7/2008	14 42	-1 9CE+01	1 43E+02	1 8CE+02	8 04E-C1	8 5CE-01	8 75E-01	-1 21E+00	2 84E+00	3 0CE+30	1 16E+00	2 5CE+00	2 82E+00	NA	NA	NA	
	005	46 2	27	8/11/2008	13 35	1 6CE+02	1 04E+02	1 71E+02	-3 2CE-01	3 7CE-01	8 9CE-01	1 2CE-01	1 99E+00	3 31E+30	1 09E+00	2 2CE+00	3 64E+00	4 0CE+00	1 1CE+01	2 0CE+01	
	006	46 2	27	10/28/2008	15 30	8 6CE+01	1 74E+02	1 9CE+02	6 53E-C1	7 0CE-01	7 2CE-01	2 82E-01	5 53E+00	7 45E+30	1 83E+00	6 3CE+00	7 48E+00	9 54E-01	1 7CE+01	1 9CE+01	
	007	46 2	27	1/19/2009	14 28	7 6CE+01	1 33E+02	1 4CE+02	2 69E-C1	5 0CE-01	5 5CE-01	8 0CE-01	2 83E+00	3 3CE+30	-1 19E+30	2 7CE+00	2 8CE+00	-5 63E+00	1 89E+01	2 2CE+01	
	008	46 2	27	4/13/2009	14 40	1 2CE+02	1 3CE+02	1 3CE+02	-1 5CE-01	5 2CE-01	7 1CE-01	-1 3CE+00	5 8CE+00	4 5CE+30	-2 7CE-01	4 3CE+00	4 4CE+00	-5 3CE+00	1 9CE+01	2 3CE+01	
	009	46 2	27	7/20/2009	15 11	1 4BE+02	1 92E+02	2 1BE+02	5 8CE-C1	5 8CE-01	6 3BE-01	-1 03E+00	7 61E+00	7 32E+30	-1 38E+30	6 32E+00	6 66E+00	NA	NA	NA	
MW-40-81	001	80 7	-7 5	6/5/2007	12 37	1 63E+02	1 59E+02	1 61E+02	-2 92E-02	6 9BE-01	9 11E-01	-1 0CE+00	3 0CE+00	3 22E+30	-4 7CE-03	3 79E+00	3 6CE+00	NA	NA	NA	MW-40-81
	002	80 7	-7 5	7/23/2007	13 C0	6 5CE+01	1 52E+02	1 72E+02	2 45E-C1	6 0CE-01	6 3BE-01	-7 0BE-01	4 9CE+00	5 2CE+30	2 31E+00	3 81E+00	4 9CE+00	NA	NA	NA	
	003	80 7	-7 5	10/12/2007	10 52	6 59E+01	1 53E+02	1 73E+02	-9 6CE-02	5 0CE-01	7 1CE-01	5 4CE-01	4 0CE+00	4 4BE+30	7 73E-C1	4 2CE+00	4 6BE+00	NA	NA	NA	
	004	80 7	-7 5	1/7/2008	14 25	1 0CE+02	1 6BE+02	1 8BE+02	2 8BE-C1	7 0CE-01	8 0BE-01	-7 49E-01	2 51E+00	2 8BE+30	-2 66E-01	1 7BE+00	1 9CE+00	NA	NA	NA	
	005	80 7	-7 5	8/11/2008	13 43	2 4CE+02	1 0BE+02	1 7BE+02	1 6BE-C1	3 6CE-01	6 2CE-01	-7 8BE-02	1 69E+00	2 7BE+30	2 6CE-C1	1 9CE+00	3 2CE+00	-2 9CE+00	1 1CE+01	2CE+01	
	006	80 7	-7 5	10/28/2008	11 20	3 6AE+01	1 6BE+02	1 9CE+02	-1 8AE-01	4 1BE-01	6 2BE-01	2 0AE+00	3 2BE+00	6 2AE+30	-8 6AE-01	6 7BE+00	7 2CE+00	-2 3BE+00	2 3BE+01	2 6BE+01	
	007	80 7	-7 5	1/19/2009	10 38	1 C1E102	1 3TE102	1 4CE102	2 92E-C1	5 7CE-01	6 5AE-01	-4 07E-01	3 0CE100	4 01E130	-1 41E130	3 7TE00	3 92E100	-7 5SE100	1 7TE101	2 0SE101	
	008	80 7	-7 5	4/13/2009	11 C6	2 31E102	1 5QE102	1 3SE102	-3 3AE-02	6 4TE-01	8 1TE-01	-1 9QE100	7 1TE100	4 7CE130	3 7QE100	4 5TE100	6 0QE100	-1 2QE101	2 0CE101	2 4QE101	
	009	80 7	-7 5	7/20/2009	11 29	2 13E+02	1 9SE+02	2 1AE+02	2 23E-02	4 3SE-01	5 9BE-01	7 7BE-01	1 9BE+00	5 5CE+30	1 11E+30	5 5AE+00	5 9GE+00	NA	NA	NA	
MW-40-100	001	100 2	-27	6/5/2007	11 15	1 7GE+02	1 6IE+02	1 64E+02	3 40E-C1	6 1GE-01	6 3AE-01	-1 92E+00	3 0GE+00	3 0AE+30	-1 98E+30	3 8TE+00	3 59E+00	NA	NA	NA	MW-40-100
	002	100 2	-27	7/23/2007	13 20	8 1TE+01	1 5AE+02	1 7AE+02	2 91E-C1	6 1BE-01	6 9GE-01	-4 67E-01	1 9IE+00	2 1CE+30	1 78E-C1	1 9AE+00	2 2GE+00	NA	NA	NA	
	003	100 2	-27	10/12/2007	11 C3	5 5SE+01	1 5IE+02	1 7IE+02	-7 3SE-02	5 7SE-01	7 9SE-01	1 9IE+00	3 5TE+00	3 8TE+30	8 9QE-C1	3 3QE+00	3 6IE+00	NA	NA	NA	
	004	100 2	-27	1/7/2008	11 55	1 9BE+01	1 5ZE+02	1 8IE+02	-7 6SE-02	5 8SE-01	8 3QE-01	3 1IE-01	2 2TE+00	2 6CE+30	8 8AE-C2	2 7SE+00	2 8GE+00	NA	NA	NA	
	006	100 2	-27	5/30/2008	12 45	1 6GE+02	1 8AE+01	1 6CE+02	1 1GE-C1	5 6QE-01	9 3IE-01	-7 4IE-01	2 1ZE+00	3 4EE+30	-8 7IE-01	2 0QE+00	3 1SE+00	NA	NA	NA	
	007	100 2	-27	8/11/2008	10 10	1 5IE+02	1 0SE+02	1 7IE+02	-3 4QE-02	2 8SE-01	5 3IE-01	-1 1BE-01	1 5ZE+00	2 6EE+30	6 3BE-C1	1 5ZE+00	2 7QE+00	0 00E+00	1 0ZE+01	1 8BE+01	
	008	100 2	-27	10/28/2008	11 30	8 6GE+01	1 7IE+02	1 9SE+02	1 1IE-C1	6 3TE-01	7 3IE-01	-1 2SE+00	5 5QE+00	7 1IE+30	3 9ZE+00	7 2ZE+00	8 6IE+00	-7 7QE-01	1 7GE+01	2 0GE+01	
	009	100 2	-27	1/19/2009	11 52	4 2AE+01	1 3QE+02	1 4GE+02	1 0GE-C1	6 0IE-01	7 2SE-01	6 1IE-01	5 9TE+00	3 8SE+30	1 2GE-C1	3 1SE+00	3 6IE+00	-9 8QE+00	1 8BE+01	2 2AE+01	
	010	100 2	-27	4/13/2009	11 C7	2 C2E+02	1 5GE+02	1 3SE+02	6 6GE-C2	5 5ZE-01	6 3ZE-01	-2 1GE+00	5 6QE+00	4 4CE+30	-2 0SE+30	4 4QE+00	4 4SE+00	-3 1IE-01	1 8GE+01	2 1TE+01	
	011	100 2	-27	7/20/2009	11 31	1 6SE+02	1 9TE+02	2 1BE+02	-1 7SE-01	5 6IE-01	7 2AE-01	4 5GE-01	5 5ZE+00	6 3ZE+30	7 1SE-C1	5 7SE+00	6 6SE+00	NA	NA	NA	
MW-40-127	001	127 2	-54	6/5/2007	12 55	1 8TE+02	1 6ZE+02	1 6ZE+02	2 6QE-C1	5 0SE-01	5 7IE-01	7 7TE-01	2 9BE+00	3 4IE+30	-5 59E-03	2 9AE+00	3 2GE+00	NA	NA	NA	MW-40-127
	002	127 2	-54	7/23/2007	15 15	4 6GE+01	1 4AE+02	1 6BE+02	5 8BE-C1	5 1SE-01	5 3BE-01	-1 7IE+00	1 6TE+00	1 7BE+30	2 0AE-C1	1 9BE+00	1 7IE+00	NA	NA	NA	
	003	127 2	-54	10/12/2007	11 50	2 8BE+01	1 4AE+02	1 6AE+02	1 0IE-C1	4 9TE-01	6 2AE-01	-2 3ZE+00	3 9QE+00	4 0IE+30	-1 5IE+30	3 7ZE+00	3 9BE+00	NA	NA	NA	
	004	127 2	-54	1/7/2008	12 30	9 7SE+00	1 4BE+02	1 7SE+02	5 1TE-C1	6 8SE-01	7 2SE-01	6 4SE-01	2 4ZE+00	2 7TE+30	3 2AE-C1	2 2BE+00	2 3BE+00	NA	NA	NA	
	006	127 2	-54	5/30/2008	13 C0	3 7TE+01	1 1GE+01	1 6GE+02	-4 8AE-01	5 3QE-01	9 3BE-01	6 9ZE-01	2 3IE+00	2 4GE+30	1 3GE+00	2 0QE+00	3 0ZE+00	NA	NA	NA	
	007	127 2	-54	8/11/2008	10 24	1 C0E102	1 04E102	1 7CE102	1 6SE-C1	2 4IE-01	4 1QE-01	1 2AE-01	1 0GE100	2 01E130	7 30E-C3	1 49E100	2 51E100	-8 7TE100	1 1SE101	2 0IE101	
	008	127 2	54	10/28/2008	12 10	7 5BE+01	1 7QE+02	1 9SE+02	4 3GE-C1	7 1QE-01	7 3TE-01	2 5BE+00	5 4GE+00	6 8BE+30	4 3BE+30	8 2BE+00	7 6BE+00	0 00E+00	1 6GE+01	1 9BE+01	
	009	127 2	54	1/19/2009	11 25	9 2BE+01	1 3BE+02	1 4BE+02	3 9QE-02	7 1QE-01	9 0QE-01	1 2QE+00	3 7SE+00	3 9AE+30	1 6BZ+00	3 6SE+00	4 4SE+00	3 3AE+00	1 8SE+01	2 1GE+01	
	010	127 2	-54	4/13/2009	11 24	1 5ZE+02	1 3TE+02	1 3GE+02	5 5GE-C2	6 1IE-01	6 3QE-01	-1 0BE+00	7 1GE+00	4 7TE+30	-1 3SE+30	4 5BE+00	4 7SE+00	-9 7BE+00	1 8GE+01	2 2EE+01	
	011	127 2	-54	7/20/2009	12 C9	1 7TE+02	1 9SE+02	2 1TE+02	3 8BE-C1	6 3QE-01	7 1IE-01	-4 3QE-02	6 4QE+00	5 0BE+30	1 1SZ+00	5 5BE+00	6 3BE+00	NA	NA	NA	
MW-40-162	001	151 7	-88 5	6/5/2007	14 45	1 4QE+02	1 5QE+02	1 6AE+02	2 9AE-C1	4 5IE-01	5 3AE-01	-1 6TE+00	5 3IE+00	4 9ZE+30	3 8SE-C1	4 5BE+00	4 5IE+00	NA	NA	NA	MW-40-152
	002	151 7	-88 5	7/23/2007	17 40	2 5QE+01	1 4QE+02	1 7IE+02	1 1QE-C1	4 4SE-01	5 0TE-01	-2 5IE-01	2 8IE+00	1 7SE+30	7 2TE-C1	1 4SE+00	1 6SE+00	NA	NA	NA	
	003	151 7	-88 5	10/12/2007	12 54	4 4SE+01	1 4QE+02	1 6SE+02	-5 4BE-02	6 2QE-01	8 1QE-01	-1 1IE+00	4 4TE+00	4 0SE+30	-1 0IE+30	3 3IE+00	3 4TE+00	NA	NA	NA	
	004	151 7	-88 5	1/7/2008	13 10	4 5GE+01	1 5GE+02	1 8ZE+02	7 9BE-C2	3 6SE-01	4 8BE-01	4 1TE-01	2 5ZE+00	2 8TE+30	3 6SE-C1	2 4QE+00	2 7ZE+00	NA	NA	NA	
	005	151 7	-88 5	8/11/2008	11 44	2 3QE+02	1 0BE+02	1 7SE+02	7 7QE-C2	4 1QE-01	7 3IE-01	6 2SE-01	2 4SE+00	4 1EE+30	3 1SZ+00	2 7TE+00	4 1EE+00	-5 2TE+00	1 2ZE+01	2 1GE+01	
	006	151 7	-88 5	10/28/2008	13 15	1 2EE+02	1 7TE+02	1 9GE+02	2 8QE-C1	6 3SE-01	7 3SE-01	-2 0QE+00	5 8AE+00	6 2GE+30	2 1ZE+00	6 3BE+00	7 2SE+00	3 7SE+00	1 7GE+01	2 0AE+01	
	007	151 7	-88 5	1/19/2009	11 47	1 C7E+02	1 3IE+02	1 4BE+02	1 3ZE-C1	5 1GE-01	6 1GE-01	-3 9BE-01	3 3ZE+00	3 6TE+30	4 2ZE-C1	2 9GE+00	3 4IE+00	-9 7TE+00	1 8SE+01	2 2CE+01	
	008	151 7	-88 5	4/13/2009	12 25	1 4ZE+02	1 3TE+02	1 3EE+02	3 2BE-C1	4 9AE-01	5 4GE-01	-2 8IE+00	5 8AE+00	3 8SE+30	-6 4SE-01	3 8IE+00	4 0GE+00	-2 9QE+00	1 8SE+01	2 1TE+01	
	009	151 7	-88 5	7/20/2009	12 57	1 2AE+02	1 9ZE+02	2 1AE+02	7 4ZE-C2	4 2GE-01	5 1TE-01	-2 2QE-01	5 7SE+00	6 3IE+30	1 5AZ+00	5 5AE+00	6 5GE+00	NA	NA	NA	
MW-41-40	002	34 4	20 5	4/12/2005	15 00	7 2BE+02	2 0TE+02	1 5BE+02	2 6SS+00	1 74E+00	1 38E+00	2 9IE+00	2 6ZE+00	2 0SE+30	-1 9BE-01	2 5SE+00	2 74E+00	NA	NA	NA	MW-41-40
	003	34 4	20 5	5/25/2005	10 C0	6 C7E+02	2 2ZE+02	1 8BE+02	5 18S+00	1 46E+00	1 07E+00	4 35E+00	1 06E+01	1 24E+31	-1 16E+30	1 07E+01	1 .4E+0.	NA	NA	NA	
	004	34 4	20 5	6/12/2005	9 50	6 76E+02	2 00E+02	1 51E+02	3 58S+00	6 83E-01	5 31E-01	5 30E+00	1 02E+01	1 15E+31	5 42E-C2	9 32E+00	1 02E+0.	NA	NA	NA	

J:\17,000 - 18,000\17860\17860 01 MG\2009 - Quarter 3\FINAL\Tables\,
Table 5 - Historic GW Analytical Results.xlsx,
MakeTable5

See Page 20 for Notes

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-41-40	005	34.4	23.5	7/14/2005	3:45	9.63E+02	2.64E+02	2.07E+02	7.02E+00	2.83E+00	2.09E+00	3.44E+00	1.29E+01	1.63E+01	-2.31E+00	1.37E+01	1.29E+01	NA	NA	NA	MW-41-40
	006	34.4	23.5	8/16/2005	13:15	4.47E+02	1.93E+02	1.66E+02	NA	NA	NA	7.39E-01	5.84E+00	8.76E+00	1.70E-01	5.46E+00	7.51E+00	NA	NA	NA	
	007	34.4	23.5	11/15/2006	12:55	4.26E+02	1.83E+02	1.83E+02	4.64E+00	8.70E-01	6.20E-01	5.00E-01	5.00E+00	6.90E+00	1.50E+00	6.90E+00	8.20E+00	3.10E+00	5.70E+00	6.40E+00	
	008	34.4	23.5	6/19/2007	14:45	3.91E+02	1.82E+02	2.06E+02	5.99E+00	1.15E+00	1.49E-01	-3.09E+00	4.42E+00	5.22E+00	-3.43E-01	2.81E+00	3.01E+00	2.21E-01	1.27E+01	1.49E+01	
	009	34.4	23.5	8/14/2007	14:35	3.80E+02	1.97E+02	2.00E+02	5.96E+00	1.17E+00	7.43E-01	0.00E+00	3.52E+00	3.31E+00	1.40E+00	4.20E+00	4.00E+00	NA	NA	NA	
	010	34.4	23.5	1/24/2008	16:28	2.12E+02	1.80E+02	1.93E+02	3.05E+00	1.07E+00	7.34E-01	2.67E+00	2.53E+00	2.21E+00	-5.13E-01	2.00E+00	2.16E+00	NA	NA	NA	
	011	34.4	23.5	10/22/2008	14:49	2.21E+03	7.20E+02	5.92E+02	5.91E+00	1.10E+00	4.21E-01	3.07E+00	5.33E+00	7.66E+00	-3.06E+00	8.54E+00	9.40E+00	NA	NA	NA	
	012	34.4	23.5	4/7/2009	15:56	5.71E+02	1.91E+02	1.56E+02	5.38E+00	1.14E+00	6.38E-01	4.26E+00	7.20E+00	7.86E+00	4.60E-01	3.27E+00	3.76E+00	NA	NA	NA	
	013	34.4	23.5	7/24/2009	15:33	6.17E+02	3.51E+02	2.25E+02	4.30E+00	1.05E+00	7.36E-01	1.73E-01	3.21E+00	3.51E+00	4.32E-01	3.57E+00	3.93E+00	NA	NA	NA	
MW-41-63	001	59.5	-4.6	4/12/2005	14:45	7.01E+02	2.03E+02	1.53E+02	5.49E+00	2.21E+00	1.60E+00	6.69E-01	2.27E+00	2.52E+00	-3.89E-02	2.58E+00	2.78E+00	NA	NA	NA	MW-41-63
	002	59.5	-4.6	9/29/2005	10:50	3.61E+02	2.07E+02	1.93E+02	5.92E+00	1.53E+00	1.10E+00	7.91E-02	2.63E+00	3.11E+00	3.51E+00	7.27E+00	1.07E+01	NA	NA	NA	
	003	59.5	-4.6	6/12/2005	10:05	2.68E+02	1.67E+02	1.52E+02	5.45E+00	5.28E-01	5.30E-01	8.20E-01	3.70E+00	9.55E+00	2.12E+00	7.25E+00	8.29E+00	NA	NA	NA	
	004	59.5	-4.6	7/18/2005	13:04	2.43E+02	1.93E+02	1.92E+02	2.17E+00	9.90E-01	8.34E-01	3.04E+00	3.49E+00	1.11E+01	1.73E-01	8.30E+00	8.75E+00	NA	NA	NA	
	005	59.5	-4.6	8/16/2005	13:00	3.56E+02	1.89E+02	1.76E+02	NA	NA	NA	3.69E+00	3.12E+00	1.03E+01	-1.55E+00	7.58E+00	7.71E+00	NA	NA	NA	
	006	59.5	-4.6	11/13/2006	13:10	1.57E+02	1.33E+02	1.30E+02	2.06E+00	6.60E-01	6.50E-01	-1.60E+00	4.50E+00	5.70E+00	0.00E+00	5.40E+00	6.60E+00	3.00E+00	6.60E+00	7.30E+00	
	007	59.5	-4.6	6/20/2007	11:05	5.52E+02	1.97E+02	1.86E+02	7.08E+00	1.28E+00	6.27E-01	-3.10E-01	2.37E+00	2.65E+00	-1.06E-02	2.33E+00	2.65E+00	-4.39E-01	1.26E+01	1.48E+01	
	008	59.5	-4.6	8/14/2007	16:10	5.47E+02	2.04E+02	1.95E+02	3.55E+00	9.02E-01	5.31E-01	-2.83E+00	3.40E+00	3.20E+00	1.32E-01	3.48E+00	3.87E+00	NA	NA	NA	
	009	59.5	-4.6	1/25/2008	10:05	3.03E+02	2.79E+02	2.93E+02	3.76E+00	1.13E+00	8.22E-01	0.00E+00	3.33E+00	1.85E+00	5.24E-02	1.54E+00	1.88E+00	NA	NA	NA	
	010	59.5	-4.6	10/22/2008	12:34	6.51E+02	5.73E+02	5.92E+02	5.69E+00	1.13E+00	4.41E-01	2.60E+00	5.59E+00	6.71E+00	5.04E-01	6.08E+00	7.02E+00	NA	NA	NA	
	011	59.5	-4.6	4/23/2009	11:57	5.26E+02	1.83E+02	1.83E+02	4.08E+00	8.84E-01	3.37E-01	4.19E-01	5.80E+00	4.53E+00	1.22E+00	4.19E+00	4.93E+00	NA	NA	NA	
	012	59.5	-4.6	7/24/2009	14:13	4.40E+02	2.54E+02	2.26E+02	2.67E+00	8.02E-01	4.53E-01	-8.28E-01	3.60E+00	2.85E+00	-5.98E-01	3.12E+00	3.51E+00	NA	NA	NA	
MW-42-49	001	42.6	27.1	3/23/2005	11:15	2.63E+03	3.60E+02	5.85E+02	5.19E+01	1.72E+00	4.38E-01	1.02E+05	7.14E+02	1.00E+02	1.94E+02	2.78E+01	2.32E+0.	NA	NA	NA	MW-42-49
	002	42.6	27.1	3/31/2005	9:29	2.49E+03	4.49E+02	2.37E+02	2.10E+01	9.96E-01	3.57E-01	6.55E+03	1.24E+02	2.76E+01	2.29E+01	2.10E+01	2.50E+0.	NA	NA	NA	
	003	42.6	27.1	4/7/2006	17:52	2.51E+03	7.83E+02	7.37E+02	1.09E+02	2.10E+00	4.29E-01	8.11E+04	7.03E+02	1.01E+02	8.81E+01	2.52E+01	1.97E+0.	2.22E+03	1.76E+02	3.84E+01	
	004	42.6	27.1	6/10/2007	15:00	1.34E+03	5.00E+02	3.74E+02	7.73E+01	4.04E+00	6.37E-01	1.50E+04	1.05E+03	1.31E+01	4.29E+00	3.71E+00	4.02E+00	1.03E+03	4.53E+01	1.44E+01	
	007	42.6	27.1	10/4/2007	12:40	2.46E+03	3.87E+02	1.93E+02	1.65E+01	3.12E+00	6.30E-01	3.69E+04	3.11E+03	1.83E+01	1.59E+01	6.25E+00	3.61E+00	1.17E+03	4.94E+01	1.88E+01	
	008	42.6	27.1	1/21/2008	16:11	1.32E+03	5.23E+02	4.15E+02	3.34E+01	3.18E+00	9.11E-01	3.38E+04	2.93E+03	2.02E+01	0.00E+00	4.13E+00	5.42E+00	5.01E+02	5.01E+01	2.68E+01	
	010	42.6	27.1	5/13/2008	13:20	3.54E+03	2.56E+02	1.44E+02	2.36E+01	1.54E+00	5.48E-01	1.41E+04	7.89E+02	1.47E+01	1.69E+01	4.47E+00	4.67E+00	7.34E+02	7.85E+01	2.16E+01	
	011	42.6	27.1	8/4/2008	14:24	3.16E+03	2.65E+02	1.91E+02	3.56E+01	1.72E+00	5.59E-01	1.06E+04	5.13E+02	1.20E+01	-8.47E-03	2.59E+00	4.52E+00	3.13E+02	2.60E+01	2.61E+01	
	012	42.6	27.1	9/5/2008	12:52	1.32E+04	3.36E+02	5.06E+02	2.96E+02	4.98E+00	4.32E-01	2.21E+04	1.38E+03	1.58E+01	NA	NA	NA	4.62E+02	2.17E+01	2.03E+01	
	013	42.6	27.1	10/31/2008	13:27	2.60E+03	3.77E+02	1.63E+02	9.61E+01	4.34E+00	4.16E-01	1.78E+04	1.53E+03	1.83E+01	5.88E-01	6.96E+00	7.78E+00	2.71E+02	2.73E+01	1.99E+01	
	014	42.6	27.1	11/17/2008	14:56	1.12E+03	2.01E+02	1.73E+02	1.02E+02	6.96E+00	1.28E+00	1.54E+04	1.16E+03	1.74E+01	3.26E+00	5.21E+00	6.76E+00	2.44E+02	3.00E+01	2.25E+01	
	015	42.6	27.1	1/26/2009	16:16	1.28E+03	3.03E+02	2.06E+02	6.77E+02	1.13E+01	7.44E-01	8.05E+04	3.01E+03	2.66E+01	0.00E+00	5.24E+00	5.56E+00	9.12E+02	4.50E+01	1.90E+01	
	016	42.6	27.1	3/16/2009	14:50	7.22E+04	1.03E+03	1.66E+02	5.88E+02	8.57E+00	7.34E-01	1.40E+05	3.00E+01	2.00E+01	5.23E+00	3.54E+00	2.17E+00	1.16E+03	4.95E+01	2.06E+01	
	017	42.6	27.1	4/17/2009	11:03	2.22E+03	3.29E+02	1.85E+02	2.58E+02	6.63E+00	5.59E-01	8.63E+04	4.86E+01	3.24E+01	2.68E+00	4.57E+00	5.75E+00	9.16E+02	4.11E+01	2.15E+01	
	018	42.6	27.1	8/10/2009	12:00	1.47E+03	2.23E+02	1.72E+02	4.83E+00	1.06E+00	5.30E-01	5.42E+03	4.31E+02	9.57E+00	-1.12E+00	4.34E+00	4.60E+00	7.46E+01	2.37E+01	2.35E+01	
MW-42-78	001	74	-4.3	3/24/2005	9:45	1.28E+03	5.87E+02	5.75E+02	3.09E-01	3.90E-01	4.30E-01	4.46E+03	1.36E+02	2.22E+01	1.08E+01	1.71E+01	2.08E+0.	NA	NA	NA	MW-42-78
	002	74	-4.3	4/7/2006	11:28	1.52E+04	1.04E+03	1.31E+02	1.08E-01	3.60E-01	5.40E-01	1.36E+05	1.19E+02	1.12E+01	-2.84E+00	2.52E+01	2.91E+0.	8.66E+01	1.39E+01	4.21E+01	
	003	74	-4.3	6/18/2007	14:40	3.78E+02	1.88E+02	1.88E+02	3.63E-01	5.34E-01	5.76E-01	6.28E+01	1.21E+01	4.11E+00	2.31E+00	3.40E+00	4.00E+00	2.48E+00	1.32E+01	1.52E+01	
	006	74	-4.3	10/4/2007	13:25	4.34E+02	1.94E+02	1.94E+02	2.33E-01	3.09E-01	3.43E-01	3.04E+02	3.44E+01	7.71E+00	3.10E+00	4.24E+00	5.18E+00	6.66E-01	1.53E+01	1.77E+01	
	007	74	-4.3	1/21/2003	15:33	3.40E+02	1.99E+02	1.90E+02	-2.51E-01	6.01E-01	9.32E-01	1.03E+02	1.52E+01	3.35E+00	1.71E-01	3.33E+00	3.61E+00	9.73E+00	2.43E+01	2.75E+01	
	009	74	-4.3	6/4/2008	12:07	6.10E+02	1.50E+02	1.91E+02	3.01E-01	2.57E-01	3.76E-01	2.71E+00	2.02E+00	2.75E+00	-6.44E-01	2.10E+00	3.20E+00	-7.37E-01	1.52E+01	2.66E+01	
	010	74	-4.3	10/31/2008	13:24	5.62E+02	2.12E+02	1.65E+02	4.17E-02	3.01E-01	3.87E-01	3.31E-01	5.63E+00	6.34E+00	8.32E-01	6.72E+00	7.68E+00	3.69E+00	1.77E+01	2.02E+01	
	011	74	-4.3	1/30/2009	11:22	3.65E+02	2.13E+02	2.00E+02	4.40E-01	6.45E-01	7.38E-01	6.70E-01	3.32E+00	3.86E+00	-2.89E-01	3.57E+00	3.99E+00	NA	NA	NA	
	012	74	-4.3	4/17/2009	10:49	2.74E+02	1.88E+02	1.86E+02	4.67E-01	6.74E-01	7.47E-01	1.41E+00	5.85E+00	5.96E+00	5.31E-01	3.90E+00	4.24E+00	6.98E+00	1.91E+01	2.16E+01	
	013	74	-4.3	8/10/2009	12:40	5.19E+02	1.89E+02	1.78E+02	5.90E-01	6.39E-01	6.73E-01	6.07E-01	3.40E+00	3.94E+00	8.71E-01	3.31E+00	3.94E+00	-7.99E+00	1.98E+01	2.32E+01	
MW-43-28	002	23.5	25.3	4/12/2005	12:45	3.46E+02	1.79E+02	1.55E+02	5.40E-02	7.40E-01	8.36E-01	-1.44E+00	2.52E+00	2.54E+00	1.56E+00	2.24E+00	2.56E+00	NA	NA	NA	MW-43-28
	003	23.5	25.3	5/25/2005	12:10	1.20E+02	1.83E+02	1.88E+02	2.65E+00	1.89E+00	1.77E+00	-8.64E-01	2.47E+00	1.03E+01	-1.33E-01	9.42E+00	1.06E+0.	NA	NA	NA	
	004	23.5	25.3	6/12/2005	12:45	2.30E+02	1.62E+02	1.52E+02	1.39E-01	4.27E-01	5.27E-01	2.85E+00	5.93E+00	7.82E+00	-7.55E-01	5.93E+00	6.39E+00	NA	NA	NA	
	005	23.5	25.3	7/12/2005	9:43	1.09E+02	1.83E+02	1.95E+02	1.10E+00	1.69E+00	1.72E+00	2.41E+00	9.87E+00	1.11E+01	-7.95E-01	8.58E+00	9.11E+00	NA	NA	NA	
	006	23.5	25.3	8/16/2005	12:10	2.60E+02	1.83E+02	1.72E+02	NA	NA	NA	5.47E-01	8.43E-01	9.56E-01	-5.16E-01	7.70E-01	8.80E-01	NA	NA	NA	
	007	23.5	25.3	6/18/2007	13:30	2.78E+02	1.70E+02	1.74E+02	1.07E+00	5.97E-01	4.36E-01	-3.68E-01	3.13E+00	3.35E+00	-3.72E-01	3.31E+00	3.46E+00	3.58E+00	1.50E+01	1.73E+01	
	008	23.5	25.3	8/13/2007	11:35	9.56E+01	1.71E+02	1.93E+02	-6.25E-01	7.50E-01	1.02E+00	-7.36E-01	3.57E+00	3.66E+00	2.77E-01	2.70E+00	3.12E+00	NA	NA	NA	
	009	23.5	25.3	1/25/2008	11:11	3.06E+02	2.82E+02	2.96E+02	1.46E-01	6.06E-01	7.38E-01	1.88E+00	2.16E+00	2.66E+00	1.46E+00	2.51E+00	3.03E+00	8.44E+00	1.76E+01	1.99E+01	
	010	23.5	25.3	10/31/2008	14:17	2.65E+02	1.58E+02	1.66E+02	-7.08E-01	3.95E-01	5.56E-01	4.07E+00	5.19E+00	6.44E+00	-1.16E+00	6.21E+00	6.68E+00	NA	NA	NA	
	011	23.5	25.3	4/7/2009	12:14	3.14E+02	1.63E+02	1.51E+02	-4.43E-01	5.66E-01	7.20E-01	5.41E-01	5.95E+00	5.95E+00	-4.31E-01	5.45E+00	5.71E+00	NA	NA	NA	
	012	23.5	25.3	7/31/2009	13:10	1.30E+02	1.44E+02	1.56E+02	-2.47E-02	4.13E-01	5.46E-01	1.19E+00	5.04E+00	7.03E+00	-1.16E+00	6.23E+00	6.64E+00	NA	NA	NA	
MW-43-62	002	51	-2.2	4/12/2005	11:55	2.00E+02	1.60E+02	1.58E+02	4.34E-01	4.63E-01	4.33E-01	3.27E+00	4.04E+00	3.73E+00	1.82E+00	3.39E+00	3.47E+00	NA	NA	NA	MW-43-62
	003	51	-2.2	5/25/2005	12:30	1.84E+02	1.77E+02	1.92E+02	3.23E-01	1.64E+00	1.77E+00	-1.21E+00	1.20E+01	1.30E+01	-2.10E+00	9.31E+00	1.02E+0.	NA	NA	NA	
	004	51	-2.2	6/12/2005	12:40	1.29E+02	1.40E+02	1.38E+02	1.25E+00	5.58E-01	5.36E-01	1.57E+00	7.02E+00	7.95E+00	6.81E-01	7.10E+00	7.85E+00	NA	NA	NA	
	005	51	-2.2	7/12/2005	10:05	2.04E+01	1.53E+02	1.65E+02	4.76E-01	1.46E+00	1.54E+00	1.31E+01	1.31E+01	1.36E+01	3.73E-01	1.31E+01	1.31E+0.	NA	NA	NA	
	006	51	-2.2	8/16/2005	11:55	1.08E+02	1.67E+02	1.70E+02	NA	NA	NA	2.13E-01	9.10E-01	1.01E+00	-1.95E-01	8.33E-01	9.13E-01	NA	NA	NA	
	007	51	-2.2	6/19/2007	9:35	1.67E+02	1.83E+02	2.07E+02	6.55E-01	6.58E-01	6.40E-01	-6.77E-01	3.21E+00	3.47E+00	-8.55E-01	3.10E+00	3.26E+00	1.38E+00	1.33E+01	1.56E+01	
	008	51	-2.2	8/13/2007	12:42	1.14E+02	1.73E+02	1.92E+02	1.29E-01	6.90E-01	8.27E-01	-1.18E+00	3.65E+00	3.85E+00	1.53E-01	3.31E+00	3.80E+00	NA	NA	NA	
	009	51	-2.2	1/25/2008	10:57	1.23E+02	1.74E+02	1.92E+02	1.00E+00	6.47E-01	5.32E-01	4.31E-01	2.42E+00	2.35E+00	-1.11E+00	2.27E+00	2.70E+00	3.76E+00	1.67E+01	1.91E+01	
	010	51	-2.2	10/31/2008	13:16	2.25E+02	1.56E+02	1.66E+02	1.97E-01	4.13E-01	4.74E-01	-3.65E-03	5.43E+00	6.96E+00	2.59E+00	6.30E+00	7.60E+00	NA	NA	NA	
	011	51	-2.2	4/7/2009	13:59	1.34E+02	1.43E+02	1.52E+02	6.85E-01	5.88E-01	5.34E-01	1.18E+01	5.13E+00	4.10E+00	-4.55E-01	3.39E+00	4.22E+00	NA	NA	NA	
	012	51	-2.2	7/31/2009	12:52	1.18E+02	1.46E+02	1.56E+02	8.83E-01	4.79E-01	3.54E-01	-8.49E-01	5.09E+00	5.45E+00	-2.26E-01	7.25E+00	6.57E+00	NA	NA	NA	
MW-44-66	001	62.4	31.1	3/28/2005	14:05	3.38E+02	1.91E+02	1.73E+02	7.38E-02	1.53E+00	1.67E+00	6.54E-01	1.05E+01	1.17E+01	-2.87E+00	1.02E+01	1.09E+0.	NA	NA	NA	MW-44-66
	002	62.4	31.1	5/24/2005	9:05	2.37E+02	1.97E+02	1.92E+02	7.41E-01	4.11E-01	4.45E-01	-3.07E-01	3.97E+00	9.65E+00	4.85E+00	9.06E+00	1.11E+0.	NA	NA	NA	
	003	62.4	31.1	7/20/2005	11:15	8.52E+02	2.27E+02	1.63E+02	7.55E-01	1.22E+00	1.31E+00	3.54E+01	1.74E+01	9.55E+00	6.24E-01	7.37E+00	8.48E+00	NA	NA	NA	
	004	62.4	31.1	6/29/2007	15:00	2.68E+02	1.73E+02	1.84E+02	-4.25E-01	7.28E-01	9.34E-01	2.64E-01	3.03E+00	3.47E+00	7.78E-01	3.40E+00	3.98E+00	NA	NA	NA	
	005	62.4	31.1	8/14/2007	13:10	4.17E+02	1.96E+02	2.08E+02	5.30E-02	4.72E-01	5.75E-01	-8.95E-01	2.91E+00	2.08E+00	-3.39E-01	3.43E+00	3.12E+00	NA	NA	NA	
	006	62.4	31.1	10/31/2007	13:30	5.13E+02	1.82E+02	1.81E+02	3.77E-01	4.10E-01	4.21E-01	2.76E+00	4.29E+00	4.81E+00	1.91E+00	3.90E+00	4.71E+00	NA	NA	NA	
	007	62.4	31.1	1/24/2008	12:55	2.51E+02	2.00E+02	2.12E+02	2.85E-01	4.53E-01	4.99E-01	1.73E+01	4.35E+00	2.31E+00	1.40E+00	3.17E+00	2.43E+00	NA	NA	NA	

IPEC00224595

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-44-66	008	62.4	31.1	4/30/2008	15:38	1.61E+02	1.19E+02	1.96E+02	4.11E-02	4.06E-01	7.39E-01	-8.72E-02	2.06E+00	3.38E+00	5.13E-01	2.44E+00	4.27E+00	NA	NA	NA	MW-44-66
	009	62.4	31.1	7/25/2008	12:18	5.50E+02	2.53E+02	3.75E+02	3.07E-01	3.66E-01	6.17E-01	-2.33E+00	2.53E+00	3.03E+00	-2.09E-01	1.74E+00	2.85E+00	NA	NA	NA	
	010	62.4	31.1	10/23/2008	13:17	3.18E+02	1.61E+02	1.66E+02	5.23E-01	3.83E-01	5.92E-01	-5.20E+00	5.21E+00	5.50E+00	-1.55E+00	5.75E+00	6.02E+00	NA	NA	NA	
	011	62.4	31.1	2/3/2009	9:43	2.06E+02	1.92E+02	1.97E+02	4.52E-01	7.98E-01	8.45E-01	1.96E+00	4.53E+00	4.12E+00	3.09E+00	4.36E+00	4.42E+00	NA	NA	NA	
	012	62.4	31.1	4/28/2009	13:32	3.10E+02	1.93E+02	2.00E+02	2.20E-01	4.83E-01	5.39E-01	-7.47E-01	5.38E+00	4.22E+00	-1.31E-01	4.49E+00	4.97E+00	NA	NA	NA	
	013	62.4	31.1	7/29/2009	12:56	7.44E+02	2.00E+02	1.88E+02	6.54E-01	7.67E-01	8.38E-01	8.64E-02	5.04E+00	6.70E+00	1.80E+00	5.58E+00	6.69E+00	NA	NA	NA	
MW-44-102	001	90	13.5	6/13/2005	10:35	2.53E102	2.01E102	1.90E102	3.53E-01	9.93E-01	1.26E100	-3.22E100	3.20E100	6.07E100	-2.71E-01	7.99E100	9.52E100	NA	NA	NA	MW-44-102
	002	80	13.5	7/20/2005	10:50	3.16E+02	1.82E+02	1.64E+02	3.39E-01	1.05E+00	1.29E+00	2.99E+00	2.39E+00	9.83E+00	5.34E+00	9.50E+00	9.39E+00	NA	NA	NA	
	003	80	13.5	8/1/2006	9:43	7.61E+02	3.30E+02	1.81E+02	NA	NA	NA	4.04E+00	3.10E+00	7.76E+00	5.00E+00	7.31E+00	6.82E+00	NA	NA	NA	
	004	80	13.5	9/13/2006	11:30	2.47E+02	1.94E+02	2.00E+02	NA	NA	NA	7.19E+00	2.63E+00	1.12E+01	-4.76E-01	8.18E+00	8.99E+00	NA	NA	NA	
	005	80	13.5	6/19/2007	17:46	2.58E+02	1.76E+02	1.81E+02	-1.87E-01	4.81E-01	6.39E-01	1.88E+00	2.15E+00	5.64E+00	6.43E-01	2.27E+00	2.78E+00	-4.97E+00	1.37E+01	1.58E+01	
	006	80	13.5	8/14/2007	14:55	2.64E+02	1.89E+02	1.99E+02	1.97E-01	7.63E-01	8.29E-01	-1.46E+00	2.76E+00	2.72E+00	-1.35E+00	2.79E+00	2.73E+00	NA	NA	NA	
	007	80	13.5	10/31/2007	12:01	3.54E+02	1.76E+02	1.82E+02	-2.58E-01	7.75E-01	9.50E-01	-6.60E-01	2.83E+00	3.11E+00	-1.23E+00	3.50E+00	3.11E+00	NA	NA	NA	
	008	80	13.5	1/24/2008	13:05	4.17E+02	2.94E+02	2.96E+02	2.06E-01	5.16E-01	6.34E-01	1.18E+01	4.64E+00	5.19E+00	-4.44E-03	2.85E+00	3.11E+00	NA	NA	NA	
	009	80	13.5	4/30/2008	15:28	2.56E+02	1.22E+02	1.96E+02	7.90E-02	3.71E-01	7.13E-01	1.03E+00	2.03E+00	5.63E+00	-2.07E+00	3.34E+00	4.52E+00	NA	NA	NA	
	010	80	13.5	7/25/2008	12:18	4.37E+02	2.46E+02	3.75E+02	-2.83E-02	1.83E-01	3.21E-01	-4.07E-01	1.78E+00	2.88E+00	1.35E+00	1.87E+00	3.41E+00	NA	NA	NA	
	011	80	13.5	10/23/2008	13:48	4.75E+02	1.63E+02	1.65E+02	2.01E-01	4.65E-01	5.44E-01	1.72E+00	5.24E+00	7.26E+00	2.39E+00	8.12E+00	8.47E+00	NA	NA	NA	
	012	80	13.5	2/2/2009	12:06	2.57E+02	1.94E+02	1.93E+02	4.66E-01	6.12E-01	6.71E-01	9.83E-01	3.39E+00	4.02E+00	-9.65E-01	3.53E+00	3.74E+00	NA	NA	NA	
	013	80	13.5	4/28/2009	13:34	5.14E+02	1.82E+02	1.80E+02	3.70E-01	7.10E-01	8.33E-01	9.60E-01	3.27E+00	5.51E+00	-2.67E-01	5.18E+00	5.85E+00	NA	NA	NA	
	014	80	13.5	7/29/2009	12:08	4.50E+02	1.86E+02	1.85E+02	4.34E-01	6.99E-01	7.73E-01	-4.62E-02	5.13E+00	6.76E+00	-3.58E-01	5.05E+00	5.49E+00	NA	NA	NA	
MW-45-42	001	37	15.6	4/4/2006	17:20	5.18E+02	2.22E+02	2.17E+02	8.85E-01	5.94E-01	5.25E-01	1.41E+01	1.35E+01	1.54E+11	-4.38E-02	1.22E+01	1.34E+01	NA	NA	NA	MW-45-42
	002	37	15.6	5/25/2005	9:25	1.82E+03	3.74E+02	2.42E+02	5.78E-01	1.14E+00	1.38E+00	-7.92E+00	1.21E+01	1.17E+21	-3.97E+00	1.21E+01	1.23E+0.	NA	NA	NA	
	003	37	15.6	6/12/2005	10:45	2.27E+03	4.13E+02	2.12E+02	1.02E+00	6.80E-01	7.49E-01	9.06E-02	3.68E+00	6.29E+30	2.61E+00	5.58E+00	6.70E+00	NA	NA	NA	
	004	37	15.6	7/14/2005	9:33	4.19E+02	2.13E+02	2.00E+02	0.00E+00	1.43E+00	1.59E+00	1.22E+00	3.17E+00	9.22E+30	2.33E+00	9.32E+00	1.13E+0.	NA	NA	NA	
	005	37	15.6	9/11/2005	10:00	3.16E103	5.51E102	2.71E102	NA	NA	NA	-1.16E-01	1.51E100	1.64E100	-4.24E-01	1.40E100	1.54E100	NA	NA	NA	
	006	37	15.6	9/13/2006	11:50	4.15E+03	7.32E+02	3.27E+02	NA	NA	NA	1.58E+00	5.85E+00	6.00E+30	1.46E+30	5.39E+00	5.27E+00	NA	NA	NA	
	007	37	15.6	11-13-2006	13:20	5.25E+02	1.33E+02	1.46E+02	-7.10E-01	7.50E-01	8.50E-01	3.70E+00	5.40E+00	5.60E+30	5.00E-01	6.90E+00	8.30E+00	3.00E-01	3.60E+00	4.10E+00	
	008	37	15.6	6/21/2007	15:05	2.22E+03	5.27E+02	4.36E+02	-6.08E-02	6.25E-01	7.76E-01	1.51E-01	4.14E+00	6.55E+30	2.51E+00	2.83E+00	4.08E+00	3.58E+00	1.30E+01	1.49E+01	
	009	37	15.6	8/15/2007	11:30	1.16E+03	1.80E+02	1.47E+02	-3.79E-01	7.74E-01	9.47E-01	1.92E+00	2.76E+00	3.41E+30	1.19E+00	2.50E+00	3.23E+00	NA	NA	NA	
	010	37	15.6	10/5/2007	11:05	2.22E+03	3.05E+02	1.50E+02	3.55E-01	5.10E-01	5.56E-01	0.00E+00	4.13E+00	1.95E+30	3.65E-01	1.94E+00	2.21E+00	NA	NA	NA	
	011	37	15.6	1/25/2008	12:15	1.44E+03	3.90E+02	2.96E+02	2.08E-01	5.15E-01	6.33E-01	1.60E+00	2.43E+00	2.88E+30	5.96E-01	2.31E+00	2.66E+00	NA	NA	NA	
	012	37	15.6	5/1/2008	15:15	1.13E+03	1.51E+02	1.96E+02	-4.10E-02	3.11E-01	6.29E-01	6.65E-01	1.99E+00	3.47E+30	-1.17E+30	3.52E+00	4.55E+00	NA	NA	NA	
	013	37	15.6	7/25/2008	16:40	2.32E+03	3.77E+02	3.74E+02	3.02E-01	2.75E-01	4.42E-01	-1.77E+00	1.76E+00	2.53E+30	1.09E+00	1.76E+00	3.19E+00	NA	NA	NA	
	014	37	15.6	10/22/2008	14:55	3.14E+03	3.03E+02	5.91E+02	4.62E-01	5.15E-01	5.29E-01	-1.64E+00	5.07E+00	5.26E+30	-3.00E+30	4.93E+00	4.36E+00	NA	NA	NA	
	015	37	15.6	2/2/2009	18:02	1.41E+03	3.27E+02	1.97E+02	-1.78E-01	4.41E-01	6.54E-01	-1.41E+00	2.57E+00	2.67E+30	-1.27E+30	2.55E+00	2.57E+00	NA	NA	NA	
	016	37	15.6	4/23/2009	15:20	5.59E+03	9.50E+02	4.08E+02	2.63E-01	5.33E-01	6.38E-01	-4.68E-01	4.41E+00	2.94E+30	-1.42E+30	2.49E+00	2.48E+00	NA	NA	NA	
	017	37	15.6	7/24/2009	14:30	1.50E+03	3.50E+02	2.31E+02	5.09E-02	7.67E-01	9.17E-01	4.63E-01	5.22E+00	5.41E+30	1.22E+00	3.59E+00	4.48E+00	NA	NA	NA	
MW-45-61	001	58	-4.4	4/4/2006	17:00	2.98E+02	2.13E+02	2.23E+02	1.82E-01	5.03E-01	5.99E-01	8.62E+00	1.14E+01	1.32E+11	1.40E+00	1.32E+01	1.47E+0.	NA	NA	NA	MW-45-61
	002	58	-4.4	5/25/2005	9:10	1.71E+03	3.57E+02	2.37E+02	5.63E-01	9.81E-01	1.03E+00	7.76E-01	9.14E+00	1.02E+11	5.35E+00	1.26E+01	1.31E+0.	NA	NA	NA	
	003	58	-4.4	6/12/2005	11:00	1.02E+03	2.31E+02	1.56E+02	4.81E-01	5.83E-01	6.90E-01	-4.60E+00	5.63E+00	7.11E+30	9.33E-02	6.22E+00	7.59E+00	NA	NA	NA	
	004	58	-4.4	7/20/2005	12:50	3.72E102	1.03E102	1.60E102	0.00E100	1.30E100	1.59E100	-3.90E-01	5.03E100	5.30E100	1.33E100	3.90E100	5.02E100	NA	NA	NA	
	005	58	-4.4	9/11/2005	9:45	1.35E103	3.03E102	1.91E102	NA	NA	NA	6.43E100	2.17E100	1.14E101	-8.33E-01	9.20E100	9.75E100	NA	NA	NA	
	006	58	-4.4	9/13/2006	9:33	1.45E+03	3.09E+02	2.04E+02	NA	NA	NA	6.55E+00	7.21E+00	5.92E+30	3.06E+30	7.35E+00	6.87E+00	NA	NA	NA	
	007	58	-4.4	11-13-2006	11:20	9.57E+02	1.44E+02	1.46E+02	1.73E+00	7.50E-01	7.50E-01	-3.00E-01	4.50E+00	5.30E+30	-3.20E+30	4.50E+00	6.30E+00	2.50E+00	6.60E+00	7.30E+00	
	008	58	-4.4	6/21/2007	12:55	1.47E+03	3.49E+02	2.48E+02	-7.05E-02	7.47E-01	9.57E-01	3.92E+00	4.79E+00	3.52E+30	-7.21E-01	3.56E+00	3.69E+00	3.35E+00	1.49E+01	1.71E+01	
	009	58	-4.4	8/15/2007	11:55	1.50E+03	1.83E+02	1.41E+02	4.74E-02	7.90E-01	9.41E-01	3.33E+00	4.25E+00	4.03E+30	-6.51E-01	3.86E+00	3.59E+00	NA	NA	NA	
	010	58	-4.4	10/5/2007	11:30	2.15E+03	3.03E+02	1.52E+02	4.87E-01	5.23E-01	5.36E-01	-1.73E-01	1.43E+00	1.56E+30	6.59E-02	1.46E+00	1.62E+00	NA	NA	NA	
	011	58	-4.4	1/25/2008	11:55	2.66E+03	4.80E+02	2.96E+02	4.26E-01	5.76E-01	6.21E-01	2.42E+00	3.60E+00	2.52E+30	-2.05E-01	2.88E+00	3.19E+00	NA	NA	NA	
	012	58	-4.4	5/1/2008	10:16	2.21E+03	1.80E+02	1.95E+02	6.93E-01	4.96E-01	7.56E-01	3.16E-01	2.07E+00	3.55E+30	-1.29E+30	2.25E+00	3.53E+00	NA	NA	NA	
	013	58	-4.4	7/25/2008	13:51	1.60E+03	3.46E+02	3.76E+02	2.36E-01	2.45E-01	4.35E-01	-1.88E+00	1.91E+00	2.80E+30	7.83E-01	1.91E+00	3.40E+00	NA	NA	NA	
	014	58	-4.4	10/22/2008	9:33	1.27E+03	5.33E+02	5.90E+02	1.99E-01	5.82E-01	6.21E-01	-1.52E+00	5.07E+00	5.32E+30	1.04E+00	5.73E+00	6.58E+00	NA	NA	NA	
	015	58	-4.4	2/2/2009	13:13	1.36E+03	3.24E+02	1.95E+02	-1.47E-01	7.61E-01	9.47E-01	9.93E-01	3.59E+00	4.20E+30	2.30E-01	3.23E+00	3.66E+00	NA	NA	NA	
	016	58	-4.4	4/23/2009	10:20	1.46E+03	5.43E+02	4.05E+02	-1.37E-01	6.17E-01	8.36E-01	-4.72E-01	4.17E+00	2.78E+30	1.13E+00	2.54E+00	3.01E+00	NA	NA	NA	
	017	58	-4.4	7/24/2009	11:56	1.11E+03	2.93E+02	2.25E+02	1.01E-01	8.04E-01	9.52E-01	-5.29E-01	3.33E+00	3.65E+30	6.08E-01	3.24E+00	3.82E+00	NA	NA	NA	
MW-46	002	10.5	7.6	4/12/2005	17:15	1.58E103	2.81E102	1.76E102	6.24E-01	4.82E-01	4.39E-01	9.38E-01	2.98E100	2.51E100	-5.36E-01	2.57E100	2.88E100	NA	NA	NA	MW-46
	003	10.5	7.6	5/24/2005	12:55	9.10E102	1.71E103	6.35E102	5.07E-01	6.15E-01	7.47E-01	-7.06E-02	9.87E100	1.12E101	5.38E100	8.80E100	1.21E+0.	NA	NA	NA	
	003	10.5	7.6	5/24/2005	12:55	6.23E+02	2.24E+02	1.87E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004	10.5	7.6	6/13/2005	13:10	6.79E+01	1.80E+02	1.91E+02	3.40E-01	1.04E+00	1.33E+00	2.38E+00	7.23E+00	8.25E+30	-9.79E-01	8.23E+00	8.81E+00	NA	NA	NA	
	005	10.5	7.6	7/12/2005	13:23	7.05E102	3.30E102	1.92E102	5.77E-01	1.21E100	1.23E100	3.50E100	9.37E100	1.05E101	4.49E100	8.50E100	1.06E10.	NA	NA	NA	
	006	10.5	7.6	8/1/2006	9:40	1.15E+03	3.75E+02	1.95E+02	NA	NA	NA	1.15E+00	5.05E+00	6.52E+30	3.50E+30	5.34E+00	5.97E+00	NA	NA	NA	
	007	10.5	7.6	9/13/2006	13:15	1.47E+03	3.30E+02	2.19E+02	NA	NA	NA	3.73E-01	5.01E+00	6.95E+30	2.75E+00	7.27E+00	6.27E+00	NA	NA	NA	
	008	10.5	7.6	6/14/2007	13:50	3.43E+03	5.64E+02	2.95E+02	2.15E-01	4.65E-01	5.35E-01	3.06E-01	3.92E+00	4.37E+30	8.52E-02	3.55E+00	4.09E+00	-1.05E+00	1.52E+01	1.75E+01	
	009	10.5	7.6	8/1/2007	11:35	6.67E+03	3.50E+02	2.44E+02	1.89E-02	3.66E-01	4.49E-01	6.43E-01	3.57E+00	3.80E+30	6.38E-02	2.43E+00	2.77E+00	NA	NA	NA	
	010	10.5	7.6	10/22/2007	14:20	1.67E+03	3.27E+02	2.01E+02	2.17E-01	4.72E-01	5.44E-01	4.68E-01	2.97E+00	3.34E+30	-2.20E-01	2.24E+00	3.09E+00	NA	NA	NA	
	011	10.5	7.6	1/22/2008	12:19	5.49E+02	1.74E+02	1.70E+02	5.30E-01	7.71E-01	8.47E-01	-3.99E-01	2.64E+00	2.84E+30	1.73E+00	2.51E+00	3.11E+00	NA	NA	NA	
	012	10.5	7.6	4/29/2008	16:00	5.21E+02	1.53E+02	2.21E+02	4.10E-01	5.51E-01	5.54E-01	7.87E-01	2.12E+00	3.75E+30	-4.57E-01	2.24E+00	3.90E+00	NA	NA	NA	
	013	10.5	7.6	7/24/2008	16:56	7.71E+02	2.75E+02	3.77E+02	2.74E-01	3.07E-01	5.10E-01	6.05E-01	1.96E+00	3.36E+30	-1.89E+30	2.10E+00	3.09E+00	NA	NA	NA	
	014	10.5	7.6	10/20/2008	15:27	1.38E+03	5.44E+02	5.85E+02	5.33E-01	5.85E-01	5.91E-01	-2.27E+00	5.88E+00	5.91E+30	-5.88E-01	5.53E+00	6.09E+00	NA	NA	NA	
	015	10.5	7.6	2/5/2009	13:46	1.00E+03	2.88E+02	1.90E+02	-1.30E-01	6.23E-01	7.32E-01	-1.68E+00	2.78E+00	2.71E+30	7.02E-01	2.82E+00	3.28E+00	NA	NA	NA	
	016	10.5	7.6	4/10/2009	12:31	7.56E+02	2.07E+02	1.48E+02	-7.29E-02	5.46E-01	6.53E-01	9.83E-04	5.53E+00	3.72E+30	1.54E+00	3.58E+00	4.40E+00	NA	NA	NA	
	017	10.5	7.6	7/14/2009	13:57	8.32E+02	2.72E+02	2.30E+02	5.25E-01	7.99E-01	8.38E-01	-1.07E-01	3.07E+00	3.46E+30	2.37E+00	4.37E+00	4.55E+00	NA	NA	NA	
MW-47-56	002	53.2	17.1	4/13/2005	12:05	7.60E102	2.22E102	1.67E102	2.27E+00	7.65E-01	7.30E-01	8.27E-02	5.45E100	5.95E100	-4.55E-01	5.30E100	5.77E100	NA	NA	NA	MW-47-56
	003	53.2	17.1	7/18/2005	10:13	1.54E102	1.95E102	1.95E102	1.91E-01	1.47E+00	1.59E+00	5.40E+00	7.80E+00	9.34E+30	2.47E+00	1.24E+01	1.29E+0.	NA	NA	NA	
	004	53.2	17.1	6/20/2007	10:07	5.29E+02	1.95E+02	1.85E+02	5.93E-01	5.25E-01	5.10E-01	0.00E+00	5.66E+00	3.37E+30	3.57E+00	3.71E+00	4.73E+00	NA	NA	NA	
	004	53.2	17.1	6/20/2007	10:07	NA	NA	NA	NA	NA	NA	0.00E+00	4.28E+00	3.75E+30	1.63E+00	3.17E+00	3.79E+00	3.81E+00	1.32E+01	1.51E+01	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-47-56	005	53.2	17.1	8/10/2007	11:00	2.70E+02	1.83E+02	2.02E+02	5.07E-01	8.04E-01	8.91E-01	-3.84E-01	3.43E+00	3.75E+00	1.49E-01	2.94E+00	3.37E+00	NA	NA	NA	MW-47-56
MW-47-80	001	74	-3.7	4/13/2005	11:45	2.33E+03	4.23E+02	2.25E+02	2.73E+00	7.35E-01	6.53E-01	-5.82E-01	4.48E+00	5.14E+00	2.25E-01	3.91E+00	4.76E+00	NA	NA	NA	MW-47-80
	002	74	-3.7	7/18/2005	9:51	1.81E+03	3.81E+02	2.55E+02	2.86E+00	1.43E+00	1.74E+00	1.67E+00	1.05E+01	1.15E+01	2.59E+00	9.21E+00	1.09E+01	NA	NA	NA	
	003	74	-3.7	8/19/2007	11:00	2.36E+03	3.94E+02	3.52E+02	3.27E+00	8.98E-01	9.28E-01	2.05E+00	5.81E+00	6.58E+00	-2.27E+00	4.82E+00	5.92E+00	4.08E-01	1.18E+01	1.38E+01	
	004	74	-3.7	8/10/2007	12:21	3.51E+03	7.23E+02	4.52E+02	3.53E+00	1.21E+00	9.93E-01	-9.39E-02	3.21E+00	3.56E+00	-8.20E-02	3.18E+00	3.50E+00	NA	NA	NA	
MW-48-23	001	20.4	-5	2/8/2006	10:10	1.60E+02	3.26E+02	3.42E+02	1.93E-01	5.04E-01	5.94E-01	-2.14E+01	1.04E+01	1.13E+01	1.46E+00	9.95E+00	1.12E+01	NA	NA	NA	MW-48-23
	002	20.4	-5	4/12/2005	9:53	1.64E+02	4.03E+02	4.52E+02	-1.10E-01	3.90E-01	4.40E-01	3.25E+00	9.75E+00	1.22E+01	2.49E+00	7.47E+00	9.03E+00	NA	NA	NA	
	003	20.4	5	1/27/2005	13:42	2.38E+02	1.91E+02	2.02E+02	2.50E-02	4.58E-01	5.31E-01	1.88E+00	5.06E+00	5.65E+00	-1.19E-01	4.10E+00	5.27E+00	NA	NA	NA	
	004	20.4	5	5/23/2005	10:30	7.55E+02	1.26E+02	2.44E+02	3.42E-01	3.10E-01	3.22E+00	2.67E+00	7.13E+00	8.13E+00	4.29E+00	1.39E+01	9.62E+00	NA	NA	NA	
	005	20.4	-5	6/9/2006	11:15	6.03E+01	4.39E+02	6.24E+02	3.70E-01	3.60E-01	4.30E-01	2.59E+00	7.76E+00	9.90E+00	3.25E+00	9.74E+00	7.61E+00	1.60E+01	1.53E+01	2.62E+01	
	005	20.4	-5	6/9/2006	11:15	2.55E+02	4.14E+02	4.53E+02	3.10E-01	9.88E-01	1.26E+00	1.09E+00	5.21E+00	5.80E+00	3.08E+00	9.43E+00	5.96E+00	NA	NA	NA	
	005	20.4	-5	6/9/2006	11:15	7.37E+02	3.09E+02	1.56E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006	20.4	-5	7/6/2006	12:00	4.21E+02	4.17E+02	4.52E+02	-2.20E-01	4.20E-01	4.90E-01	2.55E+00	7.64E+00	5.45E+00	2.60E+00	7.79E+00	5.78E+00	NA	NA	NA	
	007	20.4	-5	8/8/2006	10:30	1.04E+02	1.63E+02	1.72E+02	7.00E-02	6.30E-01	7.20E-01	1.93E+00	4.76E+00	5.56E+00	1.99E+00	4.41E+00	5.37E+00	NA	NA	NA	
	008	20.4	-5	9/5/2006	10:05	2.44E+01	1.59E+02	1.72E+02	-6.00E-02	7.80E-01	8.50E-01	-2.90E+00	7.82E+00	8.12E+00	1.05E-01	8.58E+00	1.02E+01	NA	NA	NA	
	009	20.4	-5	11/22/2006	9:23	1.67E+02	4.03E+02	4.50E+02	-7.00E-02	6.30E-01	7.10E-01	3.91E+00	1.17E+01	8.71E+00	3.22E+00	9.57E+00	7.76E+00	NA	NA	NA	
	010	20.4	-5	2/9/2007	10:54	2.72E+02	1.63E+02	1.72E+02	-1.60E-01	1.53E+00	1.70E+00	3.70E-01	1.80E+00	2.00E+00	8.30E-01	2.27E+00	2.30E+00	NA	NA	NA	
	011	20.4	-5	8/16/2007	11:00	3.53E+02	1.64E+02	1.61E+02	-3.94E-01	5.69E-01	8.47E-01	1.66E+00	4.92E+00	5.56E+00	5.36E-01	3.03E+00	3.55E+00	NA	NA	NA	
MW-48-37	001	36	-20.6	2/10/2005	14:10	1.00E+01	4.26E+02	4.73E+02	NA	NA	NA	1.18E+00	3.54E+00	2.53E+00	2.07E+00	6.21E+00	4.39E+00	NA	NA	NA	MW-48-37
	002	36	-20.6	4/12/2005	10:00	-5.40E+01	4.02E+02	4.52E+02	2.10E-01	3.90E-01	4.30E-01	1.70E+00	5.09E+00	3.53E+00	3.34E+00	1.00E+01	6.89E+00	NA	NA	NA	
	003	36	-20.6	7/27/2005	13:20	-2.15E+02	1.77E+02	2.04E+02	-4.96E-02	3.79E-01	4.20E-01	7.56E+00	7.91E+00	1.01E+01	-3.11E-01	8.42E+00	9.20E+00	NA	NA	NA	
	004	36	-20.6	5/22/2005	10:00	1.39E+02	4.02E+02	4.44E+02	-1.20E-01	3.60E-01	4.10E-01	1.35E+00	4.05E+00	2.94E+00	2.31E+00	6.94E+00	5.00E+00	NA	NA	NA	
	005	36	-20.6	6/9/2006	11:30	1.66E+02	4.11E+02	4.53E+02	2.08E+00	4.50E-01	4.30E-01	2.40E+00	7.20E+00	4.95E+00	4.14E+00	1.24E+01	8.50E+00	4.38E+00	1.35E+01	3.46E+01	
	005	36	-20.6	6/9/2006	11:30	5.56E+02	1.38E+03	6.24E+02	1.03E-01	7.89E-01	1.03E+00	1.30E+00	3.71E+00	6.44E+00	-1.58E+00	5.25E+00	5.52E+00	NA	NA	NA	
	005	36	-20.6	6/9/2006	11:30	1.43E+02	1.67E+02	1.66E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006	36	-20.6	7/6/2006	13:45	1.47E+02	1.03E+02	1.53E+02	1.70E-01	8.10E-01	8.30E-01	2.10E+00	5.31E+00	4.44E+00	4.21E+00	1.26E+01	8.77E+00	NA	NA	NA	
	007	36	-20.6	8/8/2006	10:20	1.09E+01	1.53E+02	1.69E+02	6.00E-02	6.90E-01	7.30E-01	1.96E+00	5.63E+00	6.65E+00	2.95E-01	5.29E+00	5.93E+00	NA	NA	NA	
	008	36	-20.6	9/5/2006	10:20	5.73E+02	2.17E+02	1.75E+02	0.00E+00	6.90E-01	7.70E-01	-2.86E-01	5.59E+00	6.04E+00	1.60E+00	5.35E+00	6.37E+00	NA	NA	NA	
	009	36	-20.6	11/22/2006	9:34	2.62E+02	4.11E+02	4.50E+02	0.00E+00	6.30E-01	7.00E-01	1.60E+00	4.80E+00	3.39E+00	3.58E+00	1.07E+01	7.47E+00	NA	NA	NA	
	010	36	-20.6	2/9/2007	10:59	2.70E+01	1.65E+02	1.72E+02	-1.40E-01	1.38E+00	1.50E+00	-6.10E-01	1.26E+00	1.50E+00	-4.70E-01	1.38E+00	1.60E+00	NA	NA	NA	
	011	36	-20.6	8/16/2007	11:07	1.29E+02	1.59E+02	1.75E+02	4.11E-02	6.27E-01	7.34E-01	1.78E+00	4.33E+00	4.53E+00	-4.00E-01	4.51E+00	5.01E+00	NA	NA	NA	
MW-49-26	001	19.1	-4.4	3/22/2005	16:50	1.54E+04	2.81E+03	1.82E+03	1.84E+01	9.96E-01	4.29E-01	-5.28E-01	2.40E+00	1.02E+01	-1.35E+00	8.98E+00	9.69E+00	NA	NA	NA	MW-49-26
	003	19.1	-4.4	5/19/2005	14:55	9.40E+03	1.50E+03	4.96E+02	9.03E+00	9.40E-01	5.45E-01	2.65E+00	7.87E+00	9.05E+00	1.15E+00	5.99E+00	6.92E+00	NA	NA	NA	
	003	19.1	-4.4	5/19/2005	14:55	1.42E+04	5.75E+03	6.25E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004	19.1	-4.4	6/6/2006	9:55	1.40E+04	2.16E+03	4.95E+02	1.41E+01	1.17E+00	5.30E-01	6.14E+00	1.13E+01	1.41E+01	2.42E+00	1.02E+01	1.21E+01	NA	NA	NA	
	005	19.1	-4.4	7/7/2006	9:15	1.60E+04	2.06E+03	1.51E+03	1.26E+01	2.67E+00	1.51E+00	1.38E+00	3.43E+00	9.45E+00	-1.98E+00	8.42E+00	8.90E+00	NA	NA	NA	
	006	19.1	-4.4	8/1/2006	9:23	1.37E+04	1.13E+03	6.11E+02	NA	NA	NA	-5.93E+00	5.06E+00	4.56E+00	-3.05E+00	5.14E+00	4.31E+00	3.67E+01	3.09E+01	3.26E+01	
	007	19.1	-4.4	8/28/2006	12:40	1.10E+04	1.12E+03	6.02E+02	NA	NA	NA	-2.69E+00	2.42E+00	2.21E+00	-2.72E+00	4.78E+00	3.71E+00	NA	NA	NA	
	008	19.1	-4.4	11/15/2006	11:28	6.39E+03	1.38E+03	1.00E+03	1.55E+01	1.95E+00	7.70E-01	8.00E-01	3.00E+00	3.40E+00	-3.00E-01	4.20E+00	5.00E+00	8.40E+00	2.04E+01	2.20E+01	
	009	19.1	-4.4	6/26/2007	12:30	7.76E+03	3.43E+02	1.75E+02	1.27E+01	1.40E+00	7.13E-01	1.36E+00	2.51E+00	2.83E+00	-8.28E-01	2.23E+00	2.31E+00	-1.92E+00	1.28E+01	1.50E+01	
	010	19.1	-4.4	8/9/2007	11:17	6.72E+03	3.50E+02	4.62E+02	1.43E+01	2.16E+00	9.30E-01	4.69E-01	3.72E+00	4.23E+00	2.50E+00	3.51E+00	4.54E+00	7.23E-01	2.07E+01	2.42E+01	
	011	19.1	-4.4	1/28/2003	16:28	4.21E+03	5.76E+02	2.90E+02	2.29E+01	2.40E+00	0.52E-01	-1.19E+00	1.95E+00	2.07E+00	4.31E-01	1.97E+00	2.20E+00	5.16E+00	1.53E+01	1.75E+01	
	012	19.1	-4.4	4/25/2003	12:45	5.00E+03	3.13E+02	1.44E+02	1.81E+01	1.32E+00	5.59E-01	2.68E+00	2.36E+00	7.34E+00	2.08E+00	2.22E+00	4.74E+00	1.76E+00	1.19E+01	2.05E+01	
	013	19.1	-4.4	7/30/2003	15:03	3.56E+03	1.73E+02	1.30E+02	1.62E+01	1.27E+00	8.86E-01	-9.75E-01	1.74E+00	2.74E+00	1.31E+00	2.17E+00	3.93E+00	-2.81E+00	1.64E+01	2.92E+01	
	014	19.1	-4.4	11/5/2003	15:54	3.47E+03	4.55E+02	1.91E+02	1.53E+01	2.06E+00	6.10E-01	-1.36E+00	5.03E+00	5.26E+00	-3.17E-01	4.55E+00	5.18E+00	2.96E+00	1.77E+01	2.00E+01	
	015	19.1	-4.4	2/6/2004	13:03	3.10E+03	2.66E+02	1.69E+02	1.38E+01	1.91E+00	8.59E-01	1.77E+00	4.34E+00	4.54E+00	1.26E+00	3.56E+00	4.24E+00	2.31E+01	2.21E+01	2.42E+01	
	016	19.1	-4.4	5/6/2009	10:46	3.20E+03	4.03E+02	1.80E+02	1.50E+01	1.85E+00	4.90E-01	2.93E+00	7.91E+00	5.27E+00	2.01E-01	3.78E+00	4.33E+00	7.21E-01	1.67E+01	1.91E+01	
	017	19.1	-4.4	8/7/2009	10:50	3.56E+03	2.97E+02	1.75E+02	1.23E+01	1.64E+00	6.79E-01	-9.22E-01	3.27E+00	3.47E+00	-1.44E+00	3.56E+00	3.60E+00	4.77E+00	1.95E+01	2.22E+01	
MW-49-42	001	38.1	-23.4	3/22/2005	16:45	1.13E+04	2.55E+03	1.83E+03	1.94E+01	1.04E+00	4.30E-01	3.30E+00	1.19E+01	1.32E+01	-4.57E+00	1.11E+01	1.14E+01	NA	NA	NA	MW-49-42
	003	38.1	-23.4	5/19/2005	15:07	8.83E+03	5.33E+03	6.25E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	38.1	-23.4	5/19/2005	15:07	9.39E+03	1.49E+03	4.96E+02	1.20E+01	9.57E-01	4.54E-01	2.16E+00	1.39E+01	1.56E+01	3.96E+00	1.40E+01	1.63E+01	NA	NA	NA	
	004	38.1	-23.4	6/6/2006	10:10	8.28E+03	1.32E+03	3.86E+02	1.63E+01	1.27E+00	5.57E-01	2.88E+00	1.37E+01	1.58E+01	-1.26E+00	1.37E+01	1.13E+01	NA	NA	NA	
	005	38.1	-23.4	7/7/2006	9:15	5.65E+03	1.82E+03	1.52E+03	1.92E+01	3.23E+00	1.49E+00	2.01E+00	1.14E+01	1.30E+01	-1.61E+00	1.06E+01	1.11E+01	NA	NA	NA	
	006	38.1	-23.4	8/1/2006	9:43	8.80E+03	2.63E+02	6.16E+02	NA	NA	NA	-4.22E+00	9.33E+00	8.64E+00	-1.94E+00	8.78E+00	8.99E+00	8.06E+00	9.86E+00	1.05E+01	
	007	38.1	-23.4	8/28/2006	12:40	8.69E+03	2.57E+02	6.11E+02	NA	NA	NA	-8.31E+00	1.05E+01	1.16E+01	-6.74E+00	9.40E+00	6.38E+00	NA	NA	NA	
	008	38.1	-23.4	11/15/2006	14:21	6.19E+03	1.53E+03	1.00E+03	2.11E+01	2.46E+00	8.10E-01	-6.60E-01	2.25E+00	2.65E+00	1.18E+00	2.34E+00	2.60E+00	2.60E+00	2.70E+00	2.62E+00	
	009	38.1	-23.4	6/26/2007	12:30	4.44E+03	2.90E+02	1.86E+02	2.08E+01	1.65E+00	6.22E-01	-3.62E-01	4.56E+00	4.32E+00	-2.09E+00	3.56E+00	3.34E+00	-5.19E+00	1.30E+01	1.54E+01	
	010	38.1	-23.4	8/9/2007	12:05	4.30E+03	7.91E+02	4.55E+02	2.56E+01	2.77E+00	8.29E-01	-1.17E+00	3.27E+00	3.37E+00	2.77E+00	3.52E+00	4.56E+00	4.03E-01	2.10E+01	2.42E+01	
	011	38.1	-23.4	1/28/2003	15:49	2.01E+03	4.92E+02	2.90E+02	2.94E+01	2.57E+00	5.50E-01	0.03E-01	2.10E+00	2.42E+00	6.96E-01	2.13E+00	2.52E+00	5.79E+00	1.73E+01	1.99E+01	
	012	38.1	-23.4	4/25/2003	12:38	3.20E+03	3.54E+02	1.44E+02	2.33E+01	1.49E+00	5.31E-01	4.07E-01	1.83E+00	3.18E+00	5.91E-01	2.37E+00	4.13E+00	1.63E+00	1.17E+01	2.04E+01	
	013	38.1	-23.4	7/30/2003	15:06	2.52E+03	1.43E+02	1.30E+02	2.16E+01	1.41E+00	6.59E-01	4.49E-01	1.59E+00	2.75E+00	7.96E-01	1.70E+00	3.09E+00	2.73E+00	1.59E+01	2.84E+01	
	014	38.1	-23.4	11/5/2003	14:31	2.54E+03	4.04E+02	1.93E+02	2.16E+01	2.50E+00	7.31E-01	-1.17E+00	5.33E+00	6.92E+00	-1.93E+00	8.10E+00	7.46E+00	4.70E+00	1.84E+01	2.06E+01	
	015	38.1	-23.4	2/6/2004	12:55	2.40E+03	1.70E+02	2.07E+01	2.37E+01	9.73E-01	1.88E+00	3.51E+00	6.09E+00	7.38E+00	-2.43E+00	3.38E+00	4.11E+00	-2.15E+00	9.15E+01	2.48E+01	
	016	38.1	-23.4	5/6/2009	14:27	2.50E+03	3.63E+02	1.75E+02	1.75E+01	2.04E+00	4.71E-01	1.31E+00	7.23E+00	6.83E+00	1.78E-01	4.17E+00	4.49E+00	-7.29E+00	1.67E+01	1.94E+01	
	017	38.1	-23.4	8/7/2009	10:55	2.68E+03	2.69E+02	1.75E+02	1.75E+01	1.92E+00	6.96E-01	-3.65E-01	3.43E+00	3.75E+00	5.35E-01	3.35E+00	3.95E+00	-7.87E+00	1.49E+01	1.75E+01	
MW-49-65	001	60	-45.4	3/22/2005	16:55	5.43E+03	2.13E+03	1.82E+03	1.85E+01	1.01E+00	4.13E-01	1.36E+00	1.43E+01	1.72E+01	5.51E+00	1.37E+01	1.81E+01	NA	NA	NA	MW-49-65
	003	60	-45.4	5/19/2005	15:55	5.70E+03	2.38E+02	3.84E+02	1.13E+01	8.96E-01	4.28E-01	-2.86E+00	3.51E+00	3.67E+00	-1.43E-01	9.39E+00	1.03E+01	NA	NA	NA	
	003	60	-45.4	5/19/2005	15:55	5.75E+03	4.30E+03	6.25E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004	60	-45.4	6/6/2006	10:40	4.32E+03	7.20E+02	2.88E+02	1.72E+01	1.30E+00	6.17E-01	4.52E+00	1.41E+01	1.63E+01	4.24E+00	1.28E+01	1.52E+01	NA	NA	NA	
	005	60	-45.4	7/7/2006	9:10	4.63E+03	1.73E+03	1.52E+03	1.56E+01	3.24E+00	1.86E+00	-2.76E+00	5.49E+00	6.88E+00	1.84E+00	6.45E+00	7.36E+00	NA	NA	NA	
	006	60	-45.4	8/1/2006	10:00	5.76E+03	3.43E+02	6.14E+02	NA	NA	NA	-1.10E+00	5.84E+00	7.46E+00	-6.55E-01	8.18E+00	9.78E+00	5.75E+00	1.06E+01	1.15E+01	
	007	60	-45.4	8/28/2005	12:35	5.54E+03	3.40E+02	6.16E+02	NA	NA	NA	-4.07E+00	9.28E+00	9.06E+00	-1.27E+00	7.42E+00	7.60E+00	NA	NA	NA	
	008	60	-45.4	11/15/2006	13:46	3.14E+03	1.20E+03	1.00E+03	1.92E+01	2.31E+00	8.40E-01	2.12E+00	2.61E+00	2.85E+00	3.00E-01	2.27E+00	2.40E+00	-1.80E+00	6.90E+00	7.70E+00	
	009	60	-45.4	6/26/2007	12:30	2.62E+03	2.45E+02	1.85E+02	1.58E+01	1.58E+00	8.28E-01	-1.36E-03	3.06E+00	3.38E+00	-3.59E+00	4.30E+00	2.75E+00	-7.43E+00	1.4.E+01	1.68E+01	
	0.0	60	-45.4	8/9/2007	11:20	2.41E+03	3.42E+02	4.60E+02	2.08E+01	2.40E+00	9.11E-01	3.44E-01	2.76E+00	3.13E+00	1.65E+00	3.03E+00	3.73E+00	3.50E+00	2.14E+01	2.45E+01	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-49-65	01	60	-45 4	1/28/2008	16 52	1 85E+03	4 22E+02	2 95E+02	2 733+01	2 79E+00	6 29E-01	2 83E+00	3 72E+00	3 81E+30	-1 63E+30	3 17E+00	3 09E+00	1 01E+01	1 95E+01	2 20E+01	MW-49-65
	02	60	-45 4	4/25/2008	13 13	1 53E+03	1 86E+02	1 9CE+02	1 903+01	6 62E-01	3 54E-01	-8 45E-02	1 93E+00	3 28E+30	-: 40E-01	2 29E+00	3 84E+00	6 81E+00	9 59E+00	1 62E+01	
	03	60	-45 4	//30/2008	13 58	1 56E+03	1 23E+02	1 3CE+02	1 78E+01	1 29E+00	5 51E-01	-4 7?E-01	2 20E+00	5 65E+30	8 42E-02	2 32E+00	5 39E+00	-6 55E+00	1 67E+01	2 96E+01	
	04	60	-45 4	11/5/2008	14 43	1 26E+03	3 02E+02	1 92E+02	1 72E+01	2 23E+00	5 97E-01	-4 96E+00	5 60E+00	6 62E+30	2 51E+00	6 11E+00	7 41E+00	8 42E-01	1 80E+01	2 0CE+01	
	05	60	-45 4	2/6/2009	9 59	1 42E+03	2 10E+02	1 7CE+02	1 733+01	2 10E+00	9 13E-01	-9 ?3E-01	2 96E+00	3 2CE+30	7 61E-01	2 54E+00	3 21E+00	2 70E+00	2 22E+01	2 54E+01	
	06	60	-45 4	5/6/2009	15 18	1 54E+03	2 83E+02	1 8CE+02	1 283+01	1 79E+00	7 13E-01	1 40E-01	4 37E+00	2 91E+30	-3 07E-01	2 99E+00	3 02E+00	-1 93E+00	1 79E+01	2 05E+01	
	07	60	-45 4	8/7/2009	12 40	1 64E+03	2 33E+02	1 9CE+02	1 243+01	1 62E+00	7 16E-01	5 00E-01	3 13E+00	2 54E+30	5 17E-01	3 29E+00	3 7CE+00	-3 20E+00	1 06E+01	2 15E+01	
MW-50-42	001	42	27 1	3/22/2005	14 25	9 75E+03	5 73E+02	2 14E+02	1 933+01	1 12E+00	1 76E-01	1 36E+00	2 90E+00	1 12E+31	5 7?E-01	8 55E+00	1 02E+0:	4 01E+00	1 34E+01	1 46E+01	MW-50-42
	003	42	27 1	5/19/2005	13 55	4 59E+03	7 71E+02	3 5?E+02	1 955+01	1 25E+00	1 7?E-01	1 64E+00	3 95E+00	1 15E+31	? 0?E-01	9 17E+00	1 02E+0:	NA	NA	NA	
	003	42	-27 1	5/19/2005	13 55	4 59E+03	3 84E+03	6 3CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004	42	-27 1	6/7/2006	9 01	1 79E+03	1 89E+02	1 5CE+02	3 947+00	7 67E-01	6 3CE-01	1 15E-01	7 81E+00	8 65E+30	-1 7CE+30	7 37E+00	7 69E+00	NA	NA	NA	
	005	42	-27 1	7/3/2006	11 35	3 58E+02	2 13E+02	2 0?E+02	3 452+00	2 00E+00	1 65E+00	6 90E+00	1 38E+01	1 65E+31	4 75?+00	1 34E+01	1 30E+0:	NA	NA	NA	
	006	42	-27 1	8/1/2006	11 20	1 41E+03	5 42E+02	6 14E+02	NA	NA	NA	8 59E+00	1 01E+01	1 33E+31	6 21?+00	9 26E+00	1 24E+0:	1 12E+01	1 53E+01	1 64E+01	
	007	42	-27 1	8/28/2005	11 50	3 11E+02	1 89E+02	1 7CE+02	NA	NA	NA	1 97E+00	5 84E+00	6 74E+30	3 493+00	6 36E+00	7 93E+00	NA	NA	NA	
	008	42	-27 1	11/15/2006	11 50	1 70E+03	1 11E+03	1 0CE+03	1 132+01	1 56E+00	8 30E-01	7 20E+00	4 20E+00	4 3CE+30	-9 0?E-01	3 30E+00	3 80E+00	-1 20E+00	6 00E+00	6 7CE+30	
	009	42	-27 1	6/26/2007	14 30	2 15E+02	1 71E+02	1 8CE+02	1 162+01	1 35E+00	7 54E-01	1 91E+00	4 44E+00	5 12E+30	-1 64E+30	4 29E+00	3 94E+00	-6 30E+00	1 84E+01	2 19E+31	
	010	42	-27 1	7/26/2007	11 20	1 45E+02	1 74E+02	1 93E+02	1 942+01	1 81E+00	5 31E-01	-5 50E+00	4 71E+00	5 66E+30	2 532+00	3 39E+00	4 32E+00	4 92E+00	1 9?E+01	2 19E+31	
	011	42	-27 1	10/18/2007	14 C8	1 C1E+02	1 76E+02	1 97E+02	2 452+01	2 52E+00	5 74E-01	3 02E-01	3 33E+00	3 87E+30	6 26E-C1	3 75E+00	3 81E+00	-9 14E-01	1 62E+01	1 87E+31	
	013	42	-27 1	2/26/2008	12 19	6 13E+02	2 94E+02	2 87E+02	2 402+00	8 61E-01	7 34E-01	-1 95E+00	4 80E+00	4 66E+30	1 77?+00	3 90E+00	4 68E+00	1 71E+01	2 40E+01	2 67E+31	
	014	42	-27 1	7/31/2008	15 43	3 73E+02	1 34E+02	1 91E+02	9 283+00	8 66E-01	4 39E-01	-9 40E-01	1 99E+00	3 2CE+30	9 53E-C1	1 91E+00	3 44E+00	1 58E+01	1 76E+01	2 9CE+31	
	015	42	-27 1	11/6/2008	10 44	1 29E+02	1 76E+02	1 92E+02	2 263+00	9 8?E-01	6 35E-01	1 65E+00	4 98E+00	2 7?E+30	5 18E-C1	5 56E+00	6 7?E+00	0 00E+00	1 76E+01	2 02E+31	
	016	42	-27 1	1/22/2009	15 23	2 15E+02	1 33E+02	1 4CE+02	1 963+00	8 0?E-01	6 31E-01	-1 74E+00	2 43E+00	2 37E+30	-5 18E-01	2 31E+00	2 39E+00	-3 34E+00	1 74E+01	2 03E+31	
	017	42	-27 1	5/5/2009	14 11	3 52E+02	1 9?E+02	1 72E+02	2 383+00	8 9?E-01	6 9?E-01	5 89E-01	3 20E+00	6 13E+30	-2 5CE+30	5 75E+00	5 7?E+00	-9 99E+00	2 0?E+01	2 42E+31	
	018	42	-27 1	8/7/2009	13 13	1 0CE+03	2 0?E+02	1 75E+02	5 333+00	1 2?E+00	7 23E-01	-7 54E-02	3 06E+00	5 14E+30	3 08E-C1	3 27E+00	3 73E+00	-1 25E+01	1 64E+01	1 94E+31	
MW-50-66	001	60	-45 1	3/22/2005	14 50	6 61E+03	4 04E+02	2 12E+02	2 552+01	1 21E+00	4 20E-01	-7 67E+00	1 60E+01	1 66E+31	-? 1?E+30	1 50E+01	1 01E+0:	5 33E+00	1 35E+01	1 47E+01	MW-50-66
	003	60	-45 1	5/19/2005	15 20	1 08E+04	5 90E+03	6 3CE+02	NA	NA	NA	3 33E+00	1 06E+01	1 23E+31	7 78E-C1	1 12E+01	1 25E+0:	NA	NA	NA	
	003	60	-45 1	5/19/2005	15 20	9 61E+03	1 52E+03	4 94E+02	1 952+01	1 22E+00	5 16E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004	60	-45 1	6/7/2006	9 21	1 05E+04	1 63E+03	4 2?E+02	1 987+01	1 18E+00	4 6?E-01	-1 97E+00	3 71E+00	9 8?E+30	2 497+00	8 9?E+00	1 04E+0?	NA	NA	NA	
	005	60	-45 1	7/3/2006	11 C0	8 62E+03	2 00E+03	1 52E+03	2 533+01	3 79E+00	1 67E+00	-2 04E+00	9 54E+00	1 02E+31	4 40E-C1	8 34E+00	9 23E+00	NA	NA	NA	
	006	60	-45 1	8/1/2006	9 23	7 93E+03	9 36E+02	6 1?E+02	NA	NA	NA	5 9?E-01	5 98E+00	6 6?E+30	-4 31E+30	6 18E+00	5 00E+00	1 0?E+01	1 0?E+01	1 1?E+01	
	007	60	-45 1	8/28/2005	12 C5	6 77E+03	1 59E+03	1 3CE+03	NA	NA	NA	7 6?E-02	4 67E+00	5 8?E+30	1 342+00	4 23E+00	5 88E+00	NA	NA	NA	
	008	60	-45 1	11/15/2006	10 37	5 C5E+03	1 32E+03	1 0CE+03	2 153+01	2 34E+00	8 10E-01	2 0?E-01	3 30E+00	3 7CE+30	2 603+00	3 30E+00	3 50E+00	1 50E+00	5 70E+00	6 3CE+30	
	009	60	-45 1	6/26/2007	14 C2	4 21E+03	2 83E+02	1 8CE+02	2 933+01	1 86E+00	5 25E-01	-2 ?9E+00	2 64E+00	2 45E+30	1 63E-C1	2 36E+00	2 74E+00	-6 05E-01	1 50E+01	1 74E+01	
	010	60	-45 1	7/26/2007	11 25	4 50E+03	3 39E+02	2 04E+02	3 103+01	2 50E+00	5 78E-01	-1 ?2E+00	4 54E+00	4 1?E+30	1 08E-C2	3 46E+00	3 94E+00	1 93E+01	1 86E+01	2 02E+31	
	011	60	-45 1	10/18/2007	14 38	3 E5E+03	5 53E+02	3 62E+02	4 743+01	3 72E+00	7 9?E-01	-2 28E+00	4 61E+00	4 3CE+30	1 653+00	4 20E+00	4 9?E+00	-3 ?1E+00	1 58E+01	1 83E+31	
	013	60	-45 1	2/26/2008	13 46	3 74E+03	7 93E+02	5 31E+02	3 583+01	2 36E+00	7 40E-01	7 67E-01	2 69E+00	3 1?E+30	2 54E-C1	2 54E+00	2 9?E+00	4 67E+00	1 86E+01	2 12E+31	
	014	60	-45 1	5/12/2008	15 40	2 60E+03	2 39E+02	1 64E+02	3 383+01	1 85E+00	7 01E-01	7 06E-01	2 24E+00	2 87E+30	1 233+00	2 13E+00	3 83E+00	7 86E+00	1 28E+01	2 1?E+31	
	015	60	-45 1	//31/2008	11 U2	2 71E+03	2 42E+02	1 9?E+02	3 40?+01	1 9?E+00	4 3?E-01	2 ?1E+00	1 82E+00	1 4?E+30	6 64E-C1	1 48E+00	2 68E+00	3 38E+00	1 40E+01	2 43E+31	
	017	60	-45 1	9/8/2008	16 21	2 08E+03	4 1?E+02	2 04E+02	3 233+01	1 66E+00	4 38E-01	-8 81E-01	2 69E+00	3 9?E+30	NA	NA	NA	1 22E+01	1 23E+01	2 0?E+31	
	018	60	-45 1	11/6/2008	12 38	2 73E+03	4 1?E+02	1 9?E+02	3 203+01	3 00E+00	7 41E-01	-8 66E-01	3 9?E+00	6 3?E+30	-2 52E+30	8 9?E+00	8 43E+00	-1 63E+00	2 0?E+01	2 3?E+31	
	019	60	-45 1	11/19/2008	16 29	2 43E+03	3 49E+02	1 7?E+02	4 992+01	3 75E+00	8 5?E-01	2 50E+00	5 20E+00	2 61E+30	5 13E-C1	2 70E+00	3 7?E+00	-5 0?E-01	1 9?E+01	2 2?E+31	
	020	60	-45 1	1/22/2009	16 C1	2 30E+03	3 1?E+02	1 4?E+02	2 752+01	2 2?E+00	4 7?E-01	-1 6?E+00	4 20E+00	2 9?E+30	-: 9?E-01	3 32E+00	3 6?E+00	-9 33E+00	1 0?E+01	2 2?E+31	
	021	60	-45 1	3/18/2009	15 16	3 13E+03	7 02E+02	3 8?E+02	2 422+01	2 5?E+00	9 13E-01	1 9?E-02	5 75E+00	3 83E+30	9 3?E-01	3 56E+00	3 65E+00	1 55E+00	1 7?E+01	2 9?E+31	
	022	60	-45 1	5/5/2009	16 33	3 45E+03	4 3?E+02	1 7?E+02	2 822+01	2 33E+00	6 13E-01	-4 5?E+00	3 9?E+00	5 9?E+30	-6 2?E-03	5 8?E+00	6 54E+00	-1 93E+00	1 8?E+01	2 1?E+31	
	023	60	-45 1	8/7/2009	16 12	3 0?E+03	3 9?E+02	1 7?E+02	2 917+01	2 5?E+00	9 11E-01	2 0?E-01	3 3?E+00	3 8?E+30	7 0?E-C1	3 9?E+00	4 :?E+00	-1 5?E+01	1 8?E+01	2 1?E+31	
MW-51-40	001	39 7	28	5/30/2007	11 45	1 9?E+02	1 6?E+02	1 6?E+02	-5 30E-01	6 7?E-01	9 3?E-01	1 04E-01	3 43E+00	3 7?E+30	1 61?+00	3 7?E+00	3 7?E+00	NA	NA	NA	MW-51-40
	002	39 7	28	7/24/2007	15 30	2 23E+02	1 5?E+02	1 6CE+02	7 09E-C2	4 71E-01	5 38E-01	1 6?E-02	3 39E+00	3 8?E+30	-1 32E+30	4 02E+00	4 :3E+00	NA	NA	NA	
	004	39 7	28	11/9/2007	15 40	1 47E+02	1 5?E+02	1 7CE+02	-8 16E-02	3 87E-01	4 52E-01	1 68E+00	2 96E+00	3 52E+30	-5 7?E-02	3 1?E+00	3 49?+00	NA	NA	NA	
	005	39 7	28	1/8/2008	10 47	5 6?E+01	1 5?E+02	1 7?E+02	1 57E-C1	6 7?E-01	8 82E-01	1 83E-02	2 6?E+00	2 9?E+30	7 71E-C1	2 7?E+00	2 87E+00	NA	NA	NA	
	007	39 7	28	5/30/2008	10 27	1 41E+02	1 0?E+02	1 6CE+02	3 71E-C1	5 6?E-01	9 5?E-01	3 19E-01	2 03E+00	3 41E+30	2 18?+00	2 3?E+00	3 5?E+00	NA	NA	NA	
	008	39 7	28	8/8/2008	14 40	3 29E+02	1 6?E+02	2 0?E+02	3 74E-C1	4 0?E-01	6 7?E-01	1 5?E+00	2 1?E+00	3 9?E+30	-: 9?E-01	1 7?E+00	2 9?E+00	-8 33E+00	1 0?E+01	1 8?E+01	
	009	39 7	28	10/27/2008	13 11	1 6?E+02	1 8?E+02	1 9?E+02	1 84E-C2	4 2?E-01	5 5?E-01	4 ?1E-01	4 2?E+00	4 8?E+30	-1 93E+30	6 3?E+00	6 5?E+00	-5 03E+00	2 1:E+01	2 4?E+31	
	010	39 7	28	1/20/2009	14 50	2 3?E+01	1 6?E+02	1 9?E+02	1 92E-C1	7 9?E-01	9 7?E-01	9 6?E-01	2 8?E+00	3 2?E+30	1 05?+00	2 7?E+00	3 3?E+00	8 9?E+00	1 6?E+01	1 8?E+31	
	011	39 7	28	5/7/2009	14 27	2 C3E+02	1 7?E+02	1 8?E+02	1 02E-C1	6 8?E-01	8 2?E-01	1 1?E+00	7 0?E+00	4 7?E+30	-1 14E+30	5 0?E+00	5 0?E+00	-1 0?E+00	1 8?E+01	2 1?E+31	
	012	39 7	28	8/12/2009	13 42	2 6?E+02	1 0?E+02	1 7?E+02	6 59E-C2	6 9?E-01	9 3?E-01	2 9?E-01	5 3?E+00	3 ?1E+30	1 00?+00	3 ?1E+00	3 5?E+00	-9 5?E+00	1 9?E+01	2 2?E+31	
MW-51-79	001	78 7	-11	5/30/2007	12 42	9 8?E+01	1 5?E+02	1 7?E+02	-2 36E-01	6 9?E-01	9 3?E-01	2 0?E-01	3 6?E+00	3 9?E+30	3 5?E-C1	3 ?1E+00	3 ?6?+00	NA	NA	NA	MW-51-79
	002	78 7	-11	7/24/2007	17 C0	4 24E+01	1 4?E+02	1 6?E+02	8 02E-C3	3 3?E-01	6 1?E-01	-6 37E-01	3 8?E+00	4 2?E+30	-2 8?E-01	4 ?1E+00	4 9?E+00	NA	NA	NA	
	004	78 7	-11	11/9/2007	16 18	5 C0E+01	1 5?E+02	1 7?E+02	-4 9?E-02	2 9?E-01	3 2?E-01	2 0?E+00	2 9?E+00	3 5?E+30	-2 43E-01	4 2?E+00	4 4?E+00	NA	NA	NA	
	005	78 7	-11	1/8/2008	10 C0	9 2?E+01	1 5?E+02	1 7?E+02	-4 6?E-01	7 0?E-01	9 7?E-01	-7 9?E-01	2 2?E+00	2 4?E+30	2 5?E-C1	2 3?E+00	2 7?E+00	NA	NA	NA	
	007	78 7	11	5/30/2008	10 55	6 9?E+01	1 4?E+02	1 6?E+02	2 46E-C2	4 9?E-01	9 9?E-01	1 ?4E+00	3 4?E+00	4 0?E+30	5 1?E-01	2 7?E+00	4 ?1E+00	NA	NA	NA	
	008	78 7	11	8/8/2008	12 55	1 6?E+02	1 3?E+02	2 0?E+02	2 03E-C1	2 9?E-01	5 1?E-01	9 6?E-01	2 1?E+00	3 8?E+30	5 6?E-C1	2 3?E+00	3 9?E+00	1 0?E+01	1 9?E+01	1 9?E+31	
	009	78 7	-11	10/27/2008	13 30	1 1?E+01	1 6?E+02	1 9?E+02	3 14E-C3	6 1?E-01	7 3?E-01	8 4?E-01	5 0?E+00	5 7?E+30	2 413+00	5 2?E+00	6 3?E+00	3 7?E+00	1 7?E+01	2 0?E+31	
	010	78 7	-11	1/20/2009	15 51	1 C1E+02	1 3?E+02	1 4?E+02	-: 7?E-01	3 1?E-01	5 0?E-01	5 9?E-01	1 6?E+00	2 1?E+30	-2 9?E-01	3 2?E+00	3 5?E+00	1 5?E+01	1 7?E+01	2 0?E+31	
	011	78 7	-11	5/7/2009	15 10	6 1?E+01	1 5?E+02	1 8?E+02	6 97E-C1	7 5?E-01	8 2?E-01	5 1?E-01	7 6?E+00	5 1?E+30	5 1?E-01	6 9?E+00	6 9?E+00	-6 4?E+00	1 7?E+01	2 0?E+31	
	012	78 7	-11	8/12/2009	11 11	1 5?E+02	1 6?E+02	1 8?E+02	7 34E-C2	4 5?E-01	5 3?E-01	-4 ?6E-01	4 8?E+00	4 3?E+30	-1 34E+30	4 2?E+00	4 2?E+00	-1 ?3E+01	1 8?E+01	2 1?E+31	
MW-51-104	001	103 7	-36	5/30/2007	11 C5	5 7?E+01	1 4?E+02	1 7?E+02	-6 7?E-02	7 5?E-01	9 0?E-01	1 2?E+00	3 2?E+00	3 3?E+30	1 70?-C2	3 2?E+00	3 6?E+00	NA	NA	NA	MW-51-104
	002	103 7	-36	7/24/2007	17 C6	9 C?E+01	1 4?E+02	1 6?E+02	3 62E-C1	4 8?E-01	5 4?E-01	-4 20E+00	4 6?E+00	3 9?E+30	1 42?+00	4 4?E+00	5 3?E+00	NA	NA	NA	
	004	103 7	-36	11/9/2007	14 35	5 1?E+01	1 5?E+02	1 7?E+02	-2 40E-01	3 1?E-01	3 6?E-01	-1 26E+00	2 8?E+00	2 9?E+30	1 15?+00	2 5?E+00	3 1?E+00	NA	NA	NA	
	005	103 7	-36	1/8/2008	12 15	-4 84E+00	1 4?E+02	1 7?E+02	-6 19E-02	7 2?E-01	9 3?E-01	-9 3?E-01	2 0?E+00	2 2?E+30	-3 8?E-01	2 5?E+00	2 5?E+00	NA	NA	NA	
	006	103 7	-36	8/8/2008	10 50	2 8?E+02	1 5?E+02	2 0?E+02	-2 6?E-01	4 0?E-01	7 9?E-01	1 5?E+00	2 0?E+00	3 6?E+30	-: 2?E-01	2 9?E+00	3 3?E+00	-4 :9E+00	1 3?E+01	2 3?E+31	
	007	103 7	-36	10/27/2008	10 C7	1 2?E+02	1 3?E+02	1 4?E+02	1 19E-C1	4 9?E-01	6 1?E-01	5 6?E+00	5 8?E+00	8 5?E+30	-5 7?E+30	8 9?E+00	8 2?E+00	-1 0?E+00	1 8?E+01	2 1?E+31	
	008	103 7	-36	1/20/2009	10 46	9 5?E+01	1 3?E+02	1 4?E+02	9 07E-C3	3 7?E-01	5 3?E-01	-1 33E+00	2 8?E+00	3 0?E+30	-1 01E+30	2 8?E+00	2 4?E+00	-2 0?E+00	2 0?E+01	2 3?E+31	
	009	103 7	-36	5/7/2009	11 48	1 11E+02	1 6?E+02	1 7?E+02	-: 2?E-01	6 5?E-01	7 9?E-01	-8 ?2E-01	5 7?E+00	2 8?E+30	4 6?E-C1	5 3?E+00	4 0?E+00	-1 2?E+01	2 5?E+01	2 7?E+31	
	010	103 7	-36	8/12/2009	11 14	2 5?E+02	1 7?E+02	1 8CE+02	1 27E-C1	3 6?E-01	4 3?E-01	8 0?E-01	5 5?E+00	3 8?E+30	1 09E-C1	3 9?E+00	4 3?E+00	-2 4?E+00	1 8?E+01	2 1?E+31	
MW-5: -135	001	135 2	-67 5	5/30/2007	13 C0	8 84E+01	1 5?E+02	1 7CE+02	-4 6?E-01	5 5?E-01	8 4?E-01	-4 01E-01	3 6?E+00	4 0?E+30	2 5?3+00	3 8?E+00	4 4?E+00	NA	NA	NA	MW-51-135

See Page 20 for Notes

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-51-135	002	135.2	-67.5	7/24/2007	12:40	9.51E+01	1.43E+02	1.55E+02	5.33E-02	5.04E-01	5.76E-01	-4.56E-01	4.07E+00	4.36E+00	3.42E-01	3.30E+00	3.84E+00	NA	NA	NA	MW-51-135
	004	135.2	-67.5	11/9/2007	11:55	9.63E+01	1.53E+02	1.72E+02	-2.42E-01	2.54E-01	3.18E-01	-7.27E-01	3.46E+00	3.76E+00	-3.14E-01	3.29E+00	3.66E+00	NA	NA	NA	
	005	135.2	-67.5	1/8/2008	13:20	4.51E+01	1.55E+02	1.81E+02	5.47E-02	7.04E-01	8.79E-01	6.20E-02	1.88E+00	2.05E+00	1.45E-02	1.71E+00	1.90E+00	NA	NA	NA	
	006	135.2	-67.5	8/8/2008	11:50	2.09E+02	1.59E+02	1.95E+02	5.09E-02	2.40E-01	4.37E-01	-1.03E+00	2.08E+00	2.25E+00	1.01E-02	2.31E+00	2.34E+00	-6.38E+00	1.14E+01	2.02E+01	
	007	135.2	-67.5	10/27/2008	10:05	7.68E+01	1.73E+02	1.95E+02	2.72E-04	5.03E-01	6.53E-01	-1.74E+00	5.26E+00	5.63E+00	3.92E+00	6.29E+00	7.69E+00	-2.65E-01	1.74E+01	2.01E+01	
	008	135.2	-67.5	1/20/2009	11:02	1.31E+02	1.53E+02	1.42E+02	-3.04E-01	3.41E-01	5.34E-01	-6.92E-01	3.89E+00	4.31E+00	5.34E-01	3.30E+00	3.60E+00	-1.08E+01	1.76E+01	2.10E+01	
	009	135.2	-67.5	5/7/2009	11:53	2.44E+01	1.43E+02	1.71E+02	6.54E-02	4.71E-01	5.79E-01	3.00E+00	7.04E+00	4.69E+00	2.33E-01	3.77E+00	4.00E+00	-2.11E+01	2.24E+01	2.60E+01	
	010	135.2	-67.5	8/12/2009	11:52	9.64E+01	1.61E+02	1.75E+02	1.62E-01	4.93E-01	6.57E-01	1.17E+00	3.75E+00	3.74E+00	2.69E+00	3.30E+00	4.25E+00	1.50E+01	1.81E+01	2.15E+01	
MW-51-163	001	152.7	-95	5/30/2007	14:40	1.18E+02	1.56E+02	1.69E+02	3.29E-01	1.16E+00	1.36E+00	2.81E-01	3.09E+00	3.45E+00	1.77E-01	2.82E+00	3.20E+00	NA	NA	NA	MW-51-163
	002	152.7	-95	7/24/2007	14:05	4.58E+01	1.44E+02	1.66E+02	1.05E-01	4.58E-01	5.21E-01	-2.43E-01	3.44E+00	3.76E+00	8.64E-02	3.25E+00	3.63E+00	NA	NA	NA	
	004	152.7	-95	11/9/2007	13:32	7.80E+01	1.57E+02	1.71E+02	2.08E-01	2.82E-01	3.10E-01	1.41E-01	3.54E+00	3.51E+00	-1.11E+00	3.31E+00	3.71E+00	NA	NA	NA	
	005	152.7	-95	1/8/2008	13:57	1.99E+01	1.47E+02	1.82E+02	4.40E-01	8.22E-01	9.29E-01	-1.74E+00	2.66E+00	2.46E+00	8.69E-02	2.15E+00	2.44E+00	NA	NA	NA	
	006	152.7	-95	8/8/2008	11:16	6.52E+01	3.27E+01	1.46E+02	-2.22E-01	2.63E-01	5.44E-01	-1.54E+00	2.23E+00	2.56E+00	3.78E-01	1.77E+00	3.39E+00	4.33E+00	1.26E+01	2.15E+01	
	007	152.7	-95	10/27/2008	10:20	5.58E+01	1.67E+02	1.95E+02	2.55E-01	5.76E-01	6.57E-01	-1.70E+00	5.18E+00	6.74E+00	5.42E-01	5.38E+00	6.25E+00	2.11E+00	1.88E+01	2.14E+01	
	008	152.7	-95	1/20/2009	11:44	4.60E+01	1.30E+02	1.46E+02	-1.98E-01	4.97E-01	6.98E-01	-9.70E-01	3.14E+00	3.27E+00	-7.70E-02	3.24E+00	3.54E+00	-1.01E+01	1.80E+01	2.14E+01	
	009	152.7	-95	5/7/2009	12:09	5.68E+01	1.56E+02	1.81E+02	-5.45E-02	4.61E-01	6.13E-01	-7.96E-01	5.09E+00	3.35E+00	1.08E+00	3.53E+00	3.83E+00	4.18E+00	1.89E+01	2.15E+01	
	010	152.7	-95	8/12/2009	11:28	1.41E+02	1.62E+02	1.75E+02	7.24E-02	5.76E-01	6.99E-01	7.70E-01	3.74E+00	4.26E+00	-2.23E+00	3.23E+00	3.06E+00	-3.79E+00	1.80E+01	2.08E+01	
MW-51-189	001	139.2	-121.5	5/30/2007	14:00	1.87E+02	1.67E+02	1.71E+02	-2.88E-02	8.90E-01	1.11E+00	-3.62E-02	3.98E+00	3.82E+00	4.56E+00	3.57E+00	4.63E+00	NA	NA	NA	MW-51-189
	002	139.2	-121.5	7/24/2007	13:15	9.49E+01	1.46E+02	1.63E+02	3.93E-01	4.08E-01	4.48E-01	-8.87E-01	4.11E+00	3.56E+00	1.57E+00	4.02E+00	4.31E+00	NA	NA	NA	
	003	139.2	-121.5	10/2/2007	12:20	8.45E+00	1.70E+02	1.96E+02	-5.06E-02	2.16E-01	2.38E-01	1.38E+01	5.45E+00	2.92E+00	-4.14E-01	2.79E+00	3.04E+00	NA	NA	NA	
	004	139.2	-121.5	11/9/2007	13:05	-6.26E+00	1.43E+02	1.71E+02	1.95E-01	3.61E-01	4.38E-01	5.04E+00	5.27E+00	4.07E+00	-8.02E-02	3.55E+00	4.05E+00	NA	NA	NA	
	005	139.2	-121.5	1/8/2008	13:10	-4.82E+00	1.44E+02	1.77E+02	-3.17E-02	7.01E-01	8.22E-01	1.35E+00	2.13E+00	2.45E+00	1.42E+00	1.98E+00	2.41E+00	NA	NA	NA	
	006	139.2	-121.5	8/8/2008	11:17	1.10E+02	3.97E+01	1.43E+02	-1.43E-01	3.38E-01	6.50E-01	-2.27E+00	2.13E+00	3.12E+00	-1.79E+00	2.70E+00	3.57E+00	-5.89E+00	1.15E+01	2.04E+01	
	007	139.2	-121.5	10/27/2008	10:11	7.09E+01	1.74E+02	1.95E+02	5.61E-01	7.16E-01	7.51E-01	6.11E-01	5.38E+00	5.30E+00	3.04E+00	6.13E+00	7.60E+00	-6.95E+00	1.84E+01	2.17E+01	
	008	139.2	-121.5	1/20/2009	11:23	3.32E+01	1.30E+02	1.46E+02	-2.14E-01	3.45E-01	5.59E-01	-2.05E+00	3.40E+00	3.62E+00	1.01E+00	3.32E+00	4.20E+00	-8.33E+00	1.79E+01	2.11E+01	
	009	139.2	121.5	5/7/2009	11:55	2.66E+01	1.52E+02	1.81E+02	1.44E-01	5.33E-01	6.11E-01	1.70E+00	3.39E+00	6.26E+00	1.22E+00	5.79E+00	6.11E+00	3.36E+00	1.86E+01	2.14E+01	
	010	139.2	-121.5	8/12/2009	11:11	2.75E+01	1.39E+02	1.60E+02	7.76E-01	8.83E-01	9.41E-01	9.35E-01	3.82E+00	4.47E+00	1.47E+00	3.84E+00	4.60E+00	-1.98E+00	2.14E+01	2.47E+01	
MW-52-11	001	10	6.8	6/20/2007	12:35	1.47E+02	1.63E+02	1.84E+02	-3.58E-01	6.33E-01	8.33E-01	1.96E+00	2.54E+00	2.99E+00	6.12E-01	2.29E+00	2.65E+00	-4.56E+00	1.28E+01	2.54E+01	MW-52-11
	002	10	6.8	8/6/2007	16:18	7.71E+01	1.73E+02	1.94E+02	-5.42E-01	6.12E-01	9.38E-01	-2.16E+00	3.42E+00	3.23E+00	3.39E-02	2.79E+00	3.12E+00	NA	NA	NA	
	003	10	6.8	4/28/2008	13:23	1.13E+03	1.53E+02	1.96E+02	1.97E-01	4.73E-01	8.46E-01	5.19E-01	1.93E+00	3.36E+00	-2.15E+00	3.52E+00	4.08E+00	NA	NA	NA	
	004	10	6.8	4/30/2009	14:27	5.19E+02	4.61E+02	4.72E+02	4.52E-02	5.64E-01	7.17E-01	2.98E-01	7.52E+00	5.01E+00	1.41E+00	5.37E+00	6.04E+00	NA	NA	NA	
MW-52-18	001	17.5	-2.6	5/24/2007	10:44	1.42E+02	1.52E+02	1.65E+02	-2.20E-01	4.98E-01	7.30E-01	6.73E-01	3.19E+00	3.74E+00	3.13E+00	3.30E+00	4.22E+00	-1.09E+00	9.82E+00	2.14E+01	MW-52-18
	002	17.5	-2.6	8/6/2007	13:45	6.73E+01	1.74E+02	1.96E+02	-7.91E-02	6.92E-01	8.93E-01	-1.43E+00	3.54E+00	3.67E+00	1.11E-01	3.15E+00	3.54E+00	NA	NA	NA	
	004	17.5	-2.6	4/30/2009	16:15	2.29E+02	2.01E+02	2.17E+02	-6.52E-02	5.55E-01	7.37E-01	-1.47E-02	7.89E+00	5.26E+00	8.60E-01	4.49E+00	5.24E+00	NA	NA	NA	
MW-52-48	001	48	-33.1	5/24/2007	11:35	7.02E+01	1.43E+02	1.67E+02	-3.61E-01	7.44E-01	1.01E+00	3.66E-01	2.94E+00	3.35E+00	-9.91E-01	3.03E+00	3.71E+00	-2.74E+00	8.16E+00	9.55E+00	MW-52-48
	002	48	-33.1	8/6/2007	14:00	1.15E+02	1.76E+02	1.96E+02	-5.59E-01	4.83E-01	7.33E-01	7.85E-01	3.24E+00	3.75E+00	4.31E-01	3.29E+00	3.75E+00	NA	NA	NA	
	004	48	-33.1	5/1/2009	11:35	1.43E+02	9.84E+01	1.00E+02	4.55E-02	6.02E-01	7.32E-01	1.19E+00	7.61E+00	5.07E+00	-2.32E+00	4.41E+00	4.29E+00	NA	NA	NA	
MW-52-64	001	64	-49.1	5/24/2007	14:44	3.82E+01	1.70E+02	1.92E+02	-3.20E-01	7.68E-01	9.71E-01	-1.03E+00	3.22E+00	3.42E+00	5.00E-01	3.24E+00	4.11E+00	-2.85E+00	9.12E+00	1.03E+01	MW-52-64
	002	64	-49.1	8/6/2007	15:50	3.72E+01	1.71E+02	1.96E+02	-1.70E-02	7.22E-01	9.23E-01	5.10E-01	3.50E+00	3.66E+00	1.80E+00	6.28E+00	4.12E+00	NA	NA	NA	
	004	64	-49.1	5/1/2009	13:50	-1.02E+01	3.27E+01	1.00E+02	4.33E-01	7.01E-01	7.72E-01	1.82E+00	5.34E+00	4.36E+00	1.24E+00	4.23E+00	4.80E+00	NA	NA	NA	
MW-52-110	004	NA	NA	4/30/2009	12:03	1.15E+02	1.00E+02	1.00E+02	-3.34E-01	4.29E-01	6.39E-01	2.00E+00	3.50E+00	5.72E+00	1.27E+00	4.20E+00	5.05E+00	NA	NA	NA	MW-52-110
MW-52-122	001	122	-107.1	5/24/2007	14:55	6.70E+01	1.47E+02	1.66E+02	-4.24E-01	6.62E-01	9.54E-01	2.52E+00	3.59E+00	5.62E+00	-1.76E+00	3.30E+00	3.20E+00	-1.94E+00	9.60E+00	1.12E+01	MW-52-122
	002	122	107.1	8/6/2007	12:05	4.42E+01	1.71E+02	1.96E+02	4.19E-01	7.10E-01	9.50E-01	1.99E+00	1.09E+00	7.34E+00	2.10E-01	4.13E+00	4.70E+00	NA	NA	NA	
	003	122	-107.1	4/28/2008	15:23	8.87E+01	3.60E+01	1.44E+02	1.21E-01	2.92E-01	5.22E-01	-1.55E+00	2.05E+00	3.24E+00	2.72E+00	2.38E+00	4.52E+00	NA	NA	NA	
MW-52-162	001	151.5	-146.6	5/24/2007	11:55	2.52E+02	2.07E+02	2.17E+02	-5.14E-01	4.87E-01	8.12E-01	-5.80E-01	3.59E+00	3.25E+00	1.59E+00	3.15E+00	3.88E+00	-7.54E-01	9.75E+00	1.73E+01	MW-52-162
	002	151.5	-146.6	8/6/2007	11:30	2.11E+02	1.80E+02	1.95E+02	1.53E-02	4.79E-01	6.38E-01	3.61E-02	3.44E+00	3.72E+00	-3.73E-02	3.12E+00	3.59E+00	NA	NA	NA	
	003	151.5	-146.6	4/28/2008	10:22	1.45E+02	3.73E+01	1.43E+02	1.03E+00	3.62E-01	4.43E-01	-9.14E-01	2.03E+00	3.31E+00	2.33E+00	2.13E+00	4.14E+00	NA	NA	NA	
	004	151.5	-146.6	4/30/2009	12:06	4.52E+02	4.53E+02	4.73E+02	-1.49E-01	5.60E-01	7.37E-01	-5.43E-01	3.54E+00	5.65E+00	-1.26E+00	5.26E+00	5.17E+00	NA	NA	NA	
MW-52-181	001	181	-166.1	5/24/2007	12:05	2.48E+02	1.94E+02	2.04E+02	-3.19E-01	5.07E-01	7.58E-01	-5.99E-01	3.30E+00	3.52E+00	-2.81E-01	3.74E+00	4.19E+00	-2.23E-01	1.01E+01	1.17E+01	MW-52-181
	002	181	-166.1	8/6/2007	11:40	1.19E+02	1.77E+02	1.97E+02	5.84E-02	5.56E-01	6.77E-01	-1.21E+00	2.87E+00	2.97E+00	1.28E+00	2.96E+00	3.57E+00	NA	NA	NA	
	003	181	-166.1	4/29/2008	10:24	1.56E+02	3.77E+01	1.44E+02	1.62E-01	2.46E-01	4.28E-01	1.08E+00	2.23E+00	3.96E+00	4.11E-01	2.12E+00	3.63E+00	NA	NA	NA	
	004	181	-166.1	4/30/2009	12:07	1.47E+02	9.93E+01	1.01E+02	-4.95E-02	5.36E-01	7.43E-01	-2.57E+00	5.82E+00	3.88E+00	-1.51E+00	4.17E+00	4.27E+00	NA	NA	NA	
MW-53-82	001	75	-4.7	8/23/2005	12:50	1.18E+04	1.83E+03	5.02E+02	6.68E+00	3.10E+00	2.74E+00	-3.52E+00	7.20E+00	6.64E+00	1.30E+00	1.22E+01	1.16E+01	4.44E+00	9.39E+00	1.02E+01	MW-53-82
	001	75	-4.7	8/23/2005	12:50	1.32E+04	1.11E+03	6.12E+02	NA	NA	NA	9.25E-01	5.73E+00	6.37E+00	1.36E+00	5.70E+00	6.30E+00	NA	NA	NA	
	002	75	-4.7	11/9/2005	11:15	4.54E+02	1.58E+02	1.46E+02	8.00E-02	8.10E-01	9.30E-01	-1.20E+00	5.00E+00	3.61E+00	-1.54E+00	3.80E+00	4.00E+00	1.80E+00	4.20E+00	4.60E+00	
	003	75	-4.7	6/22/2007	15:30	8.68E+03	1.03E+03	4.31E+02	3.98E+00	1.45E+00	1.04E+00	3.81E+00	5.73E+00	4.53E+00	1.95E+00	4.52E+00	4.63E+00	4.53E+00	1.54E+01	1.77E+01	
	004	75	-4.7	8/9/2007	11:31	7.76E+02	2.06E+02	2.04E+02	-3.41E-02	6.87E-01	8.32E-01	6.29E-01	2.33E+00	2.76E+00	-1.03E+00	2.17E+00	2.17E+00	-2.21E+00	1.99E+01	2.36E+01	
	005	75	-4.7	10/24/2007	13:23	1.11E+03	4.71E+02	4.03E+02	2.33E-01	3.11E-01	3.43E-01	3.07E-01	2.71E+00	3.05E+00	-1.05E+00	2.44E+00	2.38E+00	-1.59E+00	2.09E+01	2.41E+01	
	006	75	-4.7	1/21/2008	12:52	9.42E+02	1.06E+02	1.71E+02	2.19E-01	4.20E-01	4.37E-01	0.00E+00	5.42E+00	2.22E+00	-1.13E+00	2.34E+00	2.04E+00	3.64E+00	1.85E+01	2.11E+01	
	008	75	-4.7	8/4/2008	12:25	1.21E+03	1.81E+02	1.91E+02	6.95E-01	3.04E-01	3.41E-01	2.79E+00	2.26E+00	2.16E+00	2.55E-02	2.14E+00	3.58E+00	1.15E+01	1.24E+01	2.05E+01	
	009	75	-4.7	10/30/2008	15:52	7.54E+02	2.37E+02	1.65E+02	4.79E-02	2.99E-01	4.19E-01	3.66E+00	5.21E+00	7.56E+00	1.78E+00	6.33E+00	6.63E+00	4.83E+00	1.65E+01	1.99E+01	
	010	75	-4.7	1/26/2009	12:00	4.56E+03	3.06E+02	1.92E+02	2.30E+00	1.07E+00	9.76E-01	1.10E+00	3.96E+00	2.51E+00	-2.25E-01	3.59E+00	3.89E+00	8.04E+00	1.64E+01	1.94E+01	
	011	75	-4.7	4/14/2009	14:58	1.75E+03	3.14E+02	1.84E+02	-3.07E-01	7.79E-01	8.97E-01	7.76E+00	5.60E+00	4.40E+00	1.29E-01	4.34E+00	4.84E+00	-1.09E+00	1.85E+01	2.16E+01	
	012	75	-4.7	7/21/2009	16:26	9.62E+02	2.67E+02	2.04E+02	1.67E-01	8.37E-01	9.31E-01	3.71E+00	3.87E+00	4.87E+00	3.14E+00	4.38E+00	5.53E+00	-9.93E-01	1.81E+01	2.07E+01	
MW-53-120	001	109.8	-39.5	8/30/2005	11:30	4.42E+03	1.23E+03	1.12E+03	NA	NA	NA	9.49E+00	9.40E+00	9.49E+00	4.98E-01	8.29E+00	9.83E+00	NA	NA	NA	MW-53-120
	002	109.8	-39.5	11/9/2005	11:20	7.50E+03	1.47E+03	1.00E+03	2.47E+01	1.83E+00	7.90E-01	-4.60E-01	2.70E+00	3.10E+00	-3.50E-01	2.76E+00	3.30E+00	2.71E+01	1.32E+01	3.03E+01	
	003	109.8	-39.5	6/22/2007	14:22	9.61E+03	1.10E+03	4.32E+02	3.57E+01	3.69E+00	1.04E+00	7.53E+00	5.09E+00	2.84E+00	5.47E-01	3.15E+00	3.72E+00	1.73E+01	1.38E+01	3.47E+01	
	004	109.8	-39.5	8/9/2007	12:45	8.05E+03	1.02E+03	4.55E+02	3.70E+01	3.18E+00	9.34E-01	1.37E+00	3.62E+00	4.27E+00	-1.59E-01	3.74E+00	4.17E+00	1.65E+01	2.14E+01	2.35E+01	
	005	109.8	-39.5	10/24/2007	13:38	7.40E+03	9.29E+02	4.02E+02	3.81E+01	2.27E+00	4.32E-01	-5.34E-01	3.51E+00	3.29E+00	-2.23E-01	3.35E+00	3.72E+00	7.06E+00	2.10E+01	2.38E+01	
	006	109.8	-39.5	1/21/2008	10:43	7.48E+03	3.43E+02	1.72E+02	3.12E+01	2.40E+00	6.46E-01	1.38E+00	3.02E+00	3.18E+00	1.14E-01	3.30E+00	3.71E+00	1.71E+01	1.85E+01	2.02E+01	
	008	109.8	-39.5	5/13/2008	10:10	5.51E+03	3.33E+02	1.43E+02	3.11E+01	1.73E+00	6.73E-01	-1.39E+00	1.98E+00	3.10E+00	1.33E+00	2.15E+00	3.99E+00	2.22E+01	1.28E+01	2.08E+01	
	009	109.8	-39.5	8/4/2008	10:15	5.80E+03	3.45E+02	1.91E+02	3.03E+01	1.52E+00	3.11E-01	-9.74E-01	1.93E+00	2.02E+00	-1.12E-01	2.33E+00	3.20E+00	2.65E+01	1.30E+01	2.11E+01	
	010	109.8	-39.5	9/5/2008	10:25	5.76E+03	3.99E+02	2.01E+02	3.10E+01	1.59E+00	4.10E-01	-3.34E-01	2.41E+00	2.94E+00	NA	NA	NA	1.94E+01	1.19E+01	3.88E-01	
	011	109.8	-39.5	10/30/2008	13:00	5.57E+03	5.39E+02	1.66E+02	2.53E+01	2.04E+00	3.80E-01	2.73E+00	4.75E+00	5.74E+00	0.00E+00	9.13E+00	9.26E+00	5.62E+00	1.69E+01	2.93E+01	
	012	109.8	-39.5	11/17/2008	10:31	5.04E+03	3.23E+02	1.72E+02	4.25E+01	3.63E+00	6.74E-01	3.25E-01	4.72E+00	5.28E+00	-1.96E-02	4.29E+00	4.45E+00	2.12E+01	2.03E+01	2.21E+01	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE LID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-53-120	0:3	139.8	-39.5	1/26/2009	12:43	5.06E+03	3.26E+02	1.92E+02	2.64E+01	2.37E+00	7.50E-01	-3.60E-01	4.53E+00	5.11E+00	2.32E+00	4.34E+00	5.39E+00	1.27E+01	2.22E+01	2.49E+01	MW-53-120
	0:4	139.8	-39.5	3/16/2009	9:43	5.07E+03	3.51E+02	3.81E+02	2.37E+01	2.07E+00	7.32E-01	-9.24E-02	2.48E+00	1.65E+00	-7.85E-01	1.86E+00	1.58E+00	1.34E+01	1.73E+01	1.91E+01	
	0:5	139.8	-39.5	4/14/2009	13:08	5.65E+03	3.40E+02	1.56E+02	2.96E+01	2.19E+00	5.56E-01	-2.26E+00	5.15E+00	4.11E+00	-6.53E-01	5.86E+00	4.10E+00	8.66E+00	1.83E+01	2.07E+01	
	0:6	139.8	-39.5	7/21/2009	13:18	5.40E+03	3.13E+02	2.07E+02	4.00E-01	5.46E-01	5.43E-01	-1.68E+00	5.42E+00	5.59E+00	3.12E+00	5.86E+00	5.03E+00	4.29E+00	1.66E+01	1.88E+01	
MW-54-37	001	36.5	-23.4	5/3/2007	16:19	8.01E+02	3.14E+02	3.02E+02	1.23E+01	2.12E+00	7.94E-01	2.44E+00	3.63E+00	4.42E+00	-1.43E+00	2.71E+00	2.31E+00	6.09E+00	1.98E+01	2.27E+01	MW-54-37
	002	36.5	-23.4	7/31/2007	10:30	8.68E+02	4.14E+02	2.68E+02	5.30E+00	1.11E+00	6.20E-01	1.40E+00	2.54E+00	3.03E+00	-2.65E-02	2.82E+00	3.13E+00	4.74E+00	1.83E+01	2.14E+01	
	003	36.5	-23.4	10/19/2007	13:25	1.04E+03	4.20E+02	3.66E+02	6.19E+00	1.37E+00	6.14E-01	6.04E-01	3.30E+00	3.04E+00	4.61E-01	3.54E+00	4.19E+00	1.04E+01	1.59E+01	1.77E+01	
	004	36.5	23.4	1/15/2008	13:18	1.07E+03	1.97E+02	2.18E+02	5.79E+00	1.47E+00	7.36E-01	7.42E-02	2.81E+00	3.11E+00	1.03E+00	2.79E+00	3.00E+00	1.38E+01	2.06E+01	2.42E+01	
	005	36.5	23.4	5/2/2008	13:59	8.70E+02	1.47E+02	1.41E+02	5.08E+00	7.44E-01	5.59E-01	9.38E-01	2.12E+00	2.25E+00	8.38E-01	2.56E+00	2.06E+00	3.37E+00	1.24E+01	2.12E+01	
	006	36.5	-23.4	7/22/2008	17:00	9.50E+02	1.03E+02	1.31E+02	6.20E+00	7.50E-01	4.53E-01	1.34E+00	2.22E+00	2.94E+00	-4.43E-01	2.29E+00	2.34E+00	1.42E+00	1.69E+01	1.99E+01	
	007	36.5	-23.4	11/11/2008	13:16	1.15E+03	2.07E+02	1.77E+02	7.33E+00	1.45E+00	5.76E-01	-2.50E+00	5.77E+00	6.87E+00	2.81E+00	5.14E+00	6.50E+00	2.49E+00	1.97E+01	2.21E+01	
	008	36.5	-23.4	2/3/2009	15:34	1.16E+03	1.86E+02	1.64E+02	5.93E+00	1.16E+00	6.96E-01	1.20E+00	3.33E+00	3.92E+00	-1.15E+00	3.24E+00	3.34E+00	3.34E+00	2.16E+01	2.50E+01	
	009	36.5	-23.4	5/6/2009	11:51	1.54E+03	2.73E+02	1.81E+02	6.35E+00	1.20E+00	4.75E-01	-1.81E-02	4.22E+00	4.81E+00	-1.16E+00	4.25E+00	4.61E+00	4.33E+00	1.9 E+01	2.16E+01	
	0:0	36.5	-23.4	8/4/2009	14:35	1.42E+03	3.26E+02	2.37E+02	5.53E+00	1.18E+00	6.38E-01	-3.76E-01	3.94E+00	4.25E+00	8.01E-01	4.42E+00	4.53E+00	5.80E+00	2.1 E+01	2.41E+01	
MW-54-58	001	57.5	-44.4	5/3/2007	16:45	7.60E+02	3.11E+02	3.02E+02	2.22E+00	9.99E-01	7.02E-01	-3.77E-01	2.81E+00	3.07E+00	1.15E-01	2.71E+00	3.09E+00	7.50E+00	1.88E+01	2.12E+01	MW-54-58
	002	57.5	-44.4	7/31/2007	9:55	6.53E+02	3.72E+02	2.62E+02	1.76E+00	8.53E-01	7.52E-01	-1.32E+00	3.12E+00	3.23E+00	8.17E-03	3.01E+00	3.35E+00	1.97E-01	1.80E+01	2.08E+01	
	003	57.5	-44.4	10/19/2007	13:35	5.61E+02	2.00E+02	1.94E+02	4.38E-01	8.43E-01	9.56E-01	-2.08E-01	3.03E+00	3.40E+00	3.56E-01	2.96E+00	3.39E+00	2.09E+00	1.59E+01	1.81E+01	
	004	57.5	-44.4	1/15/2008	13:45	6.47E+02	4.40E+02	4.18E+02	2.32E+00	1.09E+00	8.13E-01	2.16E+00	4.59E+00	5.18E+00	-7.34E-01	3.96E+00	3.27E+00	4.41E+00	2.34E+01	2.71E+01	
	005	57.5	-44.4	5/2/2008	14:15	7.33E+02	1.39E+02	1.43E+02	1.69E+00	4.97E-01	5.77E-01	8.65E-01	2.13E+00	2.75E+00	1.63E+00	2.46E+00	4.54E+00	9.78E-01	1.27E+01	2.20E+01	
	006	57.5	-44.4	7/22/2008	17:05	5.78E+02	9.64E+01	1.31E+02	1.71E+00	5.24E-01	6.47E-01	3.78E-01	2.07E+00	2.59E+00	-1.41E-01	2.57E+00	4.23E+00	1.37E+01	1.69E+01	2.85E+01	
	007	57.5	-44.4	11/11/2008	13:02	6.58E+02	1.85E+02	1.74E+02	9.02E+00	1.65E+00	5.35E-01	-1.45E-01	5.71E+00	2.85E+00	-1.72E+00	3.50E+00	5.31E+00	3.01E+00	1.91E+01	2.18E+01	
	008	57.5	-44.4	2/3/2009	14:53	6.82E+02	1.71E+02	1.66E+02	1.98E+00	8.52E-01	7.24E-01	9.78E-01	2.73E+00	3.23E+00	4.22E-01	2.94E+00	3.39E+00	-3.05E+00	1.95E+01	2.27E+01	
	009	57.5	-44.4	5/6/2009	12:13	6.58E+02	2.24E+02	1.78E+02	2.00E+00	8.60E-01	6.94E-01	2.19E+00	5.09E+00	4.06E+00	-2.96E+00	3.53E+00	3.32E+00	-1.92E+01	2.15E+01	2.50E+01	
	0:0	57.5	-44.4	8/4/2009	14:30	7.81E+02	2.73E+02	2.34E+02	1.41E+00	8.04E-01	7.44E-01	-1.71E+00	3.23E+00	3.32E+00	-9.96E-01	3.22E+00	3.83E+00	8.54E-01	2.26E+01	2.66E+01	
MW-54-123	001	123	-109.9	5/3/2007	14:10	1.11E+03	3.73E+02	3.36E+02	2.19E+01	2.71E+00	0.36E-01	4.21E+00	3.50E+00	3.67E+00	-2.65E+00	7.27E+00	3.31E+00	7.45E+00	1.79E+01	2.03E+01	MW-54-123
	002	123	109.9	7/31/2007	11:10	9.63E+02	1.29E+02	3.65E+02	1.35E+01	1.47E+00	8.37E-01	0.00E+00	1.63E+00	2.45E+00	2.96E+00	4.22E+00	5.06E+00	3.63E+00	1.86E+01	2.17E+01	
	003	123	-109.9	10/19/2007	12:09	7.01E+02	3.87E+02	3.62E+02	1.16E+01	1.98E+00	8.13E-01	4.02E-02	3.51E+00	3.88E+00	-1.72E+00	3.55E+00	3.69E+00	-4.31E-01	2.19E+01	2.51E+01	
	004	123	-109.9	1/15/2008	10:42	5.33E+02	4.23E+02	4.18E+02	9.56E+00	1.92E+00	7.51E-01	8.55E-01	3.43E+00	3.94E+00	4.41E-01	3.30E+00	3.42E+00	6.86E+00	2.25E+01	2.58E+01	
	005	123	-109.9	5/2/2008	10:06	6.58E+02	1.34E+02	1.35E+02	6.45E+00	8.46E-01	5.88E-01	-1.28E+00	2.22E+00	3.42E+00	4.12E+00	2.53E+00	5.24E+00	-3.04E+00	1.19E+01	2.08E+01	
	006	123	-109.9	7/22/2008	15:30	6.12E+02	9.77E+01	1.32E+02	6.52E+00	8.15E-01	5.56E-01	-2.82E-01	2.22E+00	3.72E+00	-2.93E+00	2.52E+00	3.55E+00	4.33E+00	1.57E+01	2.73E+01	
	007	123	-109.9	11/11/2008	11:03	5.60E+02	1.77E+02	1.71E+02	1.26E+01	2.10E+00	7.26E-01	-6.72E-01	5.14E+00	5.51E+00	2.63E+00	4.29E+00	5.62E+00	-4.68E+00	1.83E+01	2.15E+01	
	008	123	-109.9	2/3/2009	11:55	5.31E+02	1.64E+02	1.64E+02	5.91E+00	1.15E+00	5.70E-01	9.03E-01	3.03E+00	3.55E+00	5.33E-02	3.09E+00	3.52E+00	9.09E-01	2.00E+01	2.30E+01	
	009	123	-109.9	5/6/2009	12:40	6.54E+02	2.23E+02	1.78E+02	3.94E+00	1.00E+00	5.36E-01	-1.73E+00	5.94E+00	5.96E+00	2.06E+00	3.18E+00	3.94E+00	2.67E-01	1.86E+01	2.13E+01	
	0:0	123	-109.9	8/4/2009	14:10	6.29E+02	2.63E+02	2.36E+02	4.53E+00	1.24E+00	7.76E-01	6.28E-01	3.50E+00	4.06E+00	2.36E-01	3.27E+00	3.76E+00	1.79E+00	2.1 E+01	2.41E+01	
MW-54-144	001	144	-130.9	5/3/2007	14:31	1.34E+03	5.64E+02	4.66E+02	1.61E+01	2.42E+00	6.97E-01	-1.34E+00	3.62E+00	3.78E+00	5.23E-01	3.36E+00	3.84E+00	4.68E+00	1.68E+01	1.99E+01	MW-54-144
	002	144	-130.9	7/31/2007	13:33	1.69E+03	5.67E+02	2.66E+02	1.92E+01	1.98E+00	6.71E-01	-1.19E+00	2.90E+00	3.03E+00	5.02E-02	3.33E+00	3.77E+00	-6.13E+00	1.89E+01	2.23E+01	
	003	144	-130.9	10/19/2007	12:12	1.54E+03	4.73E+02	3.62E+02	1.58E+01	2.15E+00	7.59E-01	8.73E-01	2.83E+00	3.35E+00	-4.41E-01	3.18E+00	3.39E+00	4.25E-01	1.54E+01	1.78E+01	
	004	144	-130.9	1/15/2008	11:22	1.48E+03	5.34E+02	4.18E+02	1.53E+01	2.54E+00	8.48E-01	1.67E+00	4.05E+00	4.35E+00	-4.85E-01	4.14E+00	3.45E+00	9.11E+00	2.24E+01	2.54E+01	
	005	144	-130.9	5/2/2008	10:20	1.15E+03	1.64E+02	1.43E+02	1.59E+01	1.31E+00	7.05E-01	-9.63E-01	2.26E+00	3.01E+00	-1.06E+00	2.37E+00	3.65E+00	-2.00E+00	1.2 E+01	2.11E+01	
	006	144	-130.9	7/22/2008	15:35	1.13E+03	1.13E+02	1.31E+02	1.69E+01	1.23E+00	5.01E-01	1.57E+00	1.91E+00	3.46E+00	-4.96E-01	2.43E+00	3.49E+00	1.11E+01	1.69E+01	2.89E+01	
	007	144	-130.9	11/11/2008	11:06	1.14E+03	3.03E+02	1.72E+02	2.02E+01	2.27E+00	4.29E-01	-6.03E-01	3.90E+00	4.36E+00	5.67E-01	5.17E+00	5.96E+00	4.00E+00	2.09E+01	2.39E+01	
	008	144	-130.9	2/3/2009	12:41	1.13E+03	3.03E+02	1.77E+02	1.44E+01	1.76E+00	6.51E-01	-5.30E-03	3.15E+00	3.44E+00	-2.00E-02	2.91E+00	3.20E+00	2.21E+00	2.3 E+01	2.76E+01	
	009	144	130.9	5/6/2009	10:23	1.45E+03	2.91E+02	1.75E+02	1.46E+01	1.89E+00	5.95E-01	1.95E+00	1.97E+00	2.31E+00	5.27E-01	3.35E+00	3.90E+00	5.83E+00	1.9 E+01	2.21E+01	
	0:0	144	-130.9	8/4/2009	11:10	1.29E+03	3.13E+02	2.35E+02	1.43E+01	1.74E+00	7.92E-01	6.50E-01	2.91E+00	3.33E+00	-1.51E+00	3.72E+00	3.66E+00	1.41E+01	2.24E+01	2.5 E+01	
MW-54-173	001	172.5	-159.4	5/3/2007	14:43	1.50E+03	5.27E+02	4.71E+02	2.09E+01	2.64E+00	8.31E-01	-4.52E-01	3.83E+00	4.16E+00	1.92E+00	3.46E+00	4.27E+00	5.09E+00	1.94E+01	2.21E+01	MW-54-173
	002	172.5	-159.4	7/31/2007	13:40	2.08E+03	5.94E+02	2.68E+02	1.45E+01	1.85E+00	8.29E-01	7.90E-01	2.63E+00	3.10E+00	7.75E-01	2.29E+00	2.74E+00	3.92E+00	1.8 E+01	2.07E+01	
	003	172.5	-159.4	10/19/2007	12:14	1.51E+03	5.07E+02	3.63E+02	1.49E+01	2.07E+00	6.21E-01	1.05E+00	3.29E+00	3.75E+00	-3.08E-01	2.87E+00	3.38E+00	1.37E+00	1.49E+01	1.70E+01	
	004	172.5	-159.4	1/15/2008	11:15	1.64E+03	5.84E+02	4.10E+02	1.41E+01	1.80E+00	9.29E-01	-3.68E-01	2.81E+00	3.08E+00	5.21E-01	3.00E+00	3.49E+00	4.79E+00	2.30E+01	2.65E+01	
	005	172.5	-159.4	5/2/2008	10:35	2.11E+03	2.10E+02	1.42E+02	1.22E+01	1.18E+00	9.36E-01	-6.44E-01	2.22E+00	3.66E+00	1.71E+00	2.10E+00	4.01E+00	4.47E+00	1.23E+01	2.1 E+01	
	006	172.5	-159.4	7/22/2008	15:51	2.05E+03	1.35E+02	1.30E+02	1.29E+01	1.08E+00	5.25E-01	-6.92E-02	2.07E+00	3.52E+00	-1.62E+00	2.11E+00	3.15E+00	7.86E+00	1.59E+01	2.72E+01	
	007	172.5	-159.4	11/11/2008	11:07	1.66E+03	2.24E+02	1.75E+02	1.61E+01	2.12E+00	7.21E-01	1.71E-01	4.23E+00	4.77E+00	-5.84E-01	3.93E+00	4.19E+00	3.04E+00	1.92E+01	2.2 E+01	
	008	172.5	-159.4	2/3/2009	12:19	1.58E+03	5.43E+02	3.85E+02	1.02E+01	1.45E+00	5.93E-01	-1.52E+00	3.03E+00	3.08E+00	-2.37E+00	3.20E+00	2.94E+00	4.01E+00	2.3 E+01	2.76E+01	
	009	172.5	-159.4	5/6/2009	10:24	1.57E+03	3.03E+02	1.80E+02	8.59E+00	1.46E+00	7.75E-01	3.40E-01	5.16E+00	5.44E+00	1.02E+00	2.53E+00	3.14E+00	-1.38E+00	1.92E+01	2.2 E+01	
	0:0	172.5	-159.4	8/4/2009	11:15	1.87E+03	3.56E+02	2.34E+02	9.19E+00	1.51E+00	7.94E-01	1.49E+00	3.33E+00	3.92E+00	-6.51E-01	2.98E+00	3.14E+00	3.69E+00	2.19E+01	2.49E+01	
MW-54-190	001	190	-176.9	5/3/2007	15:10	1.81E+03	5.23E+02	4.71E+02	1.95E+01	2.56E+00	7.30E-01	1.82E+00	5.23E+00	5.91E+00	5.32E-01	2.90E+00	3.30E+00	1.54E+00	1.88E+01	2.18E+01	MW-54-190
	002	190	-176.9	7/31/2007	13:45	2.25E+03	5.12E+02	2.66E+02	1.79E+01	2.13E+00	7.59E-01	-2.13E+00	3.53E+00	3.12E+00	9.32E-01	3.29E+00	3.67E+00	-3.01E+00	1.66E+01	1.96E+01	
	003	190	-176.9	10/19/2007	12:20	2.13E+03	3.24E+02	3.66E+02	2.04E+01	2.46E+00	7.97E-01	-1.04E+00	3.43E+00	3.07E+00	7.41E-01	4.25E+00	3.33E+00	-3.38E+00	1.7 E+01	1.9 E+01	
	004	190	-176.9	1/15/2008	11:37	2.24E+03	5.26E+02	4.10E+02	1.93E+01	2.54E+00	8.12E-01	6.53E-01	2.64E+00	3.11E+00	-3.88E-01	2.28E+00	2.50E+00	9.23E+00	2.42E+01	2.7 E+01	
	005	190	-176.9	5/2/2008	10:30	1.64E+03	1.90E+02	1.43E+02	1.95E+01	1.40E+00	7.30E-01	0.19E-01	1.93E+00	2.44E+00	6.01E-01	1.95E+00	3.51E+00	6.07E+00	1.25E+01	2.13E+01	
	006	190	176.9	7/22/2008	15:50	1.25E+03	1.13E+02	1.30E+02	2.13E+01	1.37E+00	5.50E-01	8.75E-01	1.93E+00	3.41E+00	1.64E+00	2.06E+00	3.02E+00	8.72E+00	1.6 E+01	2.90E+01	
	007	190	176.9	11/11/2008	11:09	1.41E+03	2.10E+02	1.66E+02	3.38E+01	3.12E+00	6.14E-01	5.41E-01	5.00E+00	5.54E+00	6.47E-01	3.54E+00	3.63E+00	4.66E-01	1.9 E+01	2.2 E+01	
	008	190	-176.9	2/3/2009	12:35	1.43E+03	4.83E+02	3.80E+02	1.90E+01	1.85E+00	3.35E-01	-1.18E+00	3.43E+00	3.74E+00	7.39E-01	3.08E+00	3.70E+00	-5.70E+00	2.3 E+01	2.84E+01	
	009	190	-176.9	5/6/2009	10:27	1.60E+03	3.05E+02	1.80E+02	1.98E+01	2.07E+00	6.19E-01	2.31E+00	2.77E+00	2.81E+00	-8.96E-01	3.36E+00	4.04E+00	-2.80E+00	1.94E+01	2.23E+01	
	0:0	190	-176.9	8/4/2009	11:20	1.54E+03	3.62E+02	2.36E+02	1.98E+01	2.00E+00	6.71E-01	-7.49E-01	3.31E+00	3.53E+00	5.28E-01	3.92E+00	4.55E+00	-1.51E+00	2.1 E+01	2.47E+01	
MW-55-24	001	16	2.3	11/9/2005	13:20	2.00E+03	1.11E+03	1.00E+03	1.66E+01	2.40E+00	1.90E+00	-7.00E-01	4.50E+00	5.40E+00	8.00E+00	4.00E-01	6.70E+00	1.10E+00	3.40E+00	6.00E+00	MW-55-24
	002	16	2.3	6/28/2007	11:20	3.08E+03	2.96E+02	1.87E+02	3.25E+01	3.51E+00	1.06E+00	0.00E+00	4.00E+00	3.70E+00	3.30E+00	3.31E+00	4.60E+00	NA	NA	NA	
	003	16	2.3	8/2/2007	11:17	2.71E+03	7.23E+02	5.47E+02	2.31E+01	2.67E+00	9.19E-01	-4.91E-01	2.79E+00	3.02E+00	1.40E+00	2.94E+00	3.47E+00	-7.94E+00	1.9 E+01	2.31E+01	
	004	16	2.3	10/16/2007	10:15	2.20E+03	5.36E+02	3.66E+02	2.29E+01	2.61E+00	8.43E-01	6.26E-01	3.63E+00	4.21E+00	7.46E-01	3.29E+00	3.47E+00	NA	NA	NA	
	005	16	2.3	1/28/2008	12:57	1.14E+03	3.65E+02	2.90E+02	2.26E+01	2.46E+00	9.24E-01	3.38E+00	3.26E+00	2.56E+00	1.04E+00	1.55E+00	2.51E+00	1.44E+01	1.82E+01	2.0 E+01	
	006	16	2.3	4/25/2008	14:15	1.05E+03	1.59E+02	1.44E+02	2.55E+01	1.57E+00	4.89E-01	1.08E+00	2.31E+00	2.02E+00	-9.33E-01	2.55E+00	4.02E+00	1.25E+00	1.14E+01	1.9 E+01	
	007	16	2.3	8/1/2008	13:15	1.40E+03	1.93E+02	1.91E+02	2.22E+01	1.36E+00	5.73E-01	-7.37E-03	2.19E+00	3.65E+00	2.85E+00	2.34E+00	4.1 E+00	6.11E+00	1.24E+01	2.11E+01	
	008	16	2.3	10/21/2008	13:19	7.22E+02	2.57E+02	1.93E+02	1.08E+01	1.80E+00	5.55E-01	1.30E+00	5.13E+00	5.92E+00	-3.49E+00	6.56E+00	6.59E+00	4.77E+00	1.79E+01	2.03E+01	
	009	16	2.3	2/11/2009	12:25	1.14E+03	4.49E+02	3.84E+02	1.69E+01	1.74E+00	5.85E-01	1.90E+00	2.88E+00	2.51E+00	1.55E+00	3.14E+00	3.76E+00	-1.21E+01	2.43E+01	2.9 E+01	
	0:0	16	2.3	4/29/2009	11:28	1.14E+03	2.69E+02	1.80E+02	1.53E+01	1.88E+00	6.50E-01	-1.81E-01	1.02E+01	6.77E+00	-9.81E-01	4.91E+00	5.4E+00	4.88E+00	1.95E+01	2.22E+01	
	0:1	16	2.3	8/5/2009	13:52	1.59E+03	3.39E+02	2.37E+02	3.07E+01	2.52E+00	7.22E-01	-7.90E-01	3.74E+00	3.61E+00	1.05E+00	2.92E+00	3.52E+00	4.83E+00	2.28E+01	2.59E+01	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-55-35	001	32	-13 8	11/9/2005	13 40	9 04E+03	1 50E+03	1 00E+03	4 04E+01	4 80E+00	3 30E+00	-1 10E+00	3 30E+00	5 90E+00	-5 00E-01	3 30E+00	4 10E+00	4 30E+00	5 40E+00	5 8E+00	MW-55-35
	002	32	-13 8	6/28/2007	11 50	3 09E+03	2 93E+02	1 84E+02	3 25E+01	3 31E+00	9 74E-01	-4 64E-01	3 46E+00	5 78E+00	-1 00E+00	3 52E+00	3 75E+00	NA	NA	NA	
	003	32	-13 8	8/2/2007	11 20	5 68E+03	7 91E+02	5 33E+02	3 40E+01	3 45E+00	8 25E-01	9 25E-01	5 19E+00	2 24E+00	7 69E-01	2 25E+00	2 10E+00	2 50E+00	1 96E+01	2 2E+01	
	004	32	-13 8	10/16/2007	10 02	5 19E+03	7 54E+02	5 05E+02	3 16E+01	3 04E+00	1 04E+00	2 62E+00	5 36E+00	5 35E+00	1 44E+00	5 44E+00	4 20E+00	NA	NA	NA	
	005	32	-13 8	1/28/2008	11 46	2 33E+03	4 59E+02	2 97E+02	2 64E+01	2 60E+00	5 21E-01	-5 28E-01	2 12E+00	2 26E+00	-6 90E-01	2 19E+00	2 32E+00	1 12E+01	1 76E+01	1 9E+01	
	006	32	-13 8	4/25/2008	12 07	1 00E+03	1 86E+02	1 42E+02	3 44E+01	1 86E+00	6 11E-01	1 46E+00	2 20E+00	4 00E+00	2 34E+00	2 40E+00	4 61E+00	5 22E+00	1 23E+01	2 14E+01	
	007	32	-13 8	8/1/2008	10 47	1 73E+03	2 03E+02	1 91E+02	2 54E+01	1 42E+00	4 28E-01	3 51E-01	2 17E+00	3 74E+00	2 59E-01	2 33E+00	3 99E+00	1 20E+01	1 23E+01	2 05E+01	
	008	32	-13 8	2/4/2009	13 46	8 53E+02	1 23E+02	3 84E+02	1 71E+01	1 82E+00	4 39E-01	1 01E+00	3 14E+00	3 65E+00	1 59E-01	3 78E+00	3 15E+00	8 79E-01	2 30E+01	2 6E+01	
	009	32	-13 8	1/29/2009	11 56	2 70E+03	3 77E+02	1 80E+02	3 51E+01	2 79E+00	6 35E-01	1 06E+00	5 72E+00	7 45E+00	7 97E-01	4 28E+00	5 04E+00	7 31E+00	2 03E+01	2 2E+01	
	010	32	-13 8	8/5/2009	13 40	2 53E+03	4 19E+02	3 35E+02	4 14E+01	2 88E+00	7 28E-01	-1 72E+00	3 52E+00	3 44E+00	2 68E-01	3 35E+00	3 76E+00	2 69E+00	2 26E+01	2 6E+01	
MW-55-54	001	47	-28 8	11/9/2005	13 50	1 31E+04	1 63E+03	1 00E+03	2 78E+01	1 35E+00	8 10E-01	1 02E+00	3 10E+00	3 80E+00	-3 20E+00	4 50E+00	5 70E+00	1 70E+00	4 80E+00	5 4E+00	MW-55-54
	002	47	-28 8	6/28/2007	11 40	1 64E+04	4 72E+02	1 84E+02	2 47E+01	2 88E+00	9 35E-01	1 30E-01	3 09E+00	4 69E+00	-4 69E-01	3 27E+00	3 48E+00	NA	NA	NA	
	003	47	-28 8	8/2/2007	12 00	9 51E+03	1 13E+03	5 51E+02	2 22E+01	2 38E+00	9 10E-01	-1 09E+00	3 69E+00	3 80E+00	1 46E+00	2 37E+00	3 56E+00	6 13E+00	1 99E+01	2 28E+01	
	004	47	-28 8	10/16/2007	10 05	1 03E+04	2 96E+02	3 61E+02	2 23E+01	2 49E+00	6 15E-01	-9 80E-01	2 82E+00	3 02E+00	6 80E-01	3 55E+00	2 99E+00	NA	NA	NA	
	005	47	-28 8	1/28/2008	11 42	7 48E+03	7 33E+02	2 97E+02	2 28E+01	2 40E+00	5 39E-01	-8 47E-01	2 16E+00	2 30E+00	-1 25E+00	2 31E+00	2 20E+00	1 09E+01	1 86E+01	2 09E+01	
	006	47	-28 8	4/25/2008	10 35	5 96E+03	3 39E+02	1 44E+02	2 67E+01	1 62E+00	6 56E-01	1 74E+00	2 33E+00	4 25E+00	1 63E+00	2 59E+00	4 75E+00	7 69E+00	1 25E+01	2 13E+01	
	007	47	-28 8	8/1/2008	10 38	6 31E+03	3 59E+02	1 91E+02	2 32E+01	1 30E+00	3 56E-01	6 73E-01	2 07E+00	2 52E+00	1 29E+00	1 79E+00	3 30E+00	1 82E+01	1 26E+01	2 08E+01	
	008	47	-28 8	10/21/2008	10 21	7 76E+03	5 65E+02	1 96E+02	1 94E+01	2 37E+00	6 25E-01	-3 17E+00	5 29E+00	5 27E+00	-1 63E+00	5 43E+00	5 54E+00	-9 99E+00	1 69E+01	2 01E+01	
	009	47	-28 8	2/4/2009	12 42	7 33E+03	9 09E+02	3 82E+02	2 11E+01	2 01E+00	3 59E-01	-3 34E-01	3 11E+00	3 46E+00	-3 64E-01	3 35E+00	3 69E+00	5 24E+00	2 34E+01	2 7E+01	
	010	47	-28 8	4/29/2009	10 55	7 03E+03	5 76E+02	1 80E+02	3 27E+01	2 55E+00	6 48E-01	3 95E-01	5 93E+00	4 62E+00	-1 58E+00	4 23E+00	4 33E+00	2 56E+00	1 79E+01	2 04E+01	
	011	47	-28 8	8/5/2009	13 25	5 47E+03	5 45E+02	4 35E+02	2 85E+01	2 43E+00	6 15E-01	-1 05E+00	2 76E+00	2 04E+00	-1 85E+00	3 19E+00	3 17E+00	8 86E+00	2 54E+01	2 6E+01	
MW-56-53	001	52	13 3	1/4/2007	9 33	7 80E+02	3 40E+02	5 1E+02	-9 00E-02	7 80E-01	8 30E-01	1 36E+01	4 80E+00	6 2E+00	2 00E+00	3 30E+00	3 80E+00	-3 70E+00	6 60E+00	7 8E+00	MW-56-53
	002	52	13 3	6/26/2007	10 51	2 69E+02	1 70E+02	1 82E+02	-4 49E-02	3 50E-01	6 56E-01	-5 30E-01	4 46E+00	4 11E+00	2 93E+00	4 88E+00	4 84E+00	1 30E+00	1 4E+01	1 6E+01	
	003	52	13 3	8/10/2007	12 25	2 16E+02	1 86E+02	6 03E+02	-5 66E-01	6 10E-01	9 34E-01	8 51E-01	2 79E+00	3 21E+00	3 99E-02	2 56E+00	2 85E+00	NA	NA	NA	
	004	52	13 3	1/31/2008	12 20	2 63E+02	1 27E+02	1 31E+02	5 70E-01	8 01E-01	9 77E-01	3 30E-01	3 69E+00	3 07E+00	5 97E-01	3 40E+00	3 99E+00	1 74E+00	1 55E+01	1 9E+01	
	005	52	13 3	10/24/2008	12 21	3 59E+02	1 64E+02	1 65E+02	5 40E-01	5 47E-01	5 15E-01	7 92E-02	5 83E+00	6 64E+00	5 42E+00	7 44E+00	6 23E+00	NA	NA	NA	
	006	52	13 3	4/16/2009	11 43	5 00E+02	1 95E+02	1 96E+02	-8 46E-02	6 21E-01	7 53E-01	6 63E-01	5 14E+00	4 05E+00	2 86E+00	3 41E+00	4 34E+00	NA	NA	NA	
MW-56-83	001	74	-3 7	9/8/2006	11 15	5 40E+02	1 69E+02	1 26E+02	2 70E+00	1 12E+00	9 59E-01	1 89E+00	5 51E+00	8 45E+00	-2 15E-01	5 73E+00	6 87E+00	NA	NA	NA	MW-56-83
	002	74	-3 7	11/9/2005	10 20	1 65E+02	1 33E+02	1 4E+02	7 00E-02	7 20E-01	8 10E-01	7 70E-01	2 70E+00	3 1CE+00	-2 20E-01	2 91E+00	3 50E+00	3 30E+00	5 40E+00	5 8E+00	
	003	74	-3 7	1/4/2007	13 20	1 28E+03	5 70E+02	5 2E+02	2 30E+00	9 00E-01	8 20E-01	1 18E+01	4 80E+00	4 4CE+00	1 00E-C1	3 30E+00	3 60E+00	-7 00E-01	7 80E+00	8 8E+00	
	004	74	-3 7	6/22/2007	10 44	1 65E+03	5 76E+02	4 3CE+02	1 87E+00	1 15E+00	1 09E+00	1 47E-01	3 39E+00	3 85E+00	-1 87E+00	2 82E+00	2 46E+00	3 95E+00	1 2TE+01	1 4E+01	
	005	74	-3 7	8/10/2007	11 10	1 49E+03	5 52E+02	4 55E+02	2 43E+00	1 05E+00	9 23E-01	-9 15E-01	3 86E+00	4 02E+00	1 87E-C1	2 75E+00	3 15E+00	NA	NA	NA	
	006	74	-3 7	1/31/2008	9 33	1 54E+03	1 97E+02	1 34E+02	3 56E+00	1 34E+00	9 49E-01	-8 03E-01	3 69E+00	3 23E+00	1 60E+00	2 78E+00	3 51E+00	6 27E-01	1 59E+01	1 8E+01	
	007	74	-3 7	10/24/2008	12 22	2 58E+03	7 91E+02	5 91E+02	2 13E+00	7 32E-01	4 34E-01	-1 15E+00	4 62E+00	4 96E+00	3 29E+00	5 58E+00	8 07E+00	NA	NA	NA	
	008	74	-3 7	4/16/2009	11 49	3 24E+03	7 61E+02	4 34E+02	2 71E+00	7 59E-01	4 21E-01	6 03E-03	5 39E+00	5 55E+00	1 38E+00	4 11E+00	4 92E+00	NA	NA	NA	
MW-57-11	001	10	5	6/22/2007	12 17	4 61E+03	3 10E+02	4 3CE+02	4 55E+01	3 96E+00	7 7TE-01	2 29E+0C	5 04E+00	4 31E+00	3 69E-C2	3 87E+00	4 37E+00	2 24E+01	1 79E+01	1 9IE+01	MW-57-11
	002	10	5	8/6/2007	12 30	4 09E+03	3 21E+06	1 97E+02	3 79E+01	2 77E+00	5 36E-01	1 15E+0C	3 73E+00	4 1CE+00	3 95E-C3	3 21E+00	3 41E+00	-5 75E-01	2 16E+01	2 5CE+01	
	003	10	5	2/5/2008	12 43	2 71E+03	2 27E+02	2 62E+02	2 27E+01	1 95E+00	9 83E-01	8 11E-01	2 21E+00	2 82E+00	2 87E+00	2 26E+00	4 47E+00	-1 12E+00	1 55E+01	2 54E+01	
	004	10	5	11/12/2008	10 55	3 28E+03	2 76E+02	1 73E+02	4 16E+01	3 39E+00	7 34E-01	3 34E+0C	7 25E+00	4 76E+00	1 81E+00	3 78E+00	5 03E+00	-5 16E-01	2 03E+01	2 3CE+01	
	005	10	5	4/21/2009	12 08	4 22E+03	4 29E+02	1 9CE+02	4 72E+01	2 97E+00	5 37E-01	3 89E+0C	5 71E+00	4 47E+00	1 11E+00	2 76E+00	3 33E+00	4 47E+00	1 98E+01	2 2CE+01	
MW-57-20	001	19	-4	6/22/2007	12 30	1 65E+03	5 59E+02	4 3CE+02	1 9CE+00	1 07E+00	9 7TE-01	-1 33E+00	3 69E+00	3 9CE+00	-9 51E-01	3 25E+00	3 04E+00	4 77E-01	1 3CE+01	1 59E+01	MW-57-20
	002	19	-4	8/6/2007	12 15	9 56E+02	3 15E+02	1 9CE+02	1 23E+00	6 67E-01	5 70E-01	1 21E+0C	3 59E+00	3 64E+00	6 05E-C1	2 75E+00	3 22E+00	-1 19E+01	2 06E+01	2 4CE+01	
	003	19	-4	5/5/2008	13 18	7 27E+02	1 45E+02	1 9TE+02	1 23E+00	2 16E-01	2 85E-01	2 17E+00	1 99E+00	2 84E+00	9 61E-01	3 50E+00	4 56E+00	6 89E+00	9 27E+00	1 6CE+01	
	004	19	-4	11-12/2008	11 30	1 51E+03	2 16E+02	1 7TE+02	3 06E+00	1 30E+00	1 14E+00	-1 91E+00	3 94E+00	3 82E+00	-4 35E-01	3 52E+00	3 67E+00	-5 58E-01	1 94E+01	2 2SE+01	
	005	19	-4	4/21/2009	12 22	1 42E+03	2 87E+02	1 9CE+02	2 77E+00	1 02E+00	8 57E-01	-2 08E+00	5 76E+00	3 84E+00	2 82E+00	3 15E+00	4 06E+00	1 34E+01	2 1SE+01	2 41E+01	
MW-57-45	001	40	-25	8/24/2006	9 33	4 00E+03	5 93E+02	3 7TE+02	1 88E+01	3 51E+00	2 1TE+00	-5 40E-01	5 75E+00	7 3CE+00	1 19E+00	6 35E+00	7 50E+00	8 29E+00	9 09E+00	9 7CE+00	MW-57-45
	001	40	-25	8/24/2005	9 33	4 06E+03	3 82E+02	7 71E+02	NA	NA	NA	-2 85E-01	4 41E+00	4 8CE+00	-1 81E-01	3 89E+00	4 37E+00	NA	NA	NA	
	002	40	-25	6/22/2007	12 55	9 55E+02	4 85E+02	4 3SE+02	1 90E+00	1 05E+00	8 55E-01	-1 97E-01	3 40E+00	3 82E+00	-8 51E-01	3 50E+00	3 65E+00	6 46E-01	1 23E+01	1 43E+01	
	003	40	-25	8/6/2007	12 17	7 40E+02	2 07E+02	1 9CE+02	2 55E+00	8 77E-01	6 9TE-01	-3 91E-01	3 15E+00	3 42E+00	-1 89E-01	3 59E+00	3 35E+00	-1 15E+01	2 09E+01	2 45E+01	
	004	40	-25	5/5/2008	14 59	5 65E+02	1 38E+02	1 9TE+02	2 26E+00	2 91E-01	3 58E-01	-1 35E-01	1 68E+00	2 84E+00	-4 61E-01	1 56E+00	2 69E+00	-3 60E+00	9 38E+00	1 6CE+01	
	005	40	-25	11/12/2008	13 22	1 13E+03	2 01E+02	1 73E+02	1 20E+00	6 79E-01	5 9TE-01	1 72E-01	3 63E+00	4 05E+00	5 15E-C1	4 42E+00	5 17E+00	-2 81E+00	1 9TE+01	2 22E+01	
	006	40	-25	4/21/2009	13 34	1 19E+03	2 64E+02	1 9CE+02	2 25E+00	8 36E-01	6 44E-01	1 80E-01	5 64E+00	3 7CE+00	-1 3CE+00	3 95E+00	4 12E+00	8 26E+00	2 09E+01	2 35E+01	
MW-58-26	001	20	-5 4	11/16/2006	13 25	-2 60E+01	1 59E+02	1 6CE+02	3 70E-C1	7 50E-01	8 20E-01	7 27E+01	3 40E+00	4 5CE+00	-9 00E-01	3 30E+00	4 30E+00	-3 20E+00	5 70E+00	6 4CE+00	MW-58-26
	002	20	-5 4	1/5/2007	3 57	2 60E+02	1 80E+02	1 8CE+02	-8 00E-02	7 50E-01	8 30E-01	2 34E+0C	2 97E+00	3 2CE+00	5 50E-C1	2 73E+00	3 10E+00	-3 90E+00	6 30E+00	7 4CE+00	
	003	20	-5 4	6/21/2007	11 10	5 57E+02	2 00E+02	1 8CE+02	1 04E+00	6 09E-01	5 2SE-01	1 42E+0C	2 42E+00	2 8CE+00	-5 95E-01	2 42E+00	2 60E+00	1 07E+00	1 24E+01	1 4CE+01	
	004	20	-5 4	7/31/2007	11 10	8 56E+02	3 99E+02	2 5CE+02	1 02E+00	6 33E-01	5 78E-01	1 18E+0C	3 31E+00	3 8SE+00	4 20E-C1	3 31E+00	3 51E+00	NA	NA	NA	
	005	20	-5 4	1/22/2008	13 20	2 55E+02	1 62E+02	1 7CE+02	-1 43E-01	4 65E-01	6 50E-01	9 19E-01	2 31E+00	2 67E+00	-5 41E-02	2 57E+00	2 61E+00	NA	NA	NA	
	006	20	-5 4	11/7/2008	13 39	2 38E+02	1 5SE+02	1 6CE+02	2 31E-C1	6 60E-01	7 90E-01	-3 38E+00	5 24E+00	5 45E+00	-3 23E-01	4 58E+00	4 84E+00	NA	NA	NA	
	007	20	-5 4	2/3/2009	12 49	5 19E+02	3 3CE+02	1 9CE+02	-8 31E-03	5 27E-01	6 33E-01	1 40E+0C	2 7CE+00	2 2SE+00	1 45E-C1	3 59E+00	3 31E+00	NA	NA	NA	
	008	20	-5 4	4/24/2009	12 21	4 13E+02	1 4CE+02	1 4TE+02	5 7TE-02	4 52E-01	5 7TE-01	1 26E+0C	1 23E+00	2 85E+00	1 02E-C1	2 31E+00	2 57E+00	NA	NA	NA	
MW-58-65	001	54	39 4	11/16/2006	13 18	9 60E+01	1 59E+02	1 6CE+02	6 00E-02	7 20E-01	8 10E-01	2 30E+0C	3 00E+00	3 3CE+00	9 00E-01	4 20E+00	4 90E+00	3 70E+00	6 90E+00	7 8CE+00	MW-58-65
	002	54	-39 4	1/5/2007	9 25	5 50E+02	5 40E+02	5 2CE+02	1 60E-C1	8 10E-01	8 30E-01	-1 95E+00	2 52E+00	3 0CE+00	-1 30E-01	2 73E+00	3 20E+00	-1 40E+00	7 80E+00	8 7CE+00	
	003	54	-39 4	6/21/2007	11 10	3 15E+02	1 77E+02	1 81E+02	-1 90E-01	3 96E-01	5 5CE-01	-2 79E-01	2 37E+00	2 6CE+00	-2 86E+00	3 17E+00	2 16E+00	2 80E+00	1 26E+01	1 4CE+01	
	004	54	-39 4	7/31/2007	11 00	3 42E+02	3 02E+02	2 7TE+02	6 20E-C3	5 19E-01	6 32E-01	2 18E+0C	3 39E+00	3 37E+00	1 02E+00	3 24E+00	3 35E+00	NA	NA	NA	
	005	54	-39 4	1/22/2008	12 00	3 13E+02	1 62E+02	1 6SE+02	1 21E-C1	5 85E-01	7 2CE-01	5 54E-01	3 93E+00	3 9CE+00	-1 23E-01	3 29E+00	3 05E+00	NA	NA	NA	
	006	54	-39 4	11/7/2008	13 55	2 81E+02	1 5SE+02	1 6CE+02	8 19E-C1	8 7TE-01	8 2CE-01	9 13E-02	3 33E+00	3 8CE+00	-1 58E+00	3 21E+00	2 9SE+00	NA	NA	NA	
	007	54	-39 4	2/3/2009	12 05	2 75E+02	2 03E+02	1 9CE+02	6 60E-C1	8 00E-01	8 5CE-01	-8 45E-01	3 21E+00	3 41E+00	1 91E+00	3 29E+00	3 89E+00	NA	NA	NA	
	008	54	-39 4	4/24/2009	11 52	2 33E+02	1 67E+02	1 7CE+02	-2 36E-01	4 62E-01	6 58E-01	9 67E-02	3 86E+00	2 57E+00	-1 84E-01	2 46E+00	2 72E+00	NA	NA	NA	
MW-59-32	001	27	-12 5	11/16/2006	11 05	2 80E+01	1 77E+02	1 8CE+02	-6 00E-02	7 20E-01	7 90E-01	8 60E-01	2 91E+00	3 3CE+00	3 00E-C1	4 20E+00	4 90E+00	-2 60E+00	6 60E+00	7 5CE+00	MW-59-32
	002	27	-12 5	1/5/2007	9 41	1 35E+02	1 77E+02	1 8CE+02	3 00E-C1	7 50E-01	8 20E-01	1 50E+0C	3 60E+00	4 1CE+00	1 30E+00	3 90E+00	4 40E+00	-1 90E+00	6 90E+00	8 1CE+00	
	003	27	-12 5	6/21/2007	15 25	4 67E+02	4 23E+02	4 3CE+02	-6 68E-02	6 78E-01	9 11E-01	6 01E-01	3 96E+00	4 5SE+00	-4 19E-01	4 46E+00	4 71E+00	-4 37E-01	1 24E+01	1 4SE+01	
	004	27	-12 5	7/31/2007	14 35	1 69E+02	1 59E+02	1 6CE+02	2 00E-C1	6 72E-01	7 96E-01	2 26E-01	3 30E+00	3 73E+00	7 97E-C1	3 19E+00	3 75E+00	NA	NA	NA	
MW-59-45	001	42	-27 5	11/16/2006	11 18	5 50E+01	1 74E+02	1 7CE+02	2 40E-C1	7 20E-01	8 30E-01	3 74E+01	3 70E+00	6 2CE+00	2 60E+00	4 20E+00	4 30E+00	-1 60E+00	5 70E+00	6 6CE+00	MW-59-45
	002	42	-27 5	1/5/2007	9 43	8 60E+01	1 80E+02	1 8CE+02	0 00E+00	7 80E-01	8 70E-01	1 49E+02	1 26E+01	4 9CE+00	2 00E-C1	3 90E+00	4 60E+00	-2 50E+00	7 50E+00	8 6CE+00	
	003	42	-27 5	6/21/2007	15 25	7 54E+02	4 59E+02	4 3CE+02	-2 74E-01	6 86E-01	9 10E-01	-1 10E-01	2 50E+00	2 83E+00	8 14E-C2	2 16E+00	2 49E+00	7 74E-01	1 4TE+01	1 7IE+01	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-59-45	004	42	-27.5	7/31/2007	13:58	2.49E+02	1.74E+02	1.65E+02	1.64E-01	5.90E-01	7.35E-01	4.48E-01	3.52E+00	7.76E+00	7.64E-01	3.35E+00	3.94E+00	NA	NA	NA	MW-59-45
MW-59-68	001	58	-43.5	11/16/2006	11:30	5.50E+01	1.74E+02	1.80E+02	1.20E-01	7.20E-01	8.10E-01	1.15E+02	1.11E+01	5.60E+00	1.00E+00	3.00E+00	3.60E+00	-2.30E+00	5.70E+00	6.40E+00	MW-59-68
	002	58	-43.5	1/5/2007	10:05	1.56E+02	1.83E+02	1.81E+02	5.50E-01	8.10E-01	8.90E-01	6.76E+01	5.60E+00	4.10E+00	-8.00E-01	3.50E+00	4.10E+00	1.90E+00	7.50E+00	8.40E+00	
	003	58	-43.5	6/21/2007	15:25	5.90E+02	4.41E+02	4.35E+02	2.97E-01	8.79E-01	1.03E+00	6.26E-01	5.50E+00	1.38E+00	1.27E+00	2.91E+00	3.62E+00	-4.45E+00	1.30E+01	1.56E+01	
	004	58	-43.5	7/31/2007	13:58	8.19E+02	4.02E+02	2.66E+02	3.66E-01	7.08E-01	7.88E-01	9.72E-01	2.83E+00	2.93E+00	3.72E-01	2.77E+00	3.17E+00	NA	NA	NA	
MW-60-35	001	34.9	-22.4	5/8/2007	13:27	-9.12E+00	1.49E+02	1.75E+02	-1.79E-01	5.28E-01	7.52E-01	1.41E+00	4.84E+00	3.30E+00	2.45E+00	3.72E+00	4.07E+00	0.00E+00	1.81E+01	2.12E+01	MW-60-35
	002	34.9	-22.4	7/27/2007	13:07	7.41E+02	2.40E+02	1.76E+02	6.40E-02	3.00E-01	4.56E-01	5.55E-01	4.20E+00	3.23E+00	-3.31E-01	3.07E+00	3.39E+00	NA	NA	NA	
	003	34.9	22.4	10/9/2007	13:20	1.54E+02	1.43E+02	1.51E+02	3.01E-01	5.97E-01	6.78E-01	1.51E+00	5.06E+00	3.54E+00	0.00E+00	2.54E+00	2.61E+00	NA	NA	NA	
	004	34.9	22.4	1/14/2008	17:05	7.78E+01	1.53E+02	1.78E+02	5.05E-01	8.10E-01	8.98E-01	1.11E+00	3.21E+00	2.75E+00	9.16E-01	3.36E+00	3.54E+00	NA	NA	NA	
	005	34.9	-22.4	4/24/2008	15:30	5.51E+01	1.14E+02	1.95E+02	3.45E-01	4.83E-01	8.34E-01	-8.41E-01	2.06E+00	3.37E+00	-8.72E-01	1.58E+00	2.56E+00	NA	NA	NA	
	006	34.9	-22.4	7/30/2008	16:10	1.55E+02	1.21E+02	1.91E+02	7.85E-01	3.50E-01	5.92E-01	1.61E+00	1.93E+00	3.50E+00	-1.15E+00	2.77E+00	3.70E+00	NA	NA	NA	
	007	34.9	-22.4	11/5/2008	15:03	1.42E+02	1.80E+02	1.99E+02	1.62E-01	5.01E-01	6.20E-01	-2.38E+00	3.87E+00	6.10E+00	-3.83E+00	8.82E+00	7.56E+00	NA	NA	NA	
	008	34.9	-22.4	2/9/2009	16:12	2.02E+02	1.83E+02	1.96E+02	3.81E-01	8.27E-01	9.42E-01	-1.20E+00	3.09E+00	5.15E+00	-2.22E-01	3.30E+00	3.22E+00	-3.26E+00	2.39E+01	2.82E+01	
	009	34.9	-22.4	5/5/2009	14:06	1.54E+02	1.64E+02	1.71E+02	2.06E-01	6.46E-01	7.30E-01	1.11E+00	3.76E+00	5.84E+00	7.57E-01	5.50E+00	6.58E+00	NA	NA	NA	
	010	34.9	-22.4	8/11/2009	14:41	2.60E+02	1.49E+02	1.53E+02	3.16E-01	4.41E-01	4.71E-01	2.47E+00	5.67E+00	6.63E+00	3.46E+00	6.18E+00	7.58E+00	5.77E+00	1.79E+01	2.03E+01	
MW-60-53	001	53.4	-40.9	5/8/2007	11:52	5.32E+01	1.53E+02	1.82E+02	-4.92E-01	5.52E-01	8.96E-01	-2.83E+00	4.86E+00	4.07E+00	2.15E-01	3.59E+00	4.12E+00	3.58E+00	1.84E+01	2.12E+01	MW-60-53
	002	53.4	-40.9	7/27/2007	12:50	1.25E+02	1.71E+02	1.87E+02	-4.72E-01	5.26E-01	7.31E-01	1.46E-01	3.01E+00	3.34E+00	7.87E-01	3.25E+00	3.79E+00	NA	NA	NA	
	003	53.4	-40.9	10/9/2007	12:22	1.13E+02	1.44E+02	1.56E+02	6.19E-01	6.50E-01	6.79E-01	-2.11E+00	3.39E+00	5.51E+00	3.62E-01	2.79E+00	3.21E+00	NA	NA	NA	
	004	53.4	-40.9	1/14/2008	15:40	5.35E+01	1.55E+02	1.78E+02	-1.69E-01	5.28E-01	7.59E-01	-1.10E+00	2.78E+00	2.86E+00	-1.89E+00	2.94E+00	2.76E+00	NA	NA	NA	
	005	53.4	-40.9	4/24/2008	12:18	-1.77E+01	1.12E+02	1.96E+02	5.27E-01	5.19E-01	8.52E-01	-4.84E-01	2.47E+00	4.13E+00	-1.36E+00	2.50E+00	3.95E+00	NA	NA	NA	
	006	53.4	-40.9	7/30/2008	13:23	1.28E+02	1.89E+02	1.62E+02	6.53E-01	5.53E-01	8.38E-01	-1.68E-01	2.09E+00	2.45E+00	1.05E+00	2.34E+00	3.65E+00	NA	NA	NA	
	007	53.4	-40.9	11/5/2008	14:32	1.38E+02	1.80E+02	1.95E+02	-1.97E-01	5.82E-01	8.17E-01	8.77E-01	4.53E+00	5.22E+00	1.30E+00	5.78E+00	6.68E+00	NA	NA	NA	
	008	53.4	-40.9	2/9/2009	11:28	1.51E+02	1.79E+02	1.98E+02	4.81E-01	8.09E-01	9.36E-01	-1.28E+00	3.80E+00	5.35E+00	5.34E-01	2.78E+00	3.22E+00	-1.24E+00	2.43E+01	2.82E+01	
	009	53.4	-40.9	5/5/2009	10:08	4.59E+02	2.12E+02	1.72E+02	6.40E-02	6.72E-01	8.32E-01	7.73E-01	1.13E+01	7.89E+00	-3.04E+00	8.30E+00	7.82E+00	0.00E+00	2.39E+01	2.81E+01	
	010	53.4	-40.9	8/11/2009	14:26	2.03E+02	1.56E+02	1.65E+02	1.35E-01	7.10E-01	8.69E-01	1.11E+00	4.06E+00	5.52E+00	4.62E-02	4.30E+00	5.44E+00	-3.23E+00	1.71E+01	2.00E+01	
MW-60-72	001	72.4	-59.9	5/8/2007	12:17	9.26E+00	1.52E+02	1.82E+02	3.87E-01	8.13E-01	9.71E-01	1.61E+00	1.72E+00	3.33E+00	5.40E-01	3.21E+00	3.82E+00	8.28E-01	1.69E+01	1.97E+01	MW-60-72
	002	72.4	-59.9	7/27/2007	13:22	1.10E+02	1.64E+02	1.81E+02	-3.27E-01	4.92E-01	5.76E-01	4.79E-01	3.96E+00	4.51E+00	-1.10E+00	3.44E+00	4.17E+00	NA	NA	NA	
	003	72.4	-59.9	10/9/2007	14:15	1.54E+02	1.43E+02	1.54E+02	1.64E-01	6.00E-01	7.12E-01	7.68E-01	3.78E+00	4.27E+00	6.12E-01	3.76E+00	4.33E+00	NA	NA	NA	
	004	72.4	-59.9	1/14/2008	14:12	1.36E+02	1.65E+02	1.75E+02	1.58E-01	5.93E-01	7.23E-01	5.42E-03	3.33E+00	3.56E+00	8.47E-01	2.97E+00	3.54E+00	NA	NA	NA	
	005	72.4	-59.9	4/24/2008	12:20	1.65E+02	1.17E+02	1.93E+02	3.08E-01	4.82E-01	8.38E-01	-5.33E-01	2.37E+00	3.92E+00	1.80E-01	2.23E+00	3.75E+00	NA	NA	NA	
	006	72.4	-59.9	7/30/2008	13:25	8.27E+01	9.69E+01	1.63E+02	1.73E-01	1.41E-01	2.33E-01	-8.79E-01	2.39E+00	3.91E+00	-1.11E+00	2.47E+00	3.96E+00	NA	NA	NA	
	007	72.4	-59.9	11/5/2008	14:58	1.54E+02	1.64E+02	1.78E+02	2.09E-01	6.54E-01	7.78E-01	-9.53E-01	5.63E+00	6.05E+00	-1.43E+00	5.36E+00	5.64E+00	NA	NA	NA	
	008	72.4	-59.9	2/9/2009	11:25	1.67E+02	1.53E+02	1.65E+02	-4.16E-01	7.19E-01	9.50E-01	-6.54E-01	3.00E+00	3.30E+00	7.83E-01	3.09E+00	3.69E+00	-9.25E+00	2.24E+01	2.66E+01	
	009	72.4	-59.9	5/5/2009	10:32	1.57E+02	1.67E+02	1.75E+02	6.32E-02	6.66E-01	7.71E-01	2.29E+00	1.10E+01	7.32E+00	1.75E+00	6.02E+00	7.24E+00	NA	NA	NA	
	010	72.4	-59.9	8/11/2009	10:40	1.73E+02	1.53E+02	1.65E+02	6.31E-02	5.38E-01	6.30E-01	2.68E+00	3.83E+00	4.62E+00	4.36E+00	6.15E+00	5.86E+00	-2.42E+00	1.76E+01	2.04E+01	
MW-60-135	001	134.9	-122.4	5/8/2007	12:03	2.54E+01	1.53E+02	1.81E+02	3.35E-01	6.77E-01	7.74E-01	-1.05E+00	3.50E+00	3.50E+00	1.74E-01	3.12E+00	3.52E+00	4.58E+00	1.77E+01	2.02E+01	MW-60-135
	002	134.9	-122.4	7/27/2007	16:00	3.52E+02	2.03E+02	1.81E+02	-2.13E-01	3.09E-01	4.59E-01	2.58E-02	2.70E+00	3.07E+00	1.78E-01	2.53E+00	3.04E+00	NA	NA	NA	
	003	134.9	-122.4	10/9/2007	14:20	5.20E+02	1.83E+02	1.91E+02	-2.52E-01	4.46E-01	6.31E-01	-1.50E+00	3.40E+00	5.22E+00	-8.89E-02	3.07E+00	3.94E+00	NA	NA	NA	
	004	134.9	-122.4	1/14/2008	14:19	3.79E+02	1.89E+02	1.74E+02	-1.70E-01	6.17E-01	8.52E-01	-1.13E+00	3.14E+00	3.25E+00	-4.22E-01	3.17E+00	3.59E+00	NA	NA	NA	
	005	134.9	-122.4	4/24/2008	12:31	5.63E+02	1.33E+02	1.93E+02	-1.96E-02	3.17E-01	6.09E-01	1.16E+00	2.24E+00	3.93E+00	-1.76E+00	2.57E+00	3.93E+00	NA	NA	NA	
	006	134.9	-122.4	7/30/2008	13:33	4.51E+02	1.42E+02	1.91E+02	1.70E-01	3.44E-01	6.18E-01	-4.68E-01	1.79E+00	2.80E+00	1.43E+00	2.30E+00	3.01E+00	NA	NA	NA	
	007	134.9	-122.4	11/6/2008	10:40	4.25E+02	3.01E+02	1.99E+02	-1.71E-01	5.01E-01	7.18E-01	-2.10E-02	5.71E+00	6.40E+00	-3.93E+00	6.25E+00	5.99E+00	NA	NA	NA	
	008	134.9	-122.4	2/9/2009	12:04	3.53E+02	1.67E+02	1.65E+02	5.52E-01	5.96E-01	6.89E-01	1.42E+00	2.96E+00	3.45E+00	4.24E-01	3.05E+00	3.35E+00	3.71E+00	2.27E+01	2.58E+01	
	009	134.9	-122.4	5/5/2009	10:54	3.17E+02	1.85E+02	1.71E+02	-1.77E-01	6.12E-01	7.45E-01	-3.52E+00	1.31E+01	8.76E+00	3.12E-01	6.81E+00	7.64E+00	NA	NA	NA	
	010	134.9	-122.4	8/11/2009	10:52	3.46E+02	1.66E+02	1.66E+02	4.65E-01	5.88E-01	6.16E-01	1.76E+00	3.36E+00	4.03E+00	4.56E-01	3.51E+00	3.93E+00	-3.79E+00	1.77E+01	2.07E+01	
MW-60-154	001	154.4	-141.9	5/8/2007	12:33	4.13E+01	1.55E+02	1.80E+02	3.06E-01	8.13E-01	9.50E-01	1.97E-01	3.46E+00	3.86E+00	1.46E+00	3.75E+00	4.46E+00	5.52E-01	1.68E+01	1.97E+01	MW-60-154
	002	154.4	-141.9	7/27/2007	16:18	4.62E+02	2.09E+02	1.75E+02	-1.53E-01	3.46E-01	4.39E-01	8.09E-01	4.23E+00	4.66E+00	3.74E+00	2.42E+00	3.80E+00	NA	NA	NA	
	003	154.4	-141.9	10/9/2007	14:23	5.80E+02	1.83E+02	1.56E+02	-1.92E-02	4.98E-01	6.33E-01	-1.63E+00	3.50E+00	5.66E+00	2.20E-01	3.30E+00	3.76E+00	NA	NA	NA	
	004	154.4	-141.9	1/14/2008	12:35	5.59E+02	2.13E+02	1.75E+02	1.10E+00	1.17E+00	1.24E+00	1.59E+00	3.84E+00	4.46E+00	2.92E-01	4.35E+00	4.82E+00	NA	NA	NA	
	005	154.4	-141.9	4/24/2008	12:36	4.53E+02	1.28E+02	1.94E+02	-2.44E-01	3.65E-01	7.77E-01	-1.25E+00	2.37E+00	3.69E+00	1.29E+00	2.26E+00	3.79E+00	NA	NA	NA	
	006	154.4	-141.9	7/30/2008	13:35	5.16E+02	1.44E+02	1.91E+02	5.10E-01	2.50E-01	3.80E-01	-8.80E-01	2.67E+00	3.58E+00	4.30E-01	1.89E+00	3.25E+00	NA	NA	NA	
	007	154.4	-141.9	11/6/2008	11:19	6.87E+02	4.16E+02	3.86E+02	4.32E-01	6.57E-01	7.19E-01	2.47E+00	4.96E+00	5.91E+00	5.49E-01	5.87E+00	6.61E+00	NA	NA	NA	
	008	154.4	-141.9	2/9/2009	12:23	4.15E+02	1.65E+02	1.67E+02	4.63E-01	7.98E-01	8.96E-01	7.14E-01	3.02E+00	3.45E+00	1.01E+00	3.54E+00	4.13E+00	-3.74E+00	2.09E+01	2.42E+01	
	009	154.4	-141.9	5/5/2009	11:15	4.39E+02	2.01E+02	1.72E+02	7.36E-02	5.70E-01	6.38E-01	-2.52E-01	5.89E+00	4.55E+00	-1.47E+00	5.27E+00	5.42E+00	NA	NA	NA	
	010	154.4	-141.9	8/11/2009	11:14	5.18E+02	1.71E+02	1.69E+02	-3.52E-01	7.18E-01	9.59E-01	-3.95E+00	5.04E+00	5.67E+00	-2.95E+00	6.26E+00	5.34E+00	1.57E+00	1.80E+01	2.08E+01	
MW-60-176	001	175.9	-163.4	5/8/2007	15:16	5.50E+02	2.01E+02	1.81E+02	6.88E-02	5.66E-01	7.29E-01	3.59E-01	4.54E+00	4.81E+00	1.14E+00	3.90E+00	3.98E+00	7.69E+00	1.73E+01	1.96E+01	MW-60-176
	002	175.9	-163.4	7/27/2007	17:35	8.49E+02	2.42E+02	1.78E+02	-4.66E-01	3.84E-01	7.37E-01	2.02E+00	3.29E+00	4.06E+00	-1.76E+00	3.15E+00	3.03E+00	NA	NA	NA	
	003	175.9	-163.4	10/9/2007	14:27	7.62E+02	2.01E+02	1.53E+02	-5.95E-02	5.11E-01	6.54E-01	-2.68E-01	2.63E+00	2.83E+00	3.91E-01	2.71E+00	3.09E+00	NA	NA	NA	
	004	175.9	-163.4	1/14/2008	12:25	6.60E+02	2.25E+02	1.93E+02	-3.60E-02	7.09E-01	1.04E+00	2.22E-01	3.99E+00	4.52E+00	5.49E-01	3.54E+00	4.09E+00	NA	NA	NA	
	005	175.9	-163.4	4/24/2008	13:10	7.77E+02	3.01E+02	2.72E+02	2.68E-01	4.91E-01	8.54E-01	1.81E+00	3.70E+00	4.60E+00	9.95E-01	3.53E+00	3.95E+00	NA	NA	NA	
	006	175.9	-163.4	7/30/2008	14:08	8.55E+02	1.67E+02	1.91E+02	2.02E-02	2.96E-01	5.38E-01	3.15E-01	2.12E+00	3.44E+00	2.05E-01	2.03E+00	3.34E+00	NA	NA	NA	
	007	175.9	-163.4	11/6/2008	11:55	8.32E+02	4.33E+02	3.86E+02	2.17E-01	4.71E-01	5.45E-01	-2.63E+00	5.09E+00	5.07E+00	-1.06E-01	5.56E+00	6.33E+00	NA	NA	NA	
	008	175.9	-163.4	2/9/2009	13:08	9.16E+02	1.91E+02	1.70E+02	4.75E-01	6.80E-01	7.58E-01	-2.42E-01	3.27E+00	3.56E+00	5.10E-01	3.29E+00	3.74E+00	-1.22E+01	2.06E+01	2.44E+01	
	009	175.9	-163.4	5/5/2009	11:18	1.14E+03	2.64E+02	1.72E+02	2.40E-01	6.00E-01	6.90E-01	-4.10E+00	3.43E+00	5.63E+00	1.23E+00	5.59E+00	6.59E+00	NA	NA	NA	
	010	175.9	-163.4	8/11/2009	11:49	1.03E+03	1.94E+02	1.65E+02	-2.36E-02	3.44E-01	4.53E-01	1.75E+00	4.84E+00	5.71E+00	2.25E+00	4.39E+00	5.91E+00	2.65E+00	1.77E+01	2.07E+01	
MW-62-18	001	13.5	1.2	5/17/2007	13:10	4.42E+02	2.13E+02	1.55E+02	2.98E-02	5.53E-01	7.27E-01	-5.10E-01	2.61E+00	3.89E+00	1.00E-01	2.79E+00	3.19E+00	4.61E+00	1.52E+01	1.74E+01	MW-62-18
	002	13.5	1.2	7/26/2007	15:45	5.08E+02	2.13E+02	1.76E+02	4.68E-02	4.93E-01	5.35E-01	9.04E-01	3.75E+00	4.35E+00	-2.80E+00	4.38E+00	3.80E+00	NA	NA	NA	
	003	13.5	1.2	10/10/2007	13:50	3.76E+02	1.73E+02	1.55E+02	1.80E+00	6.67E-01	4.37E-01	0.00E+00	3.39E+00	1.87E+00	-7.14E-02	1.71E+00	1.92E+00	NA	NA	NA	
	004	13.5	1.2	1/31/2008	15:15	3.50E+02	1.34E+02	1.34E+02	4.95E-01	7.55E-01	8.27E-01	1.18E+00	4.23E+00	4.46E+00	5.24E-01	3.38E+00	3.96E+00	NA	NA	NA	
	005	13.5	1.2	8/6/2008	12:55	2.69E+02	1.41E+02	2.25E+02	5.31E-01	3.30E-01	4.39E-01	9.69E-02	1.67E+00	2.82E+00	-1.26E-01	1.99E+00	3.33E+00	NA	NA	NA	
	006	13.5	1.2	10/29/2008	13:20	4.08E+02	1.65E+02	1.66E+02	5.23E-01	6.03E-01	6.87E-01	-3.09E-02	5.10E+00	5.65E+00	-3.91E+00	5.25E+00	4.70E+00	NA	NA	NA	
	007	13.5	1.2	1/23/2009	11:55	4.64E+02	1.39E+02	1.07E+02	1.09E+00	6.47E-01	6.30E-01	9.88E-01	2.55E+00	3.06E+00	-3.42E-01	2.48E+00	2.74E+00	NA	NA	NA	
	008	13.5	1.2	4/15/2009	13:18	4.26E+02	1.85E+02	1.56E+02	1.76E-01	5.99E-01	7.14E-01	-3.54E-01	3.81E+00	3.87E+00	1.91E+00	3.29E+00	4.20E+00	-1.88E+00	1.86E+01	2.17E+01	
	009	13.5	1.2	7/22/2009	14:24	2.36E+02	2.16E+02	2.25E+02	1.04E-01	6.42E-01	7.94E-01	-8.49E-01	2.94E+00	3.06E+00	-2.70E+00	3.56E+00	3.28E+00	NA	NA	NA	
MW-62-37	001	34.5	-19.8	5/17/2007	11:10	2.57E+02	1.70E+02	1.55E+02	3.30E-01	8.28E-01	9.56E-01	9.61E-01	2.00E+00	2.37E+00	-1.12E+00	2.25E+00	2.31E+00	1.01E+01	1.81E+01	2.04E+01	MW-62-37

IPEC00224602

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-62-37	002	34.5	-19.8	7/26/2007	15:35	2.50E+02	1.79E+02	1.75E+02	-2.57E-01	4.14E-01	5.18E-01	-6.88E-02	2.64E+00	2.94E+00	-4.23E-01	2.50E+00	2.81E+00	NA	NA	NA	MW-62-37
	003	34.5	-19.8	10/10/2007	14:50	3.02E+02	1.53E+02	1.47E+02	-1.67E-01	4.44E-01	6.10E-01	2.12E-01	1.81E+00	2.02E+00	-7.67E-01	1.74E+00	1.83E+00	NA	NA	NA	
	004	34.5	-19.8	1/10/2008	13:55	3.95E+02	1.63E+02	1.71E+02	1.54E-01	6.05E-01	7.24E-01	8.25E-01	4.43E+00	4.62E+00	-2.10E-01	3.81E+00	4.19E+00	NA	NA	NA	
	006	34.5	-19.8	8/6/2008	12:10	3.94E+02	1.17E+02	1.42E+02	2.23E-01	2.69E-01	4.34E-01	-2.55E+00	1.52E+00	2.06E+00	-1.08E+00	1.56E+00	2.38E+00	NA	NA	NA	
	007	34.5	-19.8	10/29/2008	13:27	3.39E+02	1.71E+02	1.66E+02	1.36E+00	6.57E-01	5.24E-01	4.20E-01	4.77E+00	5.33E+00	-2.22E+00	5.19E+00	5.20E+00	NA	NA	NA	
	008	34.5	-19.8	1/23/2009	12:20	4.67E+02	1.42E+02	1.06E+02	1.28E-01	7.41E-01	9.92E-01	-7.09E-01	3.12E+00	3.43E+00	-6.49E-01	3.14E+00	3.30E+00	NA	NA	NA	
	009	34.5	-19.8	4/15/2009	13:13	4.39E+02	1.02E+02	1.35E+02	-3.16E-01	6.60E-01	0.49E-01	-1.73E-01	5.94E+00	5.96E+00	-6.46E-01	4.44E+00	4.81E+00	-1.65E+01	1.74E+01	2.14E+01	
	0:0	34.5	19.8	7/22/2009	16:02	2.52E+02	3.22E+02	2.30E+02	3.69E-01	6.77E-01	8.31E-01	1.79E+00	3.66E+00	3.82E+00	1.61E+00	3.56E+00	3.57E+00	NA	NA	NA	
MW-62-53	001	53.1	40.3	5/10/2007	15:00	3.53E+02	1.91E+02	1.72E+02	4.41E-01	7.97E-01	9.26E-01	6.50E-01	3.40E+00	3.86E+00	9.12E-01	3.52E+00	3.74E+00	5.00E+00	1.40E+01	1.68E+01	MW-62-53
	002	53.1	40.3	7/26/2007	15:34	3.45E+02	1.94E+02	1.78E+02	3.56E-01	6.98E-01	7.35E-01	0.00E+00	4.62E+00	4.53E+00	-8.44E-01	2.77E+00	2.45E+00	NA	NA	NA	
	003	53.1	40.3	1/10/2008	15:47	3.48E+02	1.67E+02	1.71E+02	4.45E-02	6.77E-01	8.15E-01	-7.91E-01	2.75E+00	2.99E+00	-7.69E-01	2.38E+00	3.43E+00	NA	NA	NA	
	005	53.1	40.3	8/6/2008	12:35	3.52E+02	1.54E+02	2.41E+02	5.52E-03	2.54E-01	4.25E-01	1.38E+00	2.24E+00	2.96E+00	3.02E-01	2.30E+00	3.87E+00	NA	NA	NA	
	006	53.1	40.3	10/29/2008	13:51	4.08E+02	1.67E+02	1.67E+02	6.63E-02	3.87E-01	4.94E-01	-3.99E-01	3.83E+00	6.51E+00	-2.87E+00	8.29E+00	7.79E+00	NA	NA	NA	
	007	53.1	40.3	1/23/2009	12:44	3.56E+02	2.16E+02	2.06E+02	4.53E-01	7.68E-01	8.50E-01	2.27E-01	3.30E+00	3.77E+00	-1.27E+00	3.56E+00	3.71E+00	NA	NA	NA	
	008	53.1	40.3	4/15/2009	13:29	4.33E+02	1.82E+02	1.36E+02	-5.89E-01	6.65E-01	9.79E-01	-4.92E-01	5.30E+00	5.53E+00	2.83E-01	2.32E+00	3.31E+00	-6.24E+00	1.79E+01	2.12E+01	
	009	53.1	40.3	7/22/2009	14:01	2.40E+02	2.21E+02	2.33E+02	7.09E-01	7.95E-01	8.34E-01	3.00E-02	3.13E+00	3.55E+00	3.78E-01	3.24E+00	3.73E+00	NA	NA	NA	
MW-62-71	001	71.1	-58.3	5/10/2007	11:35	5.02E+02	2.00E+02	1.71E+02	6.16E-01	8.34E-01	8.92E-01	-8.78E-01	3.51E+00	3.75E+00	1.37E-01	3.21E+00	3.59E+00	4.93E+00	1.29E+01	1.46E+01	MW-62-71
	002	71.1	-58.3	7/26/2007	12:20	1.51E+02	1.65E+02	1.74E+02	2.15E-01	7.26E-01	8.29E-01	1.11E+00	3.36E+00	3.91E+00	-2.39E-01	3.48E+00	3.90E+00	NA	NA	NA	
	003	71.1	-58.3	10/10/2007	12:23	2.69E+02	1.61E+02	1.55E+02	1.15E-01	5.22E-01	6.30E-01	1.18E+00	2.43E+00	2.45E+00	1.54E+00	2.10E+00	2.55E+00	NA	NA	NA	
	004	71.1	-58.3	1/10/2008	14:04	3.53E+02	1.89E+02	1.94E+02	3.78E-01	5.85E-01	6.46E-01	-7.82E-01	2.51E+00	2.72E+00	3.78E-02	2.22E+00	2.55E+00	NA	NA	NA	
	006	71.1	-58.3	8/6/2008	11:42	4.64E+02	1.66E+02	2.53E+02	2.51E-01	2.60E-01	5.24E-01	5.15E-01	2.01E+00	2.52E+00	-4.96E-01	2.23E+00	3.66E+00	NA	NA	NA	
	007	71.1	-58.3	10/29/2008	12:00	5.12E+02	1.70E+02	1.66E+02	3.70E-01	4.81E-01	5.23E-01	-2.34E+00	5.97E+00	6.37E+00	-1.31E+00	6.46E+00	7.00E+00	NA	NA	NA	
	008	71.1	-58.3	1/23/2009	12:12	2.59E+02	2.07E+02	2.04E+02	2.47E-01	7.35E-01	8.36E-01	1.92E+00	3.53E+00	4.21E+00	-6.84E-01	3.87E+00	4.22E+00	NA	NA	NA	
	009	71.1	-58.3	4/15/2009	12:06	4.78E+02	1.89E+02	1.36E+02	2.78E-01	6.38E-01	7.30E-01	1.27E+00	3.32E+00	4.21E+00	1.21E+00	3.48E+00	4.20E+00	-3.18E+00	1.88E+01	2.20E+01	
	0:0	71.1	-58.3	7/22/2009	12:52	3.52E+02	3.31E+02	2.32E+02	5.54E-01	7.07E-01	0.69E-01	-1.00E+00	3.46E+00	3.75E+00	6.91E-01	3.36E+00	4.50E+00	NA	NA	NA	
MW-62-92	001	91.6	-78.8	5/10/2007	11:18	7.00E+02	2.16E+02	1.66E+02	7.11E-01	9.21E-01	9.35E-01	1.58E+00	4.63E+00	5.30E+00	7.45E-01	3.12E+00	3.72E+00	7.73E+00	1.30E+01	1.65E+01	MW-62-92
	002	91.6	-78.8	7/26/2007	12:35	4.57E+02	2.07E+02	1.80E+02	-2.28E-02	3.39E-01	3.94E-01	6.50E-01	3.15E+00	3.63E+00	8.32E-01	3.38E+00	3.95E+00	NA	NA	NA	
	003	91.6	-78.8	10/10/2007	12:15	4.28E+02	1.73E+02	1.57E+02	-1.91E-01	4.77E-01	6.54E-01	6.23E-01	1.88E+00	2.01E+00	1.85E+00	1.80E+00	2.21E+00	NA	NA	NA	
	004	91.6	-78.8	1/10/2008	11:09	3.54E+02	1.92E+02	1.94E+02	1.38E-01	6.59E-01	7.90E-01	3.75E-01	2.94E+00	3.35E+00	9.37E-01	3.47E+00	3.62E+00	NA	NA	NA	
	006	91.6	-78.8	8/6/2008	11:49	4.55E+02	1.59E+02	2.36E+02	2.43E-01	3.29E-01	5.54E-01	1.51E+00	2.29E+00	4.11E+00	5.16E+00	2.59E+00	5.35E+00	NA	NA	NA	
	007	91.6	-78.8	10/29/2008	12:10	4.82E+02	1.63E+02	1.66E+02	-4.52E-02	5.40E-01	7.12E-01	1.64E+00	5.57E+00	7.61E+00	2.71E+00	6.33E+00	7.68E+00	NA	NA	NA	
	008	91.6	-78.8	1/23/2009	12:28	5.25E+02	2.33E+02	2.05E+02	-1.59E-01	6.86E-01	8.73E-01	2.90E-01	4.53E+00	4.83E+00	1.88E+00	3.83E+00	4.74E+00	NA	NA	NA	
	009	91.6	-78.8	4/15/2009	12:15	6.08E+02	2.06E+02	1.36E+02	1.09E-01	5.42E-01	6.50E-01	3.15E-01	5.21E+00	5.14E+00	-9.11E-01	3.36E+00	3.56E+00	-1.28E+01	1.83E+01	2.22E+01	
	0:0	91.6	-78.8	7/22/2009	11:57	2.80E+02	2.24E+02	2.32E+02	3.44E-02	6.37E-01	8.10E-01	8.43E-01	3.39E+00	3.96E+00	-9.42E-01	3.40E+00	3.57E+00	NA	NA	NA	
MW-62-138	001	138.3	-125.3	5/10/2007	10:22	4.55E+02	1.93E+02	1.74E+02	6.19E-01	8.16E-01	8.30E-01	1.73E+00	4.17E+00	5.28E+00	-1.40E+00	3.42E+00	3.55E+00	-4.93E+00	1.32E+01	1.64E+01	MW-62-138
	002	138.3	-125.3	7/26/2007	15:55	5.38E+02	2.12E+02	1.82E+02	5.26E-01	5.79E-01	6.39E-01	6.88E-02	3.51E+00	3.96E+00	6.39E-01	3.23E+00	4.54E+00	NA	NA	NA	
	003	138.3	-125.3	10/10/2007	14:46	7.78E+02	2.02E+02	1.54E+02	6.87E-01	8.30E-01	8.59E-01	0.00E+00	2.67E+00	2.90E+00	-1.15E+00	2.44E+00	2.50E+00	NA	NA	NA	
	004	138.3	-125.3	1/10/2008	10:10	7.69E+02	1.82E+02	1.48E+02	1.54E-01	4.32E-01	5.02E-01	4.30E-01	3.40E+00	3.88E+00	1.02E+00	3.47E+00	3.91E+00	NA	NA	NA	
	006	138.3	-125.3	8/6/2008	11:41	5.33E+02	1.55E+02	2.28E+02	1.21E+00	4.16E-01	5.91E-01	8.54E-01	2.44E+00	4.27E+00	3.85E-01	2.41E+00	4.20E+00	NA	NA	NA	
	007	138.3	-125.3	10/29/2008	12:25	7.50E+02	1.82E+02	1.66E+02	1.24E+00	5.53E-01	3.38E-01	1.40E+00	5.06E+00	7.02E+00	2.04E+00	8.28E+00	8.60E+00	NA	NA	NA	
	000	130.3	-125.3	1/23/2009	12:50	6.26E+02	3.43E+02	2.04E+02	2.46E+00	8.27E-01	6.23E-01	-4.23E-01	2.40E+00	2.67E+00	5.99E-01	2.24E+00	2.64E+00	NA	NA	NA	
	009	130.3	-125.3	4/15/2009	12:38	7.72E+02	3.13E+02	1.32E+02	1.70E+00	8.70E-01	7.23E-01	-7.43E-01	5.13E+00	4.12E+00	4.95E-01	3.20E+00	3.73E+00	1.23E+00	1.03E+01	2.12E+01	
	0:0	138.3	125.3	7/22/2009	16:55	6.21E+02	3.54E+02	2.25E+02	1.31E+00	7.83E-01	7.15E-01	1.96E+00	8.81E+00	7.55E+00	3.36E-01	3.53E+00	4.18E+00	NA	NA	NA	
MW-62-182	001	182.1	-169.3	5/10/2007	10:43	5.41E+02	2.09E+02	1.76E+02	1.22E-01	7.18E-01	8.90E-01	3.74E-02	3.50E+00	3.33E+00	-2.40E-01	3.23E+00	3.53E+00	-1.76E+00	1.24E+01	1.50E+01	MW-62-182
	002	182.1	-169.3	7/26/2007	16:20	4.17E+02	2.06E+02	1.83E+02	-9.56E-02	2.73E-01	3.26E-01	-1.16E+00	3.10E+00	3.24E+00	6.21E-01	2.70E+00	3.15E+00	NA	NA	NA	
	003	182.1	-169.3	10/10/2007	14:42	4.54E+02	1.83E+02	1.54E+02	-1.48E-01	4.40E-01	5.99E-01	6.04E-01	1.91E+00	1.91E+00	5.45E-01	1.92E+00	2.23E+00	NA	NA	NA	
	004	182.1	-169.3	1/10/2008	11:15	4.70E+02	1.63E+02	1.71E+02	8.15E-02	5.13E-01	6.33E-01	-1.17E-01	2.96E+00	2.95E+00	5.22E-01	1.31E+00	2.33E+00	NA	NA	NA	
	006	182.1	-169.3	8/6/2008	13:54	3.59E+02	1.52E+02	2.34E+02	5.30E-02	3.33E-01	6.16E-01	8.48E-01	2.19E+00	3.85E+00	-2.67E-01	2.40E+00	3.97E+00	NA	NA	NA	
	007	182.1	-169.3	10/29/2008	15:52	4.98E+02	1.70E+02	1.66E+02	4.40E-02	7.13E-01	9.16E-01	1.60E+00	5.21E+00	6.92E+00	2.99E-01	5.32E+00	6.54E+00	NA	NA	NA	
	008	182.1	-169.3	1/23/2009	13:49	4.98E+02	2.23E+02	2.03E+02	-1.85E-01	4.56E-01	6.98E-01	-1.91E+00	2.55E+00	2.68E+00	-1.03E+00	2.43E+00	2.55E+00	NA	NA	NA	
	009	182.1	-169.3	4/15/2009	14:53	7.36E+02	2.21E+02	1.37E+02	-6.26E-01	7.43E-01	9.46E-01	2.06E-01	5.32E+00	4.21E+00	2.09E-01	4.55E+00	5.11E+00	-6.59E+00	1.83E+01	2.17E+01	
	0:0	182.1	-169.3	7/22/2009	17:00	4.66E+02	2.43E+02	2.33E+02	2.73E-01	8.22E-01	9.71E-01	5.02E-01	2.96E+00	3.47E+00	-9.12E-01	2.73E+00	2.70E+00	NA	NA	NA	
MW-63-18	001	14.9	0.7	5/18/2007	10:35	2.30E+02	1.59E+02	1.57E+02	4.75E-02	5.37E-01	6.95E-01	8.56E-01	2.44E+00	2.67E+00	1.11E+00	2.55E+00	2.74E+00	7.36E+00	1.61E+01	1.82E+01	MW-63-18
	002	14.9	0.7	7/30/2007	13:10	2.00E+02	1.74E+02	1.88E+02	-2.18E-01	3.91E-01	4.58E-01	1.98E+00	2.63E+00	3.03E+00	-1.31E+00	2.50E+00	2.53E+00	NA	NA	NA	
	003	14.9	0.7	10/11/2007	12:43	1.49E+02	1.56E+02	1.71E+02	5.08E-01	6.25E-01	7.12E-01	1.92E+00	2.65E+00	2.76E+00	-1.41E+00	2.52E+00	2.74E+00	NA	NA	NA	
	004	14.9	0.7	1/9/2008	14:55	1.23E+02	1.56E+02	1.71E+02	-6.54E-02	3.55E-01	7.88E-01	2.55E+00	3.29E+00	3.42E+00	1.97E+00	2.94E+00	3.15E+00	NA	NA	NA	
	005	14.9	0.7	4/23/2008	14:10	2.77E+02	1.53E+02	2.43E+02	2.31E-02	4.68E-01	8.52E-01	8.04E-01	2.33E+00	4.03E+00	7.68E-01	2.26E+00	3.69E+00	8.35E+00	1.43E+01	2.42E+01	
	006	14.9	0.7	7/30/2008	11:13	1.79E+02	1.20E+02	1.91E+02	3.29E+00	5.61E-01	4.38E-01	-1.71E-02	1.73E+00	2.97E+00	-1.14E+00	2.34E+00	2.49E+00	NA	NA	NA	
	007	14.9	0.7	11/5/2008	10:53	2.20E+02	1.59E+02	1.65E+02	3.25E-01	6.20E-01	7.33E-01	1.21E-01	5.91E+00	6.75E+00	-1.52E+00	5.73E+00	6.04E+00	NA	NA	NA	
	008	14.9	0.7	1/29/2009	13:46	1.54E+02	1.83E+02	1.96E+02	3.32E-01	6.74E-01	8.57E-01	9.73E-02	2.61E+00	3.01E+00	1.02E+00	3.00E+00	3.87E+00	NA	NA	NA	
	009	14.9	0.7	5/4/2009	12:59	1.57E+02	1.62E+02	1.64E+02	1.26E-01	6.00E-01	6.93E-01	2.37E+00	5.86E+00	7.55E+00	8.34E-01	4.26E+00	4.94E+00	NA	NA	NA	
	0:0	14.9	0.7	7/30/2009	14:26	3.60E+02	1.83E+02	1.86E+02	-2.47E-01	2.76E-01	4.70E-01	2.06E+00	5.42E+00	6.37E+00	4.32E-01	5.29E+00	6.85E+00	NA	NA	NA	
MW-63-34	001	31.5	-17.3	5/18/2007	13:03	2.28E+02	1.53E+02	1.57E+02	-1.67E-01	5.43E-01	7.77E-01	4.10E-01	2.21E+00	2.51E+00	-3.29E-01	2.55E+00	2.44E+00	1.57E+00	1.54E+01	1.87E+01	MW-63-34
	002	31.5	-17.3	7/30/2007	13:28	2.60E+02	1.77E+02	1.90E+02	-1.64E-01	3.36E-01	4.33E-01	1.73E-01	3.66E+00	3.55E+00	3.98E-01	3.56E+00	4.24E+00	NA	NA	NA	
	003	31.5	-17.3	10/11/2007	12:50	2.31E+02	1.61E+02	1.74E+02	-2.72E-01	4.44E-01	6.73E-01	-6.24E-01	3.60E+00	3.55E+00	3.81E-01	2.55E+00	3.10E+00	NA	NA	NA	
	004	31.5	-17.3	1/9/2008	14:20	3.26E+02	1.63E+02	1.71E+02	1.24E-01	5.57E-01	6.34E-01	1.83E+00	3.63E+00	4.44E+00	3.53E-01	3.20E+00	4.25E+00	NA	NA	NA	
	005	31.5	-17.3	4/23/2008	13:55	4.50E+02	2.45E+02	3.82E-01	5.68E-01	9.39E-01	1.71E+00	2.05E+00	3.76E+00	-1.77E+00	3.53E+00	4.19E+00	5.77E+00	1.46E+01	2.45E+01		
	006	31.5	-17.3	7/30/2008	11:12	4.41E+02	1.39E+02	1.91E+02	1.15E+00	4.60E-01	6.45E-01	-1.48E-02	2.26E+00	3.87E+00	-7.91E-01	2.52E+00	3.65E+00	NA	NA	NA	
	007	31.5	-17.3	11/5/2008	11:03	4.14E+02	3.77E+02	3.85E+02	3.15E-01	6.77E-01	7.78E-01	5.73E-01	5.43E+00	6.10E+00	-1.40E-01	5.17E+00	5.67E+00	NA	NA	NA	
	008	31.5	-17.3	1/29/2009	12:22	4.20E+02	2.22E+02	1.96E+02	2.20E-01	6.87E-01	8.13E-01	1.41E+00	2.91E+00	3.45E+00	-2.64E-01	2.96E+00	3.23E+00	NA	NA	NA	
	009	31.5	-17.3	5/4/2009	12:10	3.23E+02	1.76E+02	1.55E+02	2.16E-01	6.03E-01	6.39E-01	6.73E-01	7.29E+00	4.86E+00	1.92E+00	3.42E+00	4.32E+00	NA	NA	NA	
	0:0	31.5	-17.3	7/30/2009	14:00	3.37E+02	1.80E+02	1.88E+02	2.57E-01	5.50E-01	6.37E-01	6.62E-01	5.50E+00	5.65E+00	1.70E+00	5.49E+00	6.42E+00	NA	NA	NA	
MW-63-50	001	49.5	-37.2	5/15/2007	11:48	3.26E+02	1.88E+02	1.73E+02	-9.70E-02	6.15E-01	8.32E-01	-1.33E-01	5.28E+00	5.01E+00	6.64E-01	4.23E+00	4.81E+00	-2.41E+00	1.24E+01	1.51E+01	MW-63-50
	002	49.5	-37.2	7/25/2007	14:00	2.25E+02	1.80E+02	1.95E+02	1.29E-01	6.03E-01	6.34E-01	2.08E+00	3.18E+00	3.90E+00	-1.36E-01	3.19E+00	3.54E+00	NA	NA	NA	
	003	49.5	-37.2	10/11/2007	11:10	2.89E+02	1.62E+02	1.73E+02	-3.41E-01	5.10E-01	7.57E-01	6.21E-01	2.98E+00	3.35E+00	1.56E+00	3.17E+00	3.86E+00	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-63-50	004	49.5	-37.2	1/9/2008	12:32	3.56E+02	1.67E+02	1.72E+02	4.48E-01	7.41E-01	8.26E-01	3.37E-01	2.66E+00	3.02E+00	-1.42E+00	3.14E+00	3.20E+00	NA	NA	NA	MW-63-50
	005	49.5	-37.2	4/23/2008	13:04	2.70E+02	1.63E+02	2.65E+02	4.27E-01	5.45E-01	9.26E-01	-1.10E+00	1.85E+00	2.93E+00	9.01E-01	1.75E+00	3.27E+00	2.43E+00	1.40E+01	2.41E+01	
	006	49.5	-37.2	7/30/2008	10:29	3.52E+02	1.52E+02	1.91E+02	6.10E-01	4.97E-01	8.32E-01	-1.17E+00	1.85E+00	2.66E+00	-1.22E+00	1.91E+00	2.80E+00	NA	NA	NA	
	007	49.5	-37.2	11/5/2008	9:39	3.11E+02	1.94E+02	1.95E+02	5.67E-01	6.58E-01	6.79E-01	1.26E+00	5.36E+00	7.04E+00	-1.21E-01	6.52E+00	7.08E+00	NA	NA	NA	
	008	49.5	-37.2	1/29/2009	14:06	2.98E+02	2.04E+02	1.96E+02	5.67E-01	8.00E-01	8.76E-01	8.59E-02	3.09E+00	3.51E+00	1.37E+00	3.41E+00	4.19E+00	NA	NA	NA	
	009	49.5	-37.2	5/4/2009	11:31	3.30E+02	1.80E+02	1.66E+02	1.58E-01	5.73E-01	6.39E-01	1.22E+00	5.27E+00	5.12E+00	-2.49E-01	3.98E+00	4.34E+00	NA	NA	NA	
	010	49.5	-37.2	7/30/2009	11:05	3.35E+02	1.90E+02	1.67E+02	5.40E-01	5.04E-01	5.31E-01	2.00E+00	5.27E+00	7.35E+00	1.36E+00	6.53E+00	7.71E+00	NA	NA	NA	
MW-63-93	001	93	80.7	10/2/2006	13:10	5.16E+02	1.95E+02	5.70E+01	7.81E-02	6.73E-01	7.32E-01	5.76E-01	1.43E+01	1.55E+01	4.42E+00	1.57E+01	2.03E+01	5.31E+00	1.23E+01	3.54E+01	MW-63-93
	002	93	80.7	5/15/2007	12:45	2.51E+02	1.80E+02	1.75E+02	6.20E-02	7.29E-01	9.34E-01	1.67E-01	1.80E+00	2.66E+00	5.57E-01	4.54E+00	4.51E+00	NA	NA	NA	
	003	93	-80.7	7/25/2007	14:34	2.37E+02	1.82E+02	1.92E+02	-4.43E-01	4.41E-01	5.29E-01	1.24E+00	3.31E+00	3.90E+00	5.29E-03	3.75E+00	4.15E+00	NA	NA	NA	
	004	93	-80.7	10/11/2007	11:17	1.15E+02	1.51E+02	1.72E+02	6.19E-01	8.90E-01	9.47E-01	-6.98E-01	2.97E+00	3.14E+00	-1.77E+00	3.33E+00	3.73E+00	NA	NA	NA	
	005	93	-80.7	1/9/2008	12:46	2.15E+02	1.59E+02	1.71E+02	1.86E-01	7.08E-01	8.45E-01	7.74E-01	3.06E+00	3.56E+00	1.05E-01	3.20E+00	3.58E+00	NA	NA	NA	
	006	93	-80.7	4/23/2008	11:23	3.02E+02	1.63E+02	2.65E+02	2.93E-01	5.46E-01	9.39E-01	3.49E-01	2.27E+00	3.88E+00	7.04E-01	2.41E+00	4.24E+00	-3.72E+00	1.41E+01	2.46E+01	
	007	93	-80.7	7/29/2008	14:17	2.38E+02	1.25E+02	1.92E+02	2.28E-03	2.21E-01	3.36E-01	-4.02E-01	2.01E+00	3.36E+00	-3.19E-01	1.96E+00	3.23E+00	NA	NA	NA	
	008	93	-80.7	11/5/2008	10:14	3.50E+02	3.75E+02	3.86E+02	-9.77E-02	1.94E-01	2.36E-01	1.53E+00	5.10E+00	5.92E+00	2.80E+00	6.24E+00	7.60E+00	NA	NA	NA	
	009	93	-80.7	1/29/2009	14:20	3.40E+02	2.09E+02	1.93E+02	1.18E-01	6.33E-01	7.75E-01	-9.44E-01	3.17E+00	3.42E+00	-8.17E-01	3.53E+00	3.88E+00	NA	NA	NA	
	010	93	-80.7	5/4/2009	12:00	1.66E+02	1.59E+02	1.64E+02	5.44E-01	5.13E-01	5.53E-01	2.00E+00	5.72E+00	6.48E+00	-1.69E+00	3.53E+00	3.63E+00	NA	NA	NA	
	011	93	-80.7	7/30/2009	11:30	2.64E+02	1.77E+02	1.88E+02	1.81E-01	3.63E-01	4.15E-01	2.45E+00	5.54E+00	6.51E+00	3.68E-01	5.56E+00	6.36E+00	NA	NA	NA	
MW-63-112	001	111.5	-59.2	5/15/2007	13:10	4.24E+02	1.95E+02	1.75E+02	-5.27E-02	7.50E-01	9.42E-01	2.58E+00	3.90E+00	5.55E+00	5.59E-01	3.72E+00	4.19E+00	-5.14E+00	1.34E+01	3.55E+01	MW-63-112
	002	111.5	-59.2	7/25/2007	14:52	2.69E+02	1.83E+02	1.97E+02	6.32E-02	3.46E-01	3.99E-01	6.92E-01	4.14E+00	4.19E+00	-6.35E-01	3.94E+00	4.34E+00	NA	NA	NA	
	003	111.5	-59.2	10/11/2007	13:45	2.78E+02	1.62E+02	1.72E+02	-1.94E-02	6.75E-01	8.71E-01	-5.04E+00	5.49E+00	6.52E+00	7.65E-01	5.50E+00	6.15E+00	NA	NA	NA	
	004	111.5	-59.2	1/9/2008	10:20	4.69E+02	1.73E+02	1.72E+02	2.19E-01	5.07E-01	5.92E-01	3.90E-01	3.30E+00	3.34E+00	2.87E-01	3.56E+00	3.75E+00	NA	NA	NA	
	005	111.5	-59.2	4/23/2008	11:08	3.72E+02	1.63E+02	2.65E+02	-3.90E-02	3.96E-01	7.94E-01	4.77E-01	2.30E+00	3.89E+00	1.75E+00	2.78E+00	4.52E+00	-5.00E-01	1.43E+01	2.48E+01	
	006	111.5	-59.2	7/29/2008	14:20	2.67E+02	1.01E+02	1.63E+02	7.08E-01	5.39E-01	8.50E-01	6.61E-01	2.23E+00	3.89E+00	1.07E+00	2.40E+00	4.41E+00	NA	NA	NA	
	007	111.5	-59.2	11/4/2008	12:41	2.75E+02	1.92E+02	2.01E+02	4.72E-01	5.00E-01	6.17E-01	1.69E-01	5.60E+00	6.43E+00	-2.75E+00	0.34E+00	7.50E+00	NA	NA	NA	
	008	111.5	-59.2	1/30/2009	14:39	4.37E+02	2.21E+02	1.97E+02	3.43E-02	7.80E-01	9.24E-01	1.10E+00	2.81E+00	2.86E+00	1.77E+00	3.41E+00	4.13E+00	NA	NA	NA	
	009	111.5	-59.2	5/4/2009	14:30	4.42E+02	1.94E+02	1.64E+02	1.54E-01	5.99E-01	7.38E-01	-2.30E+00	5.13E+00	4.12E+00	1.38E+00	3.93E+00	4.71E+00	NA	NA	NA	
	010	111.5	-59.2	7/30/2009	13:54	4.64E+02	1.83E+02	1.86E+02	1.50E-01	5.70E-01	6.78E-01	-5.23E+00	7.61E+00	5.36E+00	4.44E+00	6.98E+00	8.68E+00	NA	NA	NA	
MW-63-121	001	121	-108.7	5/15/2007	13:42	3.11E+02	1.83E+02	1.75E+02	3.00E-01	7.97E-01	9.37E-01	6.30E-01	4.25E+00	4.20E+00	-1.15E+00	3.55E+00	3.87E+00	2.29E+00	1.52E+01	3.77E+01	MW-63-121
	002	121	-108.7	7/25/2007	11:50	2.96E+02	1.82E+02	1.94E+02	3.19E-01	5.31E-01	5.93E-01	-1.31E+00	3.29E+00	3.46E+00	1.70E-01	3.46E+00	3.87E+00	NA	NA	NA	
	003	121	-108.7	10/11/2007	13:51	4.62E+02	1.70E+02	1.74E+02	2.39E-01	6.25E-01	7.37E-01	2.48E+00	4.51E+00	4.94E+00	1.54E+00	4.30E+00	4.54E+00	NA	NA	NA	
	004	121	-108.7	1/9/2008	10:42	5.40E+02	1.74E+02	1.71E+02	2.06E-02	4.70E-01	6.29E-01	2.54E+00	3.33E+00	4.15E+00	1.09E+00	3.41E+00	4.02E+00	NA	NA	NA	
	005	121	-108.7	4/23/2008	11:17	4.54E+02	1.34E+02	1.96E+02	5.36E-01	4.94E-01	8.34E-01	-3.56E-01	9.43E-01	1.55E+00	-1.33E+00	2.71E+00	1.81E+00	-3.22E+00	1.41E+01	2.46E+01	
	006	121	-108.7	7/29/2008	14:30	3.44E+02	1.04E+02	1.61E+02	7.60E-01	3.83E-01	5.73E-01	2.86E-01	2.03E+00	3.57E+00	1.23E+00	2.30E+00	4.11E+00	NA	NA	NA	
	007	121	-108.7	11/4/2008	12:43	4.55E+02	2.06E+02	1.96E+02	3.81E-01	7.52E-01	8.55E-01	-7.97E-01	5.42E+00	5.97E+00	1.20E+00	6.38E+00	7.41E+00	NA	NA	NA	
	008	121	-108.7	1/30/2009	14:41	6.23E+02	2.42E+02	1.97E+02	7.30E-01	5.09E-01	4.47E-01	1.51E+00	3.13E+00	2.92E+00	5.14E-01	2.84E+00	3.45E+00	NA	NA	NA	
	009	121	-108.7	5/4/2009	14:35	5.58E+02	2.04E+02	1.65E+02	7.71E-01	8.55E-01	9.23E-01	-6.65E-02	3.16E+00	2.44E+00	2.35E+00	4.29E+00	5.35E+00	NA	NA	NA	
	010	121	-108.7	7/30/2009	14:13	4.60E+02	1.88E+02	1.85E+02	5.21E-01	5.49E-01	5.96E-01	1.02E+00	4.89E+00	5.23E+00	-2.66E+00	6.57E+00	7.96E+00	NA	NA	NA	
MW-63-163	001	162.5	-150.2	5/15/2007	11:38	5.78E+02	2.10E+02	1.73E+02	-6.43E-02	6.50E-01	8.74E-01	-8.04E-01	2.84E+00	2.59E+00	-9.51E-01	2.25E+00	2.64E+00	-9.58E-01	1.44E+01	3.73E+01	MW-63-163
	002	162.5	-150.2	7/25/2007	12:13	4.79E+02	1.91E+02	1.96E+02	-7.20E-01	3.40E-01	6.26E-01	-3.18E+00	3.16E+00	4.36E+00	-2.36E+00	3.73E+00	3.99E+00	NA	NA	NA	
	003	162.5	-150.2	10/11/2007	14:10	3.49E+02	1.65E+02	1.73E+02	7.93E-03	7.90E-01	9.50E-01	-4.46E-01	3.00E+00	2.26E+00	-1.91E-02	2.94E+00	3.30E+00	NA	NA	NA	
	004	162.5	-150.2	1/9/2008	10:51	5.60E+02	1.77E+02	1.72E+02	3.19E-03	5.55E-01	7.17E-01	-4.52E-01	3.50E+00	3.00E+00	2.23E+00	6.11E+00	4.20E+00	NA	NA	NA	
	005	162.5	-150.2	4/23/2008	11:23	4.44E+02	1.70E+02	2.65E+02	1.82E-01	4.33E-01	7.37E-01	8.04E-01	1.06E+00	1.84E+00	6.60E-01	1.13E+00	1.94E+00	5.30E+00	1.52E+01	2.66E+01	
	006	162.5	-150.2	7/29/2008	14:56	4.48E+02	1.07E+02	1.63E+02	-8.79E-02	2.50E-01	4.87E-01	-2.09E+00	2.34E+00	3.61E+00	5.03E-01	2.59E+00	4.48E+00	NA	NA	NA	
	007	162.5	-150.2	11/4/2008	12:45	6.65E+02	1.86E+02	1.76E+02	-1.44E-01	5.53E-01	7.46E-01	1.77E-01	5.37E+00	6.12E+00	7.78E-01	6.21E+00	7.73E+00	NA	NA	NA	
	008	162.5	-150.2	1/29/2009	11:57	5.81E+02	2.40E+02	1.95E+02	2.86E-01	5.64E-01	6.42E-01	5.89E+00	7.23E+00	9.45E+00	-1.73E-01	9.31E+00	9.03E+00	NA	NA	NA	
	009	162.5	-150.2	5/4/2009	14:39	4.36E+02	1.94E+02	1.66E+02	-1.10E-02	6.03E-01	7.41E-01	-2.88E-01	5.57E+00	3.71E+00	-4.47E+00	4.50E+00	3.64E+00	NA	NA	NA	
	010	162.5	-150.2	7/30/2009	13:45	6.96E+02	1.93E+02	1.86E+02	-1.33E-01	3.60E-01	5.30E-01	-2.87E+00	5.47E+00	5.52E+00	-1.49E-01	5.30E+00	6.40E+00	NA	NA	NA	
MW-63-174	001	174	-161.7	5/15/2007	11:54	5.53E+02	2.12E+02	1.73E+02	2.64E-01	7.62E-01	9.34E-01	-6.91E-01	2.52E+00	2.70E+00	8.16E-03	2.49E+00	2.76E+00	1.30E+00	1.28E+01	3.51E+01	MW-63-174
	002	174	-161.7	7/25/2007	12:00	5.28E+02	1.94E+02	1.97E+02	-2.78E-01	4.41E-01	6.59E-01	6.28E-01	3.98E+00	4.55E+00	-3.03E-01	3.45E+00	3.80E+00	NA	NA	NA	
	003	174	-161.7	10/11/2007	14:22	3.70E+02	1.65E+02	1.72E+02	-2.85E-01	7.14E-01	9.39E-01	1.94E+00	2.90E+00	2.70E+00	-8.59E-01	2.56E+00	2.71E+00	NA	NA	NA	
	004	174	-161.7	1/9/2008	10:45	6.23E+02	1.79E+02	1.72E+02	6.16E-01	6.95E-01	7.24E-01	-1.24E+00	3.14E+00	3.33E+00	1.48E+00	3.03E+00	3.77E+00	NA	NA	NA	
	005	174	-161.7	4/23/2008	11:21	4.59E+02	1.72E+02	2.65E+02	-6.82E-02	3.65E-01	7.48E-01	-5.74E-01	2.01E+00	3.13E+00	3.66E-01	2.43E+00	4.19E+00	-2.14E+00	1.44E+01	2.56E+01	
	006	174	-161.7	7/29/2008	14:40	4.49E+02	1.40E+02	1.92E+02	6.56E-02	2.76E-01	4.30E-01	-3.76E-01	2.23E+00	3.71E+00	-1.72E+00	2.55E+00	3.79E+00	NA	NA	NA	
	007	174	-161.7	11/4/2008	12:44	4.77E+02	2.04E+02	1.95E+02	-2.76E-01	5.52E-01	7.33E-01	-2.68E+00	4.85E+00	4.74E+00	1.18E+00	5.45E+00	6.30E+00	NA	NA	NA	
	008	174	-161.7	1/29/2009	11:55	4.52E+02	2.23E+02	1.97E+02	4.27E-01	5.96E-01	6.57E-01	-4.53E-01	3.81E+00	3.67E+00	-1.34E+00	3.29E+00	3.32E+00	NA	NA	NA	
	009	174	-161.7	5/4/2009	14:28	4.57E+02	1.94E+02	1.63E+02	-2.11E-01	6.62E-01	7.37E-01	1.98E-01	4.53E+00	3.05E+00	-2.66E+00	3.11E+00	2.63E+00	NA	NA	NA	
	010	174	-161.7	7/30/2009	13:05	4.22E+02	1.86E+02	1.85E+02	-1.74E-01	5.20E-01	6.32E-01	1.43E-01	5.52E+00	6.13E+00	1.22E+00	5.79E+00	6.83E+00	NA	NA	NA	
MW-65-40	001	43.3	26.356	1/4/2007	12:00	2.02E+02	1.03E+02	1.02E+02	0.00E+00	7.00E-01	9.20E-01	1.02E+00	3.02E+00	3.92E+00	-5.00E-01	3.30E+00	3.70E+00	-2.20E+00	6.30E+00	2.30E+00	MW-65-40
MW-65-80	001	71.4	1.659	9/8/2006	9:40	3.29E+01	1.62E+02	1.74E+02	4.72E-01	9.80E-01	1.04E+00	5.15E-01	1.99E+00	2.15E+00	2.31E-01	1.81E+00	1.98E+00	NA	NA	NA	MW-65-80
	002	71.4	1.659	1/4/2007	12:35	1.63E+03	1.80E+02	1.80E+02	1.60E-01	7.80E-01	8.70E-01	2.50E-01	2.22E+00	2.55E+00	1.13E+00	2.31E+00	2.80E+00	1.90E+00	6.60E+00	2.40E+00	
MW-66-21	001	14.1	0	7/30/2007	13:45	3.57E+03	2.91E+02	1.96E+02	1.79E+00	7.08E-01	2.08E+03	1.77E-01	3.07E+00	3.51E+00	2.21E+00	3.27E+00	4.20E+00	NA	NA	NA	MW-66-21
	002	14.1	0	10/15/2007	10:45	1.74E+03	2.74E+02	1.97E+02	2.47E+00	7.97E-01	5.30E-01	-8.37E-01	3.03E+00	2.74E+00	1.01E-01	2.79E+00	3.18E+00	1.48E+01	2.06E+01	2.29E+01	
	003	14.1	0	1/14/2008	11:33	8.18E+02	4.62E+02	4.16E+02	1.09E+00	8.96E-01	8.12E-01	1.68E+00	3.14E+00	3.77E+00	2.35E+00	3.36E+00	4.26E+00	5.07E+00	2.12E+01	2.55E+01	
	004	14.1	0	4/21/2008	14:10	9.53E+02	1.51E+02	1.92E+02	1.01E+00	2.05E-01	2.32E-01	6.73E-01	2.36E+00	4.07E+00	1.86E-02	2.26E+00	3.74E+00	7.28E+00	8.88E+00	1.55E+01	
	005	14.1	0	7/29/2008	11:48	7.53E+02	1.02E+02	1.30E+02	5.07E-01	3.56E-01	4.39E-01	-1.01E+00	1.88E+00	2.92E+00	1.71E+00	2.17E+00	3.99E+00	6.26E+00	1.66E+01	2.99E+01	
	006	14.1	0	11/4/2008	10:30	5.34E+02	2.07E+02	1.64E+02	1.03E+00	6.96E-01	6.59E-01	1.44E+00	4.67E+00	5.42E+00	2.98E+00	5.17E+00	6.47E+00	5.68E+00	1.79E+01	2.09E+01	
	007	14.1	0	1/27/2009	13:52	4.61E+02	1.74E+02	1.75E+02	2.91E-01	7.50E-01	8.72E-01	8.59E+00	5.45E+00	3.11E+00	-1.87E+00	2.90E+00	2.71E+00	1.29E+01	1.74E+01	3.93E+01	
	008	14.1	0	3/17/2009	12:00	4.29E+02	3.80E+02	3.81E+02	3.49E-01	6.45E-01	7.29E-01	1.60E-01	5.36E+00	4.24E+00	1.72E+00	3.84E+00	4.65E+00	4.98E+00	1.70E+01	3.99E+01	
	009	14.1	0	4/20/2009	17:00	8.28E+01	1.65E+02	1.87E+02	1.93E-01	5.55E-01	6.50E-01	1.27E+00	7.23E+00	4.82E+00	5.73E-01	4.11E+00	4.84E+00	-1.86E+00	1.94E+01	2.22E+01	
	010	14.1	0	7/28/2009	14:10	8.23E+02	2.52E+02	2.01E+02	4.51E-01	6.90E-01	7.54E-01	-4.32E-01	4.04E+00	4.51E+00	8.39E-01	3.55E+00	4.34E+00	8.48E+00	2.07E+01	2.33E+01	
MW-66-36	001	33.6	-19.5	7/30/2007	12:49	9.10E+03	4.13E+02	1.94E+02	6.20E+00	1.19E+00	6.35E-01	-9.84E-01	2.67E+00	2.76E+00	-5.59E-01	2.90E+00	3.06E+00	NA	NA	NA	MW-66-36
	002	33.6	-19.5	10/15/2007	10:16	8.55E+03	4.61E+02	1.92E+02	1.12E+01	1.61E+00	5.53E-01	0.00E+00	3.34E+00	4.32E+00	-2.96E-01	4.34E+00	4.68E+00	1.11E+01	1.88E+01	2.05E+01	
	003	33.6	-19.5	1/14/2008	11:40	7.26E+03	1.01E+03	4.16E+02	1.51E+01	2.40E+00	8.34E-01	2.34E+00	3.38E+00	4.14E+00	-1.06E+00	3.78E+00	3.39E+00	7.19E+00	2.36E+01	2.71E+01	
	004	33.6	-19.5	4/21/2008	13:25	6.69E+03	2.89E+02	1.97E+02	1.32E+01	5.27E-01	3.55E-01	-2.89E-01	2.09E+00	3.14E+00	-2.09E+00	3.54E+00	4.13E+00	-3.35E-01	3.96E+00	3.54E+01	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-66-36	005	33.6	-19.5	7/29/2008	12:05	5.01E+03	1.91E+02	1.13E+02	1.20E+01	1.06E+00	6.20E-01	2.07E-01	1.66E+00	2.82E+00	-1.05E+00	1.93E+00	3.00E+00	-1.00E+00	1.69E+01	2.96E+01	MW-66-36
	006	33.6	-19.5	11/4/2008	10:40	5.44E+03	5.34E+02	1.67E+02	1.38E+01	1.71E+00	5.23E-01	6.91E-01	4.32E+00	4.96E+00	1.78E+00	5.24E+00	6.23E+00	9.57E-01	1.64E+01	3.88E+01	
	007	33.6	-19.5	1/27/2009	13:07	5.65E+03	7.62E+02	4.41E+02	1.22E+01	1.56E+00	6.15E-01	-1.04E+00	2.88E+00	2.06E+00	6.85E-02	3.27E+00	3.12E+00	1.45E+01	1.70E+01	3.87E+01	
	008	33.6	-19.5	4/20/2009	15:26	4.59E+03	4.34E+02	1.88E+02	1.07E+01	1.42E+00	5.07E-01	5.24E-02	3.44E+00	4.25E+00	-1.13E+00	4.20E+00	4.20E+00	8.90E+00	1.97E+01	2.21E+01	
	009	33.6	-19.5	7/28/2009	13:41	5.03E+03	4.10E+02	2.10E+02	7.51E+00	1.21E+00	3.93E-01	3.19E+00	5.23E+00	3.54E+00	-6.56E-01	3.55E+00	3.98E+00	6.22E+00	1.92E+01	2.16E+01	
MW-67-39	001	38.3	-25.8	8/31/2007	12:05	4.66E+03	4.34E+02	1.92E+02	1.86E+01	1.86E+00	4.73E-01	-1.93E-01	2.02E+00	2.24E+00	-9.43E-01	2.00E+00	2.09E+00	NA	NA	NA	MW-67-39
	002	38.3	-25.8	10/1/2007	11:30	5.07E+03	3.75E+02	1.95E+02	2.71E+01	2.44E+00	6.21E-01	1.02E+01	4.11E+00	1.95E+00	3.69E-01	2.07E+00	2.39E+00	2.51E+00	1.66E+01	2.93E+01	
	004	38.3	25.8	2/25/2008	15:38	4.17E+03	3.83E+02	5.26E+02	2.05E+01	1.77E+00	6.27E-01	1.15E+00	3.41E+00	3.73E+00	1.09E+00	4.39E+00	3.98E+00	5.11E-01	1.26E+01	2.62E+01	
	005	38.3	25.8	7/28/2008	14:07	3.67E+03	1.72E+02	1.13E+02	1.37E+01	1.11E+00	3.72E-01	1.03E+00	2.60E+00	3.42E+00	1.47E-01	2.15E+00	3.68E+00	6.31E+00	1.67E+01	2.88E+01	
	007	38.3	-25.8	12/19/2008	11:30	3.19E+03	2.66E+02	1.71E+02	1.62E+01	1.69E+00	1.00E+00	1.18E+00	4.61E+00	5.47E+00	7.33E-01	5.34E+00	5.81E+00	8.37E-01	1.68E+01	3.04E+01	
	008	38.3	-25.8	1/27/2009	16:15	3.47E+03	2.91E+02	1.93E+02	1.42E+01	1.71E+00	7.52E-01	-8.03E-01	2.04E+00	2.15E+00	-2.11E-01	2.36E+00	2.75E+00	1.12E+01	1.68E+01	2.82E+01	
	009	38.3	-25.8	4/20/2009	15:02	3.68E+03	4.14E+02	1.96E+02	1.13E+01	1.56E+00	5.49E-01	-2.66E-01	7.17E+00	4.76E+00	-1.31E-01	3.74E+00	4.21E+00	1.36E+01	2.06E+01	2.22E+01	
	010	38.3	-25.8	7/28/2009	15:04	2.69E+03	3.87E+02	2.00E+02	6.37E+00	1.11E+00	3.86E-01	1.90E-01	3.01E+00	3.45E+00	2.33E-01	3.24E+00	3.70E+00	-3.64E+00	1.79E+01	2.00E+01	
MW-67-105	001	134.8	-92.3	8/31/2007	12:35	1.66E+03	5.16E+02	3.34E+02	1.11E+00	6.12E-01	2.26E-01	2.26E-01	2.00E+00	2.00E+00	-5.00E-01	1.58E+00	1.86E+00	NA	NA	NA	MW-67-105
	002	134.8	-92.3	10/1/2007	11:40	2.64E+03	2.96E+02	1.95E+02	4.12E-01	8.28E-01	9.46E-01	0.00E+00	5.11E+00	3.77E+00	-6.51E-01	3.53E+00	3.96E+00	1.05E+01	1.58E+01	3.76E+01	
	003	134.8	-92.3	1/11/2008	15:15	2.43E+03	5.42E+02	4.15E+02	7.58E-01	9.98E-01	1.07E+00	9.32E+00	5.13E+00	2.83E+00	7.44E-01	3.50E+00	3.70E+00	1.81E+01	2.42E+01	2.67E+01	
	004	134.8	-92.3	2/25/2008	13:44	2.38E+03	5.89E+02	5.13E+02	1.13E+00	7.89E-01	8.12E-01	-1.27E+00	3.25E+00	3.38E+00	-4.79E-02	2.97E+00	3.25E+00	1.24E+01	1.74E+01	3.93E+01	
	005	134.8	-92.3	7/28/2008	14:25	2.16E+03	1.40E+02	1.13E+02	9.63E-01	3.54E-01	4.16E-01	4.17E-01	1.59E+00	2.76E+00	7.65E-01	1.51E+00	2.78E+00	7.25E+00	1.65E+01	2.85E+01	
	006	134.8	-92.3	11/3/2008	14:21	2.53E+03	4.02E+02	1.66E+02	1.11E+00	5.60E-01	4.54E-01	-2.48E-01	5.36E+00	7.11E+00	7.75E-02	6.87E+00	7.59E+00	6.32E+00	1.68E+01	3.90E+01	
	007	134.8	-92.3	1/27/2009	16:45	1.56E+03	2.42E+02	1.92E+02	4.08E-01	8.30E-01	9.49E-01	-1.13E+00	3.32E+00	2.71E+00	-3.40E-02	2.39E+00	2.66E+00	1.21E+01	1.64E+01	3.81E+01	
	008	134.8	-92.3	4/20/2009	16:00	1.58E+03	5.15E+02	1.88E+02	6.58E-01	6.92E-01	7.12E-01	-1.18E+00	4.89E+00	2.26E+00	5.61E-01	3.85E+00	3.92E+00	1.01E+01	1.97E+01	2.12E+01	
	009	134.8	-92.3	7/28/2009	15:15	1.77E+03	3.30E+02	2.05E+02	5.33E-01	4.15E-01	3.58E-01	1.59E+00	2.85E+00	2.42E+00	-7.22E-01	3.54E+00	3.64E+00	1.17E+01	1.83E+01	2.04E+01	
MW-67-173	001	172.3	-139.8	8/31/2007	13:04	1.05E+03	4.23E+02	3.37E+02	3.73E-01	3.77E-01	4.12E-01	-1.46E+00	5.56E+00	3.68E+00	1.19E-02	3.75E+00	4.13E+00	NA	NA	NA	MW-67-173
	002	172.3	-139.8	10/1/2007	12:30	1.01E+03	2.23E+02	1.95E+02	1.48E-01	8.02E-01	1.07E+00	-1.34E+00	3.79E+00	4.01E+00	2.82E+00	3.25E+00	3.77E+00	4.12E+00	1.71E+01	3.90E+01	
	004	172.3	-139.8	2/25/2008	14:00	9.51E+02	5.51E+02	5.13E+02	4.12E-01	6.06E-01	7.76E-01	6.65E-01	2.02E+00	2.22E+00	-5.63E-01	2.54E+00	2.70E+00	-5.95E+00	2.37E+01	2.82E+01	
	005	172.3	139.8	7/28/2008	14:42	9.12E+02	1.09E+02	1.36E+02	1.05E-01	2.66E-01	4.35E-01	1.22E+00	2.06E+00	3.15E+00	3.63E-01	2.14E+00	3.49E+00	5.88E+00	1.64E+01	2.84E+01	
	006	172.3	-139.8	11/3/2008	14:37	9.53E+02	2.53E+02	1.66E+02	-3.48E-02	2.59E-01	3.32E-01	-1.41E+00	5.69E+00	6.32E+00	1.49E+00	6.56E+00	7.65E+00	-1.40E+00	1.69E+01	3.97E+01	
	007	172.3	-139.8	1/27/2009	16:33	7.47E+02	2.00E+02	1.97E+02	4.35E-01	5.94E-01	6.83E-01	1.34E+01	4.85E+00	5.53E+00	-1.74E+00	2.58E+00	2.73E+00	1.48E+01	1.79E+01	3.96E+01	
	008	172.3	-139.8	3/17/2009	14:00	6.73E+02	4.19E+02	3.81E+02	-5.07E-01	5.72E-01	6.95E-01	-1.51E+00	5.85E+00	5.96E+00	8.14E-01	3.41E+00	4.00E+00	-3.42E+00	1.71E+01	2.00E+01	
	009	172.3	-139.8	4/20/2009	15:50	7.47E+02	2.23E+02	1.87E+02	2.33E-01	6.84E-01	7.34E-01	-2.70E+00	7.05E+00	4.76E+00	9.39E-01	3.50E+00	4.24E+00	8.40E+01	2.45E+01	2.47E+01	
	010	172.3	-139.8	7/28/2009	15:24	1.05E+03	2.76E+02	2.01E+02	1.59E-01	5.58E-01	6.33E-01	6.46E-01	2.91E+00	3.45E+00	-6.41E-01	3.36E+00	3.77E+00	7.63E-01	1.74E+01	1.99E+01	
MW-67-219	001	218.8	-206.3	8/31/2007	13:43	1.25E+03	4.46E+02	3.13E+02	3.27E-02	3.00E-01	3.47E-01	-1.58E-01	3.04E+00	3.32E+00	5.02E-01	3.09E+00	3.68E+00	NA	NA	NA	MW-67-219
	002	218.8	-206.3	10/1/2007	12:53	9.46E+02	2.22E+02	1.95E+02	-2.27E-01	7.50E-01	1.03E+00	1.43E-01	2.60E+00	2.96E+00	1.38E-01	2.37E+00	2.65E+00	1.21E+01	2.64E+01	2.99E+01	
	004	218.8	-206.3	2/25/2008	11:43	1.23E+03	5.81E+02	5.31E+02	-7.61E-02	4.93E-01	6.12E-01	-1.33E+00	3.03E+00	3.15E+00	1.08E+00	3.15E+00	3.78E+00	1.23E+01	1.81E+01	2.03E+01	
	005	218.8	-206.3	7/28/2008	11:00	1.17E+03	1.16E+02	1.13E+02	-7.49E-02	2.34E-01	4.35E-01	-2.91E-01	1.93E+00	2.33E+00	-2.64E-01	1.92E+00	3.18E+00	5.99E+00	1.68E+01	2.90E+01	
	006	218.8	-206.3	11/3/2008	11:31	1.57E+03	2.93E+02	1.68E+02	6.78E-02	1.69E-01	1.91E-01	1.32E+00	4.93E+00	2.86E+00	4.00E+00	6.30E+00	8.05E+00	2.30E+00	1.65E+01	2.88E+01	
	007	218.8	-206.3	1/27/2009	12:34	9.68E+02	2.81E+02	2.50E+02	-7.56E-02	5.30E-01	7.13E-01	-3.58E-01	1.89E+00	2.10E+00	7.86E-02	1.33E+00	2.09E+00	1.14E+01	2.16E+01	2.43E+01	
	008	218.8	-206.3	4/20/2009	12:09	1.18E+03	2.63E+02	1.85E+02	2.27E-01	6.63E-01	7.90E-01	-2.05E+00	5.20E+00	4.12E+00	4.71E-01	4.26E+00	4.84E+00	9.24E+00	1.85E+01	2.06E+01	
	009	218.8	-206.3	7/28/2009	11:11	9.22E+02	2.61E+02	2.03E+02	1.81E-01	8.09E-01	9.36E-01	2.69E-01	3.99E+00	4.97E+00	1.63E+00	3.76E+00	4.67E+00	1.14E+01	1.66E+01	3.53E+01	
MW-67-276	001	275.3	-262.8	8/31/2007	12:20	6.79E+02	3.83E+02	3.41E+02	-3.34E-01	3.37E-01	4.29E-01	1.36E+00	3.82E+00	4.02E+00	-9.09E-01	3.75E+00	4.00E+00	NA	NA	NA	MW-67-276
	002	275.3	-262.8	10/1/2007	13:04	1.11E+03	2.30E+02	1.90E+02	3.02E-02	8.03E-01	9.91E-01	-3.32E+00	3.63E+00	3.34E+00	-3.17E-01	3.51E+00	3.31E+00	5.64E-01	1.59E+01	3.04E+01	
	004	275.3	-262.8	2/25/2008	11:40	1.07E+03	5.64E+02	5.20E+02	4.43E-01	7.06E-01	7.30E-01	2.00E+00	3.45E+00	4.21E+00	1.79E+00	4.11E+00	4.33E+00	1.00E+01	1.09E+01	2.11E+01	
	005	275.3	262.8	7/28/2008	11:09	1.16E+03	1.16E+02	1.13E+02	5.05E-02	2.76E-01	5.17E-01	8.94E-01	1.93E+00	2.13E+00	5.92E-01	1.77E+00	3.45E+00	7.55E+00	1.62E+01	2.77E+01	
	006	275.3	-262.8	11/3/2008	11:39	1.18E+03	2.75E+02	1.66E+02	-5.09E-02	1.81E-01	2.16E-01	3.75E-01	5.63E+00	6.25E+00	-7.43E-01	6.30E+00	6.50E+00	7.29E+00	1.73E+01	3.95E+01	
	007	275.3	-262.8	1/27/2009	13:01	1.10E+03	5.17E+02	4.35E+02	3.39E-01	5.93E-01	6.56E-01	2.35E-01	3.24E+00	3.70E+00	-1.11E+00	3.74E+00	3.96E+00	1.15E+01	1.68E+01	3.87E+01	
	008	275.3	-262.8	4/20/2009	12:15	9.46E+02	2.43E+02	1.86E+02	7.79E-03	5.33E-01	6.74E-01	1.18E+00	5.45E+00	3.63E+00	-2.86E-01	3.93E+00	4.04E+00	2.21E+01	2.07E+01	2.29E+01	
	009	275.3	-262.8	7/28/2009	11:15	9.17E+02	2.63E+02	2.04E+02	2.23E-01	3.98E-01	4.46E-01	-6.84E-01	5.00E+00	4.61E+00	2.18E+00	3.71E+00	4.70E+00	7.04E+00	1.76E+01	3.99E+01	
MW-67-323	001	323.3	-309.8	8/31/2007	13:20	3.13E+02	1.53E+02	1.57E+02	-2.41E-01	3.06E-01	3.74E-01	1.14E+00	3.71E+00	4.33E+00	1.29E-01	3.76E+00	4.32E+00	NA	NA	NA	MW-67-323
	002	323.3	-309.8	10/1/2007	14:08	1.29E+03	2.40E+02	1.96E+02	5.67E-01	8.58E-01	9.37E-01	-5.77E-01	3.04E+00	3.24E+00	-6.19E-01	3.35E+00	3.58E+00	5.25E-01	1.65E+01	3.92E+01	
	004	323.3	-309.8	2/25/2008	11:59	3.72E+02	2.75E+02	2.87E+02	3.61E-01	7.60E-01	8.52E-01	-2.08E-01	2.97E+00	3.32E+00	1.29E+00	3.50E+00	4.18E+00	6.85E+00	1.88E+01	2.13E+01	
	005	323.3	-309.8	7/28/2008	11:25	3.38E+02	9.03E+01	1.36E+02	-2.38E-01	3.66E-01	7.29E-01	8.29E-01	2.30E+00	3.95E+00	2.24E-01	2.24E+00	3.46E+00	-5.98E+00	1.59E+01	2.86E+01	
	006	323.3	-309.8	11/3/2008	11:44	6.64E+02	2.24E+02	1.64E+02	4.20E-02	3.40E-01	4.37E-01	-3.56E+00	5.21E+00	5.18E+00	4.29E-01	5.12E+00	5.87E+00	-7.38E+00	1.59E+01	3.87E+01	
	007	323.3	-309.8	1/27/2009	13:50	3.65E+02	1.70E+02	1.76E+02	-1.15E-01	4.05E-01	5.35E-01	4.54E-01	3.86E+00	4.42E+00	3.47E-01	3.86E+00	3.86E+00	9.84E+00	1.32E+01	3.47E+01	
	008	323.3	-309.8	4/20/2009	12:20	3.57E+02	1.93E+02	1.87E+02	2.21E-01	7.17E-01	8.23E-01	-5.22E-01	5.86E+00	4.57E+00	-2.70E+00	4.50E+00	4.33E+00	-5.56E+00	2.10E+01	2.43E+01	
	009	323.3	-309.8	7/28/2009	11:25	3.94E+02	2.16E+02	2.01E+02	2.51E-02	3.21E-01	4.07E-01	-1.54E+00	5.31E+00	3.42E+00	7.50E-01	4.72E+00	4.34E+00	2.93E-01	1.79E+01	4.04E+01	
MW-67-340	001	339.8	-327.3	8/31/2007	12:54	3.69E+02	1.61E+02	1.66E+02	1.69E-01	2.71E-01	3.34E-01	6.12E-01	4.61E+00	5.13E+00	4.53E+00	5.43E+00	5.20E+00	NA	NA	NA	MW-67-340
	002	339.8	-327.3	10/1/2007	14:00	3.90E+02	1.92E+02	1.96E+02	1.42E-01	3.71E-01	4.20E-01	7.29E-01	3.46E+00	3.96E+00	-1.22E+00	3.33E+00	3.30E+00	3.89E+00	1.54E+01	3.76E+01	
	004	339.8	-327.3	2/25/2008	12:00	4.78E+02	2.82E+02	2.86E+02	-2.17E-01	5.53E-01	6.34E-01	-1.38E+00	3.99E+00	3.94E+00	-7.62E-01	3.19E+00	3.43E+00	5.72E+00	1.83E+01	2.09E+01	
	005	339.8	-327.3	7/28/2008	11:18	5.11E+02	9.30E+01	1.13E+02	-3.39E-01	2.20E-01	5.49E-01	3.13E-01	2.21E+00	3.01E+00	5.03E-01	2.25E+00	3.60E+00	-6.94E+00	1.57E+01	2.76E+01	
	006	339.8	327.3	11/3/2008	11:54	6.69E+02	3.22E+02	1.63E+02	9.08E-02	4.26E-01	5.13E-01	2.23E+00	5.23E+00	7.45E+00	3.65E+00	6.76E+00	8.47E+00	8.34E+00	1.59E+01	3.98E+01	
	007	339.8	327.3	1/27/2009	12:44	5.23E+02	1.37E+02	2.36E+02	2.57E-01	5.48E-01	6.31E-01	4.72E-01	3.72E+00	4.19E+00	7.00E-01	3.41E+00	3.67E+00	7.78E+00	1.68E+01	3.90E+01	
	008	339.8	-327.3	4/20/2009	12:25	4.56E+02	2.07E+02	1.98E+02	4.35E-01	5.64E-01	6.35E-01	3.18E+00	7.19E+00	4.79E+00	-1.33E-01	3.53E+00	3.83E+00	8.03E+00	2.03E+01	2.25E+01	
	009	339.8	-327.3	7/28/2009	11:20	4.70E+02	2.23E+02	2.02E+02	2.07E-01	6.29E-01	7.50E-01	5.88E-01	3.75E+00	4.34E+00	-3.26E-01	3.98E+00	3.70E+00	-6.20E-01	1.89E+01	2.16E+01	
MW-107	004	32.7	110.1	9/28/2005	12:00	3.09E+02	3.87E+02	4.20E+02	NA	NA	NA	3.86E+00	1.16E+01	8.53E+00	NA	NA	NA	NA	NA	NA	MW-107
	001	32.7	110.1	12/8/2005	11:15	1.28E+02	4.11E+02	4.54E+02	7.65E+00	1.53E+01	1.13E+01	2.55E+00	7.64E+00	5.55E+00	4.11E+00	1.23E+01	8.97E+00	NA	NA	NA	
	002	32.7	110.1	4/18/2006	11:15	1.27E+02	4.11E+02	4.51E+02	0.00E+00	3.90E-01	4.40E-01	2.65E+00	7.94E+00	5.62E+00	4.36E+00	1.31E+01	9.21E+00	NA	NA	NA	
	003	32.7	110.1	6/6/2006	13:30	1.15E+02	1.53E+02	1.56E+02	-2.07E-01	5.43E-01	7.13E-01	1.65E+00	3.31E+00	9.24E+00	-3.66E-01	8.36E+00	9.05E+00	NA	NA	NA	
	005	32.7	110.1	7/23/2007	14:18	8.52E+01	1.52E+02	1.77E+02	1.66E-01	5.19E-01	5.37E-01	8.13E-01	2.73E+00	1.60E+00	1.03E-01	1.41E+00	1.60E+00	NA	NA	NA	
	006	32.7	110.1	4/24/2008	15:41	1.51E+02	3.90E+01	1.44E+02	-6.22E-02	2.21E-01	4.42E-01	-2.03E+00	2.78E+00	4.11E+00	-1.38E+00	2.12E+00	3.07E+00	NA	NA	NA	
	007	32.7	110.1	5/30/2008	15:25	4.62E+01	9.02E+01	1.56E+02	6.62E-02	5.51E-01	9.50E-01	1.22E+00	1.88E+00	3.36E+00	5.48E-01	2.20E+00	3.57E+00	NA	NA	NA	
	008	32.7	110.1	4/22/2009	12:30	1.56E+02	1.71E+02	1.86E+02	9.02E-03	4.34E-01	5.52E-01	-2.11E-01	3.86E+00	2.57E+00	1.54E+00	2.51E+00	3.19E+00	NA	NA	NA	
MW-108	003	8.3	6.2	9/29/2005	12:00	3.22E+02	3.84E+02	4.20E+02	NA	NA	NA	3.23E+00	9.70E+00	7.39E+00	3.21E+00	9.54E+00	7.84E+00	NA	NA	NA	MW-108
	004	8.3	6.2	11/3/2005	12:00	1.57E+02	4.26E+02	4.71E+02	NA	NA	NA	3.41E+00	1.02E+01	7.52E+00	2.65E+00	7.92E+00	6.39E+00	NA	NA	NA	
	002	8.3	6.2	5/13/2005	10:53	2.78E+02	1.82E+02	1.66E+02	6.89E-01	8.26E-01	8.98E-01	3.12E+00	3.86E+00	1.05E+01	-1.42E-01	1.23E+01	1.34E+0.	NA	NA	NA	
MW-109	003	8.5	6.1	9/29/2005	12:00	1.54E+02	3.81E+02	4.20E+02	NA	NA	NA	3.74E+00	1.12E+01	8.45E+00	3.19E+00	9.57E+00	7.88E+00	NA	NA	NA	MW-109

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-109	004	3 5	6 1	11/3/2005	12 C0	1 C1E+02	4 23E+02	4 7cE+02	NA	NA	NA	3 59E+0C	1 08E+01	7 85E+30	2 592+00	7 78E+00	6 26E+00	NA	NA	NA	MW-109
	002	3 5	6 1	5/13/2005	10 10	3 39E+02	1 89E+02	1 7CE+02	2 98E-C1	8 24E-01	9 27E-01	2 00E-01	5 68E+00	6 24E+30	-2 5CE+30	6 12E+00	6 08E+00	NA	NA	NA	
MW-111	001	16 5	2 4	9/29/2005	10 C0	2 C5E+05	2 56E+04	6 24E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-111
	001	16 5	2 4	9/29/2005	10 C0	2 15E+05	2 26E+03	4 2CE+02	NA	NA	NA	4 48E+0C	1 34E+01	1 02E+31	1 81E+00	5 42E+00	5 57E+00	NA	NA	NA	
	002	16 5	2 4	10/14/2005	10 C0	6 81E+03	4 73E+03	6 41E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	16 5	2 4	10/21/2005	10 C0	2 64E+05	3 0JE+04	6 41E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004	16 5	2 4	10/25/2005	3 33	2 10E105	5 54E103	7 0CE102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005	16 5	2 4	11/4/2005	2 03	3 C2E+05	2 06E+03	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006	16 5	2 4	11/22/2005	10 C0	1 60E+05	5 40E+03	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	007	16 5	2 4	12/2/2005	10 15	1 25E+05	3 75E+03	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	008	16 5	2 4	12/8/2005	16 40	2 71E+05	3 11E+03	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	009	16 5	2 4	12/15/2005	11 C0	2 56E+05	3 83E+03	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	0:0	16 5	2 4	12/19/2005	2 45	1 52E+05	3 76E+03	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	0:1	16 5	2 4	12/29/2005	10 C0	2 12E+05	5 36E+03	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	0:2	16 5	2 4	1/6/2006	10 45	1 13E+05	3 39E+03	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	0:3	16 5	2 4	1/13/2005	10 30	1 59E+05	5 97E+03	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	0:4	16 5	2 4	1/20/2005	9 33	1 19E+05	3 57E+03	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	0:5	16 5	2 4	1/27/2005	10 C5	5 78E+05	1 73E+02	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	0:6	16 5	2 4	2/3/2006	12 20	2 55E+05	3 09E+04	6 33E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	0:7	16 5	2 4	2/7/2006	16 10	2 38E+05	2 73E+04	6 37E+02	1 17E+00	6 03E-01	6 31E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	0:8	16 5	2 4	2/16/2005	13 40	2 54E+05	5 02E+04	6 56E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	0:9	16 5	2 4	3/3/2006	9 03	2 36E+05	7 03E+03	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	020	16 5	2 4	4/7/2006	9 53	1 45E+05	4 33E+03	7 0CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	021	16 5	2 4	5/17/2005	14 C5	4 31E+04	5 51E+03	9 1CE+02	2 49E+00	1 40E+00	1 24E+00	-2 32E-01	1 34E+01	1 51E+31	4 25E+00	1 30E+01	1 49E+0:	NA	NA	NA	
	022	16 5	2 4	6/23/2005	3 35	2 62E105	3 92E104	2 35E103	6 23E-C1	1 07E100	1 32E100	-4 18E100	1 40E101	1 46E101	-: 60E-01	1 30E101	1 52E10:	NA	NA	NA	
	023	16 5	2 4	9/21/2005	10 25	1 59E+05	3 07E+04	1 42E+03	8 79E C1	1 25E+00	1 33E+00	9 50E 02	1 13E+00	1 26E+30	6 26E 02	1 15E+00	1 24E+00	NA	NA	NA	
	024	16 5	2 4	6/15/2007	14 17	1 19E+05	3 69E+03	3 52E+02	9 74E-C1	6 30E-01	5 76E-01	-7 53E-01	3 27E+00	3 0CE+30	1 21E-C1	2 79E+00	3 17E+00	6 34E+00	1 26E+01	1 43E+31	
	025	16 5	2 4	8/3/2007	9 53	9 88E404	2 93E403	3 6CE+02	9 74E-C1	6 73E-01	6 27E-01	4 24E-01	2 75E+00	3 14E+30	3 95E-C1	2 50E+00	3 0JE+00	NA	NA	NA	
	026	16 5	2 4	1/28/2008	11 38	4 77E+04	1 77E+03	2 97E+02	2 56E+00	9 45E-01	6 18E-01	2 60E+0C	4 05E+00	5 9CE+30	-6 32E-01	2 55E+00	2 63E+00	1 33E+01	1 58E+01	1 73E+31	
	027	16 5	2 4	9/4/2008	14 C0	7 39E+04	1 89E+03	5 47E+02	1 02E+00	3 62E-01	4 21E-01	-8 : 6E-01	2 22E+00	3 61E+31	NA	NA	NA	NA	NA	NA	
	028	16 5	2 4	10/21/2008	14 20	6 64E+04	2 00E+03	2 6CE+02	9 08E-C1	9 32E-01	9 72E-01	-9 35E-01	3 60E+00	3 79E+30	5 10E-C1	4 32E+00	5 03E+00	NA	NA	NA	
	029	16 5	2 4	4/30/2009	12 36	3 69E+04	1 33E+03	1 71E+02	2 17E+00	8 97E-01	7 57E-01	1 51E+0C	1 04E+01	6 92E+30	-3 3CE+30	6 45E+00	6 44E+00	NA	NA	NA	
U3-4D	007	25 6	-10 8	10/16/2005	12 C0	3 70E+02	4 03E+02	4 3CE+02	NA	NA	NA	4 72E+0C	1 41E+01	1 01E+31	3 722+00	1 12E+01	8 50E+00	NA	NA	NA	U3-4D
	008	25 6	-10 8	10/21/2005	12 C0	3 59E+02	3 90E+02	4 2JE+02	NA	NA	NA	3 11E+0C	9 34E+00	6 5SE+30	2 983+00	8 95E+00	6 58E+00	NA	NA	NA	
	009	25 6	-10 8	10/28/2005	12 C0	4 C5E+02	4 29E+02	4 7JE+02	NA	NA	NA	3 51E+0C	1 17E+01	8 54E+30	4 363+00	1 31E+01	9 84E+00	NA	NA	NA	
	0:2	25 6	-10 8	11/18/2005	12 C0	1 10E+02	4 33E+02	4 81E+02	NA	NA	NA	3 04E+0C	9 13E+00	6 67E+30	2 043+00	6 11E+00	4 97E+00	NA	NA	NA	
	0:3	25 6	-10 8	12/2/2005	12 C0	2 73E+02	4 23E+02	4 64E+02	NA	NA	NA	2 57E+0C	3 92E+00	6 62E+30	2 003+00	6 21E+00	5 05E+00	NA	NA	NA	
	001	25 6	-10 8	12/15/2005	13 10	3 59E+02	4 32E+02	4 7JE+02	NA	NA	NA	2 68E+0C	5 20E+00	6 02E+30	2 883+00	8 54E+00	6 66E+00	NA	NA	NA	
	002	25 6	-10 8	12/30/2005	9 25	4 42E+02	4 35E+02	4 7JE+02	NA	NA	NA	3 53E+0C	1 09E+01	7 76E+30	3 963+00	1 19E+01	8 99E+00	NA	NA	NA	
	003	25 6	-10 8	1/12/2005	11 C0	5 73E+02	4 33E+02	4 7JE+02	NA	NA	NA	3 29E+0C	9 86E+00	7 12E+30	3 423+00	1 03E+01	7 75E+00	NA	NA	NA	
	004	25 6	-10 8	2/15/2005	13 45	2 71E102	3 39E102	6 3CE102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006	25 6	-10 8	4/26/2005	14 20	5 75E102	3 19E102	1 07E102	-: 40E-01	6 11E-01	7 21E-01	-3 01E-01	3 33E100	9 11E130	-3 10E130	8 21E100	0 71E100	NA	NA	NA	
	0:4	25 6	10 8	6/22/2005	10 20	7 10E+02	3 15E+02	1 69E+02	1 27E C1	5 73E 01	7 39E 01	2 71E+00	1 15E+01	1 21E+31	2 08E+30	8 42E+00	8 34E+00	NA	NA	NA	
	0:5	25 6	-10 8	2/1?008	12 40	3 75E+02	1 36E+02	1 35E+02	-: 78E-01	7 83E-01	9 77E-01	2 83E-01	2 69E+00	3 1CE+30	1 41?+00	3 26E+00	3 97E+00	NA	NA	NA	
	0:6	25 6	-10 8	4/?9/2008	13 27	3 19E402	2 22E+02	1 44E-C1	2 76E-01	4 94E-01	5 15E-01	1 91E400	3 36E+30	-: 53E-01	1 73E+00	2 91E+00	NA	NA	NA		
	0:7	25 6	-10 8	7/?8/2008	16 46	4 66E402	2 50E402	3 75E+02	-3 57E-01	4 96E-01	9 31E-01	2 89E-01	2 08E400	3 69E+30	4 78E-C1	2 86E+00	3 69E+00	NA	NA	NA	
	0:8	25 6	-10 8	10/20/2008	14 40	5 68E402	1 71E402	1 64E+02	-8 59E-02	8 61E-01	1 1E+00	3 73E-01	4 62E400	5 17E+30	7 12E-C1	4 13E+00	4 79E+00	NA	NA	NA	
	0:0	25 6	-10 8	11/4/2008	12 C0	1 18E+02	4 23E+02	4 7CE+02	NA	NA	NA	3 17E+0C	9 51E+00	6 9CE+30	3 343+00	1 00E+01	7 54E+00	NA	NA	NA	
	0:1	25 6	-10 8	11/10/2008	12 C0	3 16E+02	4 14E+02	4 6JE+02	NA	NA	NA	4 10E+0C	1 23E+01	8 95E+30	4 073+00	1 22E+01	9 41E+00	NA	NA	NA	
	0:9	25 6	-10 8	2/10/2009	14 15	4 82E+02	2 31E+02	1 97E+02	1 00E-C1	5 16E-01	6 41E-01	3 66E-01	2 66E+00	3 0CE+30	7 53E-C1	3 22E+00	3 39E+00	NA	NA	NA	
	020	25 6	-10 8	4/17/2009	15 57	3 82E+02	1 83E+02	1 86E+02	-: 17E-01	3 51E-01	5 11E-01	-9 67E-01	5 92E400	6 61E+30	4 01E-C1	3 32E+00	3 82E+00	NA	NA	NA	
	021	25 6	-10 8	8/5/2009	14 C6	4 82E+02	1 83E+02	1 86E+02	-: 59E-01	5 17E-01	7 34E-01	-2 04E+00	5 43E+00	5 0SE+30	1 933+00	5 56E+00	6 65E+00	NA	NA	NA	
U3-T1	007	5 7	2 8	10/?/2005	12 C0	1 59E+03	4 20E+02	4 1SE+02	NA	NA	NA	2 71E+0C	3 14E+00	6 05E+30	2 773+00	8 30E+00	6 55E+00	NA	NA	NA	U3-T1
	008	5 7	2 8	10/21/2005	12 C0	3 09E+02	3 87E+02	4 2JE+02	NA	NA	NA	3 52E+0C	1 13E+01	8 6CE+30	3 872+00	1 16E+01	9 03E+00	NA	NA	NA	
	009	5 7	2 8	10/28/2005	12 C0	3 40E402	4 29E402	4 7JE+02	NA	NA	NA	5 55E+0C	1 06E+01	8 0CE+30	5 553+00	1 51E+01	1 18E+01	NA	NA	NA	
	0:0	5 7	2 8	11/4/2005	12 C0	1 57E402	4 29E402	4 7CE+02	NA	NA	NA	4 11E+0C	1 20E+01	8 8CE+30	3 903+00	1 17E+01	9 .8E+00	NA	NA	NA	
	0:1	5 7	2 8	11/10/2005	12 C0	5 C3E+02	4 26E+02	4 6JE+02	NA	NA	NA	3 11E+0C	9 32E+00	6 89E+30	2 973+00	8 92E+00	6 99E+00	NA	NA	NA	
	0:2	5 7	2 8	11/18/2005	12 C0	0 00E+0C	4 29E+02	4 81E+02	NA	NA	NA	3 90E+0C	1 17E+01	8 39E+30	3 403+00	1 02E+01	7 71E+00	NA	NA	NA	
	0:3	5 7	2 8	12/2/2005	12 C0	4 90E102	4 29E102	4 6JE102	NA	NA	NA	2 00E100	3 39E100	6 23E130	2 943100	8 33E100	6 0JE100	NA	NA	NA	
	001	5 7	2 8	12/15/2005	13 15	3 40E+02	4 29E+02	4 7CE+02	NA	NA	NA	2 53E+0C	7 60E+00	5 63E+30	2 893+00	8 57E+00	6 65E+00	NA	NA	NA	
	002	5 7	2 8	12/30/2005	10 40	5 29E+02	4 33E+02	4 7JE+02	NA	NA	NA	4 02E+0C	1 21E+01	8 7JE+30	4 073+00	1 22E+01	9 .7E+00	NA	NA	NA	
	003	5 7	2 8	1/12/2005	9 53	7 57E+02	4 47E+02	4 7JE+02	NA	NA	NA	3 10E+0C	9 31E+00	6 85E+30	2 833+00	8 49E+00	6 70E+00	NA	NA	NA	
	004	5 7	2 8	2/15/2005	13 15	8 55E402	1 65E403	6 3CE+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005	5 7	2 8	3/16/2005	11 50	1 26E+03	2 79E+02	1 8SE+02	6 55E-C1	8 43E-01	8 29E-01	1 06E+0C	5 49E+00	6 1SE+30	-: 81E-01	5 53E+00	6 .4E+00	NA	NA	NA	
	006	5 7	2 8	5/26/2005	13 30	7 52E+02	2 33E+02	1 8SE+02	1 27E+00	1 02E+00	1 01E+00	1 21E+0C	3 34E+00	9 42E+30	5 993+00	8 98E+00	1 .5E+0:	NA	NA	NA	
	0:4	5 7	2 8	7/12/2005	12 50	6 64E+02	2 36E+02	1 9JE+02	3 36E-C1	1 36E+00	1 44E+00	1 15E+0C	1 13E+01	1 18E+31	-1 14E+30	1 18E+01	1 26E+0:	NA	NA	NA	
	0:5	5 7	2 8	8/15/2005	11 30	7 66E+02	2 25E+02	1 7JE+02	NA	NA	NA	-4 04E+00	5 82E+00	6 33E+30	2 153+00	6 34E+00	8 29E+00	NA	NA	NA	
	0:6	5 7	2 8	6/12/2007	12 54	5 C6E+02	4 23E+02	4 3SE+02	6 25E-C1	8 75E-01	9 54E-01	-8 51E-02	2 94E+00	2 22E+30	7 17E-C1	2 30E+00	2 33E+00	-1 46E+00	1 40E+01	1 62E+31	
	0:7	5 7	2 8	8/1/2007	13 20	4 50E+02	3 33E+02	2 7JE+02	5 21E-C2	5 13E-01	6 47E-01	8 49E-01	3 57E+00	4 15E+30	2 88E-C1	3 42E+00	3 92E+00	NA	NA	NA	
	0:8	5 7	2 8	10/22/2007	16 13	5 30E+02	4 01E+02	4 0JE+02	3 41E-C1	5 49E-01	6 39E-01	-1 08E+00	3 44E+00	5 64E+30	-1 34E+30	3 52E+00	3 68E+00	NA	NA	NA	
	0:9	5 7	2 8	1/22/2008	16 11	6 C5E+02	3 15E+02	2 9JE+02	6 43E-C1	7 41E-01	7 79E-01	1 11E+0C	2 75E+00	3 21E+30	2 38E-C1	2 51E+00	2 75E+00	1 14E+01	1 65E+01	1 84E+31	
	0:9	5 7	2 8	1/22/2008	16 11	7 29E+02	3 2?E+02	2 9JE+02	6 26E-C1	7 26E-01	7 59E-01	1 21E+0C	3 14E+00	3 7CE+30	-: 79E-01	3 56E+00	3 93E+00	8 87E+00	1 85E+01	2 05E+31	
	020	5 7	2 8	5/?/2008	15 24	7 0?E+02	1 63E+02	2 2?E+02	7 24E-C1	5 19E-01	8 26E-01	2 85E-01	1 84E+00	2 15E+30	-1 15E+30	1 87E+00	2 82E+00	NA	NA	NA	
	021	5 7	2 8	7/23/2008	11 16	5 56E+02	2 53E+02	3 75E+02	6 40E-C1	5 19E-01	8 37E-01	2 41E+0C	2 24E+00	4 1SE+30	6 54E-C1	2 44E+00	4 01E+00	NA	NA	NA	
	022	5 7	2 8	10/20/2008	10 19	5 59E+02	5 63E+02	5 9JE+02	7 01E-C1	5 47E-01	5 20E-01	2 51E+0C	5 27E+00	7 4CE+30	1 51?+00	6 24E+00	7 35E+00	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
U3-T1	023	57	28	1/28/2009	12:00	6.75E+02	2.43E+02	2.04E+02	1.04E+00	7.47E-01	7.44E-01	-1.53E+00	3.59E+00	2.95E+00	-6.63E-01	2.30E+00	2.48E+00	NA	NA	NA	U3-T1
	024	57	28	4/10/2009	15:22	3.28E+02	1.65E+02	1.45E+02	3.23E-01	6.69E-01	7.51E-01	1.68E-01	5.03E+00	4.02E+00	1.24E+00	3.39E+00	4.14E+00	NA	NA	NA	
	025	57	28	7/14/2009	11:08	3.59E+02	2.56E+02	2.32E+02	4.71E-02	7.47E-01	8.96E-01	2.51E+00	5.24E+00	5.65E+00	5.47E-01	3.72E+00	4.45E+00	NA	NA	NA	
U3-T2	022	57	26	10/7/2005	12:00	7.63E+02	3.93E+02	4.12E+02	NA	NA	NA	5.67E+00	1.10E+01	8.05E+00	4.13E+00	1.24E+01	9.35E+00	NA	NA	NA	U3-T2
	013	57	26	10/21/2005	12:00	1.47E+03	3.63E+02	4.27E+02	NA	NA	NA	3.33E+00	1.00E+01	7.23E+00	3.00E+00	9.20E+00	6.90E+00	NA	NA	NA	
	014	57	26	10/28/2005	12:00	1.28E+03	4.56E+02	4.72E+02	NA	NA	NA	3.44E+00	1.03E+01	7.67E+00	4.28E+00	1.28E+01	9.89E+00	NA	NA	NA	
	015	57	26	11/4/2005	12:00	1.19E+03	4.59E+02	4.76E+02	NA	NA	NA	3.41E+00	1.02E+01	7.53E+00	3.06E+00	1.16E+01	8.81E+00	NA	NA	NA	
	016	57	26	11/10/2005	12:00	1.61E+03	4.59E+02	4.61E+02	NA	NA	NA	3.81E+00	1.14E+01	8.34E+00	3.96E+00	1.19E+01	9.09E+00	NA	NA	NA	
	017	57	26	11/18/2005	12:00	1.13E+03	4.63E+02	4.81E+02	NA	NA	NA	3.57E+00	1.19E+01	8.70E+00	4.15E+00	1.25E+01	9.55E+00	NA	NA	NA	
	018	57	26	12/2/2005	12:00	1.33E+03	4.56E+02	4.64E+02	NA	NA	NA	2.31E+00	5.92E+00	5.23E+00	2.58E+00	7.74E+00	6.11E+00	NA	NA	NA	
	001	57	26	12/15/2005	13:30	1.59E+03	4.67E+02	4.71E+02	NA	NA	NA	2.77E+00	8.30E+00	6.06E+00	2.85E+00	8.55E+00	6.57E+00	NA	NA	NA	
	002	57	26	12/30/2005	10:50	1.69E+03	4.74E+02	4.71E+02	NA	NA	NA	3.81E+00	1.14E+01	8.46E+00	3.49E+00	1.05E+01	8.31E+00	NA	NA	NA	
	003	57	26	1/6/2006	3:45	2.42E+03	4.92E+02	4.66E+02	NA	NA	NA	2.86E+00	3.57E+00	6.56E+00	4.04E+00	1.21E+01	9.38E+00	NA	NA	NA	
	004	57	26	1/13/2006	13:20	1.78E+03	4.77E+02	4.72E+02	NA	NA	NA	4.01E+00	1.20E+01	8.74E+00	3.41E+00	1.02E+01	7.94E+00	NA	NA	NA	
	005	57	26	1/20/2006	11:00	1.75E+03	4.56E+02	4.61E+02	NA	NA	NA	3.40E+00	1.02E+01	7.71E+00	3.27E+00	9.82E+00	7.99E+00	NA	NA	NA	
	006	57	26	1/25/2006	11:10	2.32E+03	4.86E+02	4.61E+02	NA	NA	NA	3.56E+00	1.19E+01	8.77E+00	3.17E+00	9.50E+00	7.64E+00	NA	NA	NA	
	007	57	26	2/1/2006	11:15	2.13E+03	4.80E+02	4.66E+02	NA	NA	NA	3.17E+00	9.51E+00	7.02E+00	3.47E+00	1.04E+01	7.99E+00	NA	NA	NA	
	009	57	26	2/17/2006	9:23	1.52E+03	2.50E+03	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	010	57	26	3/16/2006	12:00	1.69E+03	3.36E+02	2.04E+02	5.87E-01	9.21E-01	1.00E+00	-7.43E-01	5.36E+00	6.83E+00	-1.22E-01	6.33E+00	6.88E+00	NA	NA	NA	
	011	57	26	5/26/2006	13:15	1.50E+03	3.86E+02	2.48E+02	1.49E+00	1.11E+00	1.01E+00	1.64E+00	1.01E+01	1.22E+01	5.67E+00	9.40E+00	1.25E+01	NA	NA	NA	
	019	57	26	7/12/2006	12:25	1.83E+03	5.73E+02	2.54E+02	1.24E-01	1.72E+00	1.80E+00	2.38E+00	5.90E+00	8.07E+00	1.50E+00	6.59E+00	7.14E+00	NA	NA	NA	
	020	57	26	8/15/2006	10:30	1.58E+03	7.72E+02	7.72E+02	NA	NA	NA	-8.87E-01	7.17E+00	7.64E+00	3.29E+00	9.10E+00	1.45E+0.	NA	NA	NA	
	021	57	26	6/12/2007	9:23	1.40E+03	3.19E+02	4.36E+02	-3.89E-01	7.03E-01	9.19E-01	2.63E-01	2.29E+00	2.34E+00	-1.00E-01	2.42E+00	2.74E+00	3.88E+00	1.39E+01	1.37E+01	
	022	57	26	8/1/2007	14:14	1.25E+03	4.62E+02	6.55E+02	-4.8-E-02	5.37E-01	7.11E-01	-1.75E+00	3.23E+00	3.20E+00	1.99E-02	3.54E+00	4.00E+00	NA	NA	NA	
	023	57	26	10/22/2007	15:07	1.17E+03	4.76E+02	4.02E+02	2.36E-01	5.20E-01	6.30E-01	-7.13E-02	2.02E+00	2.11E+00	2.53E+00	3.50E+02	3.01E+00	NA	NA	NA	
	024	57	26	1/22/2008	16:16	1.33E+03	3.83E+02	2.97E+02	4.31E-01	8.54E-01	9.53E-01	7.39E-01	2.97E+00	3.35E+00	1.14E+00	3.39E+00	2.86E+00	2.78E+00	1.62E+01	1.88E+01	
	025	57	26	5/2/2008	14:44	1.02E+03	1.77E+02	2.22E+02	6.52E-01	3.31E-01	4.70E-01	5.50E-01	2.06E+00	1.53E+00	7.90E-01	1.53E+00	3.00E+00	NA	NA	NA	
	026	57	26	7/23/2008	13:40	9.97E+02	2.83E+02	3.64E+02	5.90E-01	5.19E-01	8.44E-01	3.57E-02	1.77E+00	2.93E+00	-1.02E+00	2.44E+00	3.39E+00	NA	NA	NA	
	027	57	26	10/20/2008	10:36	9.28E+02	5.97E+02	5.96E+02	4.73E-01	4.95E-01	4.35E-01	-4.68E-01	4.82E+00	5.31E+00	-5.02E+00	6.54E+00	6.06E+00	NA	NA	NA	
	028	57	26	1/28/2009	11:40	1.11E+03	2.87E+02	2.04E+02	6.04E-01	6.41E-01	6.75E-01	7.10E-01	2.42E+00	2.74E+00	4.09E-01	2.30E+00	2.61E+00	NA	NA	NA	
	029	57	26	4/24/2009	11:24	1.03E+03	4.97E+02	4.14E+02	1.76E+00	6.54E-01	4.11E-01	1.62E+00	5.63E+00	4.43E+00	3.29E-01	4.16E+00	4.69E+00	NA	NA	NA	
	030	57	26	7/14/2009	13:04	1.12E+03	2.94E+02	2.30E+02	5.50E-01	8.61E-01	9.38E-01	1.31E-01	3.69E+00	4.23E+00	-6.83E-01	3.72E+00	4.05E+00	NA	NA	NA	
U1-CSS	001	14	61	1/30/2007	11:45	1.76E+03	5.00E+02	5.70E+02	1.95E+00	2.19E+00	1.70E+00	7.00E-01	1.32E+00	1.40E+00	-3.20E-01	1.38E+00	1.60E+00	1.64E+01	2.67E+01	2.90E+01	U1-CSS
	002	14	61	2/27/2007	11:24	4.52E+03	5.90E+02	5.70E+02	1.38E+00	2.31E+00	2.10E+00	1.11E+00	1.95E+00	2.10E+00	7.00E-01	1.95E+00	2.20E+00	-1.30E+00	2.55E+01	2.90E+01	
	003	14	61	6/13/2007	11:39	1.53E+03	5.23E+02	4.35E+02	1.45E+00	1.91E+00	6.34E-01	8.70E-01	3.57E+00	4.15E+00	2.82E+00	4.28E+00	4.93E+00	4.42E+00	1.95E+01	2.22E+01	
	004	14	61	8/6/2007	15:55	2.60E+03	3.81E+02	1.92E+02	2.68E+01	2.33E+00	5.71E-01	2.53E+00	4.30E+00	4.61E+00	2.48E+00	6.34E+00	4.17E+00	NA	NA	NA	
	005	14	61	1/15/2008	14:54	4.55E+02	2.04E+02	1.76E+02	7.73E+00	1.31E+00	6.91E-01	2.85E+00	5.56E+00	5.36E+00	-6.88E-02	3.33E+00	3.71E+00	NA	NA	NA	
	006	14	61	4/13/2008	12:20	1.71E+03	1.96E+02	1.44E+02	6.74E+00	9.01E-01	7.19E-01	-1.36E+00	2.12E+00	2.28E+00	-1.61E-01	2.28E+00	2.53E+00	NA	NA	NA	
	007	14	61	5/12/2008	14:05	6.68E+02	1.83E+02	1.42E+02	4.83E+00	8.35E-01	9.25E-01	2.59E+00	2.30E+00	4.25E+00	3.09E-01	2.58E+00	3.96E+00	-2.85E+00	1.19E+01	2.06E+01	
	008	14	61	9/8/2008	10:24	1.42E+03	3.77E+02	4.96E+02	9.38E+00	9.40E-01	5.43E-01	1.90E+00	2.07E+00	3.76E+00	NA	NA	NA	NA	NA	NA	
	009	14	61	11/6/2003	14:40	2.66E+03	3.06E+02	1.66E+02	6.74E+00	1.20E+00	5.33E-01	3.52E+00	5.01E+00	7.25E+00	-1.94E+00	6.45E+00	6.67E+00	1.52E+01	1.65E+01	1.85E+01	
	010	14	61	11/19/2000	13:50	2.20E+03	3.33E+02	1.62E+02	9.00E+00	1.30E+00	5.30E-01	2.35E+00	4.04E+00	4.05E+00	6.56E-01	4.53E+00	5.37E+00	NA	NA	NA	
	011	14	61	3/18/2009	13:05	1.57E+03	5.36E+02	3.81E+02	1.41E+01	2.04E+00	9.34E-01	2.00E+00	5.93E+00	5.95E+00	2.86E-01	3.93E+00	3.42E+00	6.76E-01	1.94E+01	2.22E+01	
	012	14	61	4/21/2009	13:07	3.28E+03	3.87E+02	1.91E+02	3.56E+01	2.64E+00	7.19E-01	5.75E-01	5.23E+00	5.52E+00	1.36E+00	3.92E+00	3.74E+00	1.79E+01	1.93E+01	2.11E+01	
TI1-NCT	001	NA	NA	5/8/2008	9:45	9.50E+03	3.49E+02	1.96E+02	3.97E+02	2.58E+00	3.57E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	TI1-NCT
	002	NA	NA	10/15/2008	12:35	6.19E+03	3.71E+02	1.61E+02	4.35E+02	5.89E+00	3.33E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	NA	NA	1/12/2009	13:45	2.13E+03	2.43E+02	1.92E+02	4.64E+02	8.90E+00	6.51E-01	2.84E+04	2.63E+03	1.22E+01	7.66E-01	2.37E+00	2.80E+00	6.41E+02	4.11E+01	1.89E+01	
	004	NA	NA	4/13/2009	12:15	5.21E+03	5.13E+02	1.35E+02	3.22E+02	7.74E+00	8.42E-01	2.70E+04	2.66E+01	1.77E+01	2.70E+00	4.46E+00	5.13E+00	5.09E+02	6.05E+01	4.30E+01	
	005	NA	NA	7/13/2009	12:30	2.66E+03	3.86E+02	2.06E+02	1.30E+02	4.98E+00	5.34E-01	1.78E+04	1.36E+03	1.35E+01	7.71E-01	3.71E+00	4.30E+00	2.51E+02	2.72E+01	2.12E+01	
U1-SFDS	001	NA	NA	4/9/2008	3:55	6.28E+02	1.41E+02	1.97E+02	9.98E+00	4.86E-01	4.31E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	U1-SFDS
	002	NA	NA	5/8/2008	9:13	8.81E+02	1.50E+02	1.96E+02	1.40E+01	5.18E-01	3.59E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003	NA	NA	10/15/2008	12:45	1.09E+03	1.79E+02	1.67E+02	1.85E+01	1.26E+00	4.56E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004	NA	NA	1/14/2009	9:15	3.11E+02	1.82E+02	1.92E+02	1.22E+01	1.67E+00	8.15E-01	6.39E+00	3.47E+00	2.22E+00	1.03E+00	1.91E+00	2.27E+00	7.26E+00	1.62E+01	1.88E+01	
	005	NA	NA	4/13/2009	12:30	1.52E+03	2.96E+02	1.37E+02	4.93E+01	3.03E+00	6.15E-01	8.09E+00	5.87E+00	3.91E+00	2.45E+00	3.80E+00	4.79E+00	-9.47E+00	1.92E+01	2.30E+01	
	006	NA	NA	7/13/2009	3:53	7.55E+02	2.15E+02	2.35E+02	5.54E+01	2.61E+00	4.79E-01	9.41E+00	7.41E+00	5.61E+00	-9.93E-02	4.44E+00	4.64E+00	5.10E+00	2.14E+01	2.44E+01	
KW-1	001	197.5	-30	10/25/2006	11:57	6.41E+04	4.83E+03	8.52E+02	-8.44E-01	1.29E+00	1.52E+00	9.70E-01	4.75E+00	5.45E+00	8.01E-01	4.52E+00	5.32E+00	NA	NA	NA	KW-1
	002	197.5	-30	10/25/2006	14:15	2.55E+04	2.23E+03	5.81E+02	3.10E-01	8.79E-01	9.23E-01	1.99E+00	5.23E+00	5.98E+00	4.31E-01	4.74E+00	5.22E+00	NA	NA	NA	
	003	197.5	-30	10/31/2006	12:27	1.07E+05	3.06E+03	1.10E+03	-3.70E-01	9.51E-01	1.09E+00	7.38E-01	4.23E+00	4.71E+00	7.34E-01	3.34E+00	3.61E+00	NA	NA	NA	
	005	197.5	-30	10/31/2006	20:00	1.09E+04	1.49E+03	4.73E+02	9.06E-01	1.15E+00	1.14E+00	5.93E-01	4.51E+00	5.21E+00	1.65E+00	5.31E+00	6.00E+00	NA	NA	NA	
	004	197.5	30	10/31/2006	15:55	2.63E+04	3.04E+03	5.51E+02	1.06E+00	1.15E+00	1.39E+00	2.26E-01	3.86E+00	3.95E+00	6.23E-03	3.36E+00	3.21E+00	NA	NA	NA	
	006	197.5	30	11/1/2006	12:00	1.61E+04	1.43E+03	2.66E+02	3.64E-01	1.03E+00	1.08E+00	3.39E+00	5.14E+00	5.90E+00	5.25E-01	4.31E+00	4.19E+00	NA	NA	NA	
	007	197.5	-30	11/2/2006	12:00	2.40E+04	2.13E+03	1.00E+03	1.50E-01	6.00E-01	6.70E-01	1.12E+00	2.37E+00	2.65E+00	-8.50E-01	2.37E+00	2.90E+00	NA	NA	NA	
	008	197.5	-30	11/3/2006	9:01	3.66E+04	2.84E+03	1.00E+03	4.80E-01	7.70E-01	7.30E-01	-1.05E+00	2.19E+00	2.65E+00	8.20E-01	2.48E+00	2.70E+00	NA	NA	NA	
MH-5	001	NA	NA	6/29/2007	12:15	1.41E+03	2.33E+02	1.87E+02	-3.26E-01	6.21E-01	9.20E-01	-9.57E-01	3.40E+00	3.60E+00	6.39E-02	3.13E+00	3.42E+00	NA	NA	NA	MH-5
	002	NA	NA	8/10/2007	15:15	1.17E+03	5.21E+02	4.56E+02	3.17E-02	7.84E-01	9.38E-01	-5.40E-01	3.17E+00	2.87E+00	-8.50E-01	2.34E+00	2.93E+00	NA	NA	NA	
	003	NA	NA	10/26/2007	13:30	1.62E+03	2.30E+02	1.84E+02	1.60E-01	6.00E-01	7.10E-01	2.15E-01	2.64E+00	2.95E+00	-6.20E-01	2.20E+00	3.06E+00	NA	NA	NA	
	004	NA	NA	1/16/2008	12:30	9.28E+02	2.45E+02	1.77E+02	4.62E-01	8.33E-01	9.37E-01	5.53E-01	2.78E+00	3.05E+00	5.97E-01	2.55E+00	2.90E+00	NA	NA	NA	
	005	NA	NA	6/3/2009	14:45	1.20E+03	1.95E+02	1.62E+02	-5.27E-01	6.72E-01	8.48E-01	3.34E+00	7.21E+00	6.14E+00	7.60E-01	4.33E+00	5.73E+00	NA	NA	NA	
	006	NA	NA	8/24/2009	10:15	1.50E+03	2.46E+02	2.18E+02	5.16E-01	5.64E-01	5.97E-01	8.69E-02	5.58E+00	6.23E+00	2.70E+00	6.51E+00	7.43E+00	NA	NA	NA	
LAF-002	001	NA	-22.3	6/6/2006	12:47	5.20E+01	1.71E+02	1.83E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	LAF-002
	001	NA	-22.3	6/6/2006	12:47	3.58E+01	3.60E+02	6.98E+02	1.38E+00	1.85E+00	1.93E+00	-3.88E+00	1.53E+00	1.55E+00	-2.24E+00	1.25E+01	1.34E+0.	-2.34E-01	2.13E+01	2.34E+01	
	003	NA	-22.3	9/19/2005	13:14	-4.71E+01	1.50E+02	1.77E+02	-5.08E-01	8.90E-01	1.07E+00	6.45E-02	9.05E+00	1.01E+00	-2.76E+00	6.35E+00	4.99E+00	NA	NA	NA	
	004	NA	-22.3	12/4/2005	13:38	-1.20E+01	1.62E+02	1.61E+02	-1.20E-01	7.80E-01	8.50E-01	NA	NA	NA	5.00E-01	5.40E+00	6.30E+00	-2.50E+00	7.20E+00	8.10E+00	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

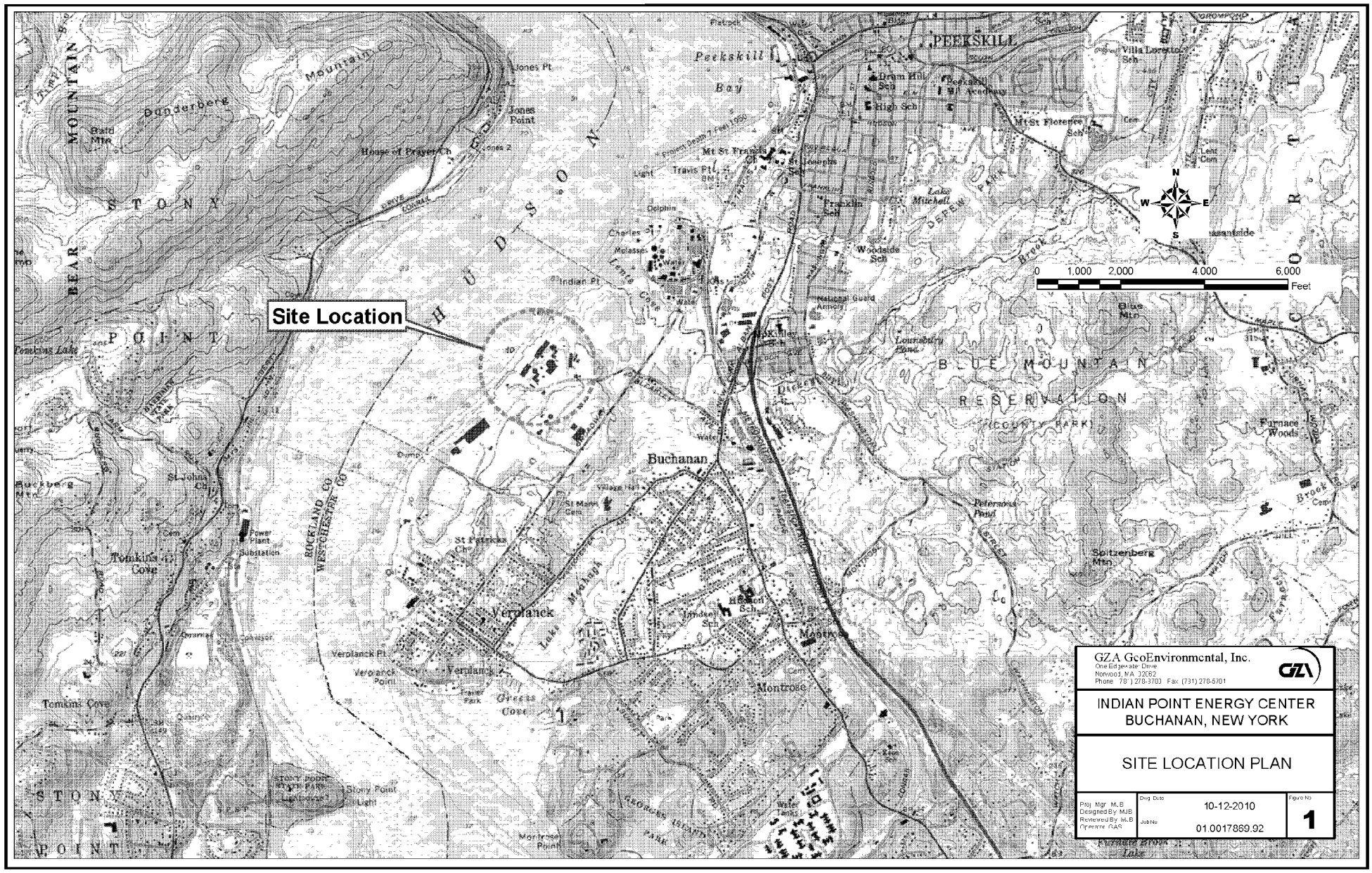
Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
LAF-002	005	NA	-22.3	3/7/2007	14:45	-8.30E+01	1.56E+02	1.60E+02	8.20E-01	1.50E+00	1.60E+00	3.10E+00	4.80E+00	5.10E+00	-1.20E+00	5.40E+00	7.30E+00	NA	NA	NA	LAF-002
	006	NA	-22.3	6/7/2007	13:18	-6.85E+00	1.33E+02	1.54E+02	3.19E-01	6.02E-01	6.79E-01	7.80E-01	2.63E+00	3.04E+00	6.55E-01	2.50E+00	3.04E+00	NA	NA	NA	
	007	NA	-22.3	10/9/2007	9:45	7.46E+01	1.51E+02	1.52E+02	4.43E-01	4.98E-01	5.18E-01	-5.45E-01	2.10E+00	1.65E+00	-1.44E+00	1.78E+00	1.39E+00	NA	NA	NA	
	008	NA	-22.3	12/4/2007	10:50	9.10E+01	1.46E+02	1.62E+02	4.89E-01	6.20E-01	6.52E-01	-6.91E-01	4.59E+00	4.37E+00	-2.35E+00	5.12E+00	5.39E+00	NA	NA	NA	
	009	NA	-22.3	4/10/2008	9:05	4.65E+01	3.46E+01	1.44E+02	4.73E-01	3.02E-01	4.36E-01	1.51E+00	2.14E+00	3.97E+00	1.61E+00	2.46E+00	4.56E+00	NA	NA	NA	
	010	NA	-22.3	10/17/2008	10:52	8.19E+01	1.50E+02	1.74E+02	4.02E-01	7.90E-01	9.31E-01	2.56E-01	2.76E+00	3.10E+00	-3.06E-02	3.09E+00	3.46E+00	-4.61E+00	2.01E+01	2.35E+01	
	011	NA	-22.3	4/21/2009	14:24	1.08E+02	1.77E+02	1.69E+02	1.77E-01	5.70E-01	6.36E-01	-1.74E+00	5.94E+00	5.96E+00	3.37E-01	3.99E+00	4.50E+00	2.34E+00	1.92E+01	2.15E+01	
B-1	001	NA	NA	6/29/2007	12:35	7.53E+02	3.07E+02	1.85E+02	3.83E-01	6.75E-01	9.30E-01	0.00E+00	7.01E+00	7.44E+00	9.13E-01	3.30E+00	3.40E+00	NA	NA	NA	B-1
	002	NA	NA	8/14/2007	11:30	1.10E+03	2.23E+02	1.90E+02	1.29E-02	5.93E-01	7.38E-01	0.00E+00	5.71E+00	5.93E+00	5.94E-01	3.54E+00	4.15E+00	NA	NA	NA	
	003	NA	NA	10/22/2007	14:49	1.10E+03	4.63E+02	4.01E+02	-1.56E-01	3.72E-01	5.51E-01	1.68E+01	5.82E+00	5.82E+00	1.33E+00	3.23E+00	3.53E+00	NA	NA	NA	
	004	NA	NA	1/22/2008	13:08	2.27E+02	1.61E+02	1.71E+02	1.29E-01	5.00E-01	6.17E-01	3.13E-01	2.54E+00	2.89E+00	-9.46E-02	2.77E+00	3.01E+00	NA	NA	NA	
	005	NA	NA	4/18/2008	18:25	1.17E+03	1.57E+02	2.01E+02	-1.14E-01	3.81E-01	7.32E-01	2.02E+01	3.70E+00	3.07E+00	-2.46E-01	1.76E+00	2.97E+00	NA	NA	NA	
	006	NA	NA	6/3/2009	13:30	8.81E+02	1.83E+02	1.62E+02	7.01E-02	7.89E-01	9.15E-01	9.21E+00	1.11E+01	5.41E+00	-2.25E+00	6.23E+00	5.86E+00	NA	NA	NA	
B-6	001	NA	NA	7/5/2007	9:00	4.03E+02	1.67E+02	1.69E+02	1.01E-01	4.97E-01	5.57E-01	1.29E+00	3.46E+00	4.04E+00	1.09E+00	3.51E+00	4.15E+00	NA	NA	NA	B-6
	002	NA	NA	8/14/2007	3:30	5.46E+01	1.63E+02	1.92E+02	-3.06E-01	6.20E-01	8.32E-01	5.63E-01	2.97E+00	3.42E+00	-2.88E+00	3.31E+00	2.35E+00	NA	NA	NA	
	003	NA	NA	10/22/2007	11:30	1.07E+02	1.70E+02	1.90E+02	-7.54E-02	4.34E-01	5.33E-01	2.39E+00	2.33E+00	3.04E+00	1.04E+00	2.46E+00	3.05E+00	NA	NA	NA	
	004	NA	NA	1/16/2008	16:50	4.72E+02	2.04E+02	1.75E+02	1.05E-01	7.05E-01	8.33E-01	3.96E+00	4.41E+00	3.32E+00	1.29E+00	3.15E+00	3.66E+00	NA	NA	NA	
	005	NA	NA	4/25/2008	14:15	5.23E+01	3.45E+01	1.42E+02	-1.20E-01	2.59E-01	5.25E-01	-2.89E-01	1.96E+00	2.24E+00	-7.50E-01	3.43E+00	4.21E+00	NA	NA	NA	
	006	NA	NA	6/3/2009	9:40	1.08E+02	1.46E+02	1.63E+02	1.71E-01	7.08E-01	8.14E-01	1.50E-01	1.19E+01	7.94E+00	1.26E+00	5.79E+00	6.80E+00	NA	NA	NA	

Notes

1. For nested multi-level monitoring wells, suffix of well ID indicates depth (rounded to nearest foot) from reference point on casing to bottom of well screen. For Waterloc multi-level systems, suffix indicates depth (rounded to nearest foot) from reference point on casing to top of sampling port. Well IDs without a suffix are open bedrock wellbores
2. Sampling depths within sampling intervals (location of pump intake) have been established at location of most transmissive zone to the extent possible
3. NA indicates that the constituent was not analyzed
4. Current well identifications are shown for each location. Minor name changes have been made based on altered transducer installations
5. Dot pattern denotes sampling interval is positioned within overburden soils. Open box indicates sampling interval is in bedrock
6. At monitoring well U3T1, sample IDs 019-S, 019-D, and 019-S were collected for laboratory and field QA/QC (E=Blind, D=Duplicate, S-Spike). Only the duplicate sample results were included in the calculations for rolling averages
7. These locations are storm drains, not monitoring wells

FIGURES

IPEC00224609



J:\17,000-18,999\17869\17869-31 MG\Figures\GIS\MXD Documents\G3_20091010-10-12 F31 Site Location Plan 17869-92-FINAL.mxd

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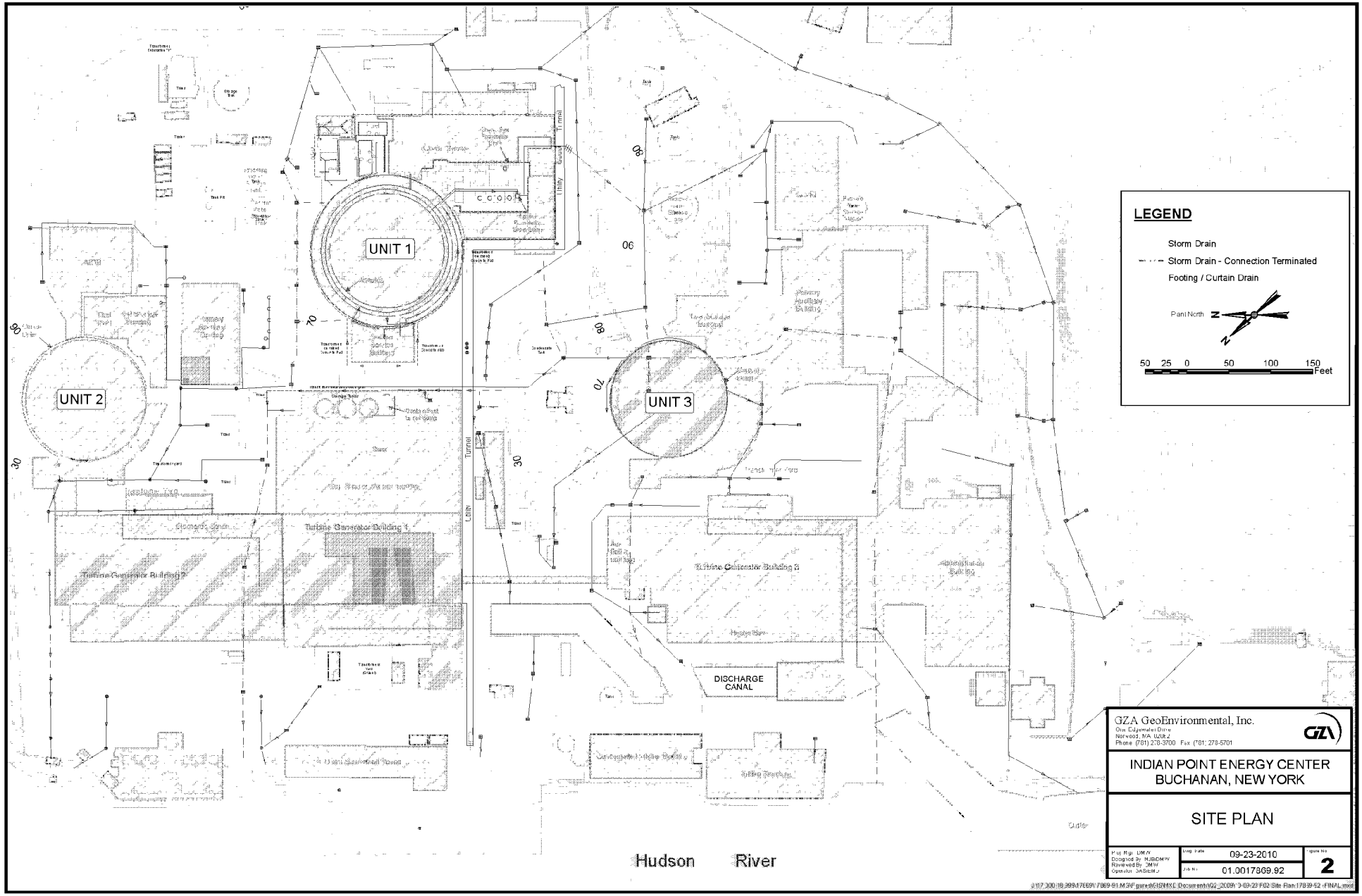

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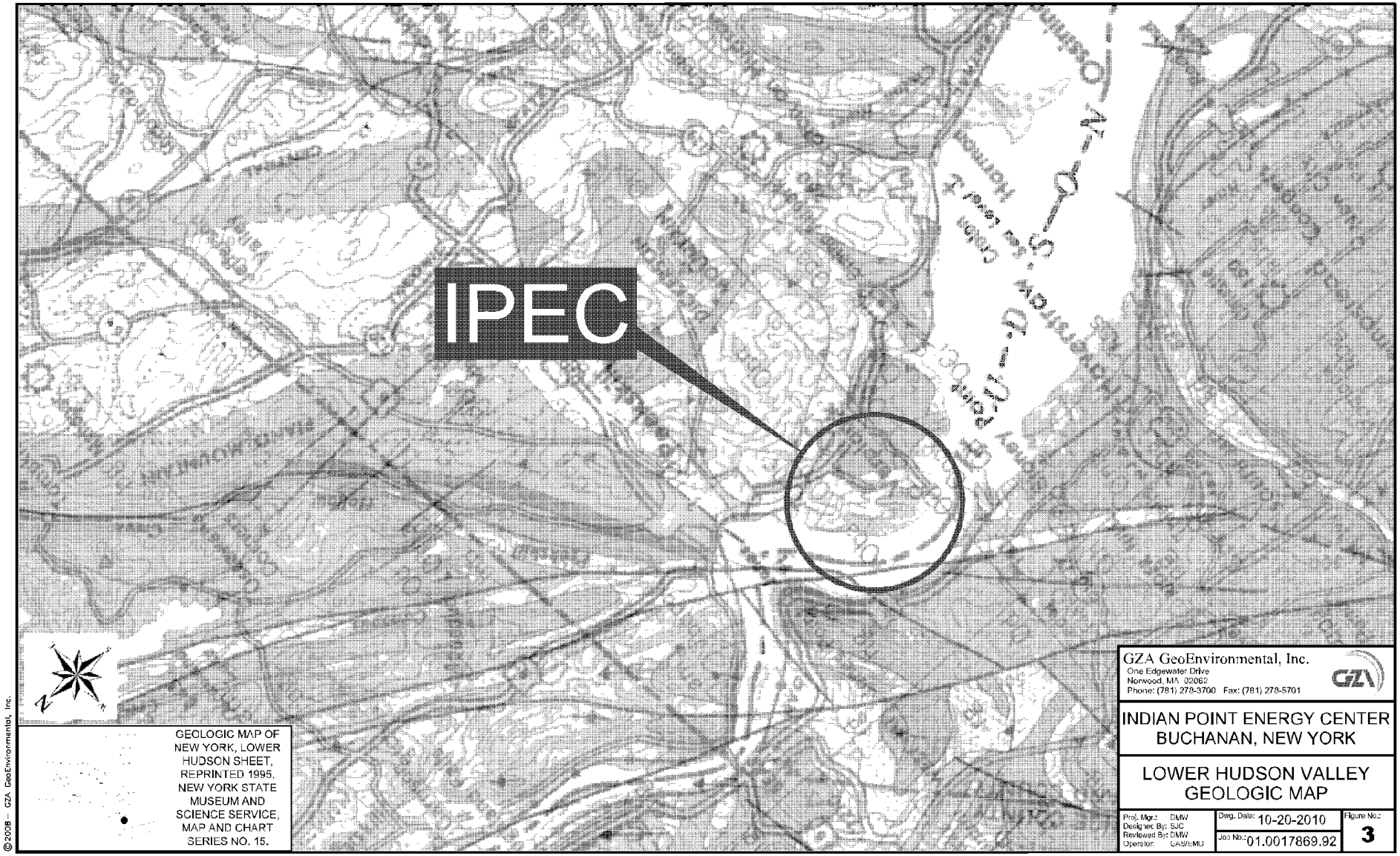

GEOLOGIC MAP OF NEW YORK, LOWER HUDSON SHEET, REPRINTED 1995, NEW YORK STATE MUSEUM AND SCIENCE SERVICE, MAP AND CHART SERIES NO. 15.

GZA GeoEnvironmental, Inc.
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INDIAN POINT ENERGY CENTER
BUCHANAN, NEW YORK

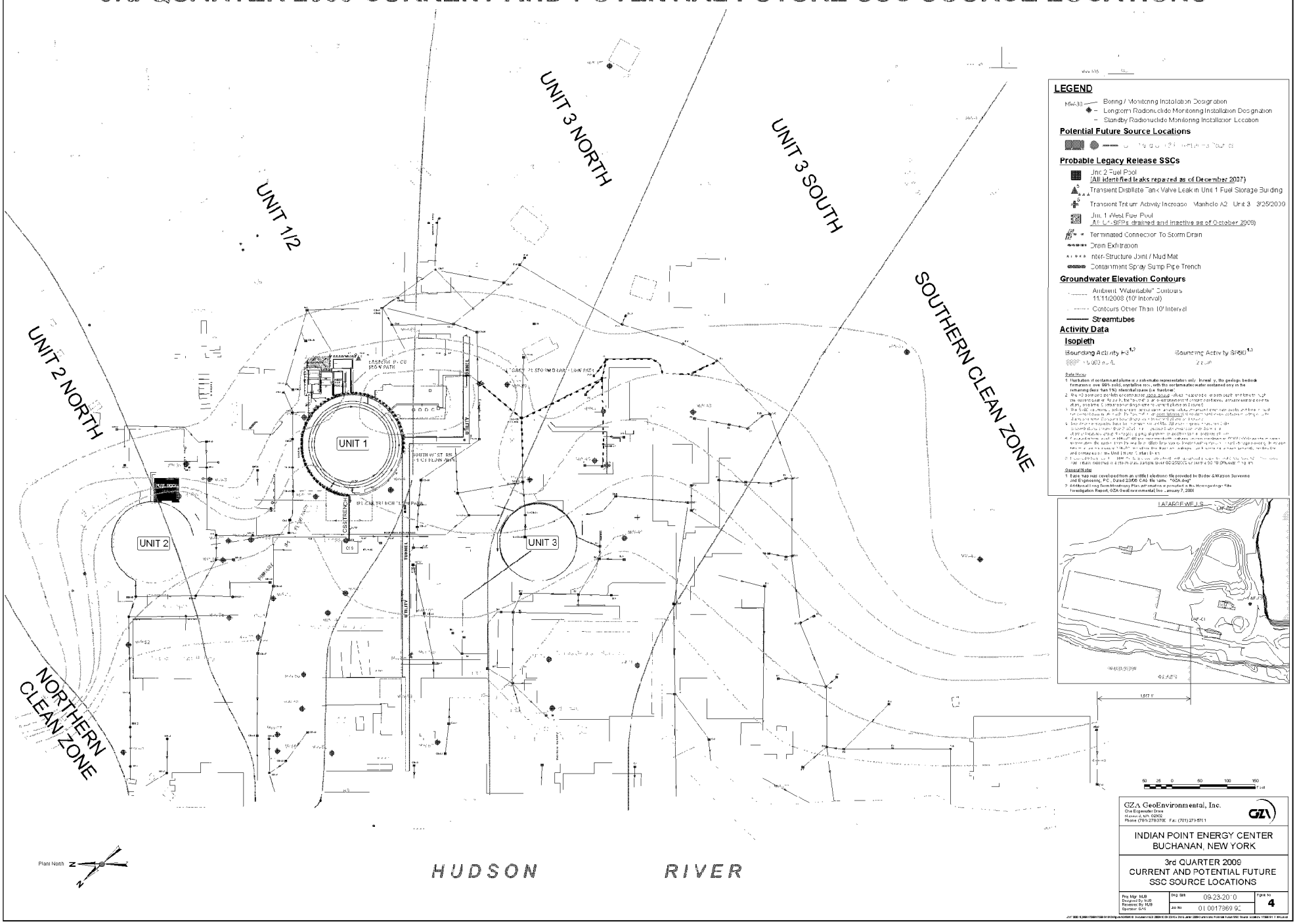
LOWER HUDSON VALLEY
GEOLOGIC MAP

Proj. Mgr.: DMW Designed By: SJC Reviewed By: DMW Operator: CAS/EMD	Dwg. Date: 10-20-2010 Job No.: 01.0017869.92	Figure No.: 3

GZA-J:\17,000-18,999\17869\17869-91.MG\Figures\CADD\302009\10-10-20 FD3 Lower Hudson Valley Geologic Map 17869-91 -FINAL.dwg [FIG-3] October 20, 2010 - 10:29am gregory.scott

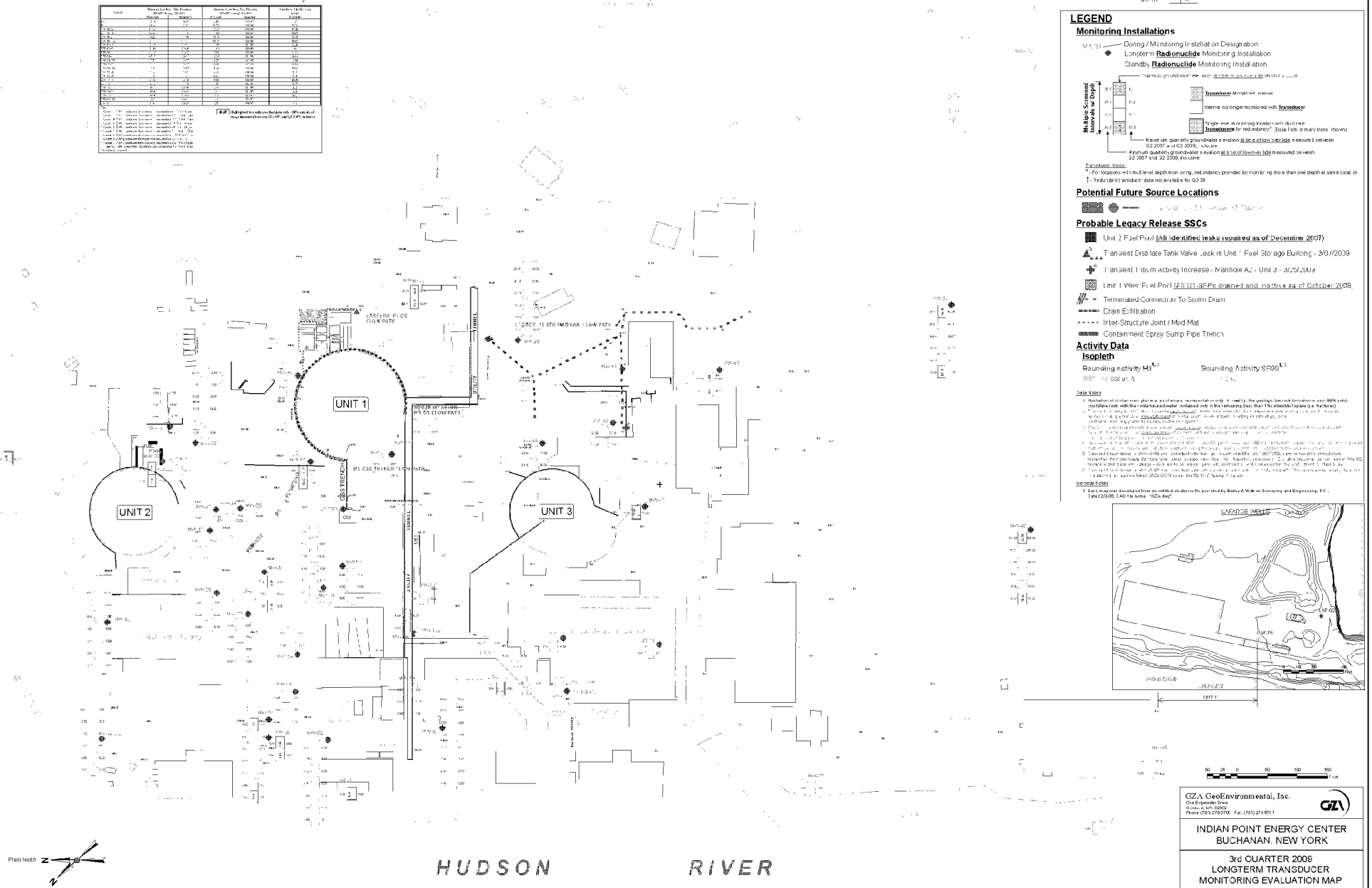
IPEC00224612

3rd QUARTER 2009 CURRENT AND POTENTIAL FUTURE SSC SOURCE LOCATIONS



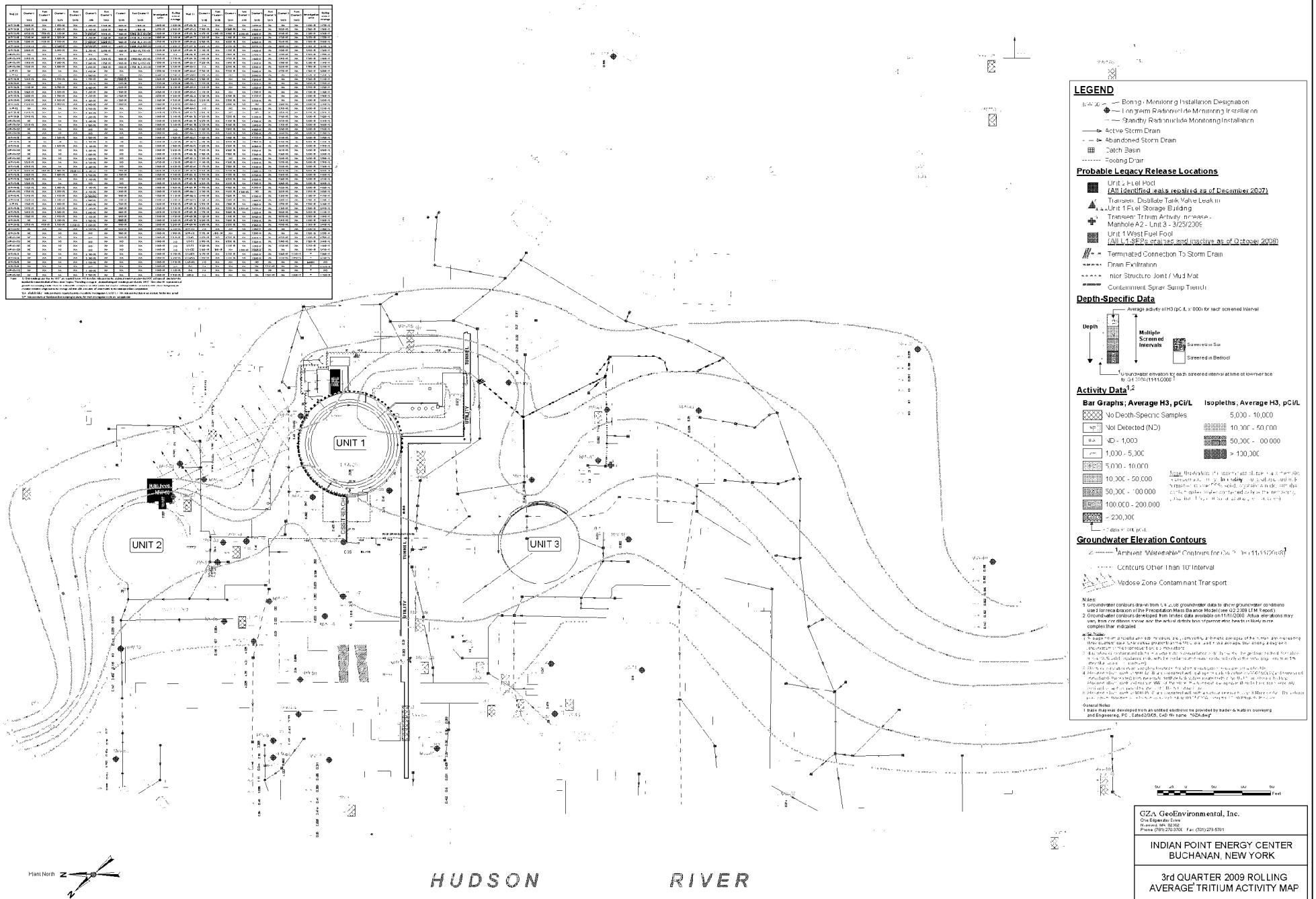
IPEC00224613

3rd QUARTER 2009 LONGTERM TRANSDUCER MONITORING EVALUATION MAP



IPEC00224614

3rd QUARTER 2009 ROLLING AVERAGE[1] TRITIUM ACTIVITY MAP



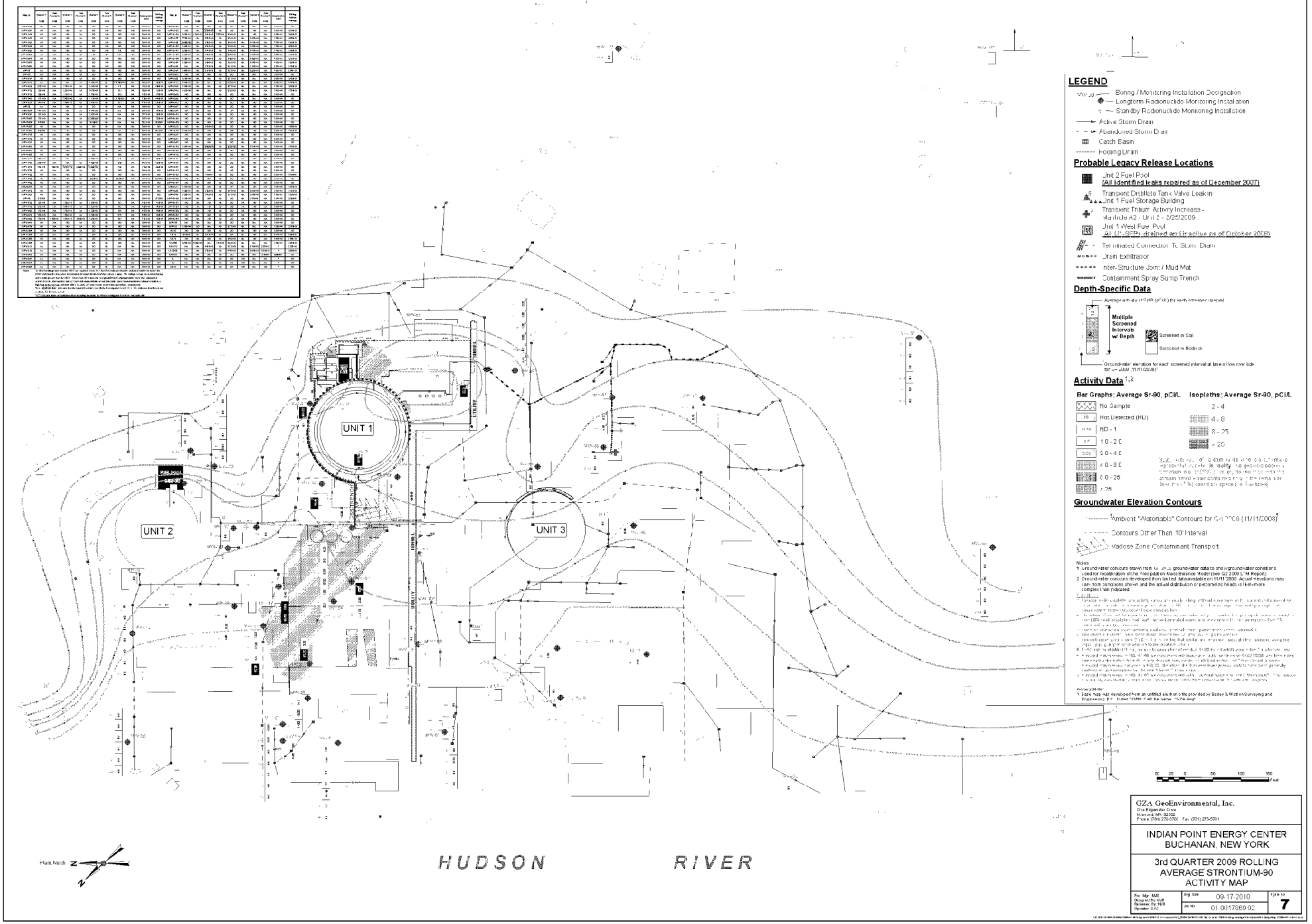
Well ID	Quarter 1 Date	Rad Level pCi/L	Quarter 2 Date	Rad Level pCi/L	Quarter 3 Date	Rad Level pCi/L	Quarter 4 Date	Rad Level pCi/L	Annualized Level pCi/L	Rolling Average pCi/L
MW-26B	3/4/09	1,900.00	6/2/09	1,400.00	9/8/09	1,300.00	12/1/09	1,600.00	1,550.00	1,725.00
MW-26C	3/4/09	1,500.00	6/2/09	1,400.00	9/8/09	1,300.00	12/1/09	1,600.00	1,450.00	1,700.00
MW-27B	3/4/09	1,100.00	6/2/09	1,200.00	9/8/09	1,200.00	12/1/09	1,200.00	1,175.00	1,350.00
MW-27C	3/4/09	1,000.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,075.00	1,250.00
MW-28B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-28C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-29B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-29C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-30B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-30C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-31B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-31C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-32B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-32C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-33B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-33C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-34B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-34C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-35B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-35C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-36B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-36C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-37B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-37C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-38B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-38C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-39B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-39C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-40B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-40C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-41B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-41C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-42B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-42C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-43B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-43C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-44B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-44C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-45B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-45C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-46B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-46C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-47B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-47C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-48B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-48C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-49B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-49C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-50B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-50C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-51B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-51C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-52B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-52C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-53B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-53C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-54B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-54C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-55B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-55C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-56B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-56C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-57B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-57C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-58B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-58C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-59B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-59C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-60B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-60C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-61B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-61C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-62B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-62C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-63B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-63C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-64B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-64C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-65B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-65C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-66B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-66C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-67B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-67C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-68B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-68C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-69B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-69C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-70B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-70C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-71B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-71C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-72B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-72C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-73B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-73C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-74B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-74C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-75B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-75C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-76B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-76C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-77B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-77C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-78B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-78C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-79B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-79C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-80B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-80C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-81B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-81C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-82B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-82C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-83B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-83C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-84B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-84C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-85B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-85C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-86B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-86C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-87B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-87C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-88B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-88C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-89B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-89C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-90B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-90C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-91B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-91C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-92B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-92C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-93B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-93C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-94B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-94C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-95B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-95C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-96B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-96C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-97B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-97C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-98B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-98C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-99B	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-99C	3/4/09	1,500.00	6/2/09	1,500.00	9/8/09	1,500.00	12/1/09	1,500.00	1,500.00	1,625.00
MW-100B	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00
MW-100C	3/4/09	1,100.00	6/2/09	1,100.00	9/8/09	1,100.00	12/1/09	1,100.00	1,100.00	1,225.00

Notes:
1. Rolling average calculated as the average of the current quarter and the previous three quarters. Where data is not available for a previous quarter, the rolling average is calculated as the average of the available data.
2. Annualized Level calculated as the average of the 4th quarter of the current year and the previous three quarters.
3. Data for MW-26B, MW-26C, MW-27B, MW-27C, MW-28B, MW-28C, MW-29B, MW-29C, MW-30B, MW-30C, MW-31B, MW-31C, MW-32B, MW-32C, MW-33B, MW-33C, MW-34B, MW-34C, MW-35B, MW-35C, MW-36B, MW-36C, MW-37B, MW-37C, MW-38B, MW-38C, MW-39B, MW-39C, MW-40B, MW-40C, MW-41B, MW-41C, MW-42B, MW-42C, MW-43B, MW-43C, MW-44B, MW-44C, MW-45B, MW-45C, MW-46B, MW-46C, MW-47B, MW-47C, MW-48B, MW-48C, MW-49B, MW-49C, MW-50B, MW-50C, MW-51B, MW-51C, MW-52B, MW-52C, MW-53B, MW-53C, MW-54B, MW-54C, MW-55B, MW-55C, MW-56B, MW-56C, MW-57B, MW-57C, MW-58B, MW-58C, MW-59B, MW-59C, MW-60B, MW-60C, MW-61B, MW-61C, MW-62B, MW-62C, MW-63B, MW-63C, MW-64B, MW-64C, MW-65B, MW-65C, MW-66B, MW-66C, MW-67B, MW-67C, MW-68B, MW-68C, MW-69B, MW-69C, MW-70B, MW-70C, MW-71B, MW-71C, MW-72B, MW-72C, MW-73B, MW-73C, MW-74B, MW-74C, MW-75B, MW-75C, MW-76B, MW-76C, MW-77B, MW-77C, MW-78B, MW-78C, MW-79B, MW-79C, MW-80B, MW-80C, MW-81B, MW-81C, MW-82B, MW-82C, MW-83B, MW-83C, MW-84B, MW-84C, MW-85B, MW-85C, MW-86B, MW-86C, MW-87B, MW-87C, MW-88B, MW-88C, MW-89B, MW-89C, MW-90B, MW-90C, MW-91B, MW-91C, MW-92B, MW-92C, MW-93B, MW-93C, MW-94B, MW-94C, MW-95B, MW-95C, MW-96B, MW-96C, MW-97B, MW-97C, MW-98B, MW-98C, MW-99B, MW-99C, MW-100B, MW-100C
4. Abbreviations: ND = Not Detected; NS = Not Sampled; NA = Not Available; NM = Not Measured; NP = Not Present; NR = Not Reported; NC = Not Calculated; MW = Monitoring Well; SFP = Spent Fuel Pool; TB = Turbine Building; FSB = Fuel Storage Building; RCA = Radiologically Controlled Area; GZA = GZA GeoEnvironmental, Inc.; LTM = Long Term Monitoring; pCi/L = picoCuries per liter; ft = feet; msl = mean sea level; NAVD88 = North American Vertical Datum of 1988; NGVD29 = National Geodetic Vertical Datum of 1929; Q1 = 1st Quarter; Q2 = 2nd Quarter; Q3 = 3rd Quarter; Q4 = 4th Quarter; 1Q09 = 1st Quarter 2009; 2Q09 = 2nd Quarter 2009; 3Q09 = 3rd Quarter 2009; 4Q09 = 4th Quarter 2009; 1Q10 = 1st Quarter 2010; 2Q10 = 2nd Quarter 2010; 3Q10 = 3rd Quarter 2010; 4Q10 = 4th Quarter 2010; 1Q11 = 1st Quarter 2011; 2Q11 = 2nd Quarter 2011; 3Q11 = 3rd Quarter 2011; 4Q11 = 4th Quarter 2011; 1Q12 = 1st Quarter 2012; 2Q12 = 2nd Quarter 2012; 3Q12 = 3rd Quarter 2012; 4Q12 = 4th Quarter

IPEC00224615

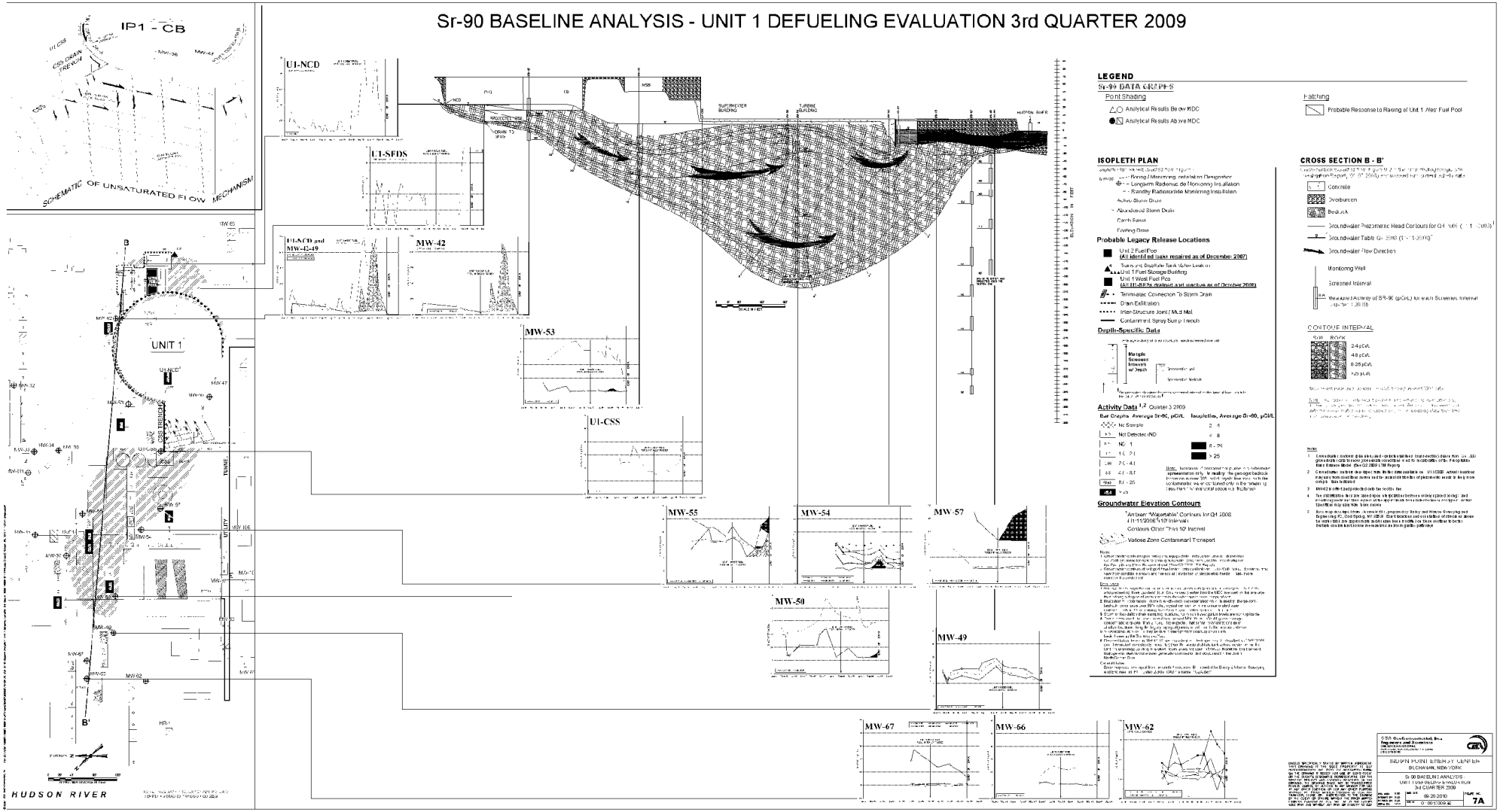
IPEC00224616

3rd QUARTER 2009 ROLLING AVERAGE[1] STRONTIUM-90 ACTIVITY MAP



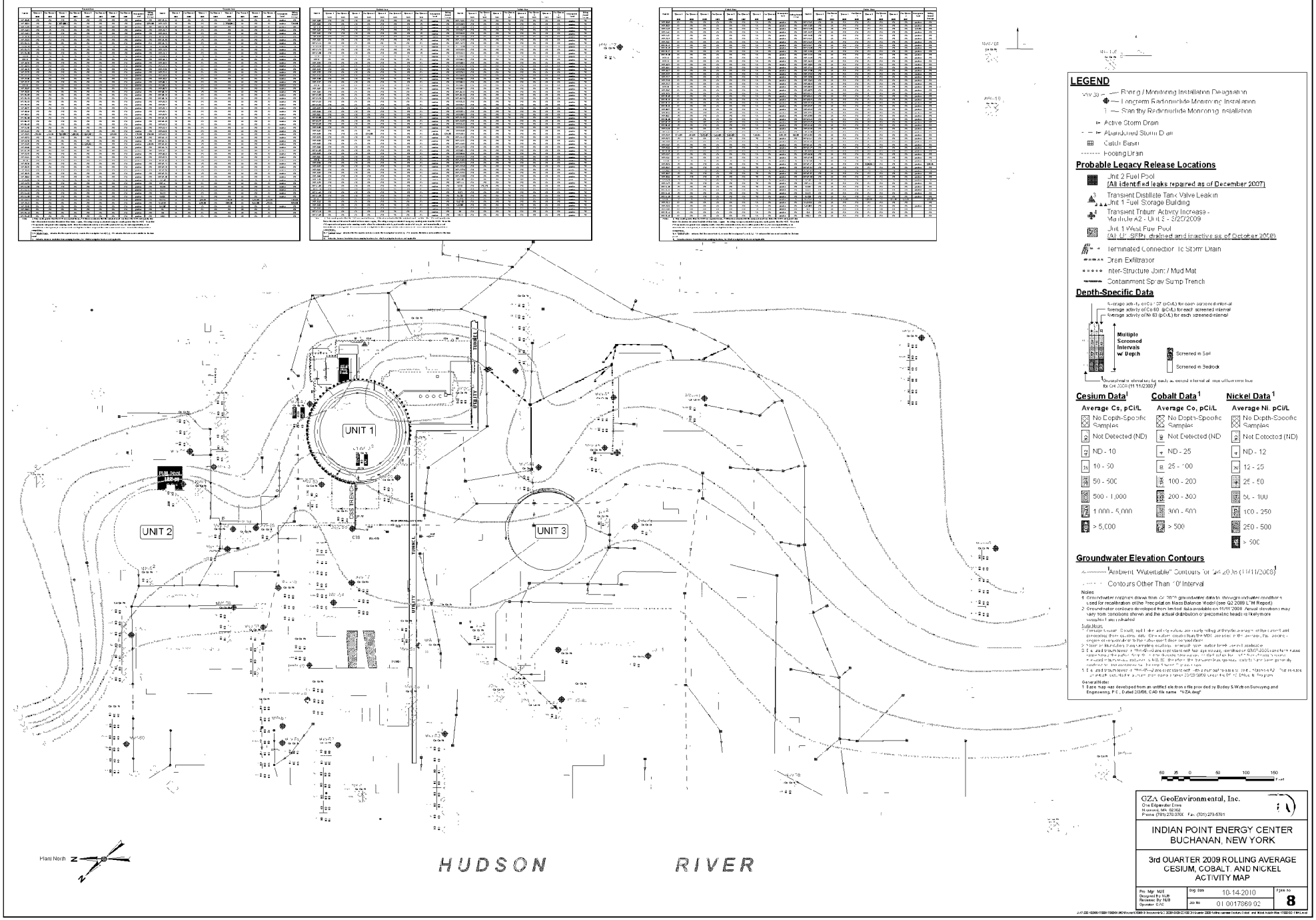
IPEC00224617

Sr-90 BASELINE ANALYSIS - UNIT 1 DEFUELING EVALUATION 3rd QUARTER 2009



IPEC00224618

3rd QUARTER 2009 ROLLING AVERAGE[1] CESIUM, COBALT, AND NICKEL ACTIVITY MAP



APPENDIX A: LIMITATIONS

HYDROGEOLOGICAL LIMITATIONS

1. The conclusions and recommendations submitted in this report are based in part upon the radiological, chemical and physical data from water analyses. These data were obtained from specific sampling locations at specific times. The full nature and extent of variations in the data between these specific locations and times are not known. The conditions existing between these specific locations and times have only been inferred using interpolation and extrapolation based on judgment.

2. The subsurface profiles described in the text and presented in the report figures are intended to convey anticipated trends in subsurface conditions. The conditions shown are approximate and generalized and were developed, in part, based on judgment. For specific information at specific locations, refer to the individual subsurface investigation logs.

3. Water level readings (piezometric pressures) have been made in the specific borings, monitoring wells, and Waterloo installations at times and under conditions stated. These data have been reviewed and interpretations have been made in the text and on the figures of this report. However, it must be noted that temporal and spatial fluctuations in the level of the groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time and location measurements were made.

4. Where quantitative laboratory testing has been conducted by an outside laboratory, GZA has relied upon the validity of the data provided, and has not conducted an independent laboratory evaluation of the reliability of these data.

5. Radiological and chemical analyses have been performed for specific parameters during the course of this study, as summarized in the text. Additional constituents not searched for may be present in soil and groundwater at the site.

6. Variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past and current plant operational practices, the passage of time, and other factors. Should additional data (water analyses, water elevations, subsurface deposits, plant construction and operation, etc.) become available in the future, these data should be reviewed by GZA, and the conclusions and recommendations presented herein modified accordingly.

7. This monitoring report was developed by GZA GeoEnvironmental Inc for the exclusive of Entergy Nuclear Northeast (Entergy) at the Indian Point Energy Center. Any use of data or information provided in the report, by parties other than Entergy, is prohibitated without the prior written permission of Entergy and GZA.

APPENDIX B: TRANSDUCER INSTALLATION LOGS

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	I-2 n
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	41.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	80.92	DATE	8/14/09
PSI CAPACITY	30	CASING ELEVATION (FT)	82.23		
SERIAL NUMBER	16587 (I2 n)	CASING DIAMETER (INCH)	2		

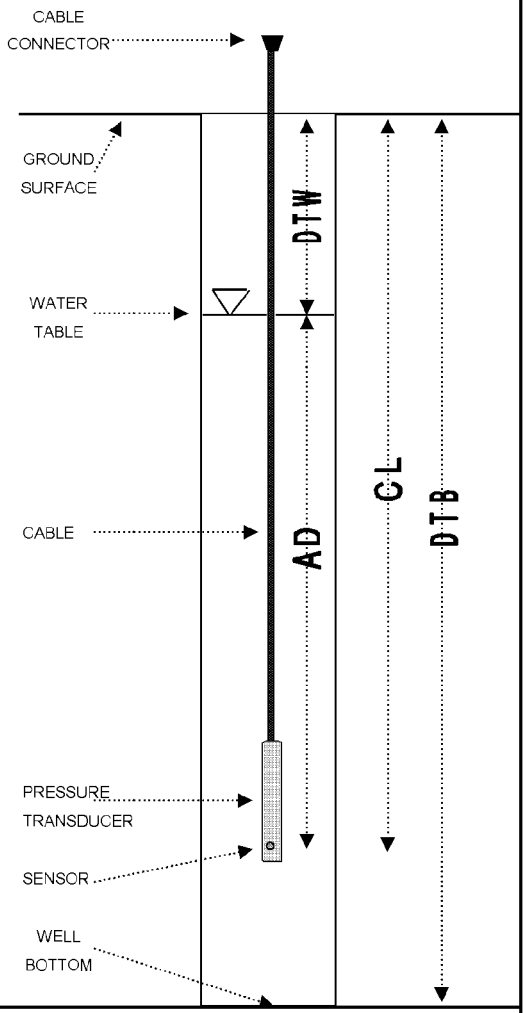
STATIC GROUNDWATER TABLE ELEVATION (FT): 52.46

GZA ENGINEER: M. Britos A. Altieri

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	41.00	FT	
GROUND ELEVATION:	80.92	FT M.S.L.	
CASING ELEVATION:	82.23	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	above		
DISTANCE FROM CASING TO GROUND (+ OR -):	1.31	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	10:38	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	29.77	FT	
ACTUAL DEPTH: +	43.274	FT	
THEORETICAL CABLE LENGTH: =	73.044	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	82.23	FT M.S.L.	
DEPTH TO WATER: −	29.77	FT	
REFERENCE ELEVATION: =	52.46	FT M.S.L.	
TEST NAME:	I-2		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	10:38	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

GZA

WELL ID : I-2

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	I-2 n
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	41.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	80.92	DATE	8/14/09
PSI CAPACITY	30	CASING ELEVATION (FT)	82.23		
SERIAL NUMBER	11998	CASING DIAMETER (INCH)	2		

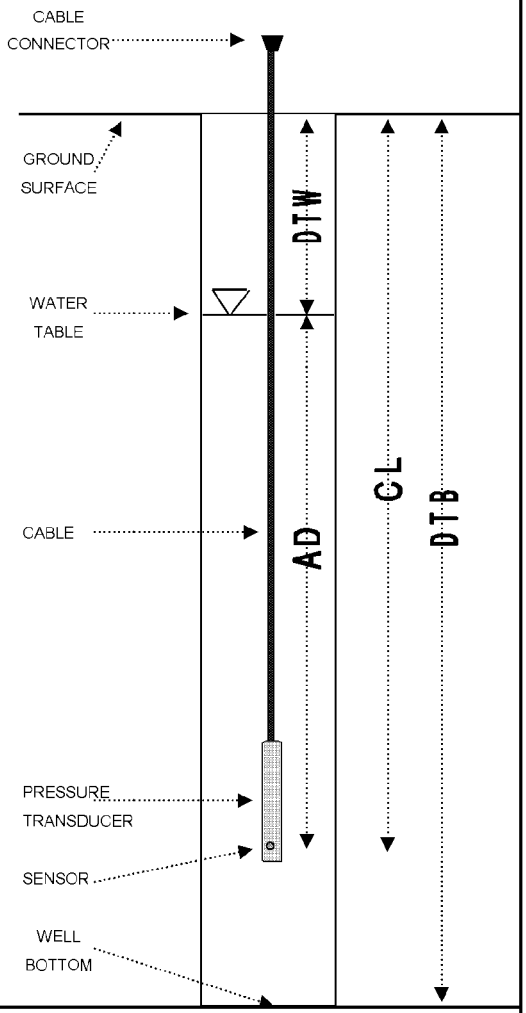
STATIC GROUNDWATER TABLE ELEVATION (FT): 52.47

GZA ENGINEER: M. Britos A. Altieri

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	41.00	FT	
GROUND ELEVATION:	80.92	FT M.S.L.	
CASING ELEVATION:	82.23	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	above		
DISTANCE FROM CASING TO GROUND (+ OR -):	1.31	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	11:04	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	29.76	FT	
ACTUAL DEPTH:	+ 8.763	FT	
THEORETICAL CABLE LENGTH:	= 38.523	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	82.23	FT M.S.L.	
DEPTH TO WATER:	− 29.76	FT	
REFERENCE ELEVATION:	= 52.47	FT M.S.L.	
TEST NAME:	I-2		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	11:04	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

GZA

WELL ID : I-2

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-33
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	30.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	18.859	DATE	8/17/09
PSI CAPACITY	30	CASING ELEVATION (FT)	18.619		
SERIAL NUMBER	5385	CASING DIAMETER (INCH)	4		

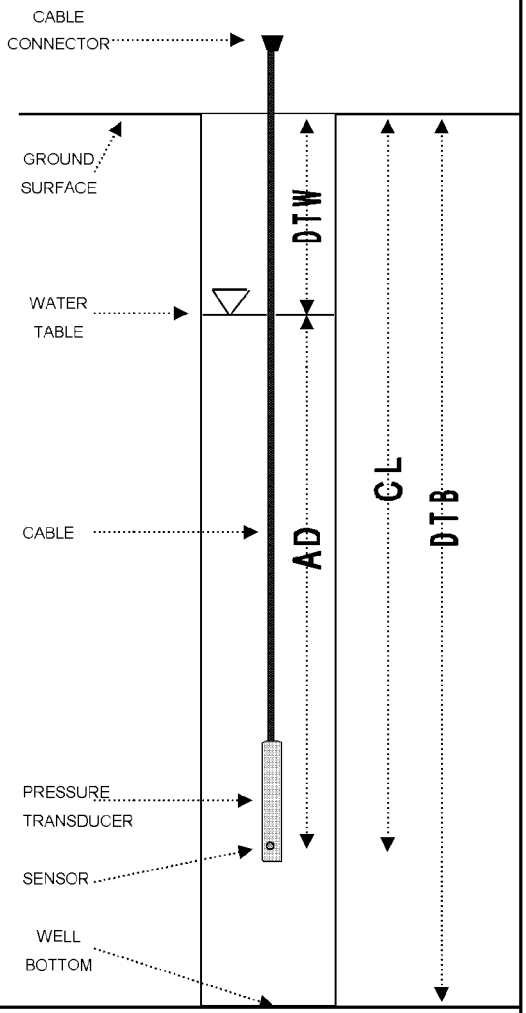
STATIC GROUNDWATER TABLE ELEVATION (FT): 10.32

GZA ENGINEER: M. Britos A. Altieri

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	30.00	FT	
GROUND ELEVATION:	18.859	FT M.S.L.	
CASING ELEVATION:	18.619	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.240	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:		HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	8.30	FT	
ACTUAL DEPTH:	+ 17.073	FT	
THEORETICAL CABLE LENGTH:	= 25.373	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	18.619	FT M.S.L.	
DEPTH TO WATER:	− 8.30	FT	
REFERENCE ELEVATION:	= 10.319	FT M.S.L.	
TEST NAME:	MW-33		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:		HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
Battery6%. Replaced battery, started new test.

GZA

WELL ID : MW-33

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-34
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	29.20	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	18.481	DATE	8/17/09
PSI CAPACITY	30	CASING ELEVATION (FT)	18.071		
SERIAL NUMBER	3894	CASING DIAMETER (INCH)	4		

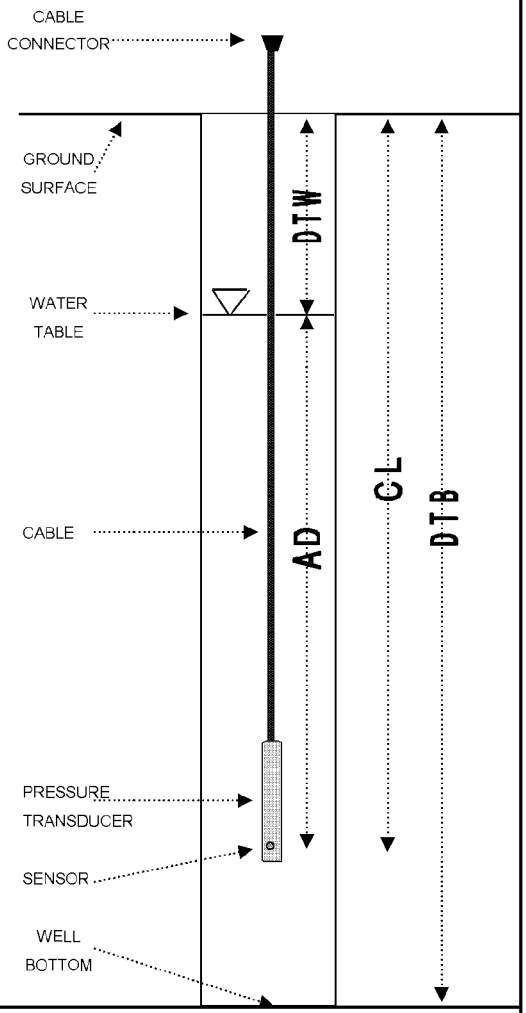
STATIC GROUNDWATER TABLE ELEVATION (FT) * 10.37

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	29.20	FT	
GROUND ELEVATION:	18.481	FT M.S.L.	
CASING ELEVATION:	18.071	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.410	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	12:31	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	7.70	* FT	
ACTUAL DEPTH:	+ 17.836	FT	
THEORETICAL CABLE LENGTH:	= 25.536	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	18.071	FT M.S.L.	
DEPTH TO WATER:	- 7.70	* FT	
REFERENCE ELEVATION:	= 10.371	FT M.S.L.	
TEST NAME:	MW-34		
LOGGING INTERVAL:	1353	MIN	
TEST START TIME:	12:31	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES: **Bat. 30%, replaced. There is a layer of oil on the surface. Unable to get a DTW level. Program new test using DTP level.**
Previous data downloaded is too far off. Do not use.

GZA

WELL ID : MW-34

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-35
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	29.80	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	18.604	DATE	8/17/09
PSI CAPACITY	30	CASING ELEVATION (FT)	18.444		
SERIAL NUMBER	195	CASING DIAMETER (INCH)	4		

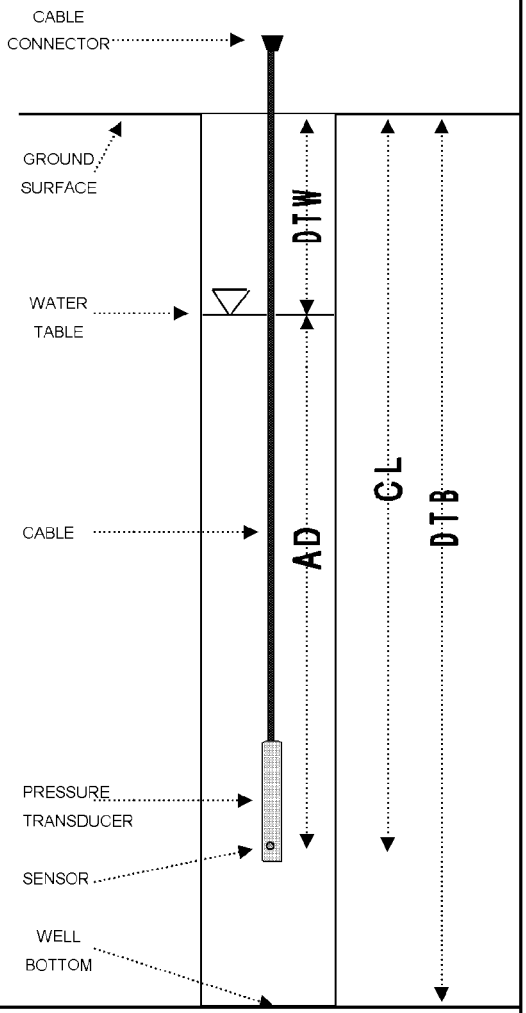
STATIC GROUNDWATER TABLE ELEVATION (FT): 10.32

GZA ENGINEER: M. Britos A. Altieri

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	29.80	FT	
GROUND ELEVATION:	18.604	FT M.S.L.	
CASING ELEVATION:	18.444	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.160	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	11:34	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	8.12	FT	
ACTUAL DEPTH:	+ 17.328	FT	
THEORETICAL CABLE LENGTH:	= 25.448	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	18.444	FT M.S.L.	
DEPTH TO WATER:	- 8.12	FT	
REFERENCE ELEVATION:	= 10.324	FT M.S.L.	
TEST NAME:	MW-35		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	11:34	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
Batt. 32%, replaced. Start new test. No test to download.
Oil in well.

GZA

WELL ID : MW-35

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-36-24
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	54.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	11.799	DATE	8/25/09
PSI CAPACITY	30	CASING ELEVATION (FT)	11.598		
SERIAL NUMBER	5376	CASING DIAMETER (INCH)	2		

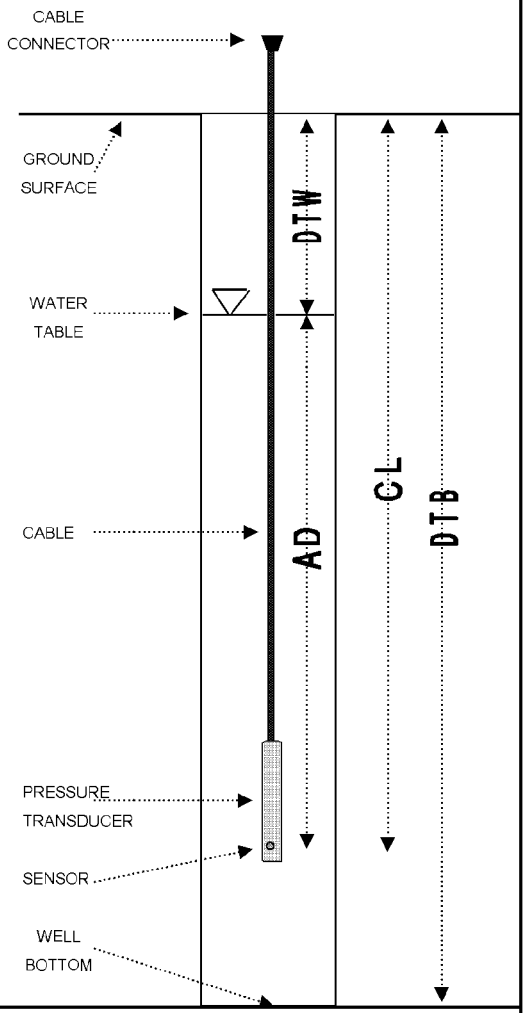
STATIC GROUNDWATER TABLE ELEVATION (FT): 7.21

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	24.00	FT	
GROUND ELEVATION:	11.799	FT M.S.L.	
CASING ELEVATION:	11.598	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.201	FT	
	--	FT	
TIME OF MEASUREMENT:	12:49	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	4.39	FT	
ACTUAL DEPTH:	+ 42.109	FT	
THEORETICAL CABLE LENGTH:	= 46.499	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	11.598	FT M.S.L.	
DEPTH TO WATER:	- 4.39	FT	
REFERENCE ELEVATION:	= 7.208	FT M.S.L.	
TEST NAME:	MW-36-24		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	12:49	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
Difference = -6.537 Reset

GZA

WELL ID : MW-36-24

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-43-62
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	63.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	48.761	DATE	8/20/09
PSI CAPACITY	30	CASING ELEVATION (FT)	47.821		
SERIAL NUMBER	16236	CASING DIAMETER (INCH)	2		

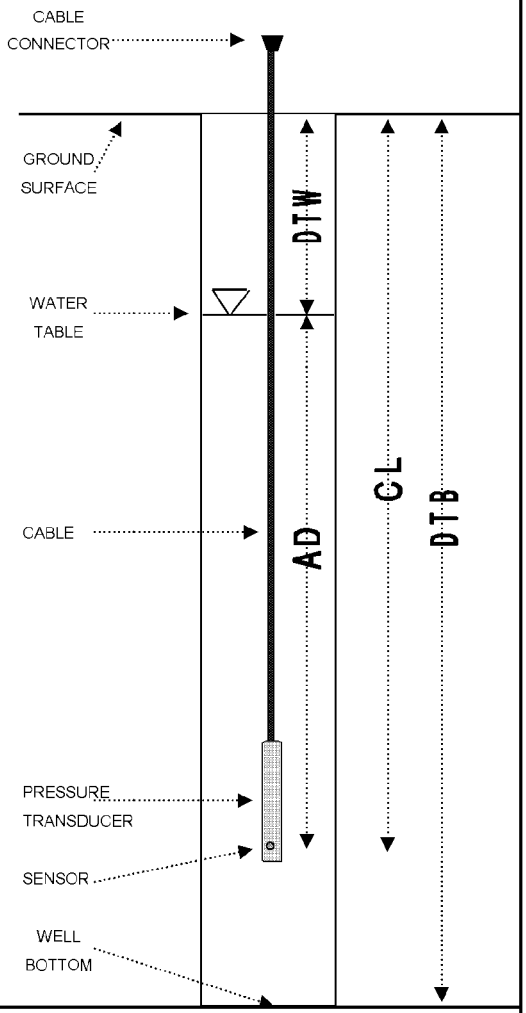
STATIC GROUNDWATER TABLE ELEVATION (FT): 30.70

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	63.00	FT	
GROUND ELEVATION:	48.761	FT M.S.L.	
CASING ELEVATION:	47.821	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.940	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	13:46	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	17.12	FT	
ACTUAL DEPTH:	+ 35.753	FT	
THEORETICAL CABLE LENGTH:	= 52.873	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	47.821	FT M.S.L.	
DEPTH TO WATER:	− 17.12	FT	
REFERENCE ELEVATION:	= 30.701	FT M.S.L.	
TEST NAME:	MW-43-62		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	13:46	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
Difference = 0.519
reset transducer depth also.

GZA

WELL ID : MW-43-62

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-45-42
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	65.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	53.66	DATE	8/20/09
PSI CAPACITY	30	CASING ELEVATION (FT)	53.20		
SERIAL NUMBER	6082	CASING DIAMETER (INCH)	2		

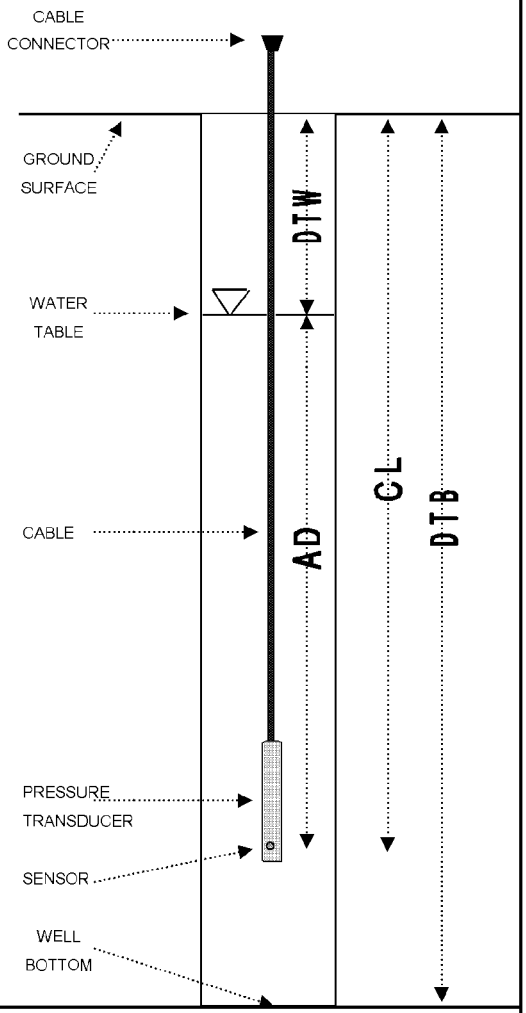
STATIC GROUNDWATER TABLE ELEVATION (FT): 28.66

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	42.00	FT	
GROUND ELEVATION:	53.66	FT M.S.L.	
CASING ELEVATION:	53.20	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.46	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	15:03	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	24.54	FT	
ACTUAL DEPTH:	+ 16.505	FT	
THEORETICAL CABLE LENGTH:	= 41.045	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	53.20	FT M.S.L.	
DEPTH TO WATER:	− 24.54	FT	
REFERENCE ELEVATION:	= 28.66	FT M.S.L.	
TEST NAME:	MW-45-42		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	15:03	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
No test to download. Reset with same readings. Start new test.

GZA

WELL ID : MW-45-42

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-45-61
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	67.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	53.662	DATE	8/20/09
PSI CAPACITY	30	CASING ELEVATION (FT)	53.217		
SERIAL NUMBER	16930	CASING DIAMETER (INCH)	1		

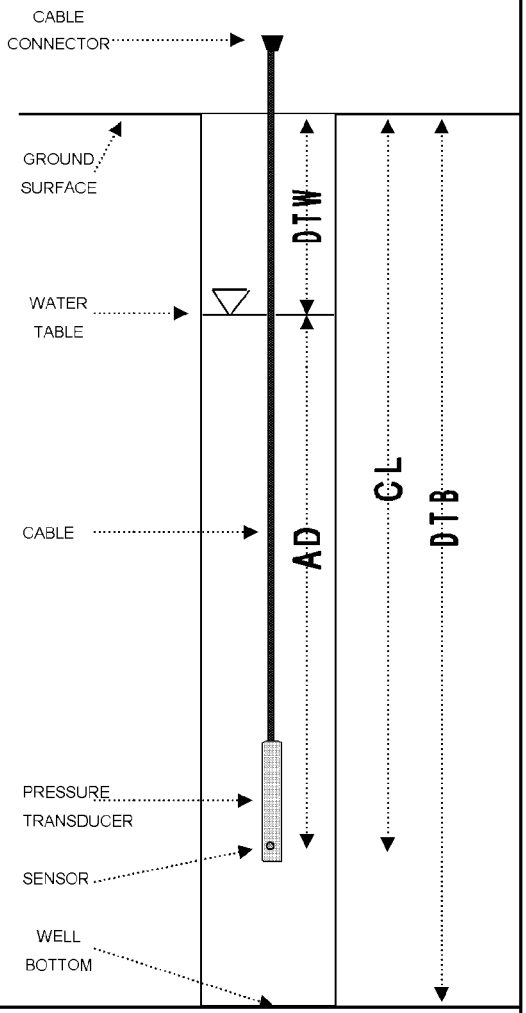
STATIC GROUNDWATER TABLE ELEVATION (FT): 27.82

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	61.00	FT	
GROUND ELEVATION:	53.662	FT M.S.L.	
CASING ELEVATION:	53.217	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.45	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	14:45	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	25.400	FT	
ACTUAL DEPTH:	+ 40.714	FT	
THEORETICAL CABLE LENGTH:	= 66.114	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	53.217	FT M.S.L.	
DEPTH TO WATER:	− 25.40	FT	
REFERENCE ELEVATION:	= 27.817	FT M.S.L.	
TEST NAME:	MW-45-61		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	14:45	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
no test to download.
Difference = 5.007
Reset, start new test

GZA

WELL ID : MW-45-61

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-50-42
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	67.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.92	DATE	8/7/09
PSI CAPACITY	30	CASING ELEVATION (FT)	14.45		
SERIAL NUMBER	9904	CASING DIAMETER (INCH)	2		

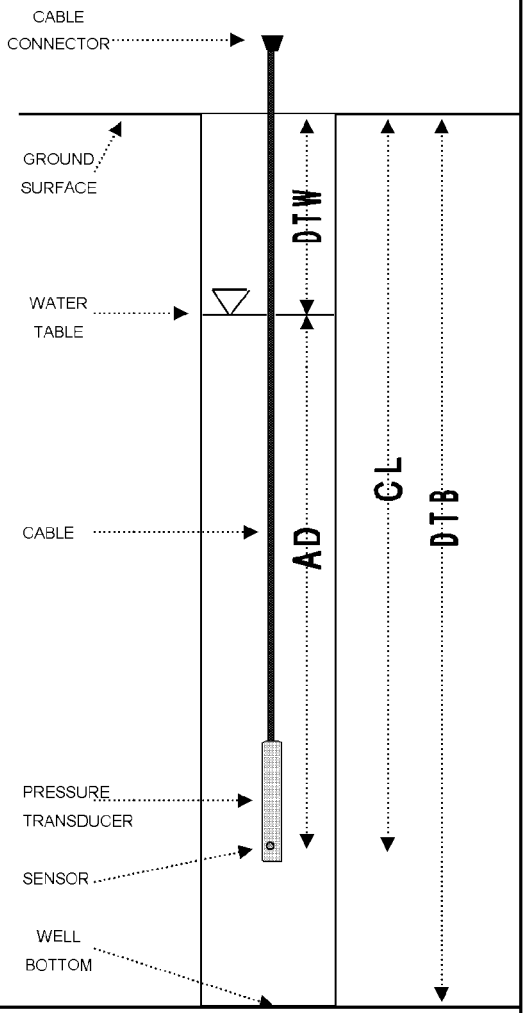
STATIC GROUNDWATER TABLE ELEVATION (FT): 6.65

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	42.00	FT	
GROUND ELEVATION:	14.92	FT M.S.L.	
CASING ELEVATION:	14.45	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.47	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	11:24	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	7.80	FT	
ACTUAL DEPTH: +	33.178	FT	
THEORETICAL CABLE LENGTH: =	40.978	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.45	FT M.S.L.	
DEPTH TO WATER: −	7.80	FT	
REFERENCE ELEVATION: =	6.65	FT M.S.L.	
TEST NAME:	MW-50-42		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	11:24	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
Abend. Pulled out and replaced batteries. Start new test.

GZA

WELL ID : MW-50-42

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-52-11
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	12.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	16.77	DATE	8/18/09
PSI CAPACITY	30	CASING ELEVATION (FT)	16.28		
SERIAL NUMBER	14150	CASING DIAMETER (INCH)	2		

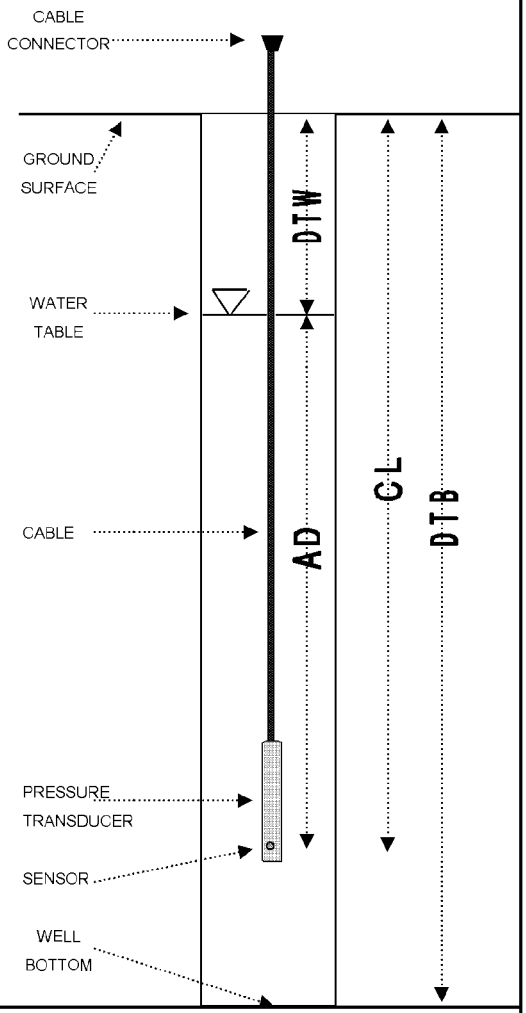
STATIC GROUNDWATER TABLE ELEVATION (FT): 8.27

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	11.00	FT	
GROUND ELEVATION:	16.77	FT M.S.L.	
CASING ELEVATION:	16.28	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.49	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	15:19	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	8.01	FT	
ACTUAL DEPTH:	+ -14.21	FT	
THEORETICAL CABLE LENGTH:	= -6.20	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	* 16.28	FT M.S.L.	
DEPTH TO WATER:	− 8.01	FT	
REFERENCE ELEVATION:	= 8.27	FT M.S.L.	
TEST NAME:	MW-52-11		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	15:19	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
Difference 1.098'. Reset.

GZA

WELL ID : MW-52-11

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-55-35
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	77.50	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	18.25	DATE	8/5/09
PSI CAPACITY	30	CASING ELEVATION (FT)	17.77		
SERIAL NUMBER	3414	CASING DIAMETER (INCH)	1		

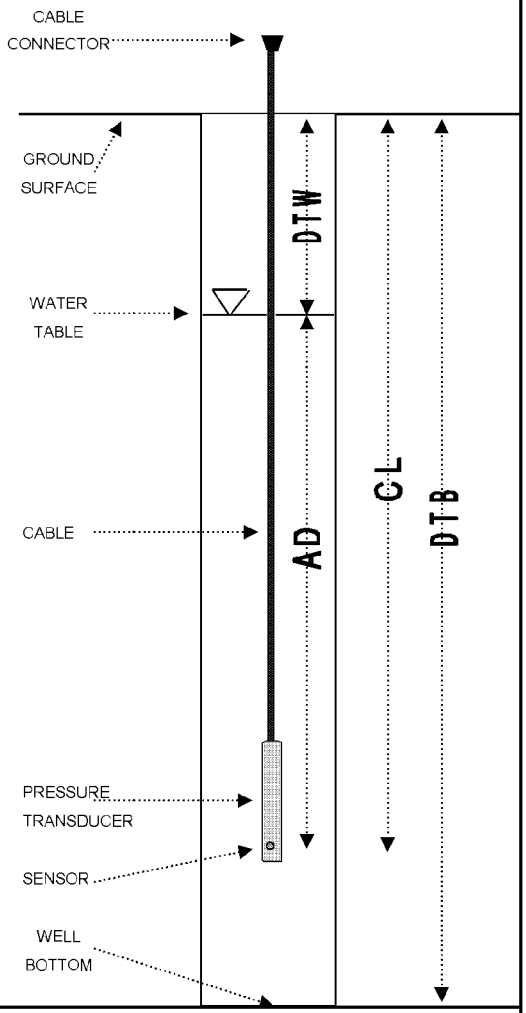
STATIC GROUNDWATER TABLE ELEVATION (FT): 8.37

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	35.00	FT	
GROUND ELEVATION:	18.25	FT M.S.L.	
CASING ELEVATION:	17.77	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.48	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	10:14	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	9.40	FT	
ACTUAL DEPTH:	+ 24.27	FT	
THEORETICAL CABLE LENGTH:	= 33.67	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	17.77	FT M.S.L.	
DEPTH TO WATER:	- 9.40	FT	
REFERENCE ELEVATION:	= 8.37	FT M.S.L.	
TEST NAME:	MW-55-35		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	10:14	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
Abend. Pulled out and replaced batteries. Start new test.

GZA

WELL ID : MW-55-35

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-55-35
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	77.50	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	18.25	DATE	8/17/09
PSI CAPACITY	30	CASING ELEVATION (FT)	17.77		
SERIAL NUMBER	3414	CASING DIAMETER (INCH)	1		

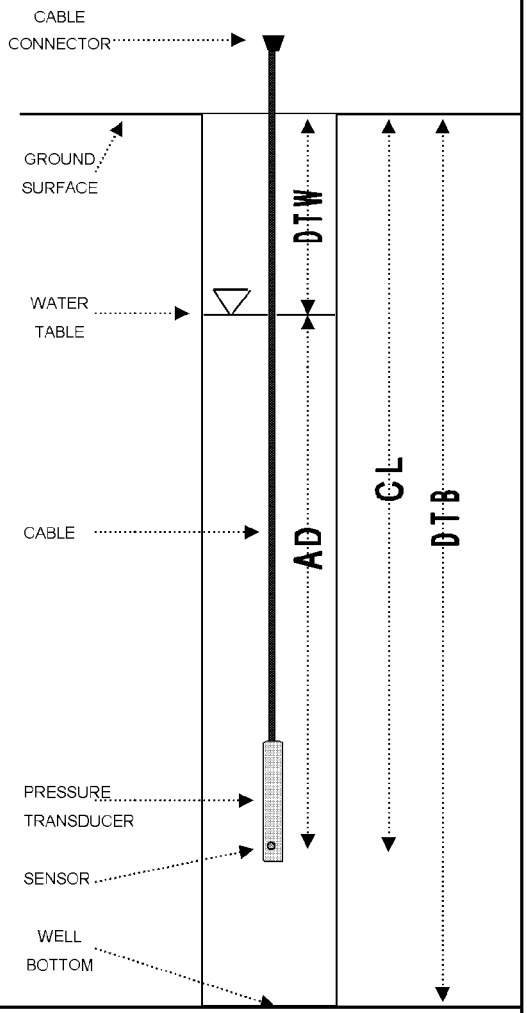
STATIC GROUNDWATER TABLE ELEVATION (FT): 7.53

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	35.00	FT	
GROUND ELEVATION:	18.25	FT M.S.L.	
CASING ELEVATION:	17.77	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.48	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	13:15	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	10.24	FT	
ACTUAL DEPTH:	+ 23.46	FT	
THEORETICAL CABLE LENGTH:	= 33.70	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	17.77	FT M.S.L.	
DEPTH TO WATER:	− 10.24	FT	
REFERENCE ELEVATION:	= 7.53	FT M.S.L.	
TEST NAME:	MW-55-35		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	13:15	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
1.977' off. Reset.

GZA

WELL ID : MW-55-35

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-56-53
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	88.50	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	70.26	DATE	8/25/09
PSI CAPACITY	30	CASING ELEVATION (FT)	69.32		
SERIAL NUMBER	16499	CASING DIAMETER (INCH)	2		

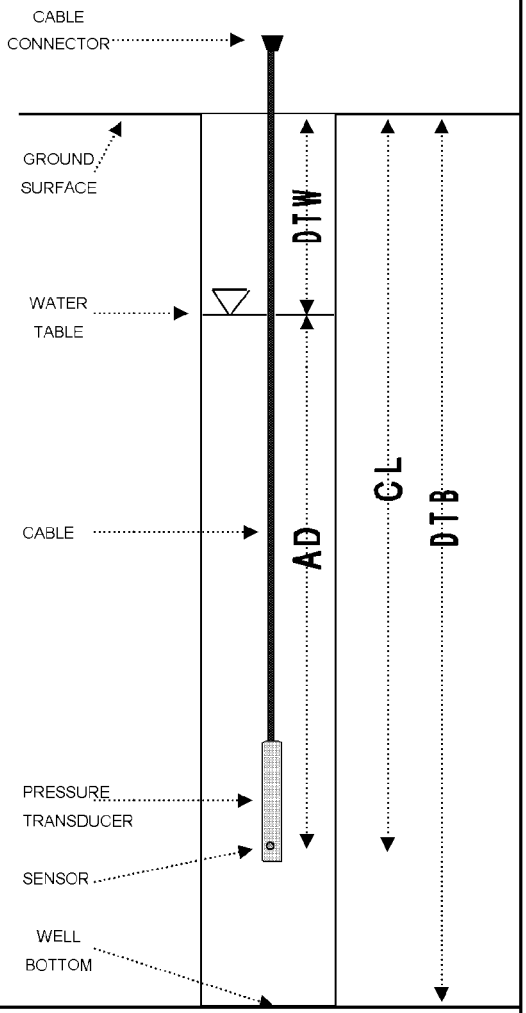
STATIC GROUNDWATER TABLE ELEVATION (FT): 22.79

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	53.00	FT	
GROUND ELEVATION:	70.26	FT M.S.L.	
CASING ELEVATION:	69.32	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.94	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	14:19	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	46.53	FT	
ACTUAL DEPTH:	+ 43.469	FT	
THEORETICAL CABLE LENGTH:	= 89.999	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	69.32	FT M.S.L.	
DEPTH TO WATER:	− 46.53	FT	
REFERENCE ELEVATION:	= 22.79	FT M.S.L.	
TEST NAME:	MW-56-53		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	14:19	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
Difference = 0.465. Reset.

GZA

WELL ID : MW-56-53

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-57-11
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	46.50	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.98	DATE	8/18/09
PSI CAPACITY	30	CASING ELEVATION (FT)	14.73		
SERIAL NUMBER	16389	CASING DIAMETER (INCH)	1		

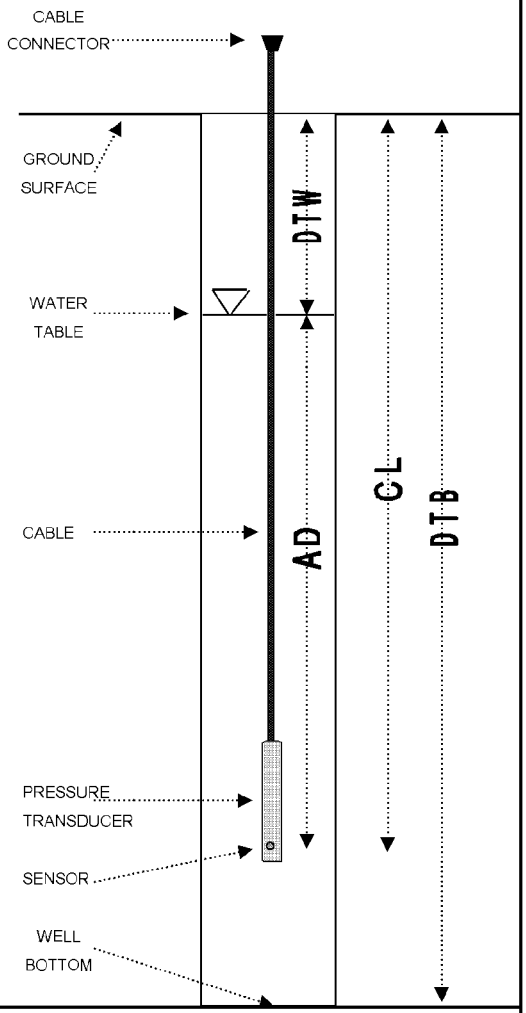
STATIC GROUNDWATER TABLE ELEVATION (FT): 9.34

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	11.00	FT	
GROUND ELEVATION:	14.98	FT M.S.L.	
CASING ELEVATION:	14.73	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.25	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	14:25	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	5.39	FT	
ACTUAL DEPTH:	+ 39.555	FT	
THEORETICAL CABLE LENGTH:	= 44.945	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.73	FT M.S.L.	
DEPTH TO WATER:	− 5.39	FT	
REFERENCE ELEVATION:	= 9.34	FT M.S.L.	
TEST NAME:	MW-57-11n		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	14:26	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
Difference >0.3'. Reset. New test started.

GZA

WELL ID : MW-57-11

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-57-45
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	46.50	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.98	DATE	8/18/09
PSI CAPACITY	30	CASING ELEVATION (FT)	14.81		
SERIAL NUMBER	16642	CASING DIAMETER (INCH)	1		

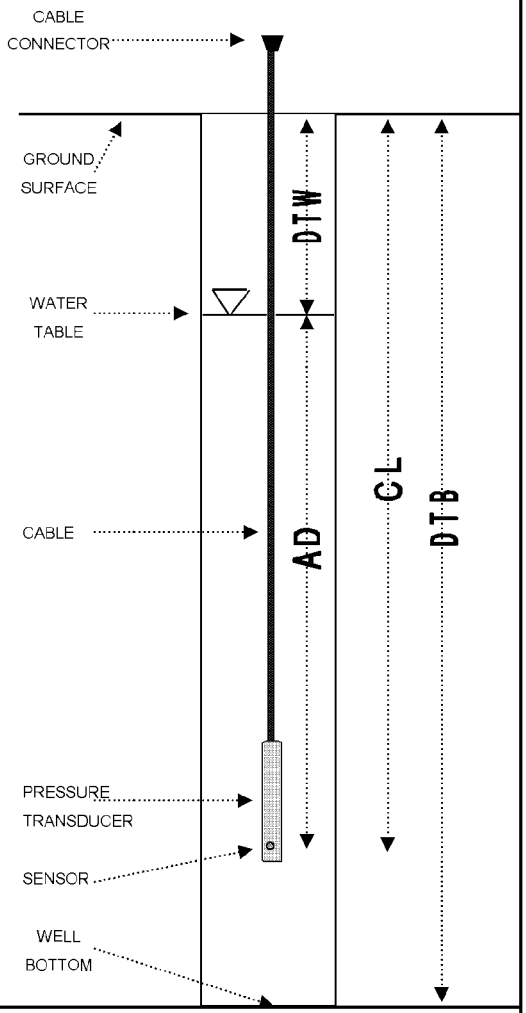
STATIC GROUNDWATER TABLE ELEVATION (FT): 8.91

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	45.00	FT	
GROUND ELEVATION:	14.98	FT M.S.L.	
CASING ELEVATION:	14.81	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.17	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	14:33	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	5.90	FT	
ACTUAL DEPTH:	+ 72.294	FT	
THEORETICAL CABLE LENGTH:	= 78.194	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.81	FT M.S.L.	
DEPTH TO WATER:	− 5.90	FT	
REFERENCE ELEVATION:	= 8.91	FT M.S.L.	
TEST NAME:	MW-57-45n		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	14:33	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

GZA

WELL ID : MW-57-45

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-58-65
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	72.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.57	DATE	
PSI CAPACITY	30	CASING ELEVATION (FT)	14.25		
SERIAL NUMBER		CASING DIAMETER (INCH)	1		

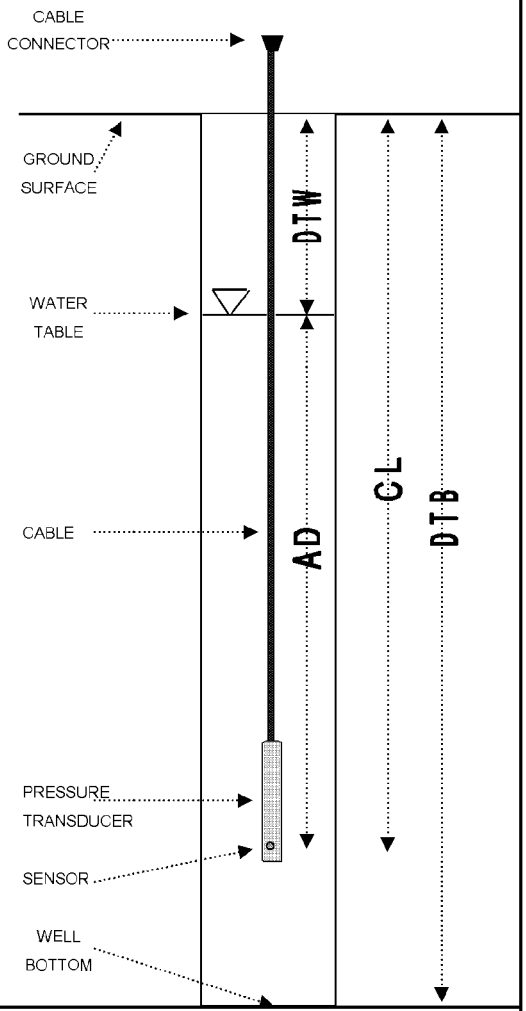
STATIC GROUNDWATER TABLE ELEVATION (FT): 14.25

GZA ENGINEER: M. Britos A. Altieri

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:		65.00	FT
GROUND ELEVATION:		14.57	FT M.S.L.
CASING ELEVATION:		14.25	FT M.S.L.
CASING ABOVE (+) OR BELOW (-) GROUND:		below	
DISTANCE FROM CASING TO GROUND (+ OR -):		-0.32	FT
MEASURED CABLE LENGTH:		--	FT
TIME OF MEASUREMENT:			HRS
MEASUREMENT TAKEN FROM:		TOC	
DEPTH TO WATER:			FT
ACTUAL DEPTH:	+		FT
THEORETICAL CABLE LENGTH:	=	0.000	FT
HAVE CLOCKS BEEN SYNCHRONIZED?		☑	check
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?		☑	check
ELEVATION OF MEASURING POINT:		14.25	FT M.S.L.
DEPTH TO WATER:	−	0.00	FT
REFERENCE ELEVATION:	=	14.25	FT M.S.L.
TEST NAME:		MW-58-65	
LOGGING INTERVAL:		20	MIN
TEST START TIME:			HRS



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

GZA

WELL ID : MW-58-65

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-59-32
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	77.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.52	DATE	8/19/09
PSI CAPACITY	30	CASING ELEVATION (FT)	14.41		
SERIAL NUMBER	16489	CASING DIAMETER (INCH)	1		

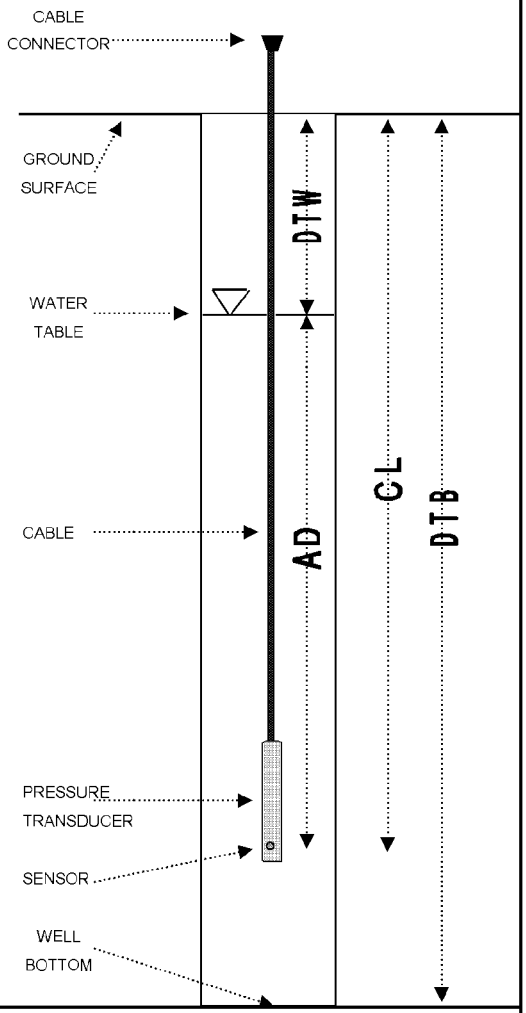
STATIC GROUNDWATER TABLE ELEVATION (FT): 2.10

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	32.00	FT	
GROUND ELEVATION:	14.52	FT M.S.L.	
CASING ELEVATION:	14.41	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.11	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	9:50	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	12.31	FT	
ACTUAL DEPTH: +	47.38	FT	
THEORETICAL CABLE LENGTH: =	59.69	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.41	FT M.S.L.	
DEPTH TO WATER: −	12.31	FT	
REFERENCE ELEVATION: =	2.10	FT M.S.L.	
TEST NAME:	MW-59-32n		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	9:50	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
difference >0.3'. Reset.

GZA

WELL ID : MW-59-32

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-59-45
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	77.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.52	DATE	8/19/09
PSI CAPACITY	30	CASING ELEVATION (FT)	13.90		
SERIAL NUMBER	16437	CASING DIAMETER (INCH)	1		

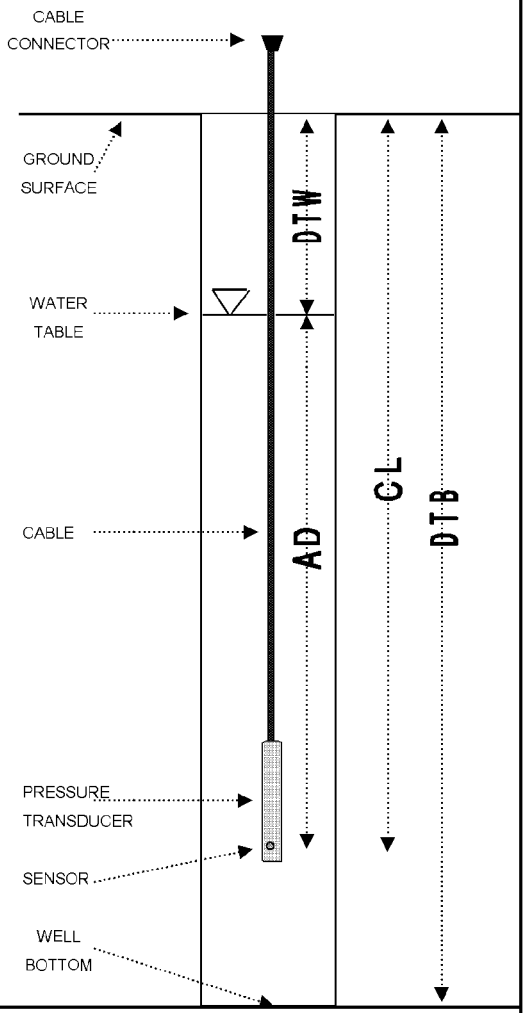
STATIC GROUNDWATER TABLE ELEVATION (FT): 4.30

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	45.00	FT	
GROUND ELEVATION:	14.52	FT M.S.L.	
CASING ELEVATION:	13.90	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.62	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	10:55	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	9.60	FT	
ACTUAL DEPTH:	+ 65.49	FT	
THEORETICAL CABLE LENGTH:	= 75.09	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	13.90	FT M.S.L.	
DEPTH TO WATER:	− 9.60	FT	
REFERENCE ELEVATION:	= 4.30	FT M.S.L.	
TEST NAME:	MW-59-45n		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	10:55	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
New installation. Previous transducer had water in it. Replaced both transducer and cable. Non-vented now.

GZA

WELL ID : MW-59-45

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW59-68
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	77.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.52	DATE	8/19/09
PSI CAPACITY	30	CASING ELEVATION (FT)	14.23		
SERIAL NUMBER	14361	CASING DIAMETER (INCH)	1		

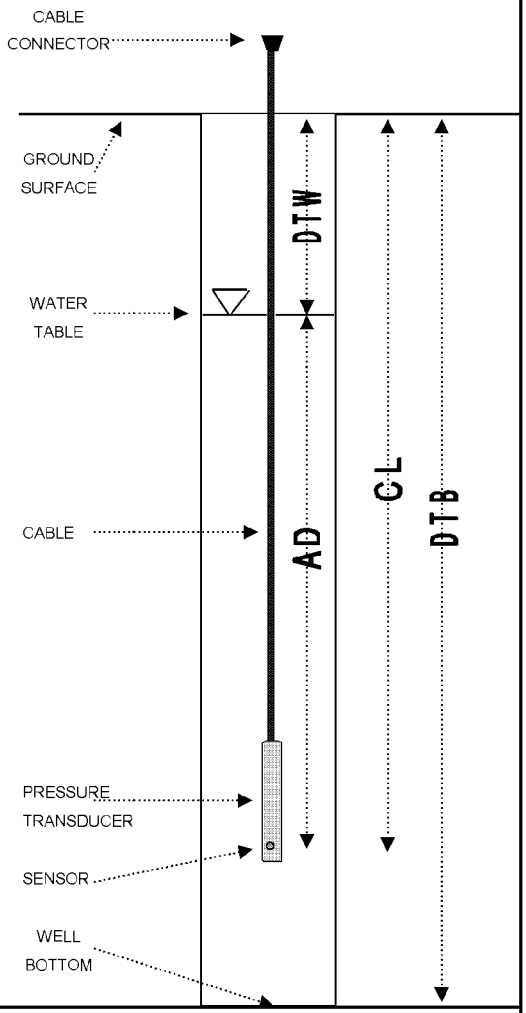
STATIC GROUNDWATER TABLE ELEVATION (FT): 5.12

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	68.30	FT	
GROUND ELEVATION:	14.52	FT M.S.L.	
CASING ELEVATION:	14.23	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	-		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.29	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	10:10	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	9.11	FT	
ACTUAL DEPTH: +	60.23	FT	
THEORETICAL CABLE LENGTH: =	69.34	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.23	FT M.S.L.	
DEPTH TO WATER: −	9.11	FT	
REFERENCE ELEVATION: =	5.12	FT M.S.L.	
TEST NAME:	MW59-68n		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	10:10	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
Difference 6.52. Tranducer reading -1.470. Reset.

GZA

WELL ID : MW59-68

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-108
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	11.90	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.48	DATE	8/17/09
PSI CAPACITY	30	CASING ELEVATION (FT)	14.23		
SERIAL NUMBER	20738	CASING DIAMETER (INCH)	4		

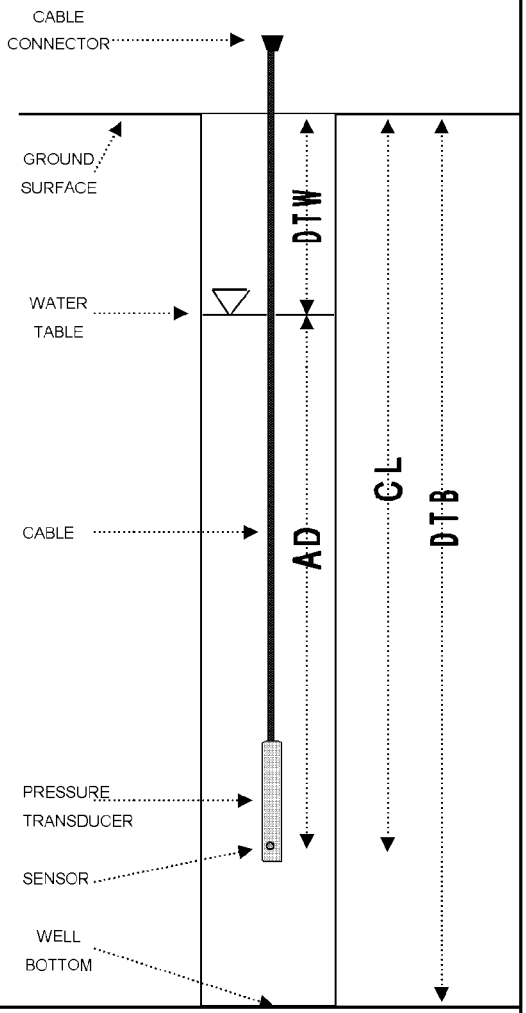
STATIC GROUNDWATER TABLE ELEVATION (FT): 9.34

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	11.60	FT	
GROUND ELEVATION:	14.48	FT M.S.L.	
CASING ELEVATION:	14.23	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.25	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	10:13	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	4.89	FT	
ACTUAL DEPTH:	+ 9.34	FT	
THEORETICAL CABLE LENGTH:	= 14.23	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.23	FT M.S.L.	
DEPTH TO WATER:	− 4.89	FT	
REFERENCE ELEVATION:	= 9.34	FT M.S.L.	
TEST NAME:	MW-108		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	10:13	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
Battery 30%. Replaced and started new test.

GZA

WELL ID : MW-108

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-109
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	11.80	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.554	DATE	8/17/09
PSI CAPACITY	30	CASING ELEVATION (FT)	14.254		
SERIAL NUMBER	15214	CASING DIAMETER (INCH)	2		

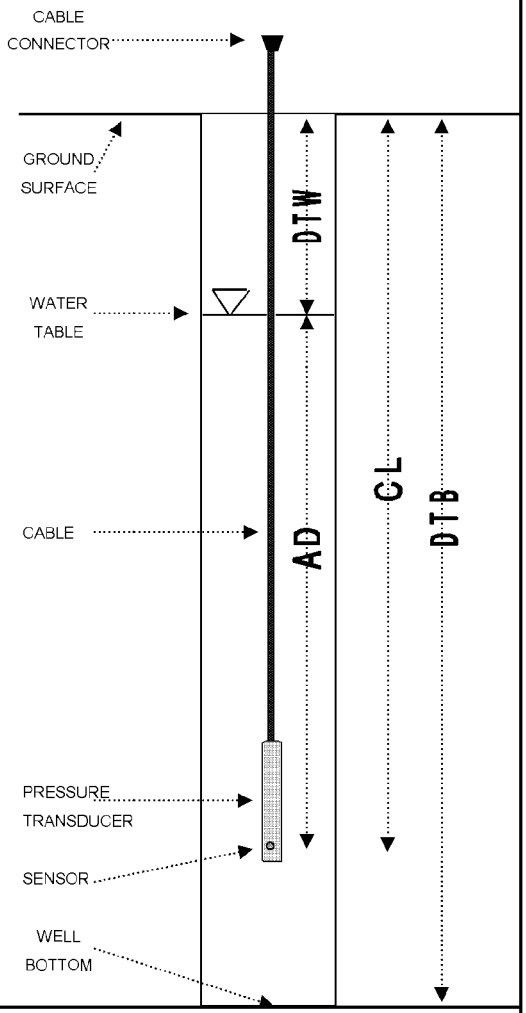
STATIC GROUNDWATER TABLE ELEVATION (FT): 7.77

GZA ENGINEER: M. Britos A. Altieri

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	11.80	FT	
GROUND ELEVATION:	14.554	FT M.S.L.	
CASING ELEVATION:	14.254	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.300	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	9:23	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	6.48	FT	
ACTUAL DEPTH:	+ 15.54	FT	
THEORETICAL CABLE LENGTH:	= 22.02	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.254	FT M.S.L.	
DEPTH TO WATER:	− 6.48	FT	
REFERENCE ELEVATION:	= 7.774	FT M.S.L.	
TEST NAME:	MW-109		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	9:23	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

> 3 ' data difference. Reset.

GZA

WELL ID : MW-109

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-111
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	17.70	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	18.93	DATE	8/17/09
PSI CAPACITY	30	CASING ELEVATION (FT)	18.38		
SERIAL NUMBER	6767	CASING DIAMETER (INCH)	2		

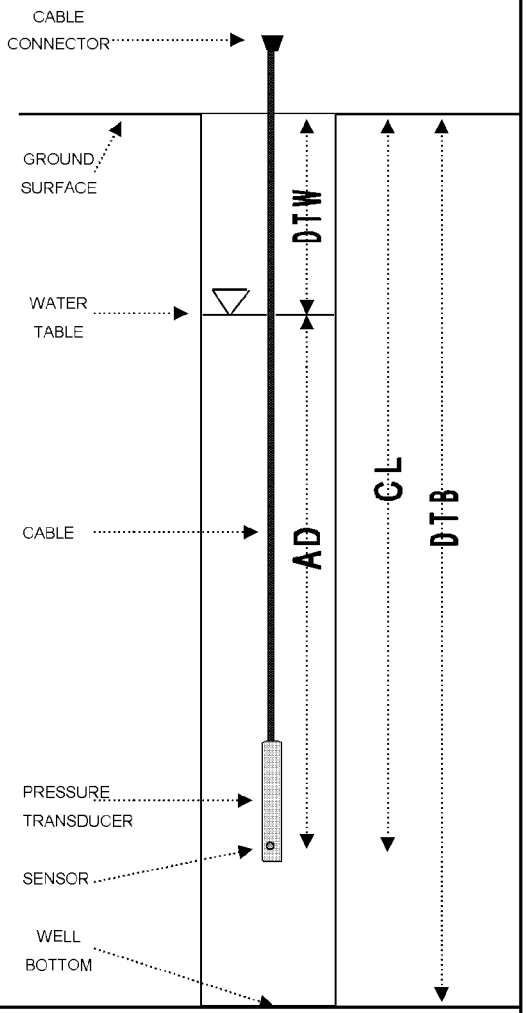
STATIC GROUNDWATER TABLE ELEVATION (FT): 9.60

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	17.70	FT	
GROUND ELEVATION:	18.93	FT M.S.L.	
CASING ELEVATION:	18.38	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.55	FT	
	--	FT	
TIME OF MEASUREMENT:	14:14	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	8.78	FT	
ACTUAL DEPTH:	+ 6.88	FT	
THEORETICAL CABLE LENGTH:	= 15.66	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	18.38	FT M.S.L.	
DEPTH TO WATER:	− 8.78	FT	
REFERENCE ELEVATION:	= 9.600	FT M.S.L.	
TEST NAME:	MW-111		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	14:14	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
Abend. Pulled out and replaced batteries. Start new test.

GZA

WELL ID : MW-111

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	OUT-1
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	--	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	8.20	DATE	8/26/09
PSI CAPACITY	30	CASING ELEVATION (FT)	11.89		
SERIAL NUMBER	16044	CASING DIAMETER (INCH)	2		

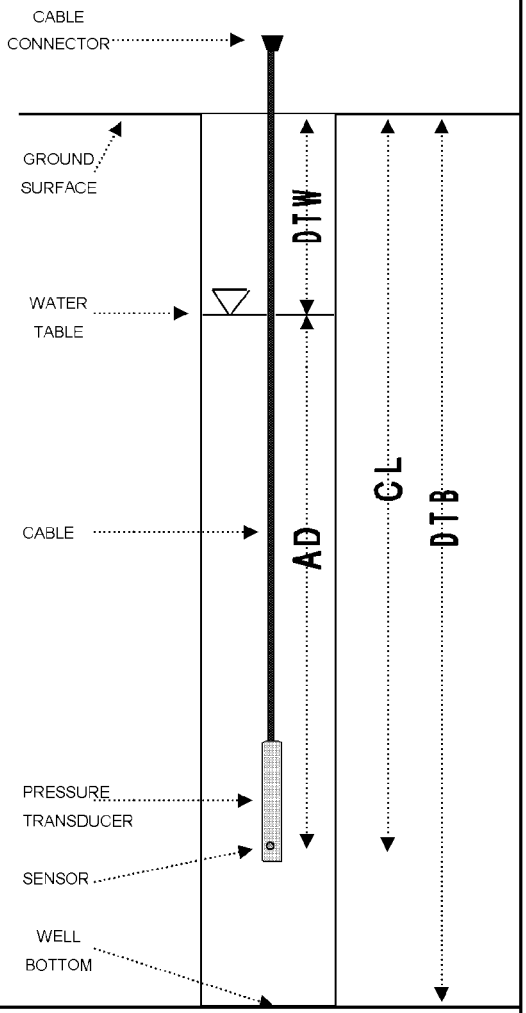
STATIC GROUNDWATER TABLE ELEVATION (FT): 2.61

GZA ENGINEER: M. Britos A. Altieri

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	--	FT	
GROUND ELEVATION:	8.20	FT M.S.L.	
CASING ELEVATION:	11.89	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	above		
DISTANCE FROM CASING TO GROUND (+ OR -):	3.69	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	7:57	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	9.28	FT	
ACTUAL DEPTH:	+ 44.229	FT	
THEORETICAL CABLE LENGTH:	= 53.509	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	11.891	FT M.S.L.	
DEPTH TO WATER:	- 9.280	FT	
REFERENCE ELEVATION:	= 2.611	FT M.S.L.	
TEST NAME:	OUT-1		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	7:59	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES: Difference = -0.315. Reset.

GZA

WELL ID : OUT-1

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	U3-C1
		SHEET	1 of 1
		FILE NO.	01.0017869.91
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	NA	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	15.003	DATE	8/14/09
PSI CAPACITY	30	CASING ELEVATION (FT)	18.060		
SERIAL NUMBER	11949	CASING DIAMETER (INCH)	2		

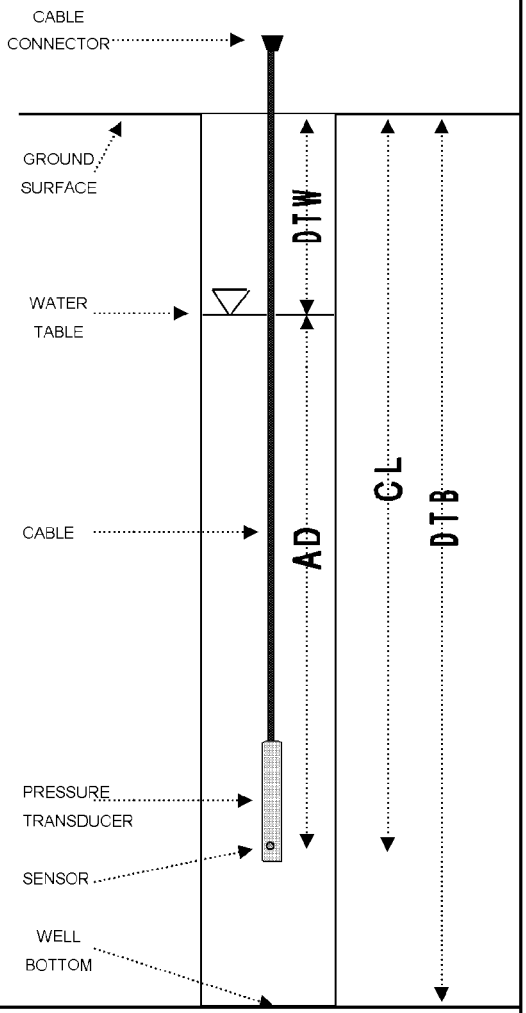
STATIC GROUNDWATER TABLE ELEVATION (FT): 2.36

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	NA	FT	
GROUND ELEVATION:	15.003	FT M.S.L.	
CASING ELEVATION:	18.060	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	above		
DISTANCE FROM CASING TO GROUND (+ OR -):	3.057	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	12:11	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	15.70	FT	
ACTUAL DEPTH:	+ 5.819	FT	
THEORETICAL CABLE LENGTH:	= 21.519	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	18.060	FT M.S.L.	
DEPTH TO WATER:	− 15.70	FT	
REFERENCE ELEVATION:	= 2.360	FT M.S.L.	
TEST NAME:	U3-C1-2		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	12:12	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:
New installation. Second transducer in well.

GZA

WELL ID : U3-C1

APPENDIX C: CHAINS OF CUSTODY

Page: 1 of 1
Project # Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Britos Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Comments
MW-32-59 (013)	09/15/09	1433	N	N	GW	Y	N	1	1	1	1	1 Liter Poly
MW-32-85 (016)	09/15/09	1506	N	N	GW	Y	N	1	1	1	1	1 Liter Poly
MW-32-149 (014)	09/15/09	1239										
MW-32-173 (012)	09/15/09	1211										
MW-32-190 (015)	09/15/09	1213										

Note: only 1 sample is required for sample-specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone:
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	09/15/09	1700	SECURED IN STORAGE	09/15/09	1700
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Only
Custody Seals Intact?
YES
Cooler Temp:

1) Chain of Custody Number - Client Determined

2) QC Codes: N - Normal Sample, TB - Trip Blank, FD - Field Duplicate, EB - Equipment Blank, MS - Matrix Spike Sample, MSD - Matrix Spike Duplicate Sample, G - Grab, C - Composite

3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.

4) Matrix Codes: DW-Drinking Water, GW-Groundwater, SW-Surface Water, WW-Waste Water, W-Water, ML - Misc Liquid, SO-Soil, SD-Sediment, SL-Sludge, SS-Solid Waste, O-Oil, P-Filter, P-Wipe, U-Urine, F-Fecal, N-Nasal

5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A - 1)

6) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH - Sodium Hydroxide, SA - Sulfuric Acid, AA - Ascorbic Acid, HX - Hexane, ST - Sodium Thiosulfate. If no preservative is added - leave field blank

WHITE - LABORATORY YELLOW - FILE PINK - CLIENT

IPEC00224648

OZARK UNDERGROUND LABORATORY, INC.

1572 Aley Lane Protem, MO 65733 (417) 785-4289 fax (417) 785-4290 email: oul@tri-lakes.net

SAMPLE COLLECTION DATA SHEET for FLUORESCENCE ANALYSIS

Project: GZA Environmental Inc. / Indian Point Week No: Samples Collected By: Miguel Britos (GZA Environmental)

Samples Shipped By: GEL Laboratories Samples Received By:

Date Samples Shipped: / / Date Samples Received: / / Time Samples Received: : Return Cooler? Yes ✓ No

Bill to: GZA Environmental Inc. Send Results to: Dave Winslow, GZA Environmental Inc.

Analyze for: Fluorescein ✓ Eosine ✓ Rhodamine WT ✓ Other Ship cooler to: GEL Labs

OUL use only		*Please indicate stations where dye was visible in the field* for field technician use - use black ink only						OUL use only
# CHAR RECD	LAB NUMBER	STATION NUMBER 1-4 Numbers	STATION NAME	PLACED		COLLECTED		WATER RELEASED
				DATE	TIME	DATE	TIME	
		270	MW-32-59 (013)			09/15/09	1427	
		280	MW-32-85 (016)			09/15/09	1435	
		290	MW-32-131			09/15/09	1241	
		300	MW-32-149 (014)			09/15/09	1153	
		312	MW-32-173 (019)			09/15/09	1140	
		310	MW-32-190 (015)			09/15/09	1131	

COMMENTS:

This sheet filled out by OUL staff? Yes No ✓ Charts for samples on this page proofed by OUL:

COC Number [1]:

PO Number: 50013510

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

Charleston, SC 29407
Phone (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Britos — Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Comments
MW-31-49(019)	09/14/09	1113	N	N	GW	Y	N	1	1	1	1	2 Liter Poly
MW-31-63(019)	09/14/09	1245	N	N	GW	Y	N	1	1	1	1	2 Liter Poly
MW-31-85(019)	09/14/09	1205	N	N	GW	Y	N	1	1	1	1	

Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Pacific / Central / Other / Mountain

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	09/1	1430	SECURED STORAGE	09/1	1430
2						
3						

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX — Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Only

Custody Seals Intact? YES

Cooler Temp:

1) Chain of Custody Number - Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD= Field Duplicate, ER = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A: 1)

6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added - leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224650

...Oley Lane Protem, MO 65733 (417) 785-4289 fax (417) 785-4290 email: oul@tri-lakes.net

SAMPLE COLLECTION DATA SHEET for FLUORESCENCE ANALYSIS

Project: GZA Environmental Inc. / Indian Point Week No: Samples Collected By: Miguel Britos (GZA Environmental)

Samples Shipped By: GEL Laboratories Samples Received By:

Date Samples Shipped: / / Date Samples Received: / / Time Samples Received: : Return Cooler? Yes ✓ No

Bill to: GZA Environmental Inc. Send Results to: Dave Winslow, GZA Environmental Inc.

Analyze for: Fluorescein ✓ Eosine ✓ Rhodamine WT ✓ Other Ship cooler to: GEL Labs

OUL use only		*Please indicate stations where dye was visible in the field* for field technician use - use black ink only						OUL use only
# CHAR REC'D	LAB NUMBER	STATION NUMBER 1-4 Numbers	STATION NAME	PLACED DATE	PLACED TIME	COLLECTED DATE	COLLECTED TIME	WATER REC'D
		240	MW-31-49(019)			09/14/09	1103	
		250	MW-31-63(019)			09/14/09	1149	
		260	MW-31-85(019)			09/14/09	1136	

COMMENTS:

This sheet filled out by OUL staff? Yes No ✓ Charts for samples on this page proofed by OUL:

f:\shared\forms\coc.doc, Rev. 8/05

OZARK UNDERGROUND LABORATORY, INC.

1572 Aley Lane Protem, MO 65733 (417) 785-4289 fax (417) 785-4290 email: oul@tri-lakes.net

SAMPLE COLLECTION DATA SHEET for FLUORESCENCE ANALYSIS

Project: GZA Environmental Inc. / Indian Point Week No: Samples Collected By: Miguel Britos (GZA Environmental)

Samples Shipped By: GEL Laboratories Samples Received By:

Date Samples Shipped: / / Date Samples Received: / / Time Samples Received: : Return Cooler? Yes ✓ No

Bill to: GZA Environmental Inc. Send Results to: Dave Winslow, GZA Environmental Inc.

Analyze for: Fluorescein ✓ Eosine ✓ Rhodamine WT ✓ Other Ship cooler to: GEL Labs

OUL use only		*Please indicate stations where dye was visible in the field* for field technician use - use black ink only						OUL use only
# CHAR REC'D	LAB NUMBER	STATION NUMBER 1-4 Numbers	STATION NAME	PLACED DATE	PLACED TIME	COLLECTED DATE	COLLECTED TIME	# WATER REC'D
		200	MW-30-69-(018)			09/12/09	1036	
		230	MW-30-84-(027)			09/12/09	1032	

COMMENTS:

This sheet filled out by OUL staff? Yes No ✓ Charts for samples on this page proofed by OUL:

f:\shared\forms\coc.doc, Rev. 8/99

IPEC00224652

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Beitos Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr-90)	<-- Preservative Type (6)	Comments
MW-30-69-(027)	09/12/09	1045	N	N	GW	Y	N	1	1	1	1		2 Liter Poly
MW-30-84-(018)	09/12/09	1222	N	N	GW	Y	N	1	1	1	1		2 Liter Poly

Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: ____ Specify: ____ (Subject to Surcharge) Fax Results: Yes / (No) Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	09/12/09	1340	SECURED STORAGE	09/12/09	1340
2						
3						

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Miss Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A: 1)

6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224653

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Brutos Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<= Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MW-31-49-(018)	09/01/09	1022	N	N	GW	Y	N	1	1	1	1		2 Liter Poly
MW-31-63-(018)	09/01/09	1150	N	N	GW	Y	N	1	1	1	1		2 Liter Poly
MW-31-85-(018)	09/01/09	1152	N	N	GW	Y	N	1	1	1	1		2 Liter Poly

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / No Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Pacific Central Other Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Miguel Brutos	09/01/09	1400	1 SECURED STORAGE	09/01/09	1400
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite
3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not Field filtered
4.) Matrix Codes: DW-Drinking Water, GW-Groundwater, SW-Surface Water, WW-Waste Water, W-Water, ML-Miscellaneous Liquid, SO-Soil, SD=Sediment, SL- Sludge, SS-Solid Waste, O=Oil, F=Filter, P=Wipe, D=Urine, F-Fecal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A - 1)
6.) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added - leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: °C

IPEC00224654

OZARK UNDERGROUND LABORATORY, INC.

1572 Aley Lane Protem, MO 65733 (417) 785-4289 fax (417) 785-4290 email: oul@tri-lakes.net

SAMPLE COLLECTION DATA SHEET for FLUORESCENCE ANALYSIS

Project: GZA Environmental Inc. / Indian Point Week No: Samples Collected By: Miguel Britos (GZA Environmental)

Samples Shipped By: GEL Laboratories Samples Received By:

Date Samples Shipped: / / Date Samples Received: / / Time Samples Received: : Return Cooler? Yes ✓ No

Bill to: GZA Environmental Inc. Send Results to: Dave Rusczyk, GZA Environmental Inc.

Analyze for: Fluorescein ✓ Eosine ✓ Rhodamine WT ✓ Other Ship cooler to: GEL Labs

OUL use only		*Please indicate stations where dye was visible in the field* *for field technician use - use black ink only*							*OUL use only*
# CHAR REC'D	LAB NUMBER	STATION NUMBER 1-4 Numbers	STATION NAME	PLACED		COLLECTED			# WATER REC'D
				DATE	TIME	DATE	TIME		
		240	MW-31-49-(018)			09/01/09	1014		
		250	MW-31-63-(018)			09/01/09	1109		
		260	MW-31-85-(018)			09/01/09	1132		

COMMENTS:

This sheet filled out by OUL staff? Yes No ✓ Charts for samples on this page proofed by OUL:

OZARK UNDERGROUND LABORATORY, INC.

1572 Aley Lane Protem, MO 65733 (417) 785-4289 fax (417) 785-4290 email: oul@tri-lakes.net

SAMPLE COLLECTION DATA SHEET for FLUORESCENCE ANALYSIS

Project: GZA Environmental Inc. / Indian Point Week No: Samples Collected By: Miguel Britos (GZA Environmental)

Samples Shipped By: GEL Laboratories Samples Received By:

Date Samples Shipped: / / Date Samples Received: / / Time Samples Received: : Return Cooler? Yes ✓ No

Bill to: GZA Environmental Inc. Send Results to: Dave Winslow, GZA Environmental Inc.

Analyze for: Fluorescein ✓ Eosine ✓ Rhodamine WT ✓ Other Ship cooler to: GEL Labs

OUL use only		*Please indicate stations where dye was visible in the field* *for field technician use - use black ink only*						*OUL use only*
# CHAR REC'D	LAB NUMBER	STATION NUMBER 1-4 Numbers	STATION NAME	PLACED DATE	PLACED TIME	COLLECTED DATE	COLLECTED TIME	# WATER REC'D
		270	MW-32-59-(012)			8/31/09	1323	
		280	MW-32-85-(015)			8/31/09	1344	
		290	MW-32-131			8/31/09	1126	
		300	MW-32-149-(013)			8/31/09	1034	
		312	MW-32-173-(011)			8/31/09	1100	
		310	MW-32-190-014)			8/31/09	1105	

COMMENTS:

This sheet filled out by OUL staff? Yes No ✓ Charts for samples on this page proofed by OUL:

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Britos Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)							<-- Preservative Type (6)
MW-32-59-(012)	08/31/09	1324	N	N	GW	Y	N	1	1	1	1							2 Liter Poly
MW-32-85-(015)	08/31/09	1411	N	N	GW	Y	N	1	1	1	1							2 Liter Poly
MW-32-149-(013)	08/31/09	1129	N	N	GW	Y	N	1	1	1	1							2 Liter Poly
MW-32-173-(011)	08/31/09	1131	N	N	GW	Y	N	1	1	1	1							2 Liter Poly
MW-32-190-(014)	08/31/09	1141	N	N	GW	Y	N	1	1	1	1							2 Liter Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify. (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	08/31/09	1600	1 SECURED STORAGE	08/31/09	1600
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

1) Chain of Custody Number: Client Determined
2) QC Codes: N= Normal Sample, TB= Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite
3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A- 1)
6) Preservative Type: HA= Hydrochloric Acid, NI= Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224657

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy
Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center
Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: M. Bristos
Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Comments / Preservative Type [6]
MH-5-(006)	08/24/09	1015	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly

Comments: Note, extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: Yes / (No)
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other ____

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08/24/09	1530	SECURED STORAGE	08/24/09	1530
2						
3						

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX
Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: °C

1) Chain of Custody Number = Client Determined
2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc. Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, W=Wipe, U=Urine, F=Fecal, N=Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B: 3, 6010B/7470B: 1)
6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added - leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224658

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: M. BRITOS Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (1)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: DSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)							<-- Preservative Type (6)	Comments
MW-51-40-(012)	08/12/09	1342	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	Note: extra sample is required for sample specific QC
MW-51-79-(012)	08/12/09	1354	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	
MW-51-104-(010)	08/12/09	1114	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	
MW-51-135-(010)	08/12/09	1122	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	
MW-51-163-(010)	08/12/09	1123	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	
MW-51-189-(010)	08/12/09	1111	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No) Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8/13/09	1059	SECURED STORAGE	8/13/09	1059
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite
3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. *8260B, 6010B/7470A* and number of containers provided for each (i.e. *8260B- 3, 6010B/7470A - 1*).
6.) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224659

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: M BRITCS Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90	Nickel 63 (Ni63)							<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MW-60-35-(010)	08/11/09	1441	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	
MW-60-53-(010)	08/11/09	1426	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	
MW-60-53-(010)-B			N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	
MW-60-53-(010)-D	08/11/09	1442	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	
MW-60-53-(010)-S	08/11/09	1458	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	
MW-60-72-(010)	08/11/09	1040	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	
MW-60-135-(010)	08/11/09	1052	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	
MW-60-154-(010)	08/11/09	1114	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	
MW-60-176-(010)	08/11/09	1149	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	

TAT Requested: Normal: ✓ Rush: ____ Specify: ____ (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Pacific Central Other ____ Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	08/11/09	1630	1 SECURED STORAGE	08/11/09	1630
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: ____ C

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Mist Liquid, SO=Soil, SD=Sediment, SL= Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, B=Fecal, N=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B- 3, 6010B/7470B - 1)

6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224660

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-5247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: M. Bartos Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Shipped as a sample to be considered: Radioactive	Shipped as a sample to be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)	<-- Preservative Type (6)	Comments
MW-42-49-(018)	08/10/09	1200	N	N	GW	Y	Y	1	1	1	1	1	2 Liter Poly	Note: extra sample is required for sample specific QC
MW-42-78-(013)	08/10/09	1240	N	N	GW	Y	Y	1	1	1	1	1	2 Liter Poly	

TAT Requested: Normal ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08/10/09	1400	SECURED STORAGE	08/10/09	1400
2						
3						

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

1) Chain of Custody Number = Client Determined

2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, B=Brine, F=Feces, N=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A- 1)

6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224661

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)	<-- Preservative Type [6]	Comments
MW-49-26-(017)	8/7/09	1050	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-49-42-(017)	8/7/09	1055	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-49-65-(017)	8/7/09	1248	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly

Comments: Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
[signature]	8/7/09	1630	SECURED STORAGE	8/7/09	1630
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, P=Filter, P=Wipe, U=Urine, F= Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B: 3, 6010B/7470B: 1)

6.) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact: YES NO

Cooler Temp.

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224662

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: CB, MB Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [1]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)							<-- Preservative Type [6]	Comments
MW-50-42-(018)	08/07/09	1313	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	Note: extra sample is required for sample specific QC
MW-50-66-(023)	08/07/09	1612	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly	

TAT Requested: Normal: ✓ Rush: _____ Specify: _____ (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
(Eastern) Pacific
Central Other _
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	08/07/09	1630	1 SECURED STORAGE	08/07/09	1630
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, We=Wipe, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A - 1)
6.) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224663

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: CB, MB Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)	Comments
MW-30-69-(026)	8/6/09	1216	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly	Note: extra sample is required for sample specific QC
MW-30-84-(017)	8/6/09	1238	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly	

TAT Requested: Normal: ✓ Rush Specify: (Subject to Surcharge) Fax Results: Yes / (No) Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

Relinquished By: (Signed)	Date	Time	Received by: (signed)	Date	Time
1	8/6/09	1630	1 SECURED STORAGE	8/6/09	1630
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

1) Chain of Custody Number - Client Determined

2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite

3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B- 3, 6010B/7470A - 1*)

6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224664

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: CB, MB — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)	<-- Preservative Type (6)	Comments
MW-55-24-(011)	8/5/09	1352	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-55-35-(010)	8/5/09	1340	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-55-54-(011)	8/5/09	1325	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly

Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: Yes / (No)
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Pacific Central Other Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	8/5/09	1544	1 SECURED STORAGE	8/5/09	1544
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

1) Chain of Custody Number = Client Determined
2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4) Matrix Codes: DW-Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD= Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, C=Urine, F=Fecal, N=Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. *8260B, 6010B/7470A*and number of containers provided for each (i.e. *8260B- 3, 6010B/7470A - 1*)
6) Preservative Type: HA- Hydrochloric Acid, NI = Nitric Acid, SH- Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: ____ C

IPEC00224665

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: CB, MB Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (1)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: DSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)								Preservative Type (6) / Comments
U3-4D-(021)	08/05/09	1406	N	N	GW	Y	Y	1	1	1	1								2 Liter Poly

Comments: Note: extra sample is required for sample specific QC

TAT Requested Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Pacific Central Other Mountain

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	08/05/09	1600	SECURED STORAGE	08/05/09	1600
2						
3						

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: °C

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A: 1)

6.) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224666

Page 1 of 1
Project #: Entergy GW Mon Prog
GFL Order #
COC Number (1)
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-6405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: CB, MB Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate the start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr-90)	Nickel 63 (Ni63)	<-- Preservative Type (6)	Comments
MW-54-37-(010)	8/4/09	1435	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-54-58-(010)	8/4/09	1430	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-54-123-(010)	8/4/09	1410	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-54-144-(010)	8/4/09	1110	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-54-173-(010)	8/4/09	1115	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-54-190-(010)	8/4/09	1120	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1	8/4/09	1705	1 SECURED SHIPPING	8/4/09	1705
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: °C

1) Chain of Custody Number: Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered: For Liquid matrices, indicate with a Y = Yes or N = No if sample was or was not field filtered

4) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, Ml = Miscellaneous Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal

5) Sample Analyses Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A: 1)

6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224667

Page 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: CB, MB — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composite samples - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr-90)	<-- Preservative Type (6)	Comments
MW-36-24 (015)	08/04/09	1609	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly	Note: extra sample is required for sample specific QC
MW-36-41-(009)	08/04/09	1429	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly	
MW-36-52-(014)	08/04/09	1202	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly	

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) — Fax Results: Yes / (No) — Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

	Relinquished by (Signed)	Date	Time	Received by (signed)	Date	Time
1	Joaquin A. Bez	8/4/09	1700	SECURED STORAGE	8/4/09	1700
2				2		
3				3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX — Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

1) Client Custody Number - Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a Y = Yes or the sample was field filtered or N = for sample was not field filtered

4) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Fiber, P = Wipe, U = Urine, T = Tissue, N = Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B-3, 6010B/7470B-1)

6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224668

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: CB, MB Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)	Comments
MW-32-59-(011)	08/03/09	1504	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-32-85-(014)	08/03/09	1520	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-32-149-(012)	08/03/09	1243	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-32-173 (010)	08/03/09	1237	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-32-190-(013)	08/03/09	1245	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly

Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

Relinquished by (signed)	Date	Time	Received by (signed)	Date	Time
1 Cyl Burgis	8/3/09	1610	1 SECURED STORAGE	8/3/09	1610
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

1.) Chain of Custody Number - Client Determined

2.) QC Codes - N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3.) Field Filtered - For liquid matrices, indicate with a Y - for yes, the sample was field filtered or N - for sample was not field filtered

4.) Matrix Codes: DW Drinking Water, GW Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD= Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470A and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A - 1)

6.) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added - leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224669

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: CB, MB Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<= Preservative Type [6]	Comments
MW-43-28-(012)	07/31/09	1310	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-43-62-(012)	07/31/09	1252	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly

Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	7/31/09	1345	1 SECURED STORAGE	7/31/09	1345
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number = Client Determined
2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, FB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite
3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.
4) Matrix Codes: DW-Drinking Water, GW-Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO-Soil, SD=Sediment, SL=Sludge, SS-Solid Waste, O-Oil, F=Filter, P=Wipe, U=Urine, B=Fecal, N=Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470)and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A: 1)
6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only
Custody Seal Intact: YES NO
Cooler Temp: C

IPEC00224670

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: CB, MB — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)	Comments
MW-63-18-(010)	7/30/09	1426	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-63-34-(010)	7/30/09	1400	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-63-50-(010)	07/30/09	1105	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-63-93-(011)	07/30/09	1130	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-63-112-(010)	7/30/09	1354	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-63-121-(010)	7/30/09	1403	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-63-163-(010)	7/30/09	1345	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-63-174-(010)	7/30/09	1305	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly

TAT Requested: Normal ✓ Rush: Specify: (Subject to Surcharge) — Fax Results: Yes / (No) — Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	7/30/09	1600	SECURED STORAGE	7/30/09	1600
2						
3						

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX — Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered - For liquid matrices, indicate with a Y = For yes the sample was field filtered or N = for sample was not field filtered

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, I=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B- 3, 6010B/7473A- 1)

6) Preservative Type: HA= Hydrochloric Acid, NI= Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

IPEC00224671

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: CB, MB Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)
Mw-44-66-(013)	7/29/09	1256	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly
MW-44 102-(014)	7/29/09	1208	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

Relinquished By: (Signed)	Date	Time	Received by: (signed)	Date	Time
1	7/29/09	1530	1 SECURED STORAGE	7/29/09	1530
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

1) Chain of Custody Number = Client Determined
2) QC Codes: N - Normal Sample, TB - Trip Blank, FD- Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite
3) Field Filtered: enter lower case letters, in-State with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A - 1)
6) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH- Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224672

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: CB, MB Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	* Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)	Comments
Mw-44-66-(013)	7/29/09	1256	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly	Note: extra sample is required for sample specific QC
MW-44-102-(014)	7/29/09	1208	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly	

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
[signature]	7/29/09	1530	SECURED STORAGE	7/29/09	1530
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

1) Chain of Custody Number = Client Determined
2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A and number of containers provided for each (i.e. 8260B-3, 6010B/7470A - 1)
6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224673

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [2]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)							<-- Preservative Type (6)
MW-66-21-(010)	7/28/09	1410	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly
MW-66-36-(009)	7/28/09	1341	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1	7/28/09	1650	SECURED STORAGE	7/28/09	1650
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: °C

1) Chain of Custody Number = Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a Y = for yes the sample was field filtered or N = for sample was not field filtered.
4) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. *8260B, 6010B/7470A*) and number of containers provided for each (i.e. *8260B- 3, 6010B/7470A - 1*)
6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224674

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: C B, M B Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)	<-- Preservative Type (6)	Comments
MW-67-39-(010)	7/28/09	1509	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-67-105-(009)	7/28/09	1515	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-67-173-(010)	7/28/09	1524	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-67-219-(009)	07/28/09	1111	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-67-276-(009)	07/28/09	1114	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-67-323-(009)	07/28/09	1125	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly
MW-67-340-(009)	07/28/09	1120	N	N	GW	Y	Y	1	1	1	1	1		2 Liter Poly

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1	7/28/09	1650	1 SECURED STORAGE	7/28/09	1650
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp. C

1) Chain of Custody Number - Client Determined

2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered - For Liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW Drinking Water, GW Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, E=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. *8260B- 3, 6010B/7470B - 1*).

6) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH- Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224675

NRC FORM 303 (4-2004) U.S. NUCLEAR REGULATORY COMMISSION

REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY

LABORATORY: _____

LABORATORY USE ONLY

CONTROL NUMBER

SAMPLE LOCATION (LICENSEE): INDIAN POINT ENERGY CENTER

LICENSEE NUMBER	DOCKET NO.

SAMPLE SUBMITTED

# TOTAL	TYPE	VOLUME	WEIGHT
1	GROUND WATER	2000 ML	~ 2 Kg

DATE SAMPLES SUBMITTED:

PRIORITY: ☐ ROUTINE ☐ URGENT

SAMPLE COLLECTION INTERVAL

	MONTH	DAY	YEAR	TIME
START				
STOP				

INSPECTOR RESPONSIBLE: Jim Noggle (USNRC)

TELEPHONE NUMBER: (610) 337-5063

ANALYSIS TO BE PERFORMED	LIST DESIRED LLD (Optional)	OTHER TYPE OF ANALYSIS (Specify)	LIST DESIRED LLD (Optional)
☐ GROSS ALPHA (GA)		☒ STRONTIUM-90 (Sr90)	
☐ GROSS BETA (GB)		☒ NICKEL-63 (Ni63)	
☒ GAMMA SPEC (GS)		☐	
☒ TRITIUM (H3)		☐	
☐ CARBON-14 (C14)		☐	
☐ IODINE-125 (I125)		☐	

RELENQUISHED BY	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
Cheryl Blumyer	SECURED STORAGE	7/26/09	1650	

FEE RECOVERABLE ☐ NO ☒ YES TAC NUMBER _____

REMARKS:

NOTE: SAMPLES WILL BE DISCARDED AFTER ANALYSIS UNLESS REASON ARE NOTED IN REMARKS ABOVE.

NRC FORM 303 (4-2004) U.S. NUCLEAR REGULATORY COMMISSION

REQUEST FOR ANALYSIS AND CHAIN OF CUSTODY

LABORATORY: _____

LABORATORY USE ONLY

CONTROL NUMBER

SAMPLE LOCATION (LICENSEE): INDIAN POINT ENERGY CENTER

LICENSEE NUMBER	DOCKET NO.

SAMPLE SUBMITTED

# TOTAL	TYPE	VOLUME	WEIGHT
1	GROUND WATER	2000 ML	~ 2 Kg

DATE SAMPLES SUBMITTED:

PRIORITY: ☐ ROUTINE ☐ URGENT

SAMPLE COLLECTION INTERVAL

	MONTH	DAY	YEAR	TIME
START				
STOP				

INSPECTOR RESPONSIBLE: Jim Noggle (USNRC)

TELEPHONE NUMBER: (610) 337-5063

ANALYSIS TO BE PERFORMED	LIST DESIRED LLD (Optional)	OTHER TYPE OF ANALYSIS (Specify)	LIST DESIRED LLD (Optional)
☐ GROSS ALPHA (GA)		☒ STRONTIUM-90 (Sr90)	
☐ GROSS BETA (GB)		☒ NICKEL-63 (Ni63)	
☒ GAMMA SPEC (GS)		☐	
☒ TRITIUM (H3)		☐	
☐ CARBON-14 (C14)		☐	
☐ IODINE-125 (I125)		☐	

RELENQUISHED BY	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[illegible]	SECURED STORAGE	7/28/09	1650	

FEE RECOVERABLE ☐ NO ☒ YES TAC NUMBER _____

REMARKS:

NOTE: SAMPLES WILL BE DISCARDED AFTER ANALYSIS UNLESS REASON ARE NOTED IN REMARKS ABOVE.

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: CB/MB Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [1]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)	Comments
MW-41-40-(013)	7/24/09	1533	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-41-63-(012)	7/24/09	1413	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly

Comments: Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	7/24/09	1540	Secured storage	7/24/09	1540
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

1) Chain of Custody Number = Client Determined

2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered: For liquid matrices, indicate with a Y = for yes the sample was field filtered or N = for sample was not field filtered.

4) Matrix Codes: DW= Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. *8260B- 3, 6010B/7470A - 1*)

6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224678

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: DB/MB Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites: indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)	Comments
MW-45-42-(017)	7/24/09	1430	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly	Note: extra sample is required for sample specific QC
MW-45-61-(017)	7/24/09	1156	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly	

TAT Requested: Normal ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks. Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other _____

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[illegible]	7/24/09	1540	FEDEX SHARE	7/24/09	1540
2						
3						

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470Aand number of containers provided for each (i.e. 8260B: 3, 6010B/7470A - 1)

6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224679

Page 1 of 1
Project # Entergy GW Mon Prog
GEL Quote #:
COC Number[1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Send Results To: Patrick Donahue

Sample Analysis Requested[5] (Fill in the number of containers for each test)

Sample ID (* For composite - indicate start and stop date/time.)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code[2]	Field Filtered[3]	Sample Matrix[4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr-90)	<-- Preservative Type (6)
MW-37-22-(015)	07/23/09	1420	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly
MW-37-32-(015)	07/23/09	1507	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly
MW-37-40-(015)	07/23/09	1416	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly
MW-37-57-(015)	07/23/09	1512	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
Eastern Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1	7/23/09	1730	1	7/23/09	1730
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: °C

1) Chain of Custody Number: Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a "Y" for yes the sample was field filtered or "N" for sample was not field filtered
4) Matrix Codes: DW = Drinking Water, GW = Ground water, SW = Surface Water, WW = Waste Water, W = Water, ML = Miscellaneous Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6020B/7470B) and number of containers provided for each (i.e. 8260B: 3, 6020B/7470B: 1)
6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224680

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-0001

CHAIN OF CUSTODY

Client: New York State Department of Environmental Conservation

Project: Entergy- Indian Point Ground Water Monitoring

Sampled by: AA, SB, M.B

Client Contact: Tim Rice (NYSDEC) **Phone:** (518) 402-8574

Sample Description:

Sample Location	Date Completed	Time Completed	Sample Matrix	Composite or Grab	No. of Containers	Gross Alpha	Gross Beta	Ni-59	Ni-63	Fe-55	Gamma	Tritium	I-129	P-32	C-14	Ce-144	Am-241	Np-237	Nb-94	Pu-238, 239/240	Pu-241	Ra-224, 226	Sr-89/90	Tc-99	U-234, 235, 238	Th-230, 232	Cs-137	Other
MW-62-18-(010)	07/22/09	1424	GW	Grab	1						X	X											X					
MW-62-37-(010)	07/22/09	1602	GW	Grab	1						X	X											X					
MW-62-53-(009)	07/22/09	1401	GW	Grab	1						X	X											X					
MW-62-71-(010)	07/22/09	1252	GW	Grab	1						X	X											X					
MW-62-92-(010)	07/22/09	1137	GW	Grab	1						X	X											X					
MW-62-138-(010)	07/22/09	1655	GW	Grab	1						X	X											X					
MW-62-182-(010)	07/22/09	1700	GW	Grab	1						X	X											X					

Analysis / Method

Relinquished by: [signature] Date: 07/22/09 Time: 1709 Received by: [signature] Date: 7/22/09 Time: 1709

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

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

Shipment Method: AirBill Number:

Turnaround Time Required: _____

Routine: _____

Rush: _____

Cooler Temp: _____

Comments:

IPEC00224681

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: AA, SB, M.B Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)	Comments
MW-62-18-(010)	07/22/09	1424	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-62-37-(010)	07/22/09	1602	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-62-53-(009)	07/22/09	1401	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-62-71-(010)	07/22/09	1252	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-62-92-(010)	07/22/09	1137	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-62-138-(010)	07/22/09	1655	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-62-182-(010)	07/22/09	1700	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly

TAT Requested: Normal: ✓ Rush: ____ Specify: ____ (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other ____

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	7/22/09	1720	1 SECURED STORAGE	7/22/09	1720
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B)and number of containers provided for each (i.e. *8260B- 3, 6010B/7470A - 1*).

6.) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank.

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: ____ C

IPEC00224682

Page 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #
COC Number (1)
PO Number 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-6405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: [signature] Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)							<-- Preservative Type (6)
MW-53-82-(012)	07/21/09	1626	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly
MW-53-120-(016)	07/21/09	1315	N	N	GW	Y	Y	1	1	1	1	1							2 Liter Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	7/21/09	1705	Secure Storage	7/21/09	1705
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

1) Chain of Custody Number = Client Determined
2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite
3) Field Filtered: For Aqueous matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.
4) Matrix Codes: DW Drinking Water, GW Groundwater, SW Surface Water, WW Waste Water, W Water, ML = Misc Liquid, SO=Soil, SE=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, S=Fecal, N=Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A : 1).
6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224683

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-0001

CHAIN OF CUSTODY

Client: New York State Department of Environmental Conservation

Project: Entergy- Indian Point Ground Water Monitoring

Sampled by: AM CB LMB

Client Contact: Tim Rice (NYSDEC) **Phone:** (518) 402-8574

Sample Description:						Analysis / Method																								
Sample Location	Date Completed	Time Completed	Sample Matrix	Composite or Grab	No. of Containers	Gross Alpha	Gross Beta	Ni-59	Ni-63	Fe-55	Gamma	Tritium	I-129	P-32	C-14	Ce-144	Am-241	Np-237	Nb-94	Pu-238, 239/240	Pu-241	Ra-224, 226	Sr-89/90	Tc-99	U-234, 235, 238	Th-230, 232	Cs-137	Other
MW-53-82-(012)	7/21/09	1626	GW	Grab	1				X		X	X											X					
MW-53-120-(016)	7/21/09	1315	GW	Grab	1				X		X	X											X					

Relinquished by:		Date: 7/21/09	Time: 1633	Received by:	Date: 7/21/09 Time: 1633
Relinquished by:		Date:	Time:	Received by:	Date: Time:
Relinquished by:		Date:	Time:	Received by:	Date: Time:
Shipment Method:				AirBill Number:	

Turnaround Time Required: _____

Routine: _____

Rush: _____

Cooler Temp: _____

Comments:

IPEC00224684

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-0001

CHAIN OF CUSTODY

Client: New York State Department of Environmental Conservation

Project: Entergy- Indian Point Ground Water Monitoring

Sampled by: AA / CB

Client Contact: Tim Rice (NYSDEC) **Phone:** (518) 402-8574

Sample Description:

Sample Location	Date Completed	Time Completed	Sample Matrix	Composite or Grab	No. of Containers	Analysis / Method: Gamma	Tritium	Sr-89/90
MW-31-49-(017)	07/21/09	1153	GW	Grab	1	X	X	X
MW-31-63-(017)	07/21/09	1250	GW	Grab	1	X	X	X
MW-31-85-(017)	07/21/09	1213	GW	Grab	1	X	X	X

Analysis / Method: Gross Alpha; Gross Beta; Ni-59; Ni-63; Fe-55; Gamma; Tritium; I-129; P-32; C-14; Ce-144; Am-241; Np-237; Nb-94; Pu-238, 239/240; Pu-241; Ra-224, 226; Sr-89/90; Tc-99; U-234, 235, 238; Th-230, 232; Cs-137; Other

Relinquished by:	Date: 7/21/09	Time: 1633	Received by:	Date: 7/21/09	Time: 1633
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Shipment Method:			AirBill Number:		

Turnaround Time Required: _____

Routine: _____

Rush: _____

Cooler Temp: _____

Comments:

IPEC00224685

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-8247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: AA / CB Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)	Comments
MW-31-49-(017)	07/24/09	1153	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly	Note: extra sample is required for sample specific QC
MW-31-63-(017)	07/24/09	1250	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly	
MW-31-85-(017)	07/24/09	1213	N	N	GW	Y	Y	1	1	1	1	2 Liter Poly	

TAT Requested: Normal ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		7/24/09	1705	Secure Storage	7/24/09	1705
2						
3						

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

1) Chain of Custody Number = Client Determined
2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4) Matrix Codes: DW Drinking Water, GW-Groundwater, SW-Surface Water, WW-Waste Water, W-Water, ML= Miscellaneous Liquid, SO-Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470A and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A - 1)
6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224686

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
QC Number [11]:
PO Number: 50013510

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Miguel Brites — Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type [6]	Comments
MW-40-27-(008)	07/20/09	1450	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-40-46-(009)	07/20/09	1511	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-40-81-(009)	07/20/09	1128	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-40-100-(011)	07/20/09	1131	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-40-127-(011)	07/20/09	1209	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly
MW-40-162-(009)	07/20/09	1257	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly

Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) — Fax Results: Yes / (No) — Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Miguel Brites	7/21/09	0900	1 SECURED STORAGE	7/21/09	0900
			2		
			3		

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

[1] Chain of Custody Number = Client Determined
[2] QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite
[3] Field Filtered: For liquid matrices, indicate with a Y -for yes the sample was field filtered or N - for sample was not field filtered
[4] Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc. Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasa
[5] Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A - 1)
[6] Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

IPEC00224687

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-0001

CHAIN OF CUSTODY

Client: New York State Department of Environmental Conservation

Project: Entergy- Indian Point Ground Water Monitoring

Sampled by: Miguel Bustos

Client Contact: Tim Rice (NYSDEC) **Phone:** (518) 402-8574

Sample Description: / **Analysis / Method**

Sample Location	Date Completed	Time Completed	Sample Matrix	Composite or Grab	No. of Containers	Gross Alpha	Gross Beta	Ni-59	Ni-63	Fe-55	Gamma	Tritium	I-129	P-32	C-14	Ce-144	Am-241	Np-237	Nb-94	Pu-238, 239/240	Pu-241	Ra-224, 226	Sr-89/90	Tc-99	U-234, 235, 238	Th-230, 232	Cs-137	Other
MW-40-27-(008)	07/20/09	1450	GW	Grab	1						X	X											X					
MW-40-46-(009)	07/20/09	1511	GW	Grab	1						X	X											X					
MW-40-81-(009)	07/20/09	1128	GW	Grab	1						X	X											X					
MW-40-100-(011)	07/20/09	1131	GW	Grab	1						X	X											X					
MW-40-127-(011)	07/20/09	1209	GW	Grab	1						X	X											X					
MW-40-162-(009)	07/20/09	1257	GW	Grab	1						X	X											X					

Relinquished by: Miguel Bustos	Date: 07/20/09	Time: 1518	Received by: A. C. Cell	Date: 7/20/09 Time: 1518
Relinquished by:	Date:	Time:	Received by:	Date: Time:
Relinquished by:	Date:	Time:	Received by:	Date: Time:
Shipment Method:			AirBill Number:	

Turnaround Time Required: _____

Routine: _____

Rush: _____

Cooler Temp: _____

Comments:

IPEC00224688

Page: 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: AA/MB Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites: indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr-90)							<-- Preservative Type (6)
U3-T1-(025)	07/14/09	1108	N	N	GW	Y	Y	1	1	1	1							2 Liter Poly
U3-T2-(030)	07/14/09	1304	N	N	GW	Y	Y	1	1	1	1							2 Liter Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
(Eastern) Pacific
Central Other _____
Mountain

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		7/14/09	1450	SECURE STORAGE	7/14/09	1450
2						
3						

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

1) Chain of Custody Number = Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a Y = for yes the sample was field filtered or N = for sample was not field filtered
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, Ml =Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A: 1)
6) Preservatives: Use: HA=Hydrochloric Acid, NI = Nitric Acid, SH=Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00224689

Page 1 of 1
Project #: Entergy GW Mon Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: AP / MB — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)	Comments
MW-46-(017)	07/14/09	1357	N	N	GW	Y	Y	1	1	1	1		2 Liter Poly

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

	Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	7/14/09	1450	[signature]	7/14/09	1450
2						
3						

Sample Shipping and Delivery Details

GEL PM: ERIN TRENT

Method of Shipment: FEDEX — Date Shipped:

Airbill #

Airbill #:

1.) Chain of Custody Number - Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered - For Liquid matrices, indicate with a Y = for yes the sample was field filtered or N = for sample was not field filtered

4.) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal

5.) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A: 1)

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: °C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

IPEC00224690

APPENDIX D: 3RD QUARTER 2009 SAMPLING DATA SHEETS

WELL ID: MW 5I - 18S

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy, 80's

PROJECT NO: 01.0017869.92
DATE: 8/12/09
SAMPLER(S): M BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)

184.2 to 197.8

SAMPLING PORT

189

TOTAL VOLUME PURGED: 1.85 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
0947	0	PUMP ON						5.6/5.6	50
0957	0.1	16.34	1.610	0.38	6.04	-238.6			
1003	0.25	16.13	1.612	0.53	6.16	-227.4			
1012	0.65	15.97	1.618	0.24	6.40	-291.6	6.32		
1021	0.85	15.80	1.618	0.20	6.66	-273.4	6.62		
1028	1.0	15.86	1.618	0.17	6.64	-256.1	5.97		
1036	1.2	15.86	1.615	0.16	6.70	-243.7	4.75		
1044	1.5	15.87	1.609	0.14	6.73	-240.1	4.84		
1050	1.7	15.86	1.605	0.14	6.15	-236.8	4.92		
1051		PUMP OFF							
1052		START SAMPLE COLLECTION							
1111		SAMPLE COMPLETED - 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	3
turbidity meter	20070293

NOTES AND OBSERVATIONS:

WELL ID: MW 5I - 163

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy, 80's

PROJECT NO: 01.0017869.92
DATE: 8/12/09
SAMPLER(S): M. BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)

1547 to 1662

SAMPLING PORT

163 2

TOTAL VOLUME PURGED: 130 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressu (psi)
0947	0	PUMP	ON					5.6/5.6	50
0957	0.1	17.24	2.082	0.80	6.87	-168.6	—		
1003	0.15	17.17	2.052	0.42	7.03	-161.7	—		
1012	0.35	17.15	2.037	0.27	7.13	-143.7	13.08		
1021	0.60	17.00	2.039	0.24	7.14	-146.1	12.59		
1028	0.75	17.04	2.035	0.21	7.15	-142.3	11.45		
1036	0.90	17.05	2.036	0.20	7.15	-128.6	10.31		
1044	1.0	17.12	2.032	0.18	7.17	-117.6	9.59		
1053	1.10	17.22	2.030	0.17	7.17	-111.9	9.27		
1058	1.15	17.20	2.028	0.17	7.18	-112.2	9.69	↓	↓
1059		PUMP	OFF						
1100		START	SAMPLE COLLECTION						
1123		SAMPLE COMPLETED : 2 L IPEC							
		PUMP	OFF						

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	2
turbidity meter	20C104293

NOTES AND OBSERVATIONS:

WELL ID: MW 51-135

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy, 30's

PROJECT NO: 01.0017869.92
DATE: 3/12/09
SAMPLER(S): M. BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)

13C 2 to 143 7

SAMPLING PORT

135 3

TOTAL VOLUME PURGED: 2.60 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressu (psi)
0947	0	PUMP ON						5.6/5.6	50
0958	0.3	15.50	2.278	0.19	6.48	26.3	—	↓	↓
1004	0.5	15.40	2.290	0.17	6.68	47.4	—		
1013	0.9	15.38	2.294	0.14	6.71	60.5	7.02		
1022	1.1	15.25	2.298	0.14	6.78	58.6	5.86		
1029	1.35	15.36	2.296	0.14	6.81	57.6	1.05		
1037	1.80	15.28	2.297	0.14	6.83	57.3	2.40		
1045	2.0	15.29	2.299	0.16	6.85	55.8	2.41		
1053	2.2	15.37	2.294	0.16	6.86	56.1	2.64		
1101	2.45	15.40	2.301	0.16	6.67	57.4	2.15	↓	↓
1105		PUMP OFF							
1108		START SAMPLE COLLECTION							
1122		SAMPLE COMPLETED : 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
turbidity meter	2C01042 93

NOTES AND OBSERVATIONS:

WELL ID: MW 51-104

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy, 80's

PROJECT NO: 01.0017869.92
DATE: 8/12/09
SAMPLER(S): M. Bates

SAMPLING INTERVAL (depth in ft below top of casing)

101.2 to 111.2

SAMPLING PORT

104 4

TOTAL VOLUME PURGED: 515 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressu (psi)
0947	0	PUMP	ON					5.6/5.6	50
0958	0.75	14.35	2.727	1.86	7.13	17.0	—		
1013	1.70	14.23	2.722	1.34	7.04	18.7			
1022	2.20	14.14	2.719	1.27	6.98	25.7	7.43		
1029	2.75	14.16	2.717	1.19	6.92	33.0	4.97		
1037	3.20	14.11	2.720	1.17	6.86	41.6	4.60		
1045	3.90	14.13	2.722	1.13	6.83	42.4	4.63		
1053	4.35	14.14	2.724	1.12	6.81	44.9	4.28		
1101	4.90	14.21	2.724	1.10	6.80	46.5	4.49		
1103		PUMP	OFF						
1104		START SAMPLE COLLECTION							
1114		SAMPLE COMPLETED : 2 L					IPEC		
		PUMP	OFF						

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	5
turbidity meter	2007E1293

NOTES AND OBSERVATIONS:

WELL ID: MW 51-40

SAMPLE ID: 012

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy, 80's

PROJECT NO: 01.0017869.92
DATE: 8/12/09
SAMPLER(S): M BRITTS

SAMPLING INTERVAL (depth in ft below top of casing)

29.7 to 44.2

SAMPLING PORT

40 7

TOTAL VOLUME PURGED: 2.55 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressu (psi)
1227	0	PUMP ON						6.5/8.4	25
1235	0.5	15.82	2.911	4.56	6.98	-114.3	—		
1245	0.75	15.35	2.930	4.69	7.01	-80.1	—		
1254	1.0	15.25	2.942	4.82	7.03	-42.4	9.22		
1306	1.5	15.24	2.941	4.85	7.04	-41.6	7.78		
1311	1.7	15.27	2.935	4.82	7.04	-40.0	8.11		
1316	1.9	15.27	2.939	4.99	7.04	-29.9	5.55		
1322	2.2	15.30	2.943	5.02	7.05	-23.6	5.80		
1327	2.4	15.33	2.947	5.03	7.05	-27.2	5.66		
1329		PUMP OFF							
1331		START SAMPLE COLLECTION							
1342		SAMPLE COMPLETED 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
Turbidity meter	20070293

NOTES AND OBSERVATIONS:

WELL ID: MW 51 - 79

SAMPLE ID: 012

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy, 80's

PROJECT NO: 01.0017869.92
DATE: 8/12/09
SAMPLER(S): M. BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)

63.2 to 81.2

SAMPLING PORT

79 6

TOTAL VOLUME PURGED: 1.35 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressu (psi)
1227	0	PUMP ON						65/84	25
1235	0.05	17.57	2.572	0.36	6.64	74	—		
1245	0.20	16.89	2.566	1.03	6.79	367	—		
1254	0.50	16.61	2.552	1.07	6.84	634	7.52		
1306	0.80	16.62	2.556	1.09	6.88	634	6.75		
1311	0.90	16.67	2.555	1.09	6.89	626	5.57		
1316	1.0	16.70	2.557	1.10	6.88	616	6.00		
1322	1.1	16.74	2.560	1.08	6.89	598	5.85		
1327	1.2	16.76	2.562	1.09	6.90	590	6.01	↓	↓
1328		PUMP OFF							
1329		START SAMPLE COLLECTION							
1354		SAMPLE COMPLETED : 2L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	2
turbidity meter	20010 4293

NOTES AND OBSERVATIONS:

WELL ID: MW 60 - 35

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, 80's

PROJECT NO: 01.0017969.92
DATE: 8/11/09
SAMPLER(S): M Sitts

SAMPLING INTERVAL (depth in ft below top of casing)
44.4 to 39.4

SAMPLING PORT
35

TOTAL VOLUME PURGED: 1.30 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pres (psi)
1300	0	PUMP ON						5/7	20
1315	0.4	20.16	3426	0.71	7.15	169.6	--		
1325	0.65	21.75	3330	1.05	7.23	178.3	--		
1330	0.75	22.24	3261	1.39	7.30	184.0	9.21		
1335	0.85	22.21	3221	1.90	7.31	187.2	7.73		
1340	0.90	22.31	3185	2.18	7.30	189.2	5.72		
1345	0.95	22.48	3016	2.34	7.25	189.0	7.79		
1351	1.0	22.26	2950	2.70	7.18	189.7	7.67		
1356	1.05	22.11	2911	2.93	7.18	189.4	7.49		
1401	1.10	22.02	2903	2.91	7.18	189.8	7.44		
1406	1.15	21.93	2892	2.88	7.19	190.1	7.52		
1407		PUMP OFF							
1408		START SAMPLE COLLECTION							
1441		SAMPLE COMPLETED			: 2 L IPEC				
					2 L SPIKE				
					2 L DUPLICATE				

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	2
Turbidity meter	20070104293

NOTES AND OBSERVATIONS:

WELL ID: MW 60-53

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, 80's

PROJECT NO: 01.0017869.92
DATE: 8/11/09
SAMPLER(S): M. DRITOS

SAMPLING INTERVAL (depth in ft below top of casing)
45.4 to 59.4

TOTAL VOLUME PURGED: 185 gal

PURGE RATE: variable (gal / min)

SAMPLING PORT
53 6

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pres (psi)
1300	0	PUMP ON						5/7	20
1315	0.4	19.58	3.772	1.19	7.58	-109.6	—		
1325	0.65	19.96	3.180	1.10	7.64	-99.9	8.86		
1330	0.75	19.78	3.805	1.11	7.69	-94.9	8.95		
1335	0.85	19.72	3.804	1.13	7.68	-93.1	5.87		
1340	1.0	19.55	3.809	1.15	7.69	-87.4	6.		
1345	1.15	19.42	3.816	1.18	7.70	-83.3	7.29		
1351	1.30	19.34	3.809	1.23	7.70	-74.2	7.74		
1356	1.45	19.29	3.818	1.27	7.70	-72.1	7.38		
1401	1.60	19.26	3.815	1.28	7.70	-70.4	7.93		
1406	1.70	19.26	3.322	1.29	7.69	-68.9	7.69	↓	↓
1407		PUMP OFF							
1409		START SAMPLE COLLECTION							
1426		SAMPLE COMPLETED			2 L	HCL			
1458		"		"	2 L	SPIKE		1 FOR EACH	
1442		"		"	2 L	DUPLICATE			
1453		PUMP OFF							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	6
Turbidity meter	200704293

NOTES AND OBSERVATIONS:

WELL ID: MW GC-72

SAMPLE ID: GC0

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Entergy - IPEC
TE: Buchanan, NY
EATHER: Sunny 80's

PROJECT NO: 01.0017869.92
DATE: 8/11/09
SAMPLER(S): M. BRITOS

AMPLING INTERVAL (depth in ft below top of casing)

66.4 to 78.2

AMPLING PORT

72

TOTAL VOLUME PURGED: 3.25 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pres (psi)
0934	0	PUMP	ON					3.5	30
0950	1.0	17.41	4.476	0.44	6.85	-149.6	--	3.5	32
1006	1.4	17.36	4.424	0.42	6.92	-165.7			
1009	2.0	16.93	4.418	0.41	7.01	-154.4	9.48		
1018	2.5	16.78	4.417	0.39	7.05	-132.6	10.34		
1027	2.9	16.77	4.410	0.39	7.01	-129.9	10.62		
1032	3.1	16.71	4.417	0.38	7.01	-128.9	10.45		
1032		PUMP	OFF						
1033		START	SAMPLE COLLECTION						
1040		SAMPLE	COMPLETED	1.2 L	ICPC				
		PUMP	OFF						

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	5
bidity meter	2009G4793

OTES AND OBSERVATIONS:

WELL ID: MW-60-135

SAMPLE ID: 510

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: [illegible]

PROJECT NO: 01.0017869.92
DATE: 8/11/09
SAMPLER(S): M BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)
124.9 to 141.4

SAMPLING PORT
135

TOTAL VOLUME PURGED: 2.25 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pres (psi)
1434	0	PUMP	ON					5/5	30
0450	0.6	16.39	2.151	0.37	7.36	-20.4	—	5/5	35
0500	0.8	16.19	2.210	0.29	7.33	-19.6	—		
0509	1.2	17.68	2.254	0.24	7.33	-213.4	19.40		
0518	1.6	17.48	2.261	0.26	7.33	-213.4	8.75		
0527	1.9	17.27	2.271	0.19	7.34	-212.6	8.57		
0535	2.1	17.26	2.273	0.18	7.35	-211.7	8.62		
0536		PUMP	OFF						
0537		START	SAMPLE COLLECTION						
0552		SAMPLE	COLLECTED						
		PUMP	OFF						

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	[illegible]
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

WELL ID: MW GO-154

SAMPLE ID: GW0

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, 80's

PROJECT NO: 01.0017869.92
DATE: 8/11/09
SAMPLER(S): M. BRITO

SAMPLING INTERVAL (depth in ft below top of casing)
14.74 to 16.49

TOTAL VOLUME PURGED: 2.55 gal

PURGE RATE: variable (gal / min)

SAMPLING PORT
154 2

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pres (psi)
0934	0	PUMP ON						5/5	30
0950	0.9	19.22	1.764	0.51	6.66	173			32
1000	0.6	18.33	1.761	0.63	6.73	121			1
1009	1.0	18.23	1.801	0.49	6.91	84	154		
1018	1.2	18.15	1.812	0.41	7.06	63	8.90		
1027	1.4	17.83	1.814	0.38	7.10	31	8.46		
1035	1.7	17.86	1.811	0.32	7.10	30	4.42		
1045	2.0	17.70	1.811	0.26	7.14	28	9.88		
1050	2.2	17.65	1.811	0.25	7.14	26	10.02		
1055	2.4	17.73	1.801	0.24	7.15	24	9.94	↓	↓
1056		PUMP OFF	OFF						
1057		START SAMPLE COLLECTION							
1114		SAMPLE COMPLETED			2 L	VOC			
		PUMP OFF	OFF						

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	3
Turbidity meter	2010 (P) 472713

NOTES AND OBSERVATIONS:

WELL ID: MW GO-176

SAMPLE ID: GO-176

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, 50's

PROJECT NO: 01.0017869.92
DATE: 8/11/09
SAMPLER(S): M. Bolton

SAMPLING INTERVAL (depth in ft below top of casing)

176.9 to 206.4

SAMPLING PORT

176

TOTAL VOLUME PURGED: 0.85 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pres (psi)
1124	0	PUMP ON						5/5	30
1150	0.05	24.01	0.770	0.30	5.81	344	-	5/5	32
1206	0.1	23.44	0.762	0.16	6.35	217	-		
1214	0.15	22.64	0.715	0.12	6.79	6.81	12.63		
1218	0.25	22.35	0.703	0.08	6.90	12.3	10.39		
1221	0.35	22.32	0.757	0.07	6.93	24.1	9.81		
1235	0.45	22.43	0.762	0.09	7.08	21.6	18.09		
1245	0.60	21.95	0.762	0.10	7.01	36.2	10.66		
1256	0.65	21.85	0.761	0.09	7.02	36.0	9.92		
1305	0.70	21.83	0.758	0.09	7.03	37.4	9.93	↓	↓
1306		PUMP OFF							
1307		START SAMPLE COLLECTION							
1323		SAMPLE COMPLETED			2	L. IPEC			
		PUMP OFF							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	2
Turbidity meter	10-10C/1293

COMMENTS AND OBSERVATIONS:

WELL ID: MW-12 1°
SAMPLE ID: 218

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sun, clouds 70-75°

PROJECT NO: 01.0017869.92
DATE: 8/10/09
SAMPLER(S): CB/mB
PUMP DEPTH: 41 ft

WATER QUALITY: DTW = 34.730 Transducer Actual Depth 13.791 TRANSD. READING = 34.628

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (mg/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
0953	13.790		PUMP ON					5/10 @	24
1001	13.631	22.89	3.651	7.09	6.98	90.4	—	5/10 @	3
1007	13.626	22.39	3.350	5.79	7.06	54.8	—	5/10 @	23
1013	13.613	23.12	2.956	5.63	7.17	43.0	—	5/10 @	30.03
1021	13.667	24.18	2.496	5.30	7.28	34.6	8.15		0.97
1032	13.669	24.34	1.975	5.22	7.41	26.6	7.71		0.10
1040	13.628	24.42	1.814	5.06	7.46	12.1	7.70		0.15
1046	13.653	24.61	1.669	5.16	7.52	12.7	7.97		0.21
1051	13.650	23.73	1.570	5.29	7.54	13.1	6.18		0.27
1056	13.637	23.30	1.521	5.21	7.55	13.4	7.09		0.33
1101	13.633	23.32	1.516	4.80	7.58	13.5	6.14		0.40
1107	13.629	23.51	1.371	4.99	7.61	13.2	0.0		0.36
1112	13.622	23.43	1.363	5.04	7.61	13.7	0.0		0.55
1117	13.615	23.37	1.321	5.09	7.61	13.3	0.0	↓	0.60
1119		SAMPLE SAMPLE AT 1120				TIME			
1200		SAMPLE COLLECTED							
1220		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	5
flow meter	—
turbidity meter	2007042713

NOTES AND OBSERVATIONS: Total volume purged 0.15 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW-42-78
SAMPLE ID: GW3

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sun + Clouds 70 95°

PROJECT NO: 01.0017869.92
DATE: 8/5/09
SAMPLER(S): BMB

WATER COLUMN HEIGHT (ft)

78 (DTB) - 33.24 (DTW) = 44.76 ft (Water Column Height)

Well Diameter: 1 in

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 44.76 x 0.041 (Multiplier) = 1.84 gal (Well Volume)

1.84 x 1.5 = 2.76 gal (Designed Purge Volume)

TOTAL VOLUME PURGED: 2.5 gal

WATER QUALITY: DTW = GW Elevation

Time	Volume Purged (gal)	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Notes
1211	0	FLOW	14.6						
1214	0.05		14.70	2.362	7.01	7.34	139.4	-	
1217	0.30	-	15.19	2.313	5.37	7.26	101.8	64.9	
1219	0.60	-	15.17	2.390	4.73	7.12	146.7	20.3	
1222	0.90	-	15.29	2.397	4.60	7.05	131.2	275.2	
1225	1.20	-	15.24	2.355	4.31	7.04	51.7	295.7	
1227	1.35	-	15.02	2.350	4.24	7.03	124.1	284.3	
1229	1.85	-	15.71	2.362	4.10	7.02	123.4	266.5	
1231	2.10	-	15.79	2.367	3.98	7.04	119.1	222.3	
1233	2.40	-	15.93	2.360	4.04	7.05	117.3	212.4	
1235	2.70	-	15.91	2.352	3.96	7.03	116.4	200.5	
1236		START PURGING WELL AT 1235							
1240		SAMPLE COLLECTED @ 1240							
1240		FLOW CEASED							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
turbidity meter	2100P/1294

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-89-2
SAMPLE ID: 017

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, 70's

PROJECT NO: 01.0017869.92
DATE: 8/7/09
SAMPLER(S): CB/MS
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 13.93 Transducer Actual Depth ~~11.55~~ 10.752

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes (gal)
0910	10.717	PUMP ON							0
0924	10.721	21.70	2.120	2.99	7.01	152.6	—	>1	0.6
0936		21.58	2.166	0.87	7.21	143.3	3.13		0.9
0945		21.66	2.171	0.69	7.24	141.6	4.44		1.2
0955		21.74	2.151	0.52	7.25	140.5	6.32		1.8
1002		21.76	2.190	0.43	7.26	139.6	3.42		1.1
1005		21.77	2.192	0.42	7.26	139.3	6.09		1.2
1010		21.78	2.194	0.54	7.27	138.6	5.58		1.3
1015		21.79	2.196	0.51	7.27	137.9	0.00		1.7
1020		21.84	2.196	0.50	7.27	136.8	3.00		1.5
1025		21.89	2.195	0.49	7.27	136.1	0.00	✓	1.6
1023		PUMP OFF							
1019		START SAMPLE COLLECTION							
1020		COMPLETED SAMPLE COLLECTION							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	3
flow meter	3
turbidity meter	2007C1254

NOTES AND OBSERVATIONS: Total volume purged 18 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-92
SAMPLE ID: DUP

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, 70's

PROJECT NO: 01.0017869.92
DATE: 8/7/09
SAMPLER(S): CP/MB
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 13.64 Transducer Actual Depth 13.440

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes (gal)
0916	13.406	PUMP ON							0
0924	13.366	21.01	2.065	2.11	7.01	220.5	—	1.5	0.01
0930	13.410	21.88	2.080	0.59	7.10	182.8	3.53		0.4
0935	13.441	21.87	2.081	0.43	7.12	169.4	4.06		0.6
0955	13.490	21.89	2.080	0.40	7.14	127.1	3.05		1.05
1006	13.547	21.88	2.082	0.36	7.15	102.4	4.58		1.25
1005	13.580	21.91	2.082	0.32	7.16	92.0	3.70		1.35
1010	13.588	21.91	2.082	0.32	7.16	88.9	3.55		1.45
1015	13.613	21.90	2.082	0.28	7.16	75.2	0.37		1.55
1020	13.652	21.91	2.082	0.27	7.17	69.2	0.00		1.70
1025	13.679	21.94	2.081	0.25	7.17	59.6	0.00		2.0
1030	13.724	21.96	2.081	0.24	7.17	59.1	0.00	↓	2.15
1035	PUMP	OFF							
1040	START	SAMPLE COLLECTION							
1055	COMPLETE	ON SAMPLE COLLECTION					IPEC		

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	5
flow meter	KC
turbidity meter	10012354

NOTES AND OBSERVATIONS: Total volume purged 2.35 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl

WELL ID: MW-4(-65)
SAMPLE ID: 017

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, 70's

PROJECT NO: 01.0017869.92
DATE: 8/7/09
SAMPLER(S): CS/MK
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 13.57 Transducer Actual Depth 12.298

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes (gal)
0956	12.335	Pump ON							0
0955	12.441	21.37	1.865	6.16	7.57	187.4	—	~.05	0.01
1002	12.466	21.95	1.866	10.50	7.56	166.7	6.47		0.02
1005	12.473	21.53	1.864	6.41	7.57	163.4	5.00		0.03
1010	12.483	21.66	1.865	5.91	7.58	157.8	1.89		0.07
1015	12.494	21.96	1.869	5.55	7.57	153.6	1.48		0.1
1020	12.506	22.00	1.865	5.42	7.56	151.9	4.40		0.2
1025	12.521	22.08	1.871	5.31	7.56	149.5	3.44		0.3
1030	12.605	22.32	1.877	5.49	7.58	152.1	3.54		0.35
1040	12.661	22.46	1.887	4.91	7.57	146.4	4.86		0.4
1050	12.719	22.50	1.896	4.80	7.56	144.6	3.91		0.45
1056	12.851	22.59	1.897	4.79	7.56	144.4	3.29		0.50
1105	12.876	22.63	1.898	4.80	7.61	146.3	2.96		0.55
1110	12.901	22.72	1.897	4.19	7.57	142.4	0.29		0.6
1115	12.907	22.85	1.898	4.15	7.57	145.3	0.00		0.65
1120	12.955	22.86	1.899	4.12	7.56	144.8	0.20		0.7
1125	12.958	22.86	1.900	4.10	7.56	144.6	0.00	↓	0.75
1126	Pump OFF								
1127	START SAMPLE COLLECTION								
1248	COMPLETED SAMPLE COLLECTION					IPEC			

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
flow meter	2
turbidity meter	3020120514

NOTES AND OBSERVATIONS: Total volume purged 0.75 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-50 GG
SAMPLE ID: 023

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: sunny 70's

PROJECT NO: 01.0017869.92
DATE: 8/7/14
SAMPLER(S): CB MG
PUMP DEPTH: 60 ft

WATER QUALITY: DTW = 10.42 GW Elevation 337.33 ACTUAL DEPTH = 83.96' @ 1033

Time	DTW or GW Elevation ACTUAL DEPTH	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
1149	39.193		0 PUMP ON						
1158	38.215	24.63	2.212	.29	7.17	124.3	-	0.2	
1217	39.05	24.40	2.264	1.32	7.15	102.3			
1223	39.124	24.24	2.257	0.90	7.15	94.1	8.91		0.02
1229	39.17	23.79	2.276	0.74	7.16	87.8	7.63		0.03
1236	38.827	24.49	2.284	1.10	7.18	78.7	7.24		0.06
1243	38.342	24.42	2.247	1.08	7.19	73.0	7.39		0.1
1253	38.999	24.32	2.301	1.03	7.15	72.3	7.30		0.14
1309	37.13	24.52	2.312	1.06	7.19	71.2	7.26		0.16
1320		START SAMPLE COLLECTION							
1602		SAMPLE COMPLETED				2.4	2.86		
		P.M. OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	5
flow meter	61
turbidity meter	2010104293

NOTES AND OBSERVATIONS: Total volume purged 0.3 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

MW-50-42
WELL ID:
SAMPLE ID: GW8

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 70's

PROJECT NO: 01.0017869.92
DATE: 9/7/09
SAMPLER(S): CB, MB
PUMP DEPTH: 27 ft

WATER QUALITY: DTW = 7.30 Transducer Actual Depth 33.73

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
	33.27								
1144	7.76		PUMP ON					0.5	
1203	7.79	24.59	1.286	2.30	7.84	127.1	—		
1217	7.78	25.31	1.279	1.96	5.14	86.3			
1223	7.78	25.57	1.301	0.68	4.20	84.3	8.53		0.2
1229	7.76	25.61	1.302	0.56	4.26	83.2	8.69		0.3
1235	7.76	25.73	1.303	0.49	3.30	84.8	5.27		0.5
1243	7.76	25.54	1.303	0.50	3.31	85.4	3.20		0.6
1249	7.76	25.81	1.304	0.43	3.30	86.2	3.27	↓	0.7
1270	STAR	SAMPLE	COLLECTED						
1313	SAMPLE	SAMPLE	ID:	2		TPH			
	PUMP	OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	3
flow meter	K1 #1
turbidity meter	2007E4243

NOTES AND OBSERVATIONS: Total volume purged 4.35 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW 30 - 69

SAMPLE ID: 030

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, 70's

PROJECT NO: 01.0017869.92
DATE: ~~3/5/09~~ 3/6/09
SAMPLER(S): CB / MB

SAMPLING INTERVAL (depth in ft below top of casing)

603 to 713

SAMPLING PORT

69

TOTAL VOLUME PURGED: 1.9 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
1110	0	PUMP ON						6/5	40
1113	0.4	26.18	1.502	12.25	7.15	170.2	—	5/7	46
1119	0.8	26.19	1.499	13.14	7.19	171.2	—	6/7	42
1125	1.4	26.34	1.491	13.13	7.14	170.3	—		
1130	1.85	26.37	1.485	12.39	8.02	171.6	—		
1135	2.4	26.22	1.486	10.15	8.03	172.4	—		
1140	1.0	26.12	1.493	12.34	8.01	176.4	—		
1145	1.2	25.91	1.459	10.10	8.05	171.3	—		
1150	1.4	25.96	1.449	9.15	8.03	171.6	—		
1155	1.5	25.92	1.449	9.12	8.04	172.0	—		
1200	1.7	25.81	1.448	9.10	8.04	171.7	—	↓	↓
1200	PUMP OFF								
1201	START SAMPLE COLLECTION								
1210	COMPLETED SAMPLE COLLECTION				2L SPLIT				

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	2
Turbidity meter	

NOTES AND OBSERVATIONS:

MW-30-84 (old)

WELL ID: MW 30 - 84

SAMPLE ID: 037

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy IPEC
SITE: Buchanan, NY
WEATHER: Sunny, 70's

PROJECT NO: 01.0017869.92
DATE: 8/6/09 8/7/09
SAMPLER(S): [illegible] [illegible]

SAMPLING INTERVAL (depth in ft below top of casing)

17.3 to 85.7

SAMPLING PORT

84

TOTAL VOLUME PURGED: 1.2 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1110	0	Pump ON						1/1	45
1119	0.01	26.54	1.0855	1.08	6.78	-22.1	—	1/1	42
1125	0.1	27.18	1.1050	0.91	6.97	-34.0	—	↓	↓
1130	0.25	27.17	1.1046	0.56	6.92	-37.0	—		
1135	0.4	27.16	1.1044	0.53	6.94	-35.3	—		
1140	0.55	27.15	1.1043	0.54	6.95	-35.5	—		
1145	0.5	26.95	1.1033	4.36	7.36	-15.5	—		
1150	0.6	26.65	1.1031	4.40	8.05	-20.5	—		
1155	0.7	26.63	1.1031	4.62	8.02	-23.1	—		
1200	0.8	26.60	1.1030	4.63	8.04	-24.8	—		
1205	1.0	26.60	1.1030	4.60	8.05	-27.3	—	↓	↓
1207	Pump	OFF							
1208	START	Sampling	valves	NSW					
1235	COMPLETE	TCO	Sample	collection	2 IPEC				

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	5
Turbidity meter	

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: 13 AD
SAMPLE ID: C21

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Scattered 90°

PROJECT NO: 01.0017869.92
DATE: 8/5/09
SAMPLER(S): CB, MB

WATER COLUMN HEIGHT (ft)

27.25 (DTB) − 9.93 (DTW) = 17.32 ft (Water Column Height)

Well Diameter: ____ in

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 17.32 x 0.653 (Multiplier) = 11.3 gal (Well Volume)

11.3 x 1.5 = 17 gal (Designed Purge Volume)

TOTAL VOLUME PURGED: ____ gal

WATER QUALITY: DTW = 9.93 Transducer Actual Depth 30.577 READING 4.572

Time	Volume Purged (gal)	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)	Notes
1202	0	PUMP		CAL							
1206	0.4		31.67	2.063	6.97	8.11	-134	762			
1214	0.3		31.83	2.045	1.22	8.70	-225	198			
1222	1.4+1 = 2.4		32.53	2.024	1.69	9.18	-282	8.3			
1232	1.0+1.3 = 3.5		32.84	2.039	1.92	9.19	-273	8.04			
1238	2.5+1 = 4.3		32.92	2.041	2.11	9.19	-256	1.27			
1246	2.5+2.5 = 6.0		32.99	2.041	2.14	9.19	-271	1.87			
1256	4.5+3 = 8.0		32.50	2.041	2.25	9.19	-305	6.40			
1306	5+3 = 8.3		32.16	2.041	2.32	9.19	-313	6.29			
1315	TOTAL	9.8		2 gal dup	Pump off		-1.7	water in hose			
1350		SAMPLE		SAMPLE							
1406		SAMPLE		SAMPLE DUP							
		PUMP	OFF								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	5
turbidity meter	20010293

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-55-3
SAMPLE ID: GIC

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: SUNNY HUMID, 80s

PROJECT NO: 01.0017869.92
DATE: 8/5/09
SAMPLER(S): C BENNER-E
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 9.40 Transducer Actual Depth 24.276 READING - 6.379

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
1034	24.297		PUMP	ON					
1043	24.134	22.50	1.163	2.74	7.29	46.7	TUR	1	0.01
1055		22.89	1.230	0.63	7.30	26.3	11.04		0.05
1105		22.74	1.303	0.49	7.32	24.6	8.65		0.5
1115		23.01	1.373	0.41	7.33	26.8	7.73		0.75
1125		23.90	1.417	0.36	7.34	25.7	5.28		1.0
1135		23.72	1.458	0.36	7.35	18.0	5.36		1.25
1145		24.18	1.542	0.32	7.33	20.3	4.63		1.35
1150		24.37	1.566	0.31	7.31	24.1	4.18		1.5
1155		24.91	1.571	0.29	7.31	33.6	3.04		1.65
1200		25.91	1.609	0.34	7.30	24.9	1.37		1.75
1210		27.49	1.631	0.38	7.31	40.0	4.50		1.85
1215		28.19	1.635	0.35	7.31	40.7	4.63		1.90
1220		28.24	1.637	0.37	7.31	68.7	4.14		1.95
1225		28.65	1.638	0.31	7.31	46.1	4.01		1.97
1230		28.75	1.640	0.31	7.31	59.8	4.02	V	1.98
1235		START	SAMPLE	COLLECTION					
1340		COMPLETED SAMPLE COLLECTION: 2L IPE							
1340		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	2
flow meter	KL
turbidity meter	20701254

NOTES AND OBSERVATIONS: Total volume purged 2.18 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-55-51
SAMPLE ID: 01

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, Humid, 80's

PROJECT NO: 01.0017869.92
DATE: 8/5/09
SAMPLER(S): C. BENNETT & Z.
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 9.00 Transducer Actual Depth 41.116 reading - 3.727

Time	DTW or (Actual Depth)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes (Gal.)
1034	41.311		PUMP ON						
1043	41.770	26.69	2.845	6.27	7.14	117.3	--		0.1
1055	41.780	25.70	2.748	3.24	7.25	106.1	11.64	0.5	0.5
1105	41.782	26.13	2.755	3.13	7.25	101.1	8.20		0.1
1115	41.786	26.06	2.751	3.17	7.30	93.3	9.37		0.2
1125	41.792	26.31	2.759	3.12	7.31	97.2	8.40		0.4
1135	41.798	26.37	2.765	3.06	7.32	96.6	1.56		0.6
1145	41.738	26.38	2.763	3.10	7.32	94.3	5.34		0.8
1150	41.802	26.75	2.762	3.15	7.33	92.9	4.41		1.0
1155	41.813	27.12	2.756	3.05	7.32	90.5	4.58		1.1
1200	41.813	27.55	2.758	3.36	7.35	86.5	3.44		1.2
1210	41.827	28.81	2.761	3.18	7.35	83.4	2.79		1.3
1215	41.827	29.40	2.769	3.14	7.35	82.3	1.54		1.4
1220	41.829	29.69	2.771	3.16	7.34	82.2	1.14		1.4
1225	41.831	29.80	2.774	3.18	7.36	83.1	0.91		1.5
1230	41.807	30.03	2.774	3.19	7.37	84.6	0.87		1.5
1235	41.823	29.31	2.799	2.98	7.38	90.4	0.78		1.6
1240	START	SAMPLE COLLECTION							
1325	COMPLETED	SAMPLE COLLECTION W/ IPEC							
1325	PUMP	OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
flow meter	2
turbidity meter	10070254

NOTES AND OBSERVATIONS: Total volume purged 18 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW 55-24
SAMPLE ID: 011

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: SUNNY, HUMID, 80's

PROJECT NO: 01.0017869.92
DATE: 8/5/09
SAMPLER(S): C BEAUMONT
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 4.00 Transducer Actual Depth 6.794 READING 8.747

Time	DTW or (Actual Depth)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
1034	6.774		PUMP	ON					
1043	6.617	26.82	0.482		7.81	69.2	—	0.5	0.01
1055	6.676	25.66	0.739	2.96	8.08	23.1	—		0.01
1105	6.673	32.35	0.978	1.17	8.21	29.5	7.25		0.04
1115	6.678	31.57	1.012	1.23	8.32	30.4	4.06		0.02
1125	6.777	32.76	1.034	1.13	8.39	31.5	2.96		0.03
1135	6.409	31.20	1.110	1.53	8.47	31.4	4.91		0.1
1145	6.450	27.31	1.106	0.16	8.45	31.0	2.02		0.2
1150	6.471	27.42	1.102	0.52	8.42	27.5	4.14		0.3
1155	6.423	27.37	1.174	0.12	8.41	25.4	4.53		0.4
1200	6.334	27.71	1.177	0.62	8.42	30.3	4.49		0.5
1210	6.314	28.39	1.134	0.58	8.43	30.5	4.24		0.6
1215	6.276	28.66	1.134	0.53	8.44	29.5	4.30		0.7
1220	START SAMPLE COLLECTION								
1352	COMPLETED SAMPLE COLLECTION				26.41				

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
flow meter	1
turbidity meter	20070254

NOTES AND OBSERVATIONS: Total volume purged 0.9 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW-36-52
SAMPLE ID: 014

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Mostly sunny high 80's

PROJECT NO: 01.0017869.92
DATE: 8/4/09
SAMPLER(S): CB, MB

WATER COLUMN HEIGHT (ft)

52 (DTB) − 4.27 (DTW) = 47.73 (Water Column Height) ft

Well Diameter: _____ in

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 47.73 x 0.041 (Multiplier) = 1.95 (Well Volume) gal

1.95 x 1.5 = 2.93 gal (Designed Purge Volume)

TOTAL VOLUME PURGED: 3.15 gal

WATER QUALITY: DTW = Transducer Actual Depth

Time	Volume Purged (gal)	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)	Notes
1111	0	PUMP	ON								
1115	0.05	—	26.90	1.267	3.50	6.86	54.7	—	—	—	
1118	0.15	—	25.49	1.460	3.26	6.86	-16.4	75.61	—	—	
1121	0.60	—	24.06	1.511	3.13	6.86	-35.2	178.0	—	—	
1124	0.80	—	23.90	1.500	2.42	6.90	-35.5	343.2	—	—	
1126	1.0	~~Well dry~~	Stop pump water stopped reaching the surface.								
		Lower tubing to 1 foot above bottom of well									
1128		Pump on									
1130	1.25	—	23.99	1.452	2.90	7.03	-27.3	452.1	—	—	
1134	1.60		23.62	1.476	4.80	6.97	-39.0	472.8			
1135		Pump off.	Foot valve clogged. Pull out tubing and clean valve.								
1146	2.30	Pump on									
1150	2.60	—	24.49	1.463	3.30	7.08	-16.3	418.6			
1152	2.90	—	24.83	1.478	2.57	7.06	-11.1	765.4			
1153	3.00	—	PUMP OFF								
1154			START SAMPLE COLLECTION								
1202			SAMPLE COMPLETED. 2 L IPEC								
			PUMP OFF.								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	2
turbidity meter	20070254

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW 36-41
SAMPLE ID: 609

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Mostly sunny, upper 80's

PROJECT NO: 01.0017869.92
DATE: 8/4/09
SAMPLER(S): CB, MB

WATER COLUMN HEIGHT (ft)

41 (DTB) - 4.22 (DTW) = 36.78 ft (Water Column Height)

Well Diameter: _____ in

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 36.78 x 0.041 (Multiplier) = 1.50 (Well Volume) gal

1.50 x 1.5 = 2.26 gal (Designed Purge Volume)

TOTAL VOLUME PURGED: 2.30 gal

WATER QUALITY: DTW = GW Elevation

Time	Volume Purged (gal)	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Notes
1257	0	PUMP ON							
1301	0.1		25.68	1.916	0.17	7.23	57.7	24.95	
1303	0.5	—	25.35	1.830	0.29	7.38	30.4	33.21	
1306	0.8	—	25.67	1.447	0.19	7.50	-52.0	141.4	
1310	1.0	—	25.80	1.433	0.19	7.51	-13.2	183.9	
1314	1.1	—	26.00	1.500	0.23	7.47	-6.7	119.3	
1318	1.3	—	26.04	1.771	0.27	7.37	+15.0	204.4	
1323	1.45	—	25.92	1.787	0.69	7.36	26.5	257.3	
1330	1.60	—	25.80	1.801	1.09	7.36	30.1	84.64	
1342	1.80	—	25.52	1.818	1.66	7.35	35.2	17.17	
1350	1.90	—	25.39	1.819	1.72	7.35	36.9	12.31	
1355	1.95	—	25.30	1.818	1.73	7.34	36.6	14.08	
1400	2.05	—	25.28	1.816	1.71	7.34	35.7	14.78	
1405	2.15		25.27	1.815	1.87	7.34	36.4	15.09	
1406		START SAMPLE COLLECTION							
1429		SAMPLE COMPLETED: 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	2
turbidity meter	2007C1254

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-36
SAMPLE ID: 015

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Mostly sunny upper 80's

PROJECT NO: 01.0017869.92
DATE: 08/04/09
SAMPLER(S): CB, MB
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 4.35 GW Elevation 131.41 ACTUAL DEPTH = 41.453 @ 1049

Time	~~ACTUAL DTW or~~ GW Elevation DEPTH	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Purged (gal) Notes
1433	41.433		PUMP ON						0
1439	41.431	28.43	1.182	0.73	7.83	30.0	4.54		0.05
1440	41.431	PUMP OFF							
1524	41.421	PUMP ON						2	0.15
1530	41.420	28.61	1.279	0.41	7.96	47.7	4.60	↓	0.25
1538	41.422	28.79	1.286	0.22	7.97	48.1	3.87	↓	0.60
1543	41.420	28.81	1.287	0.24	7.97	48.7	4.39	↓	0.75
1548	41.420	28.83	1.287	0.25	7.97	48.3	4.22	↓	0.85
1553	41.420	28.85	1.287	0.23	7.98	49.1	4.40	↓	1.0
1554		START SAMPLE COLLECTION							
1609		SAMPLE COMPLETED : 2 L. IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	2
flow meter	20070125 4
turbidity meter	

NOTES AND OBSERVATIONS: Total volume purged 1.15 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW 34 - 19D

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, WARM, SCs

PROJECT NO: 01.0017869.92
DATE: 3/4/09
SAMPLER(S): GLM/B

SAMPLING INTERVAL (depth in ft below top of casing)

185.0 to 203.6

SAMPLING PORT

190

TOTAL VOLUME PURGED: 2.5 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
0958	0	PUMP ON						3/4	40
1001	0.01	23.13	1.918	4.46	6.64	-46.6	—		
1010	0.09	21.51	1.909	0.61	6.54	-65.0	2.70		
1020	1.0	22.00	1.836	0.33	7.15	-68.7	2.04		
1030	1.5	21.77	1.915	0.27	7.31	-66.7	1.67		
1035	1.75	21.67	1.918	0.53	7.33	-60.0	2.35		
1040	2.0	21.56	1.902	0.27	7.36	-58.3	2.17		
1045	2.1	21.48	1.901	0.25	7.37	-58.7	1.43		
1050	2.25	21.41	1.901	0.24	7.39	-57.6	1.40		
1055	2.35	21.35	1.901	0.21	7.40	-56.6	1.39	"	"
1003		PUMP OFF							
1004		START SAMPLE COLLECTION.							
1120		COMPLETED SAMPLE COLLECTION 2L IPEC							

Equipment Used	Equipment Identification #
556 MPS Reader and 5563 Sonde	6
idity meter	20070422/3

NOTES AND OBSERVATIONS:

WELL ID: MW 54 - 173

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Entergy - IPEC
TE: Buchanan, NY
EATHER: Sunny, warm, 80's

PROJECT NO: 01.0017569.92
DATE: 8/4/09
SAMPLER(S): LB/MB

AMPLING INTERVAL (depth in ft below top of casing)

170.5 to 182.0

AMPLING PORT

173 2

TOTAL VOLUME PURGED: 2.7 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
0955	0	Pump ON						3/4	40
1001	0.21	22.83	1.835	1.55	6.03	96.6	—	↓	↓
1010	0.80	22.15	1.864	0.16	6.17	-57.2	2.46		
1020	1.0	21.74	1.862	0.13	6.00	-27.5	2.37		
1030	1.5	21.51	1.857	0.08	6.78	-6.9	2.60		
1035	1.75	21.38	1.855	0.09	6.85	-9.7	3.14		
1040	2.0	21.28	1.854	0.07	6.91	-10.3	3.13		
1045	2.25	21.20	1.853	0.07	6.93	-16.4	3.56		
1050	2.3	21.13	1.853	0.06	6.97	-20.1	3.46		
1055	2.5	21.05	1.851	0.06	6.99	-20.6	3.54	↓	↓
1003		Pump OFF							
1004		START SAMPLE COLLECTION							
1115		COMPLETED SAMPLE COLLECTION - 2L				IPEC			

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	5
bidity meter	20070393

TES AND OBSERVATIONS:

WELL ID: MW 31 - 179

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Entergy - IPEC
TE: Buchanan, NY
EATHER: SUNNY, WARM, 80's

PROJECT NO 01.0017869.92
DATE: 3/4/09
SAMPLER(S): CSMB

AMPLING INTERVAL (depth in ft below top of casing)

135.0 to 155.5

AMPLING PORT

179 3

TOTAL VOLUME PURGED: 2.7 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
0958	0	PUMP ON						5/4	40
1001	0.21	22.66	1.862	2.14	5.96	44.2	—		
1010	0.50	22.01	1.971	0.45	6.71	19.9	1.51		
1020	1.0	21.66	1.944	0.41	10.98	41.2	4.45		
1040	1.5	21.43	1.954	0.38	7.07	44.0	4.63		
1035	1.75	21.30	1.963	0.34	7.09	43.1	3.78		
1040	2.0	21.19	1.970	0.30	7.11	42.7	3.63		
1045	2.25	21.12	1.973	0.31	7.12	41.8	3.69		
1050	2.5	21.10	1.975	0.31	7.14	41.0	3.60	↓	↓
1055		PUMP OFF							
1056		START SAMPLE COLLECTION							
1110		COMPLETED SAMPLE COLLECTION. CL IPEC							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	1
idity meter	20010429 3

TES AND OBSERVATIONS:

WELL ID: MW 39 . 37

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: SUNNY, WARM, 90's

PROJECT NO: 01.0017869.92
DATE: 8/4/09
SAMPLER(S): CB/MR

SAMPLING INTERVAL (depth in ft below top of casing)
29.0 to 42.0

SAMPLING PORT
37 6

TOTAL VOLUME PURGED: 3.45 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pres (psi)
1310	0	PUMP ON						0/4	2.5
1312	0.01	22.60	2.194	1.30	6.90	-32.7			
1320	0.15	22.05	2.241	0.38	7.42	-71.3	4.86		
1330	1.25	21.87	2.247	0.31	7.44	-51.3	5.05		
1340	2.00	21.30	2.248	0.29	7.44	-42.6	3.95		
1345	2.25	21.77	2.248	0.17	7.44	-40.0	0.00		
1350	2.5	21.74	2.248	0.25	7.44	-38.5	0.00		
1355	3.45	21.71	2.24	0.12	7.44	-37.9	0.00		
1400		PUMP OFF							
1401		START SAMPLE COLLECTION							
1410		COMPLETED SAMPLE COLLECTION							

Equipment Used	Equipment Identification #
1556 MPS Reader and 556J Sonde	6
Turbidity meter	2007042293

NOTES AND OBSERVATIONS:

WELL ID: MW 57 - 58

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: SUNNY, WARM, 80's

PROJECT NO: 01.0017869.92
DATE: 3/4/09
SAMPLER(S): CB/MB

SAMPLING INTERVAL (depth in ft below top of casing)
51.5 to 64.0

SAMPLING PORT
58 5

TOTAL VOLUME PURGED: 3.1 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pres (psi)
1310	0	Pump ON						6/4	20
1312	0.01	22.82	1.790	1.60	6.66	-56.7	—		
1320	0.5	22.16	1.718	2.66	6.66	-66.1	6.58		
1330	1.0	21.92	1.760	0.16	6.84	-71.5	9.33		
1340	1.25	21.78	1.717	0.13	6.90	-65.6	6.14		
1345	1.50	21.77	1.743	0.12	6.92	-63.3	4.75		
1350	1.75	21.73	1.760	0.12	6.94	-57.1	5.11		
1355	2.25	21.68	1.778	0.12	6.95	-56.5	4.23		
1400	2.5	21.65	1.782	0.12	6.96	-55.9	3.87		
1405	2.6	21.67	1.792	0.12	6.96	-52.8	0.01		
1410	2.7	21.66	1.795	0.11	6.96	-52.7	0.00		
1415	2.8	21.67	1.798	0.11	6.97	-49.7	0.00		
1420	2.9	21.69	1.803	0.10	6.97	-48.9	0.00	V	V
1420		Pump OFF							
1421		START SAMPLE COLLECTION							
1430		COMPLETED SAMPLE COLLECTION							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	5
Turbidity meter	20070293

NOTES AND OBSERVATIONS:

WELL ID: MW SP - 123

SAMPLE ID: GW3

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, warm, 80's

PROJECT NO: 01.0017869.92
DATE: 5/14/09
SAMPLER(S): CB/MB

SAMPLING INTERVAL (depth in ft below top of casing)

116.0 to 126.0

SAMPLING PORT

123 4

TOTAL VOLUME PURGED: 1.8 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pres (psi)
1310	0	PUMP ON						6/4	20
1315	0.01	23.31	1.815	4.86	6.60	-32.5	—		
1320	0.05	22.13	1.817	0.32	6.14	-51.9	4.32		
1325	0.20	22.37	1.808	0.27	6.08	-76.8	4.48		
1340	1.00	22.41	1.805	0.19	6.94	-105.2	3.87		
1345	1.1	22.32	1.805	0.16	7.00	-106.8	2.73		
1350	1.2	22.29	1.805	0.19	7.03	102.2	2.56		
1355	1.25	22.21	1.805	0.16	7.06	-102.1	2.51		
1400	1.3	22.17	1.806	0.18	7.08	-102.6	2.47		
1405	1.4	22.18	1.806	0.15	7.08	-103.2	0.00		
1410	1.5	22.17	1.805	0.14	7.09	-103.6	0.00		
1415	1.6	22.16	1.805	0.13	7.10	-103.8	0.00		
1415		PUMP OFF							
1416		START SAMPLE COLLECTION							
1435		COMPLETED SAMPLE COLLECTION: 2L IPEC							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	1
Turbidity meter	2017040243

NOTES AND OBSERVATIONS:

WELL ID: MW 32 59

SAMPLE ID: 011

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 80's

PROJECT NO: 01.0017869.92
DATE: 8/3/09
SAMPLER(S): CS/MB

SAMPLING INTERVAL (depth in ft below top of casing)

283 to 613

SAMPLING PORT

59 6

TOTAL VOLUME PURGED: 7.20 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
1315	0	Pump ON						6/7	40
1315	0.01	20.24	1.051	3.24	6.72	36.5	———	1	
1325	1.0	20.35	1.065	2.61	6.38	32.5	7.20		
1332	1.5	20.37	1.061	2.66	7.17	32.7	10.88		
1340	2.0	20.37	1.062	2.60	7.53	31.7	12.31		
1346	2.5	Pump off control box battery died							
1355		Pump on new control box battery at 70%						6/7	40
1400	2.75	20.63	1.060	3.25	7.67	48.3	21.38		
1410	3.5	20.62	1.053	3.26	7.69	44.7	19.01		
1415	4.0	20.59	1.042	3.26	7.74	42.7	14.00		
1420	4.25	20.53	1.038	3.25	7.73	43.1	13.05		
1425	4.5	20.52	1.034	3.24	7.74	43.3	8.11		
1430	5.0	20.52	1.024	3.25	7.76	43.6	3.37		
1435	5.25	20.49	1.015	3.17	7.76	44.3	2.45		
1440	5.50	20.48	1.002	3.21	7.76	44.9	2.32		
1445	6.00	20.52	0.992	3.24	7.76	45.0	2.73		
1450	6.50	20.54	0.987	3.20	7.76	46.0	2.60		
1455	7.00	20.57	0.982	3.23	7.76	46.3	2.60		
1456		Pump off							
1457		START SAMPLE COLLECTION							
1504		Completed Sample collection 2L IPEC							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	5
udity meter	20104243

NOTES AND OBSERVATIONS:

WELL ID: MW 32 - 85

SAMPLE ID: 014

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, 80's

PROJECT NO: 01.0017869.92
DATE: 8/3/09
SAMPLER(S): CB/MB

SAMPLING INTERVAL (depth in ft below top of casing)

79.3 to 92.8

SAMPLING PORT

85 5

TOTAL VOLUME PURGED: 2.70 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
1310	0	PUMP ON						6/7	40
1320	0.01	21.03	1.712	3.90	6.73	-36.4	—		
1325	0.25	22.35	1.704	1.05	7.02	-32.8	7.40		
1332	0.85	22.16	1.673	0.77	7.05	-30.0	6.01		
1340	1.50	22.20	1.654	0.71	7.05	-35.6	9.83		
1345	2.15	22.09	1.675	0.96	7.06	-30.7		↓	↓
1352		PUMP OFF CONTROL BOX BATTERY DIED							
1355		PUMP ON NEW CONTROL BOX		BATTERY 100%				6/7	40
1400	0.9	22.37	1.705	1.05	7.08	-75.6	19.60		
1410	1.0	22.18	1.676	1.68	7.08	-63.3	7.90		
1415	1.25	22.33	1.619	2.31	7.17	-57.0	8.22		
1420	1.5	22.27	1.616	2.27	7.08	-55.8	5.08		
1425	1.75	22.20	1.687	2.65	7.08	-56.1	3.59		
1430	1.90	22.21	1.702	2.32	7.07	-51.6	0.03		
1435	2.05	22.15	1.712	2.19	7.07	-50.7	0.00		
1440	2.10	22.07	1.720	2.01	7.07	-48.1	0.00		
1445	2.25	22.08	1.725	1.95	7.07	-48.7	0.00		
1460	2.50	22.13	1.725	1.87	7.07	-49.1	0.00	↓	↓
1463		PUMP OFF							
1464		START SAMPLE COLLECTION							
1520		COMPLETED SAMPLE COLLECTION - 26 BTLS							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	1
Turbidity meter	20270429

NOTES AND OBSERVATIONS:

WELL ID: MW 32 - 14S

SAMPLE ID: 012

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Entergy - IPEC
TE: Buchanan, NY
EATHER: Mostly sunny SOS

PROJECT NO: 01.0017869.92
DATE: 8/3/09
SAMPLER(S): CB, MB

AMPLING INTERVAL (depth in ft below top of casing)

14.73 to 15.63

AMPLING PORT

14 9

3

TOTAL VOLUME PURGED: 0.50 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
1045	0	PUMP	ON					12/9	52
1100	0.01	24.77	2.126	0.65	6.68	-239.8	—		
1110	0.05	24.16	2.005	0.25	6.60	-226.9	—		
1120	0.10	23.70	1.834	0.13	6.74	-255.3	—		
1130	0.15	23.64	1.783	0.10	6.78	-228.2	4.54		
1140	0.18	23.36	1.750	0.07	6.80	-238.1	6.50		
1150	0.20	23.24	1.730	0.08	6.81	-240.0	6.82		
1155	0.25	23.22	1.709	0.01	6.82	-246.1	6.94		
1200	0.30	23.18	1.705	0.07	6.82	-250.4	7.05	↓	↓
1204		PUMP OFF							
1204		START SAMPLE COLLECTION							
1243		SAMPLE COMPLETED: 2 L				ICEC			
		PUMP OFF							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	5
bidity meter	1100104293

TES AND OBSERVATIONS:

WELL ID: MW-32 - 173

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Entergy - IPEC
TE: Buchanan, NY
EATHER: Mostly sunny 80's

PROJECT NO: 01.0017869.92
DATE: 8/3/09
SAMPLER(S): CB, MB

AMPLING INTERVAL (depth in ft below top of casing)

165.8 to 174.3

AMPLING PORT

173 2

TOTAL VOLUME PURGED: 0.80 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
1045	0	PUMP ON						7.2/9	52
1100	0.01	23.65	1.822	0.90	6.57	-246.4	—		
1110	0.05	22.86	1.861	0.54	6.71	-236.5	—		
1120	0.20	22.67	1.864	0.30	6.71	-202.7	—		
1130	0.30	22.74	1.861	0.25	6.38	-181.0	5.90		
1140	0.35	22.39	1.855	0.17	6.86	-181.3	6.09		
1150	0.40	22.36	1.856	0.16	6.85	-180.2	6.40		
1155	0.50	22.37	1.852	0.15	6.80	-174.9	6.48		
1200	0.60	22.31	1.852	0.14	6.83	-171.4	6.51	↓	↓
1202		PUMP OFF							
1204		START SAMPLE COLLECTION							
1237		SAMPLE COMPLETED: 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	4
idity meter	20010429 3

TES AND OBSERVATIONS:

WELL ID: MW 32 190

SAMPLE ID: 013

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Mostly sunny 80's

PROJECT NO: 01.0017569.92
DATE: 8/3/09
SAMPLER(S): CB, MB

SAMPLING INTERVAL (depth in ft below top of casing)

180.3 to 193.9

SAMPLING PORT

190

TOTAL VOLUME PURGED: 0.95 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Presst (psi)
1045	0	PUMP ON						7 2/9	52
1100	0.01	25.27	1.186	7.75	6.96	-178.1	—		
1110	0.05	23.93	1.641	1.29	6.67	-184.7	—		
1120	0.10	23.67	1.631	0.39	6.88	-199.9	—		
1130	0.15	23.62	1.678	0.33	6.96	-198.0	6.34		
1140	0.18	23.40	1.677	0.26	7.02	-191.9	806		
1150	0.20	23.26	1.676	0.24	7.02	-191.7	901		
1155	0.23	23.40	1.674	0.24	7.03	-190.3	931		
1200	0.25	23.31	1.676	0.23	7.04	-189.5	945	↓	↓
1202		PUMP OFF							
1204		START SAMPLE COLLECTION							
1245		SAMPLE COMPLETED			2 L	IPEC			
		PUMP OFF							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	
Turbidity meter	20010 4293

NOTES AND OBSERVATIONS:

WELL ID: MW-43 6.2
SAMPLE ID: 012

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Heavy Rain SCs

PROJECT NO: 01.0017869.92
DATE: 1/31/09
SAMPLER(S): CB MB
PUMP DEPTH: 535 ft

WATER QUALITY: DTW = ~~31.491~~ 31.515 GW Elevation 31.491 ACTUAL DEPTH = 37.570

Time	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes (gal)
1016	37.575	PUMP ON							
1040	37.387	22.03	2.336	2.63	6.15	-47.9	—	0.5	0.01 6/12 @ 3
1050	37.205	20.92	2.856	1.29	6.71	-21.0	8.29		0.1
1100	36.985	19.65	2.817	0.66	6.71	16.3	6.85		0.3
1110	36.908	19.18	2.804	0.53	6.70	29.6	13.49		0.5
1125	37.229	19.86	2.785	0.12	6.15	40.9	21.57		0.75 6/12 @ 3
1135	37.229	20.62	2.787	1.20	6.31	41.4	21.18		0.80
1146	37.229	21.23	2.785	1.36	6.85	43.2	16.72		0.95
1153	37.329	21.39	2.775	0.84	6.86	48.0	9.06		1.05
1201	37.369	21.67	2.777	0.80	6.86	48.5	10.17		1.10
1206	37.399	21.95	2.779	0.82	6.86	49.1	8.37		1.12
1211	37.348	22.16	2.779	0.85	6.87	48.9	8.09		1.14
1216	37.328	22.13	2.773	0.89	6.87	48.8	8.18	↓	1.18
1217		START SAMPLE COLLECTION							
1252		SAMPLE COMPLETED				2 L	IPEC		
		PUMP OFF							
* NOTE									

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
flow meter	
turbidity meter	20070293

NOTES AND OBSERVATIONS: Total volume purged _____ gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

* MW-43 needs a soapy scrub up with initial bailer and manifold for each sampler.

WELL ID: MW-43-28
SAMPLE ID: C12

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Heavy Rain SCs

PROJECT NO: 01.0017869.92
DATE: 7/31/07
SAMPLER(S): CB MB
PUMP DEPTH: 25 ft

WATER QUALITY: DTW = 15.15 GW Elevation 32.84 ACTUAL DEPTH = 47.45

Time	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
1016	11.347	PUMP ON							
1030		PUMP OFF WHILE CHANGING TO MW-43-28 PUMP LOCATION							
1057	11.775	PUMP ON							6/E17
1110	11.639	22.53	4.735	3.55	6.80	163.9	3.29	0.2	0.21
1125	11.573	22.61	4.639	1.51	6.79	140.7	5.51		0.05
1135	11.555	22.15	4.605	1.41	6.80	113.5	3.50		0.03
1145	11530	22.84	4.573	1.21	6.82	98.5	3.00		0.1
1153	11514	22.93	4.550	1.21	6.80	83.6	3.65		0.12
1201	11503	23.09	4.531	1.26	6.80	81.5	4.11		0.15
1206	11501	23.20	4.524	1.18	6.81	76.0	4.06		0.18
1211	11483	23.42	4.515	1.15	6.81	72.0	4.15		0.20
1219	11453	23.80	4.503	1.05	6.82	66.8	3.99		0.25
1224	11451	23.85	4.499	1.02	6.82	65.5	4.10		0.28
1229	11444	23.93	4.495	1.01	6.82	64.6	4.05		0.30
1230		START SAMPLE COLLECTION							
1310		SAMPLE COMPLETED				2 L	IPEC		
1311		PUMP OFF							
* NOTE									

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
flow meter	
turbidity meter	2007042713

NOTES AND OBSERVATIONS: Total volume purged _____ gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Grounds ater Elevation measurements are given in feet msl.

* MW-43 made a set-up with control box for each location.

MW-44-66

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: ~~MW-44-67C~~
SAMPLE ID: 013

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy, humid 80's

PROJECT NO: 01.0017869.92
DATE: 7/29/09
SAMPLER(S): CB, MB

WATER COLUMN HEIGHT (ft)

67 (DTB) - 56.44 (DTW) = 10.56 (Water Column Height) ft

Well Diameter: 2 in

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 10.56 x 0.163 (Multiplier) = 1.72 (Well Volume) gal

1.72 x 1.5 = 2.58 (Designed Purge Volume) gal

TOTAL VOLUME PURGED: 1.72 gal

WATER QUALITY: DTW = 56.44 GW Elevation 36 611 ACTUAL DEPTH = 7.746

Time	Volume Purged (gal)	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Notes
1023	0	PUMP ON							
1032	0.01	7.369	21.31	2.605	7.39	6.02	66.8	—	6/6@45
1045	0.15	6.560	19.86	2.977	2.70	6.31	3.4	—	
1052	0.25	6.157	19.90	3.060	2.86	6.55	-3.1	10.62	
1100	0.40	5.691	19.78	3.096	3.03	6.71	-5.1	9.13	
1105	0.45	5.440	19.98	3.090	3.05	6.77	-5.2	5.61	
1110	0.50	5.245	19.92	3.095	3.23	6.81	-6.1	4.40	
1115	0.55	4.962	19.79	3.093	3.56	6.84	-4.06	4.73	
1120	0.60	4.770	19.74	3.085	3.44	6.85	-8.8	3.33	
1132	0.82	4.236	20.27	3.076	3.31	6.88	-9.3	6.06	
1135	0.90	4.127	20.31	3.077	3.31	6.89	-5.0	5.73	
1140	1.05	3.995	20.41	3.074	3.29	6.89	-4.5	4.45	
1145	1.10	3.753	20.33	3.071	3.34	6.89	-2.5	7.72	
1150	1.15	3.535	20.36	3.071	3.35	6.88	-1.1	7.66	
1155	1.25	3.305	19.87	3.083	3.41	6.88	-0.9	7.23	
1200	1.30	3.189	20.06	3.071	3.25	6.86	-0.8	6.92	
1205	1.50	2.987	20.00	3.077	3.20	6.86	6.5	12.34	
1210	1.60	2.665	19.95	3.081	3.18	6.86	8.9	14.91	Equipment Identification #
1215	1.65	2.515	19.95	3.084	3.14	6.86	9.8	15.66	
1220	1.70	2.305	19.91	3.090	3.08	6.86	11.6		

Equipment Used

YSI 556 MPS Reader and 5563 Sonde	5
turbidity meter	20070101254

1222 START SAMPLE COLLECTION

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

1250 COMPLETED SAMPLE COLLECTION AT IPEC

1250 PUMP OFF

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW-44-1
SAMPLE ID: 014

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: OVERCAST, HUMID, 80's

PROJECT NO: 01.0017869.92
DATE: 7/29/09
SAMPLER(S): CB/MB

WATER COLUMN HEIGHT (ft)

102 (DTB) − 56.44 (DTW) = 45.56 ft (Water Column Height)

Well Diameter: 1 in

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height: 45.56 x 0.041 (Multiplier) = 1.87 gal (Well Volume)

1.87 x 1.5 = 2.8 gal (Designed Purge Volume)

TOTAL VOLUME PURGED: 2.8 gal

WATER QUALITY: DTW = 56.44 GW Elevation 29.330 ACTUAL DEPTH = 34.870

Time	Volume Purged (gal)	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Notes
1108	0	PUMP ON							
1110	0.01		17.40	1.203	12.54	6.98	159.8	—	
1112		PUMP OFF - SILT CLOGGING TUBE							
1148	1.2	PUMP ON							
1152	1.7		20.08	1.441	34.9	7.28	162.5	71.67	
1155	2.2		19.71	1.403	40.0	7.10	191.9	189.6	
1201	2.7		19.47	1.462	48.2	7.08	215.4		
1203	START SAMPLE COLLECTION								
1208	COMPLETED SAMPLE COLLECTION - 2L IPEC								
1208	PUMP OFF								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	RENTAL S/N 01A01388
turbidity meter	200701254

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

1112 PUMP OFF DUE TO BUILD UP OF SILT IN TUBE

WELL ID: MW 63 - 50

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Mostly Sunny 50s

PROJECT NO: 0100017869.92
DATE: 7/30/09
SAMPLER(S): TB, MK

SAMPLING INTERVAL (depth in ft below top of casing)

41.5 to 58.0

SAMPLING PORT

90 7 7/8

TOTAL VOLUME PURGED: 2.65 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
1000	0	PUMP	ON					8/8	23
1004	0.1	19.94	1.284	0.26	6.89	-155.4	—		
1015	0.45	19.65	1.279	0.26	6.98	-140.4	4.50		
1025	1.0	19.26	1.277	0.25	7.11	-132.2	4.68		
1034	1.4	19.25	1.275	0.22	7.17	-132.7	4.66		
1039	1.8	19.12	1.275	0.21	7.20	-156.1	4.45		
1044	2.1	19.12	1.275	0.21	7.22	-151.0	0.0		
1049	2.3	19.08	1.276	0.21	7.22	151.3	0.0		
1054	2.5	19.04	1.276	0.20	7.22	151.6	0.0	↓	↓
1055		PUMP	OFF						
1056		START	SAMPLE COLLECTION						
1105		SAMPLE COMPLETED : 2 L EPEC							
		PUMP	OFF						

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	5
udity meter	2c0704293

NOTES AND OBSERVATIONS:

WELL ID: MW 03-93

SAMPLE ID: ~~010~~ 011

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Mostly sunny, 80's

PROJECT NO: 01.0017869.92
DATE: 7/30/09
SAMPLER(S): CB/MB

SAMPLING INTERVAL (depth in ft below top of casing)
81.5 to ~~55.8~~ 100.5

SAMPLING PORT
50 5

TOTAL VOLUME PURGED: 2.15 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1000	0	PUMP	ON					3/8	23
1009	0.01	20.84	1.487	0.57	7.45	-105.4	—		
1015	0.2	21.09	1.496	0.42	7.43	-65.6	—		
1025	0.4	20.78	1.502	0.34	7.43	-40.1	4.60		
1034	0.8	20.60	1.503	0.32	7.45	-38.8	4.45		
1039	~~1.0~~	20.54	1.504	0.31	7.47	-37.3	4.28		
1044	1.15	20.58	1.503	0.28	7.48	-30.0	0.91		
1050	1.35	20.19	1.504	0.27	7.47	-31.7	1.53		
1055	1.45	20.17	1.504	0.26	7.46	-32.6	1.49		
1100	1.70	20.15	1.503	0.27	7.48	-33.2	1.54		
1107	2.00	20.13	1.502	0.25	7.49	-34.5	1.56	↓	↓
1108		PUMP	OFF						
1109		START	SAMPLE COLLECTION						
1130		SAMPLE	COMPLETED		2	L IPEC			
1132		PUMP	OFF						

Equipment Used	Equipment Identification #
1526 MPS Reader and 5563 Sonde	6
bidity meter	2001042 93

NOTES AND OBSERVATIONS:

WELL ID: MW 03 - 17M

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Energy - IPEC
TE: Buchanan, NY
EATHER: Scattered clouds 30's

PROJECT NO: 01.0017869.92
DATE: 7/30/09
SAMPLER(S): CB/MB

AMPLING INTERVAL (depth in ft below top of casing)

190.0 to 191.1

AMPLING PORT

17M

TOTAL VOLUME PURGED: 0.9 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
1147	0	PUMP ON						3/8	30
1158	0.05	21.21	0.977	0.64	7.94	-193.3	—		
1205	0.1	20.78	0.952	0.31	7.41	-153.8	1.84		
1213	0.2	20.50	0.948	0.31	7.34	-136.1	0.42		
1219	0.3	20.32	0.947	0.27	7.31	-123.5	0.07		
1225	0.4	20.25	0.948	0.26	7.32	-101.4	0.00		
1232	0.6	20.19	0.964	0.24	7.33	-106.3	0.00		
1237	0.7	20.23	0.966	0.23	7.34	-103.4	0.00		
1238		PUMP OFF							
1239		START SAMPLE COLLECTION							
1305		COMPLETED SAMPLE COLLECTION: 2L 2HR							
1305		PUMP OFF							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	2
idity meter	20070493

TES AND OBSERVATIONS:

WELL ID: MW 63 - 165

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Entergy - IPEC
TE: Buchanan, NY
EATHER: Sun + Clouds 80's

PROJECT NO: 01.0017869.92
DATE: 7/30/01
SAMPLER(S): CMM

AMPLING INTERVAL (depth in ft below top of casing)

150.5 to 165

AMPLING PORT

163 2

TOTAL VOLUME PURGED: 1.9 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
1147	0	PUMP ON						5/8	30
1158	0.05	21.21	0.925	24.21	7.40	-290.5	—		
1206	0.1	20.63	0.904	22.50	7.12	-248.5			
1214	0.2	20.50	0.902	21.56	7.04	-232.3	6.44		
1220	0.3	20.23	0.897	20.91	7.00	-232.7	4.99		
1226	0.4	20.26	0.899	20.30	7.01	-233.2	3.18		
1232	0.6	20.00	0.901	19.80	6.98	-222.0	4.45		
1242	0.9	19.30	0.903	18.94	7.01	-222.1	4.85		
1250	1.1	20.35	0.923	18.42	7.02	-226.5	3.51		
1255	1.2	20.30	0.917	18.22	6.99	-216.5	2.49		
1305	1.5	20.25	0.916	17.98	6.99	-215.3	2.21		
1310	1.7	20.67	0.918	17.67	6.99	-212.9	2.46		
1320		START SAMPLE COLLECTION							
1345		COMPLETED SAMPLE COLLECTION				-26.2KC			
1345		PUMP OFF							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	C:\AQ32\control
idity meter	3CC104293

TES AND OBSERVATIONS:

WELL ID: MW 63 - 121

SAMPLE ID: 01C

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Entergy - IPEC
TE: Buchanan, NY
EATHER: Sun + clouds 80°F

PROJECT NO: 01.0017969.92
DATE: 11/20/09
SAMPLER(S): CB/MB

AMPLING INTERVAL (depth in ft below top of casing)

113 to 1275

AMPLING PORT

121 3

TOTAL VOLUME PURGED: 30 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
1147	0	PUMP ON						8/8	30
1159	0.15	20.41	1.557	0.16	7.06	192.9	—		
1207	0.30	20.07	1.590	0.12	7.09	-105.3			
1214	0.40	19.86	1.598	0.12	7.11	-81.4	4.10		
1220	0.60	19.61	1.598	0.12	7.11	-80.3	3.59		
1226	0.85	19.66	1.595	0.11	7.12	-50.8	3.72		
1233	1.10	19.52	1.586	0.09	7.12	-68.3	2.81		
1243	1.50	19.71	1.585	0.09	7.13	-55.9	2.45		
1250	1.80	19.78	1.582	0.08	7.16	-23.3	0.20		
1255	1.90	19.63	.577	0.09	7.13	87.3	0.40		
1302	2.2	19.66	1.570	0.09	7.14	-71.6	0.20		
1310	2.3	19.64	1.567	0.11	7.14	-69.7	0.20		
1320	2.4	19.79	1.566	0.10	7.14	-64.0	0.00		
1325	2.5	20.21	1.566	0.09	7.15	-47.2	0.00		
1330	2.6	20.26	1.561	0.09	7.15	-51.1	0.00		
1335	2.7	20.24	1.557	0.10	7.16	-43.4	0.00		
1340	2.8	20.18	1.558	0.10	7.16	-46.9	0.00		
1341		PUMP OFF							
1342		START SAMPLE COLLECTION							
1403		SAMPLE COMPLETED		2 L	ICEC				
		PUMP OFF							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	5
idity meter	201 20412 13

TES AND OBSERVATIONS:

WELL ID: MW 63 - 112

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Mostly sunny, 80's

PROJECT NO: 01.0017869.92
DATE: 7/30/09
SAMPLER(S): SB/MB

SAMPLING INTERVAL (depth in ft below top of casing)

106.5 to 112.5

SAMPLING PORT

112 4

TOTAL VOLUME PURGED: 3.8 gal

PURGE RATE: variable (gal./ min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
1147	0	PUMP ON						8/8	35
1200	0.25	19.30	1.315	0.46	7.15	-18.9	—		
1208	0.50	19.12	1.369	0.38	7.17	-11.5			
1215	0.85	18.83	1.375	0.38	7.17	-8.9	0.90		
1221	1.1	18.79	1.377	0.39	7.17	-8.6	0.53		
1227	1.5	18.69	1.377	0.36	7.17	-7.2	0.00		
1233	1.9	18.15	1.373	0.34	7.17	-6.0	0.00		
1242	2.2	18.94	1.373	0.30	7.18	-1.0	0.86		
1250	2.4	18.83	1.373	0.26	7.19	1.2	0.00		
1255	2.3	18.78	1.372	0.25	7.19	1.9	0.20		
1303	2.5	18.84	1.373	0.23	7.19	0.8	0.00		
1310	2.8	18.87	1.376	0.26	7.20	1.7	Calk		
1320	3.1	19.07	1.377	0.24	7.20	1.2	0.00		
1325	3.3	19.11	1.378	0.25	7.20	1.0	0.00		
1335	3.8	19.10	1.380	0.24	7.20	1.4	0.00		
		START SAMPLE COLLECTION @							
1339		PUMP OFF							
1340		START SAMPLE DELIVERY							
1354		COMPLETED SAMPLE DELIVERY							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	3
Turbidity meter	2009IC412983

NOTES AND OBSERVATIONS:

WELL ID: MW-03-31
SAMPLE ID: 210

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: sunny, [illegible]

PROJECT NO: 01.0017869.92
DATE: 7/30/14
SAMPLER(S): CS/MB
PUMP DEPTH: 21.5 ft

WATER QUALITY: DTW = 11.54 GW Elevation 1.719 ACTUAL DEPTH 14.596

Time	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes (gal)
1001	14.548	PUMP ON							0
1005	14.334	27.73	1.465	1.22	7.14	-137.5	2.77		0.05
1010	14.235	29.76	1.470	0.92	7.32	-92.3	6.25		0.15
1015	14.155	30.32	1.472	0.83	7.31	-90.4	4.76		0.20
1020	14.112	29.30	1.483	0.81	7.35	-98.7	6.27		0.25
1025	14.081	29.03	1.481	0.79	7.35	-96.0	9.04		0.30
1030	14.054	28.77	1.472	0.84	7.34	-95.7	3.51		0.32
1035	14.017	28.74	1.473	0.83	7.34	-97.4	1.20		0.32
1120	13.911	26.21	1.471	0.82	7.31	-95.4	2.50		0.40
1125	13.907	28.69	1.468	0.81	7.34	-92.3	2.68		0.45
1130	STOP	SAMPLE COLLECTION							
1400	COMPLETED SAMPLE COLLECTION; 2L IPEC								
1410	POWER OFF								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	3
flow meter	KC
turbidity meter	2901/2354

NOTES AND OBSERVATIONS: Total volume purged 0.45 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-05-18
SAMPLE ID: 0707

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, Humid, 80's

PROJECT NO: 01.0017869.92
DATE: 7/30/09
SAMPLER(S): CB, MB
PUMP DEPTH: 14.9 ft

WATER QUALITY: DTW = 11.65 GW Elevation 1.409 ACTUAL DEPTH 5.794

Time	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes (cum)
1002	5.794	PUMP ON							0
1025	5.284	28.58	1.912	2.40	7.12	137.4	33.73		0.1
1040	5.401	29.32	1.857	0.95	7.18	164.7	16.77		0.4
1050	5.340	25.39	1.770	3.03	7.29	-177.3	14.21		0.30
1100	5.265	26.42	1.693	0.92	7.27	-179.4	10.47		0.40
1105	5.233	26.51	1.664	0.42	7.27	-179.1	6.55		0.50
1110	5.200	26.70	1.664	0.42	7.29	-181.9	7.29		0.60
1115	5.170	26.32	1.637	0.40	7.31	-182.3	5.33		0.70
1120	5.139	26.81	1.669	0.54	7.30	-179.7	7.52		0.80
1125	5.109	27.16	1.623	0.54	7.32	-179.3	6.56		0.90
1130	5.062	28.69	1.607	0.33	7.32	-170.1	8.85		1.0
1140	5.021	28.09	1.603	0.34	7.32	-175.6	6.50		1.1
1142	START	SAMPLE COLLECTION							
1426	COMPLETED SAMPLES WERE HAND DELIVERED TO IPEC								
1426	PUMP OFF								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
flow meter	2
turbidity meter	20010254

NOTES AND OBSERVATIONS: Total volume purged 1.3 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

MW-44-06
WELL ID: ~~MW-44-07~~
SAMPLE ID: 013

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy, humid 80's

PROJECT NO: 01.0017869.92
DATE: 7/29/09
SAMPLER(S): CB, MB

WATER COLUMN HEIGHT (ft)

20.7	-	5644	=	10.56 ft
DTB		DTW		Water Column Height

Well Diameter: 2 in

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 10.56 x 0.163 (Multiplier) = 1.72 gal (Well Volume)

1.72 x 1.5 = 2.58 gal (Designed Purge Volume)

TOTAL VOLUME PURGED: 1.72 gal

WATER QUALITY: DTW = 56.44 GW Elevation 36.611 ACTUAL DEPTH - 7.746

Time	Volume Purged (gal)	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Notes
1023	0	PUMP ON							
1032	0.01	7.369	21.31	2.605	7.39	6.02	66.8	—	6/6@45
1045	0.15	6.360	19.86	2.977	2.10	6.31	34	—	
1052	0.25	6.157	19.90	3.060	2.86	6.55	5.1	10.02	
1100	0.40	5.691	19.78	3.096	3.03	6.71	5.1	9.13	
1105	0.45	5.440	19.98	3.090	3.05	6.77	5.2	5.61	
1110	0.50	5.245	19.92	3.095	3.23	6.81	6.1	4.40	
1115	0.55	4.962	19.79	3.093	3.56	6.84	40.6	4.73	
1120	0.60	4.772	19.74	3.085	3.49	6.85	8.8	3.33	
1132	0.82	4.236	20.27	3.076	3.31	6.88	9.3	6.06	
1135	0.90	4.127	20.31	3.077	3.32	6.89	5.0	5.73	
1140	1.05	3.975	20.41	3.074	3.29	6.89	4.5	4.45	
1145	1.10	3.753	20.33	3.071	3.54	6.87	2.5	7.72	
1150	1.15	3.633	20.36	3.071	3.53	6.88	1.1	7.66	
1155	1.25	3.305	19.87	3.052	3.41	6.88	0.7	7.23	
1200	1.30	3.189	20.06	3.071	3.25	6.86	0.8	6.92	
1205	1.50	2.981	20.20	3.071	3.20	6.86	6.5	12.34	
1210	1.60	2.665	19.95	3.052	3.16	6.86	3.9	14.91	
1215	1.65	2.515	19.93	3.054	3.14	6.86	7.8		
1240	1.70	2.305	19.91	3.050	3.08	6.86	11.6		

Equipment Used

	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	5
turbidity meter	200701264

1222 START SAMPLE COLLECTION

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

1254 COMPLETED SAMPLE COLLECTION

1315 PUMP OFF

IPEC00224743

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW 44-102
SAMPLE ID: 014

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: overcast, humid, 80's

PROJECT NO: 01.0017869.92
DATE: 7/29/09
SAMPLER(S): SJ/AB

WATER COLUMN HEIGHT (ft)

Well Diameter: 1 in

102 (DTB)	−	56.44 (DTW)	=	45.56 (Water Column Height) ft

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height: 45.56 x 0.041 (Multiplier) = 1.87 (Well Volume) gal

1.87 x 1.5 = 2.8 (Designed Purge Volume) gal

TOTAL VOLUME PURGED: 2.3 gal

WATER QUALITY: DTW = 56.44 GW Elevation 29.356 ACTUAL DEPTH = 37.870

Time	Volume Purged (gal)	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Notes
1108	0	PUMP ON							
1110	0.21		17.40	1.203	12.54	6.98	152.8	—	
1112		PUMP OFF SET SAMPLING TUBE							
1143	1.2	PUMP ON							
1152	1.7		20.08	1.441	34.9	7.28	162.5	11.67	
1156	2.2		19.71	1.463	40.0	7.10	191.9	18.76	
1201	2.7		19.47	1.462	48.2	7.08	215.4		
1203	START SAMPLE COLLECTION								
1203	COMPLETED SAMPLE COLLECTION & IPEC								
1208	PUMP OFF								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	RENTAL (W SN#05158
turbidity meter	2001012547

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

1112 PUMP OFF DUE TO SURGE UP OF SILT IN TUBE

WELL ID: MW-60 21
SAMPLE ID: DUP

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: SUNNY, WARM, 80's, thin RD

PROJECT NO: 01.0017869.92
DATE: 7/28/09
SAMPLER(S): CBMB
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 12.10 GW Elevation 1118' ACTUAL DEPTH = ~~8.46~~ 8.340

Time	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
945	8.048	PUMP ON							
1005	8.018	22.77	1.782	0.48	7.18	149.0	--		0.1
1015	8.241	24.09	1.775	0.49	7.23	-131.9	7.41		0.13
1025	7.932	25.39	1.776	0.26	7.25	-135.3	7.82		0.17
1035	7.915	26.55	1.780	0.40	7.27	-142.5	13.31		0.19
1045	7.902	27.15	1.778	0.41	7.27	-131.9	16.94		0.21
1055	7.829	28.11	1.778	0.23	7.26	-141.2	76.39		0.25
1100	7.796	27.82	1.781	0.18	7.24	-145.1	48.32		0.30
1105	7.756	27.62	1.773	0.17	7.26	-145.0	32.58		0.34
1110	7.742	26.06	1.751	0.65	7.25	-146.9	19.61		0.35
1115	7.698	25.47	1.731	0.23	7.24	-148.3	13.59		0.40
1120	7.688	25.31	1.714	0.25	7.23	-146.5	7.49		0.45
1125	7.673	26.36	1.697	0.22	7.22	-144.5	6.15		0.47
1130	7.663	25.40	1.687	0.19	7.21	-140.5	3.85		0.50
1135	7.631	25.42	1.681	0.22	7.21	-131.5	2.98		0.52
1140	7.609	25.45	1.665	0.24	7.20	-119.5	2.17		0.55
1145	7.611	25.46	1.656	0.23	7.19	-122.0	2.21		0.60
1150	7.615	25.51	1.642	0.23	7.18	-115.7	1.95		0.65
1155	7.613	25.51	1.643	0.23	7.17	-113.0	1.78		0.7
1157	START SAMPLE COLLECTION								
~~1344~~ 1140	COMPLETED SAMPLE COLLECTION								1.24 FEET DOWN (NOT FOR PURGE)
~~1344~~ 1140	PUMP OFF								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
flow meter	3
turbidity meter	20307243

NOTES AND OBSERVATIONS: Total volume purged 2.7 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

* MURKY, BROWN & ORANGE WATER, SLIGHT HYDROCARBON ODOR, SHEEN PRESENT

WELL ID: MW-60-36
SAMPLE ID: DUP

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, warm, humid, SW

PROJECT NO: 01.0017869.92
DATE: 7/28/09
SAMPLER(S): CB/MG
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 12.12 GW ELEVATION 1496 Transducer Actual Depth 14.45

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
945	14.367	PUMP ON							
1005	14.162	26.42	2.730	5.66	1.46	40.0	—		0.01
1015	14.132	24.31	2.794	0.03	7.48	53.7	10.22		0.1
1025	14.084	25.05	2.793	0.34	7.50	72.4	7.16		0.2
1035	14.091	25.45	2.797	2.44	7.52	56.9	6.19		0.3
1045	14.013	24.69	2.361	0.35	7.54	93.6	6.30		0.4
1055	13.984	25.92	2.864	0.37	7.54	97.0	3.51		0.5
1100	13.966	25.76	2.906	0.33	7.55	101.8	2.34		0.55
1105	13.943	25.96	2.861	0.32	7.55	105.6	1.17		0.60
1110	13.923	25.79	2.811	0.34	7.55	108.4	1.08		0.65
1115	13.916	25.78	2.811	0.36	7.56	110.2	1.72		0.70
1120	13.904	25.84	2.809		7.55	109.2	1.79		0.75
1135	START SAMPLE COLLECTION								
1341	COMPLETED SAMPLE COLLECTION W/ 2L IPEC B						2L VOA	PC (NOT OBSERVED)	
1341	PUMP OFF								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	4
flow meter	2
turbidity meter	2007042273

NOTES AND OBSERVATIONS: Total volume purged 0.7 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW 67 - 340

SAMPLE ID: 009

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Entergy - IPEC
TE: Buchanan, NY
EATHER: Sunny, humid, 80's

PROJECT NO: 01.0017869.92
DATE: 7/28/09
SAMPLER(S): CB, MB

AMPLING INTERVAL (depth in ft below top of casing)

335.3 to 347.9

AMPLING PORT

340

TOTAL VOLUME PURGED: 2.35 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
928	0	PUMP	ON					6/6	47
946	0.5	19.43	0.801	0.88	7.01	-248.3	—	↓	↓
958	0.8	19.32	0.797	0.32	7.00	-260.0	11.12		
1011	1.4	19.80	0.798	0.19	6.98	-254.0	10.59		
1017	1.6	20.02	0.800	0.17	6.98	-251.1	7.44		
1026	2.0	20.04	0.802	0.15	6.97	-250.6	7.09		
1031	2.2	20.00	0.803	0.15	6.97	-247.8	7.34		
1032		PUMP OFF							
1035		START SAMPLE COLLECTION							
1120		SAMPLE COMPLETED:			2 L IPEC				
					2 L NRC (not observed)				
1120		PUMP OFF							

Equipment Used	Equipment Identification #
1556 MPS Reader and 556 3 Sonde	3
bidity meter	20070125 4

TES AND OBSERVATIONS:

WELL ID: MW 67 - 323

SAMPLE ID: 009

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Entergy - IPEC
TE: Buchanan, NY
EATHER: Sunny, humid 80's

PROJECT NO: 01.0017869.92
DATE: 7/28/09
SAMPLER(S): CB, MB

AMPLING INTERVAL (depth in ft below top of casing) 2
317.3 to 328.3

TOTAL VOLUME PURGED: 1.75 gal

PURGE RATE: variable (gal / min)

AMPLING PORT
323

PURGE METHOD: Double Valve Pump

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
928	0	PUMP ON						6/6	47
946	0.3	19.53	0.893	1.22	6.77	-246.3	—	↓	↓
958	0.6	19.52	0.881	0.40	6.80	-260.0			
1011	1.1	20.12	0.872	0.25	6.84	-272.1	9.56		
1017	1.2	20.24	0.871	0.20	6.85	-276.4	7.27		
1026	1.5	20.38	0.865	0.19	6.87	-280.1	7.20		
1031	1.6	20.33	0.862	0.18	6.87	-284.3	7.01	↓	↓
1032		PUMP OFF							
1038		START SAMPLE COLLECTION							
1125		SAMPLE COMPLETED:			2 L	IPEC			
					2 L	NRC (not observed)			
1125		PUMP OFF							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	1
bidity meter	20070254

OTES AND OBSERVATIONS:

WELL ID: MW 67-276

SAMPLE ID: 009

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, humid 80's

PROJECT NO: 01.0017869.92
DATE: 7/28/09
SAMPLER(S): CB, MB

SAMPLING INTERVAL (depth in ft below top of casing) 3
250.8 to 281.3

SAMPLING PORT
276

TOTAL VOLUME PURGED: 2 75 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
928	0	PUMP	ON					6/6	47
946	0 5	18 92	0.947	0.65	6.84	-92 7	---		
958	1 2	18 82	0943	0 20	6.92	-104 8			
1011	2 0	19.39	0.941	0 13	6 98	-109.6	10.76		
1017	2 2	19.43	0.942	0.10	6 98	-109.6	8.65		
1026	2.5	19.48	0943	0.11	6.99	-110 8	8.26		
1031	2 6	19.57	0942	0.10	6.98	-110.7	8 34		
1032		PUMP	OFF						
1038		START	SAMPLE	COLLECTION					
1114		SAMPLE	COMPLETED	: 2 L		IPEC			
					2 L	NFC	(not observed)		
1114		PUMP	OFF						

Equipment Used	Equipment Identification #
U-22 556 MPS Reader and 5563 Sonde	S
Turbidity meter	200710 1254

NOTES AND OBSERVATIONS:

WELL ID: MW 67 219

SAMPLE ID: 009

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Entergy - IPEC
TE: Buchanan, NY
EATHER: Sunny, humid 80's

PROJECT NO: 01.0017869.92
DATE: 7/28/09
SAMPLER(S): CB, MB

AMPLING INTERVAL (depth in ft below top of casing)
209 to 229.8

4

TOTAL VOLUME PURGED: 335 gal

PURGE RATE: variable (gal / min)

AMPLING PORT
219

PURGE METHOD: Double Valve Pump

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
928	0	PUMP ON						6/6	47
946	0.6	18.53	0.969	1.45	6.99	-134.3	—		
958	1.3	18.42	0.969	2.54	7.00	-126.3	—		
1011	2.1	18.97	0.984	2.78	7.01	-120.6	9.05		
1017	2.4	19.00	0.984	2.86	7.01	-119.4	7.83		
1026	2.6	18.96	0.985	2.84	7.00	-117.8	7.09		
1031	2.9	19.02	0.989	2.88	7.00	-115.4	7.00		
1039	3.2	19.06	0.986	2.81	7.00	-112.2	6.99		
1040		PUMP OFF							
1042		START SAMPLE COLLECTION							
1111		SAMPLE COMPLETED:			2 L	IPEC			
					2 L	NEC	(not observed)		
1111		PUMP OFF							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	01A0138 rental
bidity meter	20070125 4

OTES AND OBSERVATIONS:

WELL ID: MW 67 - 173

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Energy - IPEC
TE: Buchanan, NY
EATHER: Sunny, humid 80's

PROJECT NO. 01.0017869.92
DATE: 7/28/09
SAMPLER(S): CB, MB

AMPLING INTERVAL (depth in ft below top of casing)
164.8 to 188.3

AMPLING PORT
173

5 TOTAL VOLUME PURGED: 1.75 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1315	0	PUMP ON						8/8	22
1327	0.1	22.73	0.950	2.38	6.50	-241.0	—		
1335	0.4	22.39	0.970	0.03	6.40	-304.0	3.43		
1345	0.6	22.66	0.991	0.0	6.41	-288.4	1.24		
1403	1.0	21.68	0.964	0.0	6.42	-285.4	1.79		
1416	1.4	21.08	0.950	0.0	6.46	-300.2	1.0		
1421	1.5	21.18	0.951	0.0	6.48	-297.6	1.06		
1426	1.6	21.12	0.950	0.0	6.49	-295.4	1.12		
1428		PUMP OFF							
1429		START SAMPLE COLLECTION							
1524		SAMPLE COMPLETED			2	L IPEC			
					2	L NFX (not observed)			
		PUMP OFF							

Equipment Used	Equipment Identification #
I 556 MPS Reader and 5563 Sonde	01A0138 + cntrl
bidity meter	20070429 3

TES AND OBSERVATIONS:

WELL ID: MW 67 - 105

SAMPLE ID: 009

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

LIENT: Entergy - IPEC
TE: Buchanan, NY
EATHER: sunny, humid 80's

PROJECT NO: 01.0017869.92
DATE: 7/28/09
SAMPLER(S): CB, MB

AMPLING INTERVAL (depth in ft below top of casing)
90.3 to 110.8

6

TOTAL VOLUME PURGED: 3.15 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

AMPLING PORT
105

ATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1315	0	PUMP ON						8/8	22
1327	0.25	23.11	1.580	0.19	6.39	-228.0	—	1	↓
1335	0.70	22.90	1.587	0.10	6.62	-247.7	5.35		
1345	0.95	23.03	1.588	0.09	6.70	-240.4	4.48		
1403	1.75	22.03	1.582	0.06	6.73	-234.9	4.15		
1416	2.15	21.38	1.583	0.05	6.75	-228.8	2.74		
1421	2.30	21.44	1.579	0.05	6.73	-224.1	2.83		
1426	2.50	21.50	1.579	0.07	6.75	-220.0	2.69		
1435	3.0	21.39	1.580	0.07	6.78	-216.4	2.75	"	↓
1437		PUMP	OFF						
1439		START	SAMPLE COLLECTION						
1515		SAMPLE	COMPLETED		: 2 L	IPEC			
					2 L	NRC	(not observed)		
		PUMP	OFF						

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	5
bidity meter	20070 4293

OTES AND OBSERVATIONS:

WELL ID: MW 67 - 39

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny, humid 80's

PROJECT NO: 01.0017869.92
DATE: 7/28/09
SAMPLER(S): CB, MB

SAMPLING INTERVAL (depth in ft below top of casing) 7
28.8 to 54.3

SAMPLING PORT
39

TOTAL VOLUME PURGED: 355 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1315	0	PUMP ON						8/8	22
1327	0.4	21.70	2.012	0.71	7.37	-168	—	↓	↓
1335	1.0	21.37	1.994	0.56	7.72	-211.3	2.70		
1345	1.5	21.84	1.985	0.54	7.80	-200.4	1.40		
1403	2.5	20.91	2.004	0.73	7.80	-202.8	2.17		
1416	2.9	20.35	2.013	0.41	7.81	-209.1	1.49		
1421	3.1	20.41	2.006	0.39	7.80	-209.5	1.52		
1426	3.4	20.44	2.009	0.43	7.81	-210.2	1.44	↓	↓
1428		PUMP OFF							
1429		START SAMPLE COLLECTION							
1504		SAMPLE COMPLETED			: 2 L	IPEC			
					2 L	NRC	(not observed)		
1504		PUMP OFF							

Equipment Used	Equipment Identification #
1556 MPS Reader and 5563 Sonde	1
Turbidity meter	20070429

NOTES AND OBSERVATIONS:

WELL ID: MW 66 21
SAMPLE ID: _____

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sun + clouds, humid 80's

PROJECT NO: 01.0017869.92
DATE: 1/27/09
SAMPLER(S): CB, MB
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 12.63 GW Elevation = 0.710 ACTUAL DEPTH = 7.958 (estimated)

Time	DTW or GW Elevation ACTUAL DEPTH	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Cumulative Notes gal.
1109	7.840	0 gal PUMP	ON						
1120	7.800								0
1128	7.770								0
1136	7.722	23.72	1.084	6.30	6.74	-216.2	—		0.01
1148	7.750	24.29	2.029	0.33	6.83	-210.1	8.41		0.05
1158	7.736	24.61	1.957	0.23	6.90	-213.1	11.04		0.15
1206	7.730	25.03	1.928	0.22	6.93	-210.3	15.40		0.20
1213	7.794	25.37	1.912	0.19	6.95	-184.1	47.74		0.25
1220	7.860	25.31	1.904	0.18	6.96	191.8	37.47		0.30
1227	7.862	26.41	1.900	0.23	6.97	-182.2	31.15		0.35
1235	7.840	26.46	1.903	0.19	6.97	-177.2	30.26		0.40
1240	7.852	26.87	1.903	0.16	6.97	-165.7	16.67		0.12
1245	7.933	26.33	1.901	0.19	6.97	-212.9	14.03		0.45
1250	7.893	26.70	1.870	0.10	6.97	-212.1	12.70		0.47
1255	7.953	26.71	1.856	0.07	6.97	-214.8	14.05		0.49
1305	7.953	27.26	1.831	0.09	6.97	-216.2	14.02		0.50
1310	7.974	27.49	1.880	0.07	6.98	-216.1			0.55
1315	NRC UNAVAILABLE FOR SAMPLE				SAMPLE				

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	5
flow meter	K1 #2
turbidity meter	20670293

NOTES AND OBSERVATIONS: Total volume purged 0.7 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-66-36
SAMPLE ID: _____

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sun + clouds, humid 80's

PROJECT NO: 01.0017869.92
DATE: 6/27/17
SAMPLER(S): C.B., M.B.
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 12.24 GW Elevation 1031, ACTUAL DEPTH = 14.510 (@ 1017)

Time	DTW or GW Elevation DEPTH ACTUAL	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Purged (gal) Notes
1109	14.281	0	PUMP ON						
1120	14.302							0.5	0
1128	14.265								0
1136	14.291	23.48	2.754	1.14	7.60	-48.3	—		0.01
1148	14.337	23.35	2.721	0.50	7.60	58.4	7.00		0.1
1158	14.310	23.58	2.714	0.46	7.61	-51.8	4.91		0.2
1206	14.410	23.34	2.713	0.39	7.62	-66.3	5.03		0.3
1213	14.443	24.05	2.713	0.39	7.63	-70.1	5.06		0.35
1220	14.482	24.13	2.716	0.40	7.65	-78.7	4.46		0.40
1227	14.519	24.29	2.712	0.36	7.65	-66.6	5.46		0.45
1235	14.545	24.51	2.711	0.35	7.65	-77.6	3.25		0.50
1240	14.589	24.77	2.712	0.35	7.66	-75.4	3.06		0.55
1245	14.684	24.87	2.713	0.41	7.67	-76.6	1.80		0.60
1250	14.681	24.99	2.711	0.35	7.61	-74.9	2.18		0.65
1255	14.694	25.02	2.712	0.37	7.68	-82.4	1.75		0.67
1305	14.747	25.40	2.708	0.36	7.61	-85.3	1.72		0.75
1315	14.502	25.27	2.709	0.36	7.67	-87.0		↓	0.82
1315	NRC UNAVAILABLE FOR SAMPLING								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
flow meter	K I
turbidity meter	2007L4243

NOTES AND OBSERVATIONS: Total volume purged 0.75 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW 67 - 340

SAMPLE ID: 009

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sun + clouds, humid 80's

PROJECT NO: 01.0017869.92
DATE: 7/27/09
SAMPLER(S): CB, MB

SAMPLING INTERVAL (depth in ft below top of casing)

335.3 to 347.9

SAMPLING PORT

340

TOTAL VOLUME PURGED: 2.35 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
907	0	PUMP ON						6/6	47
916	0.15	20.21	0.793	1.10	7.18	-188.5	—		
925	0.25	19.90	0.731	6.07	6.16	230.8	2.13		
935	0.7	19.62	0.765	0.35	7.30	-226.9	1.65		
945	0.85	19.63	0.735	0.56	7.27	-222.6	2.18		
955	1.1	19.78	0.729	0.28	7.25	-220.7	2.13		
1010	1.7	20.14	0.760	0.25	7.26	-231.2	1.12		
1020	1.8	20.09	0.760	0.64	7.26	-227.3	1.97		
1025	1.9	20.13	0.760	0.23	7.26	-226.2	1.06		
1030	2.0	20.10	0.761	0.21	7.26	-224.9	1.05		
1035	2.2	20.11	0.762	0.20	7.27	-223.3	1.00	↓	↓
1043	PUMP OFF								
1312	N2C WITHDRAWN	CO2 SHUT DOWN							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
turbidity meter	2007012S4

NOTES AND OBSERVATIONS:

WELL ID: MW 67-323

SAMPLE ID: 009

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sun+clouds, humid 80's

PROJECT NO: 01.0017869.92
DATE: 7/27/09
SAMPLER(S): CB, MB

SAMPLING INTERVAL (depth in ft below top of casing)

317.8 to 328.3

SAMPLING PORT

323

2

TOTAL VOLUME PURGED: 2.05 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
907	0	PUMP ON						6/6	47
916	0.15	20.13	0.820	4.66	6.55	-182.3	—		
925	0.25	19.41	0.857	0.17	2.19	-42.7	3.29		
935	0.35	19.63	0.833	10.41	6.71	-310.4	1.98		
945	1.20	19.69	0.758	12.69	6.73	-318.8	2.65		
955	1.20	19.81	0.754	12.85	6.73	-318.1	2.09		
1010	1.60	20.15	0.770	12.50	6.72	-313.0	2.13		
1015	1.70	20.32	0.770	11.77	6.71	-302.4	2.08		
1035	1.75	20.19	0.776	10.96	6.71	-302.2	1.59		
1030	1.80	20.17	0.776	10.89	6.71	-302.5	1.69		
1035	1.90	20.23	0.767	9.76	6.71	-303.7	1.99		
1040	PUMP	OFF							
1315	NRL UNAVAILABLE FOR SPLIT SAMPLE								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	09A0133 rental
turbidity meter	2007C1254

NOTES AND OBSERVATIONS:

WELL ID: MW 67-276

SAMPLE ID: 009

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sun + clouds, humid 80's

PROJECT NO: 01.0017869.92
DATE: 7/27/09
SAMPLER(S): CB, MB

SAMPLING INTERVAL (depth in ft below top of casing) 3

250.8 to 281.3

SAMPLING PORT

276

TOTAL VOLUME PURGED: 4.65 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
907	0	PUMP	ON						
916	0.2	19.46	0.449	1.03	7.10	-257.4	—	6/6	47
920	0.4	19.54	0.453	0.93	7.12	-252.8	7.41		
935	0.8	19.13	0.456	0.81	7.23	-240.6	2.08		
945	1.2	19.03	0.453	0.81	7.24	-240.1	4.18		
955	1.9	19.30	0.458	0.65	7.27	-235.3	3.12		
1010	2.3	19.47	0.451	0.79	7.28	-194.7	5.22		
1015	2.5	19.31	0.451	0.77	7.28	-193.7	3.44		
1026	2.7	19.54	0.452	0.78	7.24	-193.0	3.76		
1030	3.0	19.41	0.452	0.79	7.29	-190.4	2.96		
1035	3.3	19.63	0.451	0.77	7.30	-192.1	3.28		
1040	4.0	20.04	0.452	0.76	7.30	-195.4	3.45		
1100	4.5	20.19	0.450	0.74	7.31	-202.4	3.39	↓	↓
1105	Pump	2°F							
1310	NEC unobtainable - FOR SPLIT SAMPLE								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	4
turbidity meter	20070254

NOTES AND OBSERVATIONS:

WELL ID: MW 6I - 219

SAMPLE ID: 009

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny clouds, humid 80's

PROJECT NO: 01.0017869.92
DATE: 7/27/09
SAMPLER(S): CB, MB

SAMPLING INTERVAL (depth in ft below top of casing) 4

209 to 229.8

SAMPLING PORT

219

TOTAL VOLUME PURGED: _____ gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
907	0	PUMP	C.N						
916	0.4	18.97	1.097	0.67	7.06	-180.0	—	6/6	47
920	0.9	18.32	1.103	0.49	7.14	-180.2	98.90	↓	↓
935	1.7	18.26	1.103	0.51	7.19	-180.5	43.39		
945	1.5	18.29	1.100	0.36	7.15	-180.0	21.28		
955	1.85	18.43	1.101	0.29	7.17	-179.3	11.01		
1010	2.5	19.10	1.099	0.21	7.19	-178.7	11.32		
1015	3.0	19.03	1.098	0.29	7.18	-179.3	5.60		
1025	3.45	19.05	1.099	0.21	7.19	-180.7	4.12		
1030	4.0	19.01	1.098	0.18	7.19	-180.4	3.60		
1035	4.2	19.91	1.099	0.16	7.19	-180.6	3.61		
1038	4.8	19.42	1.102	0.19	7.20	-182.1	3.57	↓	↓
1053	PUMP	DRY							
1315	NRC WA	WATER LEVEL	FOR SPLIT	SAMPLE					

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
turbidity meter	2C07O1254

NOTES AND OBSERVATIONS:

WELL ID: MW 41-4C
SAMPLE ID: 013

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: OVERCAST WIND 22s

PROJECT NO: 01.0017869.92
DATE: 7/24/09
SAMPLER(S): CB, MB
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 20.96 GW Elevation 30.604 ACTUAL DEPTH = 15525

Time	~~ACTUAL DTW or GW Elevation~~ DEPTH	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
1249	15525	C	PUMP	ON					
1300	15.380	21.21	2.156	6.02	7.10	105.6	6191		0.05
1310	15.392	20.15	2.152	5.94	7.22	135.4	246.6		0.25
1325	15.405	21.65	2.146	5.48	7.23	126.6	20.01		0.26
1335	15.411	21.21	2.124	5.41	7.32	129.4	11.33		0.32
1340	15.402	21.01	2.124	5.45	7.30	130.1	12.94		0.375
1349	15.404	21.21	2.123	5.36	7.30	130.9	11.92		
1400	15.344	22.53	2.154	5.05	7.42	112.9	9.94		
1409	15.318	22.21	2.127	6.23	7.32	106.3	8.36		
1415	15.307	22.14	2.134	6.21	7.31	105.4	7.125		
1430	15.310	22.24	2.146	6.13	7.32	101.9	7.40		
1437	15.316	22.12	2.160	6.25	7.32	96.1	6.47		
1450	15.402	23.32	2.174	6.15	7.35	92.1	5.73		
1440	15.407	23.01	2.181	5.97	7.34	89.9	5.01		
1445	15.389	23.10	2.179	5.53	7.33	93.2	4.20		
1450	15.395	23.5	2.173	5.60	7.32	97.1	4.28		
1451	START SAMPLE COLLECTION								
1513	COMPLETE SAMPLE COLLECTION 21 TOTAL								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
flow meter	5
turbidity meter	2070W254

NOTES AND OBSERVATIONS: Total volume purged _____ gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW-91-63
SAMPLE ID: GIZ

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy, Humid, 70's

PROJECT NO: 01.0017869.92
DATE: 7/29/21
SAMPLER(S): CM/MR

WATER COLUMN HEIGHT (ft)

Well Diameter: 1 in

DTB		DTW	=	Water Column Height
43	-	23.23	=	39.77 ft

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 39.77 x 0.041 (Multiplier) = 1.63 gal (Well Volume)

1.63 x 1.5 = 2.44 gal (Designed Purge Volume)

TOTAL VOLUME PURGED: gal

WATER QUALITY: DTW = 23.23 GW Elevation

Time	Volume Purged (gal)	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Notes
1343	0	Pump On	ON						
1350	1.0		17.41	2.587	6.41	6.62	145.2	49.24	
1355	1.3		18.24	2.915	5.38	6.92	130.4	27.79	
1400	1.72		18.16	3.007	5.46	7.30	123.8	15.48	
1405	2.02		19.02	3.032	5.05	7.08	115.6		
1406	3 Inch	Sample							
1413	Sample	Collected							
1413	Pump	Off							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	4
turbidity meter	2307-12534

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW-95-61
SAMPLE ID: DUP

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: PARTLY CLOUDY 70's

PROJECT NO: 01.0017869.92
DATE: 7/24/09
SAMPLER(S): CB/MB

WATER COLUMN HEIGHT (ft)

Well Diameter: 1 in

61 (DTB) − 22.53 (DTW) = 38.47 ft (Water Column Height)

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 38.47 x 0.041 (Multiplier) = 1.577 gal (Well Volume)

1.577 x 1.5 = 2.37 gal (Designed Purge Volume)

TOTAL VOLUME PURGED: 2.7 gal

WATER QUALITY: DTW = 22.53 GW Elevation

Time	Volume Purged (gal)	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Notes
1122	0	PUMP ON							
1123	0.5		17.23	0.134	7.32	7.11	225.2	237.8	
1130	0.75		17.31	0.211	7.11	7.03	249.7	52.6	
1132	1.0		19.36	0.338	8.57	7.10	256.5	32.0	
1134	1.5		19.26	0.311	8.35	7.11	273.9	.017	
1140	2.0		19.30	0.346	9.26	7.12	284.1	10.90	
1147	2.7	LAST SAMP							
1148	STOP PUMP								
1149	2.7		19.20	0.332	6.86	7.11	285.6	10.72	
1151	START								
1156	STOP DISCHARGE		PUMP OFF		COLLECTED @	1152			

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	09A101135
turbidity meter	2207321254

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW-42
SAMPLE ID: DUP

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: PARTLY CLOUDY, 70'S

PROJECT NO: 01.0017869.92
DATE: 7/24/09
SAMPLER(S): CB/MB

WATER COLUMN HEIGHT (ft)

Well Diameter: 2 in

42 (DTB) − 21.27 (DTW) = 20.73 ft (Water Column Height)

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 20.73 x 0.163 (Multiplier) = 3.379 gal (Well Volume)

3.379 x 1.5 = 5.07 gal (Designed Purge Volume)

TOTAL VOLUME PURGED: 4.5 gal

WATER QUALITY: DTW = 21.27 GW Elevation

Time	Volume Purged (gal)	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Notes
1104	0	PUMP ON							6.5/7@3.0 GPM
1110	0.2	16.617	9.13	0.773	0.54	7.66	131.5	10.34	
1117	0.7	13.955	10.53	0.618	2.21	8.05	84.9	7.63	
1122	1.5	12.106	10.78	0.591	0.15	7.44	77.2	6.28	
1126	2.0	11.733	10.58	0.564	3.25	9.96	72.1	10.25	
1131	2.5	8.774	10.42	0.584	6.23	9.18	46.1	2.84	
1136	3.0	8.018	10.49	0.609	0.04	9.08	46.8	16.21	
1140	3.5	8.281	10.44	0.662	0.46	9.37	44.3	21.56	
1145	4.0	8.654	10.60	0.621	0.23	9.28	40.6		
1150	SAMPLE TO PUMP SB								
1151	STARTED PUMP 3.5 GPM						SAMPLE SB		
1210	PURGED DRY								
1421	START	SAMPLE							
1430	SAMPLE COMPLETE								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	5
turbidity meter	2007012554

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

GROUNDWATER PURGED TO DRY

WELL ID: MW-31-32
SAMPLE ID: _____

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: sunny, cloudy 40's

PROJECT NO: 01.0017869.92
DATE: 11/23/09
SAMPLER(S): MB/CS
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 8.91 Transducer Actual Depth

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
1324	8.91+								
1330	15.615	Pump	on						
1340	15.431	27.06	2.232	1.15	7.11	108.8	2.35		0.1
1355	15.450	27.49	2.237	0.79	7.13	111.4	1.54		0.3 gal
1405	15.438	27.44	2.239	0.59	7.15	114.0	1.75		0.7 gal
1410	15.417	27.39	2.247	0.50	7.17	114.0	1.65		1.0 gal
1420	15.417	27.35	2.249	0.54	7.17	114.0	2.61		1.5 gal
1425	15.420	27.33	2.254	0.54	7.17	112.0	2.45		1.75 gal
1430	15.420	27.31	2.258	0.46	7.17	112.1	2.49		2 gal
1435	15.448	27.27	2.262	0.42	7.18	112.0	3.01		2.15 gal
1440	15.446	27.26	2.265	0.42	7.18	111.6	3.43		2.35 gal
1445	15.443	27.26	2.261	0.40	7.18	111.4	3.70		2.45 gal
1456	START	SAMPLING							
1507	STOP	SAMPLING	2 L IPEC						
1508	Pump	OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	3
flow meter	X
turbidity meter	2012013154

NOTES AND OBSERVATIONS: Total volume purged 2.5 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-37-40
SAMPLE ID: _____

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sun + clouds 80's

PROJECT NO: 01.0017869.92
DATE: 7/23/09
SAMPLER(S): CB, MB
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 7.48 Transducer Actual Depth

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
1219	32.362								
1310	32.090	PUMP ON							
1330	31.065	21.33	0.235	1.20	7.51	-196.8			
	CHANGED FLOW								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	
flow meter	
turbidity meter	

NOTES AND OBSERVATIONS: Total volume purged ____ gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

LEVEL DATES BECOME MORE ~~FINAL~~ 8/6/09

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW-32-10
SAMPLE ID: _____

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sun, Cool, 30's

PROJECT NO: 01.0017869.92
DATE: 7/23/09
SAMPLER(S): MB/CB

WATER COLUMN HEIGHT (ft)

40 (DTB) - 7.48 (DTW) = 32.52 (Water Column Height) ft

Well Diameter: 1 in

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 32.52 x 0.041 (Multiplier) = 1.33 (Well Volume) gal

1.33 x 1.5 = 1.99 ~ 2 (Designed Purge Volume) gal

TOTAL VOLUME PURGED: 2 gal

WATER QUALITY: DTW = 7.48 Transducer Actual Depth

Time	Volume Purged (gal)	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)	Notes
1219	0	32.302									
1330		GOING ON PUMP LOW FLOW RATE									
1340	0.5	28.375	25.6	1.96.9	0.47	7.56	-210.3	355.6			
1355	1.0	30.209	24.91	2.262	2.26	7.35	-219.1	1070.3			
1400	1.5	30.209	24.54	2.250	0.27	7.25	-221.5	1035.0			
1405	START SAMPLE										
1410	LOW FLOW SAMPLE 2L POLY BOTTLE										
1420	PUMP OFF										

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	4
turbidity meter	2009102594

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-37-S1
SAMPLE ID:

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: SUNNY, WARM, DRY

PROJECT NO: 01.0017869.92
DATE: 11/23/09
SAMPLER(S): MG/CG
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 7.37 Transducer Actual Depth

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
1224	43.222								
1310	43.271	[illegible]							
1318	41.858	12.14	2.105	1.33	7.29	163.0	2.44	1	
1322	41.923	24.11	2.207	1.37	7.27	147.2	3.03		
1400	41.925	25.05	2.193	1.11	7.26	142.3	4.12		
1410	42.052	25.28	2.156	1.16	7.26	170.4	4.54		
1420	42.057	26.36	2.197	1.71	7.22	141.3	5.58		
1426	42.785	26.23	2.187	1.27	7.22	130.3	4.25		
1430	42.913	26.25	2.181	1.19	7.21	135.4	3.37		
1436	42.964	26.23	2.182	1.16	7.21	137.0	3.01	↓	
1440	SAMPLE	COLLECTED							
1512	STOPPED	SAMPLING	PUMP	22.71	4.17	176			
1515	PUMP	OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
flow meter	3
turbidity meter	2010 4/12/24

NOTES AND OBSERVATIONS: Total volume purged 1.25 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-37-22
SAMPLE ID:_____

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: SUN + CLOUDS 80's

PROJECT NO: 01.0017869.92
DATE: 7/23/09
SAMPLER(S): MB/CB
PUMP DEPTH: 17 ft

WATER QUALITY: DTW = 9.08 Transducer Actual Depth

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Purged (gal) Notes
1350	9.08								
1357	9.08	27.91	2.529	1.26	6.70	-42.9	—	2	0.05
1410	9.08	28.04	2.564	0.90	6.75	-62.5	2.87	↓	0.45
1415	9.08	28.04	2.565	0.75	6.76	-62.4	1.93	↓	0.75
1420	9.08	28.01	2.563	0.73	6.76	-64.6	1.89	↓	0.85
1425	9.08	28.00	2.563	0.71	6.76	-65.2	1.85	↓	0.95
1427	START SAMPLE COLLECTION								
1440	SAMPLE COMPLETED : 2 L IPEC								
	PUMP OFF								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	SN1A0138 rental
flow meter	K.
turbidity meter	20070125 4

NOTES AND OBSERVATIONS: Total volume purged 1 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-18
SAMPLE ID:

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: 70's

PROJECT NO: 01.0017869.92
DATE: 7/22/09
SAMPLER(S): MA/SB/CB
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 11.78 Transducer Actual Depth

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
1000	5.150	PUMP ON							0 gal
1012	5.186	21.28	2.184	1.01	7.38	-5.0	5.65	1.0	3
1020	5.186	21.97	2.109	1.33	7.44	-9.6	7.09	1.0	
1025	5.186	21.75	2.077	1.27	7.47	-2.4	8.31	1.0	
1028	PUMP OFF								
1030	PUMP ON								
1033	5.186	22.83	1.984	1.28	7.50	-11.8	9.09	1.0	
1040	5.186	23.63	1.970	1.22	7.52	-32.0	7.73	1.0	
1045	5.186	24.10	1.971	1.13	7.53	-22.7	6.90	1.0	
1050	5.186	24.46	1.975	1.11	7.53	-12.2	3.70	1.0	0.5 gal
1055	5.186	24.75	2.028	1.08	7.52	-0.2	6.31	1.0	
1100	5.186	24.84	2.029	1.06	7.51	-10.2	5.27	1.0	
1105	5.186	25.46	2.128	1.16	7.36	-32.4	7.81	1.0	
1110	5.186	25.72	2.141	1.00	7.44	-29.4	5.18	1.0	
1115	5.186	26.16	2.432	0.88	7.53	-11.2	5.38	1.0	
1120	5.186	26.59	2.357	1.03	7.53	-17.6	5.08		
1128	PUMP OFF								
1125	PUMP ON								
1130	5.186	27.30	2.374	0.94	7.53	-19.8	6.25	1.0	
1135	5.186	26.70	2.179	0.82	7.59	-12.6	6.19	1.0	
1140	5.186	27.19	2.230	0.80	7.56	-23.7	5.86	1.0	
1145	5.186	27.30	2.260	0.94	7.60	-9.6	6.90	1.0	
1150	5.186	27.73	2.291	1.02	7.58	-27.6	7.72	1.0	
1200	5.186	27.83	2.271	0.97	7.53	-18.2	6.15	1.0	
1205	5.186	27.99	2.300	1.02	7.59	-25.7	6.00	1.0	

1210 START SAMPLE
1424 SAMPLE COMPLETED
PUMP OFF

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	3
flow meter	3
turbidity meter	2007W2554

2 L IPEC
2 L DEC

NOTES AND OBSERVATIONS: Total volume purged _____ gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-02-37
SAMPLE ID:

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: 10 s F, OVERCAST

PROJECT NO: 01.0017869.92
DATE: 7/22/11
SAMPLER(S): MB/BMS
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 11.10 Transducer Actual Depth

Time	DTW or Actual Depth	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
1000	14.384	PUMP ON							0gal
0005	14.448	22.30	1.134	3.52	7.00	130.4	22.43	1.0	
1010	14.325	22.64	1.131	1.73	7.73	88.2	14.61	1.0	
1015	14.358	22.84	1.135	1.29	7.77	69.1	13.05	1.0	
1025	PUMP OFF								
1030	PUMP ON								
1035	14.603	23.44	1.148	1.42	7.77	45.8	10.29	1.0	
1040	14.681	22.59	1.108	0.92	7.79	12.5	9.17	1.0	
1045	14.725	22.57	1.109	0.80	7.79	-25.1	4.93	1.0	
1050	14.750	24.04	1.177	0.84	7.80	-28.0	3.44	1.0	
1055	14.796	24.32	1.180	0.84	7.81	-22.4	0.70	1.0	
1100	14.815	24.34	1.183	0.77	7.81	-16.6	7.51	1.0	
1105	14.826	23.51	1.166	0.79	7.81	-11.7	6.41	1.0	
1110	14.826	21.95	1.198	0.72	7.82	-41.4	6.96	1.0	0.5 gal
1115	14.826	21.91	1.192	0.47	7.81	-53.4	6.62	1.0	
1120	PUMP	OFF							
1125	PUMP	ON							
1130	14.737	21.14	1.205	0.57	7.41	-58.6	7.10	1.0	
1135	15.003	21.93	1.209	0.44	7.79	-57.9	4.96	1.0	1.0gal
1140	15.045	22.33	1.214	0.57	7.79	-51.4	4.59	1.0	
1145	15.072	23.31	1.218	0.53	1.79	-44.1	5.01	1.0	
1150	15.121	24.53	1.227	0.73	7.79	-32.5	4.37	1.0	
1200	15.137	23.71	1.236	0.81	1.79	-24.2	3.96		
1215	15.177	24.52	1.237	0.74	7.79	-17.1	3.78		
1220	START	SAMPLE							

1307 SAMPLE COMPLETED 2 L IPEC

Equipment Used 2 L IPEC PUMP OFF	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
flow meter	2
turbidity meter	2007U1254

NOTES AND OBSERVATIONS: Total volume purged _____ gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-22-53

SAMPLE ID: 0917

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy 70's 6

PROJECT NO: 01.0017869.92
DATE: 7/22/09
SAMPLER(S): AA, SB, MB

SAMPLING INTERVAL (depth in ft below top of casing)

49.6 to 54.1

SAMPLING PORT

53

TOTAL VOLUME PURGED: 6.9 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
0945	0	PUMP ON						5/6	21
0950	0.1	21.43	1.292	6.94	8.32	-5.8	-		
1001	1.2	21.63	1.290	2.20	8.63	-11.5	1.89		
1007	2.25	21.82	1.301	2.17	8.77	-11.4	1.71		
1012	3.3	21.91	1.302	2.43	8.61	-19.5	2.11		
1017	4.35	22.12	1.303	1.85	8.52	-17.2	0.85		
1022	5.4	22.66	1.304	6.33	8.47	-15.3	1.79		
1027	6.45	22.36	1.305	2.27	8.48	-13.1	3.57		
1033	6.5	22.45	1.304	2.27	8.53	-23.6	2.21		
1038	6.55	22.26	1.306	0.24	8.60	-22.6	0.41		
1133-1141		[illegible]	[illegible]	[illegible]					
1143	6.65	21.94	[illegible]	6.46	7.19	-31.1	2.66		
1151	6.7	22.12	1.323	6.34	7.19	-17.2	1.89		
1157	6.75	22.20	1.326	0.28	7.19	-12.7	1.82		
1203	6.8	22.17	1.327	0.21	7.26	-11.8	1.97		
1133	Start	SC=1.4	Calibrate						
1401	Sample completed Pump off								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	05E101494
turbidity meter	2107200393

NOTES AND OBSERVATIONS:

WELL ID: MW 62-11

SAMPLE ID: DUP

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy 70's 5

PROJECT NO: 01.0017569.92
DATE: 7/22/09
SAMPLER(S): AA, SB, MB

SAMPLING INTERVAL (depth in ft below top of casing)

61.1 to 82.6

SAMPLING PORT

11

TOTAL VOLUME PURGED: 2.25 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
0945	0	PUMP	ON					5/6	30
1156	0.2	20.65	1.354	6.51	6.56	168.7	—		
1202	0.35	20.28	1.361	6.35	6.60	-210.9	1.26		
1208	0.5	20.06	1.361	6.28	6.58	-175.4	0.25		
1213	0.65	19.92	1.361	6.22	6.63	-212.0	1.61		
1218	0.80	19.84	1.361	6.23	6.81	-185.4	0.86		
1223	0.95	19.72	1.361	6.21	6.93	-181.9	0.32		
1227	1.05	19.59	1.361	6.20	6.95	-173.4	0.51		
1232	1.20	19.59	1.363	6.19	6.95	-165.9	0.54		
1239	1.35	19.43	1.364	6.20	6.98	121.6	0.47		
1246	1.50	19.40	1.365	6.19	6.97	-34.5	1.26		
1250	1.65	19.37	1.366	6.19	6.92	-60.2	1.35		
1255	1.80	19.36	1.367	6.19	6.99	-132.1	0.68		
1302	1.95	19.26	1.376	6.17	5.62	-23.5	0.82		
1312	1.25	19.36	1.377	6.17	5.59	-161.6	0.16		
1318	2.2	19.38	1.376	6.17	5.54	-166.7	1.73		
1328	1.35	19.30	1.376	6.16	5.97	-164.2	1.17		
1331	1.90	19.40	1.376	6.25	6.03	102.5	2.11		
1341	2.0	19.16	1.379	0.22	596	-185.2	1.73		
1346	2.1	19.03	1.379	0.21	590	-185.3	1.82		
1351	2.2	19.16	1.379	0.20	5.85	-190.4	1.80	↓	↓
1353		PUMP OFF							
1353		START SAMPLE COLLECTION							
1352		SAMPLE COMPLETED							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
turbidity meter	DUPLICATE

NOTES AND OBSERVATIONS:

WELL ID: MW 62 - 92

SAMPLE ID: [illegible]

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: 4

PROJECT NO: 01.0017869.92
DATE: 7/22/09
SAMPLER(S):

SAMPLING INTERVAL (depth in ft below top of casing)

986 to 991

SAMPLING PORT

9.2

TOTAL VOLUME PURGED: 1.1 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
0945	0	PUMP ON						5/6	21
957	0.2	21.27	1.331	6.66	6.73	-61.6	[illegible]		
1002	0.3	20.89	1.31	2.91	7.68	-70.1	0.28		
1009	0.4	20.56	1.333	6.42	7.16	-72.6	0.31		
1014	0.5	20.46	1.33	2.75	7.12	-74.6	0.45		
1019	0.6	20.55	1.334	2.35	7.12	-77.1	0.41		
1024	0.7	20.42	1.335	1.55	7.10	-68.5	0		
1029	0.8	20.29	1.335	1.21	7.11	-75.5	0		
1034	1.9	20.16	1.336	1.31	7.13	-76.2	0	↓	↓
1037	[illegible]	[illegible]	[illegible]						
1037	[illegible]	[illegible]	[illegible]						

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	[illegible]
turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

WELL ID: MW 02 - 138

SAMPLE ID: DUP

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny clouds 70's

PROJECT NO: 01.0017869.92
DATE: 7/22/09
SAMPLER(S): AR, SB, MB

SAMPLING INTERVAL (depth in ft below top of casing)

1261 to 1480

SAMPLING PORT

138

TOTAL VOLUME PURGED: 3.65 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1406	0	PUMP ON						6/4.5	40
1419	0.25	20.37	1.464	0.47	6.99	-72.3	1.38	6/4.3	30
1430	0.75	20.17	1.451	0.44	7.06	-45.5	0.76		
1440	1.0	20.25	1.453	0.39	7.01	-25.0	1.04		
1445	1.25	20.24	1.454	0.36	7.01	-17.3	1.48		
1452	1.40	20.17	1.452	0.33	7.07	-10.8	1.30		
1502	1.70	20.09	1.442	0.34	7.07	-3.2	1.80		
1510	1.80	20.01	1.434	0.34	7.09	2.9	1.45		
1515	2.00	20.10	1.434	0.34	7.08	22.9	1.25		
1527	2.30	20.37	1.428	0.33	7.07	73.3	1.73		
1531	2.35	20.36	1.421	0.35	7.08	56.7	1.92		
1540	2.5	20.56	1.422	0.35	7.07	71.7	1.63		
1550	3.0	20.51	1.420	0.35	7.05	98.3	5.43		
1557	3.3	20.24	1.408	0.34	7.02	97.6	3.75	"	"
1606	3.5	20							
1618	START SAMPLE COLLECTION								
1655	SAMPLE COMPLETED: 2 L IPEC								
	PUMP OFF			2 L DEC					

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	09A103535 PEN. AL
turbidity meter	2CC1C11243

NOTES AND OBSERVATIONS:

WELL ID: MW 62 - 182

SAMPLE ID: 010

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: 60's + clouds 70's

PROJECT NO: 01.0017869.92
DATE: 7/22/09
SAMPLER(S): AA, SB, MB

SAMPLING INTERVAL (depth in ft below top of casing)

1170 to 1987

SAMPLING PORT

182

TOTAL VOLUME PURGED: 2.8 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1406	0	PUMP	ON					6/13	40
1419	0.15	22.16	1.170	0.45	7.14	-256.1	6.00	6/14.3	30
1430	0.40	21.12	1.169	0.29	7.30	-201.4	1.41		
1440	0.60	20.85	1.168	0.26	7.32	-162.5	3.30		
1445	0.80	20.76	1.169	0.25	7.33	-149.1	1.76		
1452	1.0	20.74	1.167	0.24	7.34	-140.3	1.90		
1502	1.20	20.54	1.169	0.19	7.34	-146.0	1.38		
1510	1.40	20.55	1.171	0.18	7.34	-136.2	0.32		
1515	1.50	20.55	1.170	0.15	7.34	-142.7	0.79		
1525	1.70	20.63	1.172	0.50	7.33	-149.4	1.17		
1531	1.85	20.72	1.174	0.19	7.35	-132.0	1.12		
1540	2.0	20.82	1.173	0.14	7.33	-128.6	1.03		
1550	2.15	20.55	1.176	0.12	7.36	-132.7	4.29		
1557	2.40	20.63	1.179	0.120	7.36	-140.0	3.85		
1602	2.65	20.66	1.178	0.120	7.36	-136.8	3.29	✓	↓
1606	START SAMPLE COLLECTION								
1700	SAMPLE COMPLETED			2 L	IPEC				
				2 L	DEC				
	PUMP OFF								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	4
turbidity meter	20070429

NOTES AND OBSERVATIONS:

WELL ID: MW-53-52
SAMPLE ID: MW-53-52

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: 72.5°F Rain

PROJECT NO: 01.0017869.92
DATE: 7/21/15
SAMPLER(S): JBT CB MB
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 23.058 ft. below TOC Depth / GW Elevation Parameters (PSI)

Time	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	~~Flow Rate (gal/hr)~~	Notes
1253	23.058							328	40
1310	23.058								
1315	Pump OFF								
1329	23.069	15.03	4.602	5.72	6.98	-2.1	3.62	618	37
1334		15.74	4.592	5.97	6.68	-17.1	9.51		38
1339	23.129	15.15	4.362	6.35	6.96	-35.9	4.21		
1344	23.158	15.39	4.227	7.18	7.11	-87.9	6.87		
1349	23.191	16.86	4.158	7.58	7.21	-105.6	4.20		
1354	23.191	18.26	4.112	7.56	7.82	-127.8	8.87		
1359	23.218	19.06	4.021	7.36	7.76	-131.6	3.15		
1404	23.202	19.17	4.068	7.93	7.81	-129.9	2.93		
1409	23.369	19.21	4.062	7.96	7.83	-125.4	2.29		
1414	23.382	19.16	4.059	8.29	7.86	-118	2.90		
1419	23.391	19.30	4.060	8.05	7.89	-115	2.96		
1424	23.395	19.33	4.064	8.30	7.88	-108.9	1.73		
1429	23.391	19.41	4.064	8.22	7.88	-115.3	1.90		
1434	23.440	19.12	4.116	8.23	7.65	-50.9	2.30		
1439	23.486	18.18	4.291	8.82	7.07	-21.5	1.54		
1444	23.501	18.35	4.236	8.94	7.70	-60.4	1.71		
1449	23.487	18.49	4.342	8.81	7.71	-62.6	1.68		
1544	START	SAMPLE	COLLECTION						
1606	end sample collection								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	
flow meter	
turbidity meter	

NOTES AND OBSERVATIONS: Total volume purged 1.5 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW-23-120
SAMPLE ID: 016

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: RAINY, 70's F

PROJECT NO: 01.0017869.92
DATE: 7/21/09
SAMPLER(S): MB/AM/CB

WATER COLUMN HEIGHT (ft)

120 (DTB) - 59.31 (DTW) = 60.69 ft (Water Column Height)

Well Diameter: _____ in

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 60.69 x 0.041 (Multiplier) = 2.49 gal (Well Volume)

2.49 x 1.5 = 3.8 gal (Designed Purge Volume)

TOTAL VOLUME PURGED: _____ gal

WATER QUALITY: DTW = GW Elevation

Time	Volume Purged (gal)	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Notes
1241	0	START PUMP							
1246	0.25		13.25	1.479	5.02	6.76	106.3	30.53	
1250	0.85		13.92	1.517	3.30	6.87	101.1	305.3	
1254	1.70		13.84	1.586	2.24	6.92	101.1	348.9	
1300	2.50		13.82	1.627	1.95	6.95	104.7	286.2	
1305	3.20		13.82	1.638	1.94	6.97	106.1	249.3	
1308	3.80	PUMP OFF							
1311		START	SAMPLE COLLECTION						
1318		END	Sample Collection						

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	3
turbidity meter	20070254

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW 31 . 63

SAMPLE ID: 017

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Rain 70's

PROJECT NO: 01.0017369.92
DATE: 7/21/09
SAMPLER(S): MMG

SAMPLING INTERVAL (depth in ft below top of casing)

558 to 638

SAMPLING PORT

03

TOTAL VOLUME PURGED: 12 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1116	Pump set							6 - 7	35
1131	0.1	6.87	1.528	1.97	3.26	15.98	-77.0		
1134	0.15	6.95	1.518	0	0.80	18.20	68.2		
1145	0.2	7.01	1.543	0	0.78	18.26	54.5		
1156	0.25	7.04	1.532	0	0.69	18.62	47.1		
1157	0.35	7.06	1.534	0	0.67	18.60	35.2		
1162	0.45	7.07	1.550	0	0.72	18.61	23.7		
1168	0.55	7.08	1.556	0	0.83	18.67	14.2		
1173	0.65	7.07	1.560	0	0.80	18.65	7.9		
1180	0.75	7.11	1.578	0	0.78	18.71	6.8		
1184	0.90	7.12	1.587	0	0.76	18.73	10.8		
1194	1.0	7.13	1.591	0	0.76	18.83	14.1		
1142	1.1	7.13	1.603	0	0.73	18.82	2.5		
1142	start	Sample	Collected						
1150	end	Sample	Collected						

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	
turbidity meter	2L57Ou393

NOTES AND OBSERVATIONS:

Total volume purged ~1.2 gal

WELL ID: MW 31 - 49

SAMPLE ID: 317

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Rain, 72's F

PROJECT NO: 01.0017869.92
DATE: 7/27/09
SAMPLER(S): AMC

SAMPLING INTERVAL (depth in ft below top of casing)

34.8 to 49.3

SAMPLING PORT

49

TOTAL VOLUME PURGED: 3.2 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1040	Pump	Set							
1042	0.2	6.56	1.822	2.66	>20	15.76	44.2	2/1	2
1044	0.5	6.93	1.823	2.23	6.26	15.22	35.1		
1046	1.0	6.95	1.904	1.97	2.01	15.19	21.3		
1048	1.2	6.96	1.969	1.93	2.24	15.15	19.0		
1048	1.5	6.96	1.969	1.99	2.21	15.26	15.7		
1054	2.0	7.03	1.958	2	2.26	15.21	11.8		
1056	2.5	7.10	1.974	2	2.14	15.24	10.3		
1060	2.7	7.11	1.981	2	2.16	15.26	13.6		
1111	3.0	7.12	1.984	2	2.20	15.26	18.9		
1112	Pump	Set							
1121	3.2	Sample							
1153	Lab	Sample							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
turbidity meter	2100Q9292

NOTES AND OBSERVATIONS:

Total volume purged 3.2 gal

WELL ID: MW 31-35

SAMPLE ID: 017

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: [illegible]

PROJECT NO: 01.0017869.92
DATE: 7/21/09
SAMPLER(S): AA/CB

SAMPLING INTERVAL (depth in ft below top of casing)

[illegible] to [illegible]

TOTAL VOLUME PURGED: 1.4 gal

PURGE RATE: variable (gal / min)

SAMPLING PORT

[illegible]

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	0	[illegible]						6/7	29
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	Pump off								
[illegible]	start	Sample collected							
[illegible]	end	Sample collected							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	[illegible]
turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

[illegible] volume purged [illegible] gal

WELL ID MW 40 16.2

SAMPLE ID 009

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT Entergy IPEC
SITE Buchanan NY
WEATHER Sunny 80's

PROJECT NO
DATE 7/20/09
SAMPLER(S) M. BRUNO

SAMPLING INTERVAL (depth in ft below top of casing)

158.7 to 190.3

SAMPLING PORT

16.2

TOTAL VOLUME PURGED: 0.85 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
940	0.05	6.51	1.362	-	1.58	21.97	-134.2	6/8.7	40
								↓	↓
1100	START SAMPLE COLLECTION								
1257	SAMPLE COMPLETED			2 L	IPEC				
				2 L	DEC				
	PUMP OFF								↕

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
turbidity meter	20070125A

NOTES AND OBSERVATIONS:

WELL ID MW [illegible]

SAMPLE ID [illegible]

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT Entergy - IPEC
SITE Buchanan, NY
WEATHER Sunny 80's

PROJECT NO [illegible]
DATE 7/20/09
SAMPLER(S) M BRITES

SAMPLING INTERVAL (depth in ft below top of casing)

125.2 to 136.7

SAMPLING PORT

[illegible]

TOTAL VOLUME PURGED: 2.0 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
820	0	PUMP ON							
840	0.3	7.32	2.018	—	1.32	20.34	-160.7	6/5.7	40
								↓	↓
1100	START SAMPLE COLLECTION								
1209	SAMPLE COMPLETED				: 2 L	IPEC			
					2 L	DEC			
	PUMP OFF								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	
Turbidity meter	

NOTES AND OBSERVATIONS:

WELL ID MW

SAMPLE ID

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT Entergy IPEC
SITE Buchanan, NY
WEATHER

PROJECT NO
DATE
SAMPLER S:

SAMPLING INTERVAL (depth in ft below top of casing)

932 to 1067

SAMPLING PORT

TOTAL VOLUME PURGED: 3.15 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
826	0	PUMP	ON						
840	0.4	6.87	2.525	—	1.72	17.60	-229.6	6/8.7	40
								↓	↓
1100	START SAMPLE COLLECTION								
1131	SAMPLE COMPLETED:			3 L IPEC					
	PUMP OFF			2 L DEC					

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	
turbidity meter	

NOTES AND OBSERVATIONS:

WELL ID: MW _____

SAMPLE ID: _____

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: _____ 4

PROJECT NO: 01.0017869.92
DATE: _____
SAMPLER(S): _____

SAMPLING INTERVAL (depth in ft below top of casing)

64.7 to 84.2

SAMPLING PORT

_____

TOTAL VOLUME PURGED: 3.6 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
								↓	↓
1150	START SAMPLE COLLECTION								
1158	SAMPLE COMPLETED			2 L	IPEC				
				2 L	DEC				
	PUMP OFF								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	
turbidity meter	

NOTES AND OBSERVATIONS:

WELL ID: MW 40 - 46

SAMPLE ID: 009

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 80's

PROJECT NO: 01.0017869.92
DATE: 7/20/09
SAMPLER(S): M. BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)

44.2 to 53.7

SAMPLING PORT

46

5

TOTAL VOLUME PURGED: 1.75 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1254	0	PUMP	ON					5.6/6.4	20
1309	0.05	6.80	4.356	—	2.19	20.14	30.6		
1319	0.25	7.00	4.287	—	0.38	19.32	2.8		
1327	0.40	7.03	4.305	—	0.34	19.26	+10.0		
1335	0.55	7.03	4.304	4.10	0.32	19.22	20.1		
1341	0.75	7.04	4.336	3.58	0.34	18.90	28.6		
1345	0.90	7.04	4.331	4.98	0.34	18.96	32.0		
1400	1.15	7.03	4.316	6.39	0.39	18.85	48.7		
1405	1.25	7.04	4.389	6.28	0.40	18.89	49.5		
1410	1.35	7.05	4.397	6.35	0.41	18.93	51.2		
1415	1.60	7.05	4.416	6.24	0.42	19.02	52.3	↓	↓
1417	PUMP OFF								
1424	START SAMPLE COLLECTION								
1511	SAMPLE COMPLETED			2 L	SPEC				
				2 L	DUP				
	PUMP OFF								

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
turbidity meter	20070254

NOTES AND OBSERVATIONS:

Total volume purged ____ gal

WELL ID: MW 40 - 27

SAMPLE ID: 008

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Energy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 80's

PROJECT NO: 01.0017869.92
DATE: 7/20/09
SAMPLER(S): M. BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)

18.2 to 35.2

SAMPLING PORT

27 6

TOTAL VOLUME PURGED: 3.25 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1259	0	PUMP	ON					56/64	20
1304	0.15	6.80	6.632	—	4.87	18.32	-144.3		
1319	0.75	6.80	7.068	—	3.52	17.79	-88.2		
1327	0.75	6.80	7.080	—	3.57	17.56	-73.7		
1335	1.15	6.80	7.072	4.11	3.39	17.52	-55.5		
1341	1.40	6.80	7.073	4.39	3.58	17.36	-44.5		
1345	1.65	6.80	7.063	5.96	3.46	17.30	-34.1		
1400	2.25	6.80	7.068	7.01	3.49	17.12	+1.3		
1405	2.60	6.80	7.068	7.16	3.45	17.27	+1.7		
1410	2.80	6.80	7.059	7.14	3.39	17.20	+2.5		
1415	3.00	6.80	7.062	7.08	3.44	17.23	+3.0	↓	↓
1417	PUMP	OFF							
1424	START SAMPLE COLLECTION								
1450	SAMPLE COMPLETED			2 L	IPEC				
				2 L	DEC				
	PUMP	OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	4
turbidity meter	20070254

NOTES AND OBSERVATIONS:

Total volume purged 3.25 gal

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW-46
SAMPLE ID: GW7

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 80's

PROJECT NO: 01.0017869.92
DATE: 7/14/09
SAMPLER(S): AA / MB

WATER COLUMN HEIGHT (ft)

29.7 (DTB) − 4.30 (DTW) = 25.4 ft (Water Column Height)

Well Diameter: ____ in

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 25.4 x 0.653 (Multiplier) = 16.59 gal (Well Volume)

16.59 x 1.5 = 24.8 gal (Designed Purge Volume)

TOTAL VOLUME PURGED: 42.0 gal

WATER QUALITY: DTW = 4.30 GW Elevation 0.457

Time	Volume Purged (gal)	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Notes
1205	0	12.457	TEMP CN						
1210	0.2	10.911	20.11	0.696	1.34	7.29	-140.9	5.11	0.4 + 0.4
1218	0.9	8.626	19.91	0.598	0.75	7.51	-170.8	15.72	0.9 + 0.9
1231	2.0	5.622	19.96	0.590	0.41	7.64	-158.2	10.15	2.5 + 2.5
1241	3.0	3.491	19.97	0.456	0.33	7.72	-123.6	3.92	3.0 + 3.6
1248	3.5	2.358	19.99	0.435	0.34	7.74	-111.3	4.85	3.8 + 4.0
1256	4.2	0.456	20.12	0.450	0.48	7.81	-86.8	7.95	4.5 + 4.8
1303	4.9	-1.010	20.15	0.368	0.74	7.65	-66.5	7.08	5.1 + 5.5
1313	5.6	-2.255	20.07	0.546	1.73	7.63	-44.1	6.56	5.8 + 6.2
1319	6.0	-3.291	20.12	0.653	2.29	7.63	-30.6	5.77	6.3 + 6.6
1324	6.5	-4.221	20.19	0.718	3.07	7.64	-19.8	0.91	6.7 + 7.0
1330	7.0	-5.418	20.21	0.773	3.37	7.65	-25.5	4.83	7.3 + 7.5
1337	7.5	-5.941	20.16	0.721	3.32	7.67	-24.8	5.16	7.7 + 8.0
1345	8.5	-7.374	20.17	0.823	3.66	7.68	-29.6	6.07	8.3 + 8.6
1357	End sampling		Collection						

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	3
turbidity meter	20070125Y

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

WELL ID: MW-12
SAMPLE ID: MW-30

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 80°

PROJECT NO: 01.0017869.92
DATE: 7/14/09
SAMPLER(S): A.A. / M.B.
PUMP DEPTH: _____ ft

WATER QUALITY: DTW = 4.925 GW Elevation

Time	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
1102	4.926	PUMP ON							
1112	4.873	27.28	1.651	0.04	7.19	-110.0	88.5	1.5	
1118	4.874	26.79	1.601	0.02	7.32	-119.6	6.64		
1125	4.866	26.85	1.582	0.01	7.40	-123.1	6.74		
1132	4.864	27.23	1.574	0.00	7.43	-111.4	5.52		
1139	4.860	27.53	1.571	0.00	7.46	-121.1	4.74		
1142	4.858	27.36	1.573	0.00	7.47	-126.4	4.12		
1145	PUMP OFF								1
1154	PUMP ON								
1156	4.854	27.33	577	0.03	7.48	-20.2	3.42	1.3	
1202	4.848	29.58	1.574	0.00	7.49	-129.6	3.09		
1207	4.845	27.67	1.574	0.00	7.52	-122.1	2.91		
1212	4.845	27.66	1.570	0.00	7.49	-122.1	2.75		
1217	4.843	27.91	1.576	0.00	7.49	-128.1	2.65		
1222	4.841	27.94	1.567	0.00	7.50	-128.9	2.49		
1227	4.839	28.16	1.560	0.00	7.52	-132.9	2.32		
1232	PUMP OFF								
1300									

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	5
flow meter	K. [illegible]
turbidity meter	2 [illegible]

NOTES AND OBSERVATIONS: Total volume purged 1.5 gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

[illegible]

WELL ID: [illegible]
SAMPLE ID: [illegible]

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: [illegible]

PROJECT NO: 01.0017869.92
DATE: [illegible]
SAMPLER(S): [illegible]
PUMP DEPTH: _____ ft

WATER QUALITY: [illegible] DTW = [illegible] GW Elevation

Time	DTW or GW Elevation	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Flow Rate (gal/hr)	Notes
[illegible]									

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	[illegible]
flow meter	
turbidity meter	[illegible]

NOTES AND OBSERVATIONS: Total volume purged [illegible] gal

Depth and Depth to Water (DTW) measurements are given in feet from top of casing.

Groundwater Elevation measurements are given in feet msl.

APPENDIX E: POST-Q3 2009 MID-QUARTER SAMPLING DATA SHEETS

WELL ID: MW 32 - 59

SAMPLE ID: C13

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 80°F

PROJECT NO: 01.0017869.92
DATE: 9/15/09
SAMPLER(S): M. BRIRS

SAMPLING INTERVAL (depth in ft below top of casing)

28.3 to 61.3

SAMPLING PORT

59 6

TOTAL VOLUME PURGED: 3.30 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1332	0							6/7	52
1344	0.9	20.35	1.019	8.29	7.25	19.1	—	6/7	40
1349	0.75	20.27	1.006	5.17	7.33	21.8	—	↓	↓
1355	1.20	20.40	1.002	5.09	7.45	26.6	9.21		
1400	1.60	20.40	1.002	5.00	7.47	30.0	8.61		
1410	2.20	20.39	0.697	4.66	7.68	31.1	8.15		
1419	2.85	20.41	0.649	4.64	7.74	32.5	8.10		
1424	3.15	20.44	0.639	4.62	7.76	32.9	8.17	↓	↓
1426		START SAMPLE COLLECTION							
1427		TRACER TEST SAMPLE : 2L amber IPEC							
1433		SAMPLE COMPLETED. 2L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
turbidity meter	2007C4243

NOTES AND OBSERVATIONS:

WELL ID: MW 32 - 85

SAMPLE ID: 016

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 80°F.

PROJECT NO: 01.0017869.92
DATE: 9/15/09
SAMPLER(S): M. Bazzoli

SAMPLING INTERVAL (depth in ft below top of casing)

79.3 to 92.8

SAMPLING PORT

85 5

TOTAL VOLUME PURGED: 0.85 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1332								6/7	52
1344	0.1	21.01	1.658	1.89	6.89	-79.1	--	6/7	40
1349	0.15	20.99	1.655	1.10	6.92	-72.6	--	↓	↓
1355	0.25	22.23	1.654	0.91	6.94	-60.6	9.16		
1400	0.30	22.57	1.660	0.72	6.97	-53.4	8.45		
1410	0.45	22.62	1.668	0.63	6.99	-52.9	8.01		
1419	0.55	22.88	1.671	0.47	7.01	-49.1	7.93		
1424	0.60	22.84	1.671	0.45	7.02	-48.7	7.96		
1429	0.70	22.89	1.671	0.44	7.02	-48.0	7.99	↓	↓
1432		START SAMPLE COLLECTION							
1435		TRACER TEST SAMPLE : 25 ml IPEC							
1506		SAMPLE COMPLETED : 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	)
turbidity meter	20070243

NOTES AND OBSERVATIONS:

WELL ID: MW 32 - 149

SAMPLE ID: 014

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 80°F

PROJECT NO: 01.0017869.92
DATE: 9/15/09
SAMPLER(S): M. Bell RDS

SAMPLING INTERVAL (depth in ft below top of casing)

1473 to 1568

SAMPLING PORT

149

3

TOTAL VOLUME PURGED: 1.0 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1045	0	PUMP ON						8/11	50
1055	0.05	22.07	1.982	0.79	6.91	-224.0	—	↓	↓
1100	0.10	22.03	2.024	0.79	6.97	-217.1	—		
1110	0.20	21.93	2.101	0.54	7.07	-204.9			
1117	0.35	22.06	2.104	0.40	7.08	-199.9	8.99		
1123	0.45	22.09	2.124	0.42	7.09	-203.0	7.87		
1132	0.55	22.15	2.131	0.40	7.08	-199.1	7.99		
1140	0.65	22.28	2.135	0.32	7.07	-197.8	8.11		
1145	0.75	22.31	2.134	0.33	7.07	-197.2	8.04		
1150	0.85	22.35	2.138	0.34	7.07	-199.0	8.09	↓	↓
1151		START SAMPLE COLLECTION							
1153		TRACER TEST SAMPLE : 2.5 ml. IPEC							
1239		SAMPLE COMPLETED : 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	4
turbidity meter	20C704293

NOTES AND OBSERVATIONS:

1241 - 13

WELL ID: MW 32 - 173

SAMPLE ID: 012

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 80°F

PROJECT NO: 01.0017869.92
DATE: 9/15/09
SAMPLER(S): M BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)

1658 to 1743

SAMPLING PORT

173 2

TOTAL VOLUME PURGED: 0.95 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1045	0	PUMP ON						3/1	50
1055	0.1	21.58	1.934	1.76	6.53	-165.1	-	↓	↓
1100	0.2	21.51	1.936	0.70	6.92	-160.4	-		
1110	0.4	21.44	1.942	0.35	7.01	-146.9			
1117	0.5	21.49	1.943	0.28	7.03	-145.3	8.33		
1123	0.6	21.59	1.943	0.22	7.04	-139.6	8.28		
1132	0.7	21.62	1.947	0.21	7.06	-139.0	8.19		
1137	0.8	21.64	1.947	0.20	7.06	-137.8	8.27	↓	↓
1138		SPLIT SAMPLE COLLECTED							
1140		TRACER TEST SAMPLE : 25 ml IPEC							
1211		SAMPLE COMPLETED : 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
turbidity meter	20070293

NOTES AND OBSERVATIONS:

WELL ID: MW 32 - 19C

SAMPLE ID: 015

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 80's

PROJECT NO: 01.0017869.92
DATE: 9/15/09
SAMPLER(S): M. BRIOS

SAMPLING INTERVAL (depth in ft below top of casing)

180.3 to 193.9

SAMPLING PORT

19D

TOTAL VOLUME PURGED: 0.65 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1045	0	PUMP ON						8/11	50
1055	0.05	22.15	1.614	4.36	6.85	-76.7	—	↓	↓
1100	0.10	22.09	1.622	0.82	6.88	-86.9	—		
1110	0.20	22.09	1.639	0.39	6.95	-80.2	3.36		
1117	0.30	22.18	1.641	0.32	7.01	-65.6	8.19		
1123	0.40	22.21	1.643	0.30	7.02	-68.7	8.26		
1128	0.50	22.26	1.643	0.29	7.03	-64.8	8.20		
1130		START SAMPLE COLLECTION							
1131		TRACER TEST SAMPLE : 25 ml IPEC							
1213		SAMPLE COMPLETED			2 L IPEC				
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
turbidity meter	2CC TC 4293

NOTES AND OBSERVATIONS:

WELL ID: MW [illegible]

SAMPLE ID: [illegible]

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: [illegible]

PROJECT NO: 01.0017869.92
DATE: [illegible]
SAMPLER(S): [illegible]

SAMPLING INTERVAL (depth in ft below top of casing)

[illegible] to [illegible]

SAMPLING PORT

[illegible]

TOTAL VOLUME PURGED: 1.25 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]									

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	
turbidity meter	

NOTES AND OBSERVATIONS:

WELL ID: MW [illegible]

SAMPLE ID: [illegible]

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: [illegible]

PROJECT NO: 01.0017869.92
DATE: [illegible]
SAMPLER(S): [illegible]

SAMPLING INTERVAL (depth in ft below top of casing)

[illegible] to [illegible]

SAMPLING PORT

[illegible]

TOTAL VOLUME PURGED: [illegible] gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]									

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	
turbidity meter	

NOTES AND OBSERVATIONS:

WELL ID: MW 31 - 55

SAMPLE ID: DUP

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO: 01.0017869.92
DATE:
SAMPLER(S):

SAMPLING INTERVAL (depth in ft below top of casing)

to

SAMPLING PORT

TOTAL VOLUME PURGED: gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	
turbidity meter	

NOTES AND OBSERVATIONS:

WELL ID: MW 30 - 84

SAMPLE ID: 018

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Rain 70's

PROJECT NO: 01.0017869.92
DATE: 9/12/09
SAMPLER(S): M. BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)

77.3 to 85.4

SAMPLING PORT

84

TOTAL VOLUME PURGED: 0.30 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressur (psi)
0950	0.	PUMP ON						6|7	40
0957	0.08	26.67	1.615	4.38	8.04	213.4	—		
1005	0.05	25.56	1.668	3.18	7.06	97.5	—		
1015	0.10	25.49	1.665	2.90	7.08	97.5	—		
1020	0.15	25.42	1.664	2.88	7.09	97.0	—		
1025	0.18	25.38	1.665	2.87	7.08	97.3	—	↓	↓
1028		START SAMPLE COLLECTION							
1032		TRACER TEST SAMPLE : 25 ml. VOA							
1222		SAMPLE COMPLETED : 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 3563 Sonde	6
Turbidity meter	

NOTES AND OBSERVATIONS:

3,550 ml added to 2" casing

WELL ID: MW 30 - 69

SAMPLE ID: 027

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Rain 70's

PROJECT NO: 01.0017869.92
DATE: 9/2/09
SAMPLER(S): M. BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)

67.3 to 71.3

SAMPLING PORT

69

TOTAL VOLUME PURGED: 1.10 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pressur (psi)
0950	0	PUMP	ON					6/7	40
0957	0.05	26.86	1.260	7.86	8.13	105.6	—	↓	↓
1005	0.40	26.95	1.240	7.75	8.21	101.6	—		
1015	0.75	26.83	1.284	7.62	8.27	97.9	—		
1020	0.85	26.79	1.267	7.68	8.27	97.4	—		
1025	0.95	26.73	1.270	7.70	8.28	97.1	—		
1027		START SAMPLE COLLECTION							
1030		TRACER TEST SAMPLE : 25 ml. VOA							
1045		SAMPLE COMPLETED : 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
turbidity meter	

NOTES AND OBSERVATIONS:

WELL ID: MW 21 - 49

SAMPLE ID: C-8

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 70's

PROJECT NO: 01.0017869.92
DATE: 9/1/09
SAMPLER(S): M. BRUNO

SAMPLING INTERVAL (depth in ft below top of casing)

34.8 to 49.3

SAMPLING PORT

49

TOTAL VOLUME PURGED: 1.15 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
933	0	PUMP	ON					6/7	24
940	0	19.65	1.845	3.07	6.73	99.8	--	↓	↓
950	0.4	19.34	1.963	1.82	6.87	72.6	--		
959	0.6	19.23	1.933	1.97	6.92	94.5	8.05		
1005	0.8	19.17	1.926	1.95	6.93	96.4	7.97		
1010	1.0	19.16	1.923	1.96	6.93	98.4	8.03	↓	↓
1012		START SAMPLE COLLECTION							
1014		TRACER TEST SAMPLE							
1022		SAMPLE COMPLETED : 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
Turbidity meter	20070404293

NOTES AND OBSERVATIONS:

WELL ID: MW 31 - 63

SAMPLE ID: GW3

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 70's

PROJECT NO: 01.0017869.92
DATE: 9/8/09
SAMPLER(S): M. DE TOS

SAMPLING INTERVAL (depth in ft below top of casing)

55.3 to 63.3

SAMPLING PORT

63

TOTAL VOLUME PURGED: 0.90 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
934	0	PUMP ON						6|7	20
935	0							6|7	40
938	0							6|7	20
940	0	20.03	1576	3.80	7.16	-91.5	—		
950	0.02	19.95	1656	2.27	7.11	-90.2	—		
959	0.1	19.95	1643	1.83	7.12	-79.1	8.40		
1009	0.15	19.97	1630	1.64	7.13	-73.9	8.15		
1010	0.18	19.98	1619	1.62	7.13	-71.2	7.79		
1016	0.20	20.46	1578	1.71	7.14	-66.1	8.70		
1024	0.25	21.10	1554	1.67	7.15	-55.2	8.30		
1029	0.30	22.03	1550	1.65	7.15	-44.4	8.45		
1040	0.40	23.27	1540	1.61	7.15	-27.4	7.62		
1050	0.50	23.54	1568	1.60	7.15	-22.9	8.41		
1055	0.60	23.58	1581	1.58	7.13	-19.9	8.50		
1100	0.70	23.57	1584	1.58	7.13	-18.4	8.46		
1105	0.75	23.62	1583	1.57	7.12	-17.6	8.53		
1107		START SAMPLE COLLECTION							
1109		TRACER TEST SAMPLE							
1150		SAMPLE COMPLETED: 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	4
Turbidity meter	2CC10492 93

NOTES AND OBSERVATIONS:

WELL ID: MW 31 . 85

SAMPLE ID: C18

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 70's

PROJECT NO: 01.0017869.92
DATE: 9/1/09
SAMPLER(S): M. BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)

64.8 to 85.4

SAMPLING PORT

85

TOTAL VOLUME PURGED: 2.25 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
934	0	PUMP ON.						6/7	29
935	0							6/7	40
935	0							6/7	29
940	0.01	19.80	2.189	2.10	7.01	-67.9	—		
950	0.2	20.00	2.135	2.02	7.04	-29.4	—		
959	0.35	19.95	2.129	2.15	7.04	-12.6			
1005	0.45	19.90	2.125	2.17	7.04	-7.8	7.81		
1010	0.55	19.85	2.118	2.20	7.03	-5.1	8.08		
1016	0.65	20.09	2.110	2.19	7.03	-1.9	8.82		
1024	0.80	20.58	2.110	2.30	7.01	+1.1	8.76		
1029	0.90	21.02	2.099	2.46	6.97	3.8	8.90		
1040	1.10	21.43	2.073	2.73	6.95	9.1	8.99		
1050	1.25	21.49	2.054	2.75	6.95	14.5	8.40		
1055	1.35	21.42	2.034	3.01	6.95	22.8	8.22		
1100	1.50	21.41	2.031	2.96	6.95	29.9	8.71		
1108	1.75	21.41	2.027	3.05	6.95	41.6	8.68		
1117	1.90	20.93	2.024	3.15	6.93	58.7	8.57		
1124	2.0	20.87	2.021	3.18	6.92	60.9	8.60		
1129	2.1	20.83	2.019	3.19	6.92	61.7	8.46		
1130		START SAMPLE COLLECTION							
1132		TRACER TEST SAMPLE							
1152		SAMPLE COMPLETED							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
Turbidity meter	20C104293

NOTES AND OBSERVATIONS:

WELL ID: MW 32 - 59

SAMPLE ID: 012

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy 70's

PROJECT NO: 01.0017869.92
DATE: 8/31/09
SAMPLER(S): M. BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)

28.3 to 61.3

SAMPLING PORT

59 6

TOTAL VOLUME PURGED: 2.55 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pres. (psi)
1243	0	PUMP ON						6/7	40
1251	0.4	20.32	1.361	4.38	6.94	191.6	—	↓	↓
1300	1.2	20.13	1.373	4.78	7.13	172.1	8.66		
1305	1.8	20.12	1.376	4.80	7.18	160.0	7.03		
1311	2.2	20.16	1.375	4.76	7.20	156.1	7.20		
1316	2.4	20.15	1.375	4.74	7.22	153.7	7.16	↓	↓
1317		START SAMPLE COLLECTION							
1323		TRACER TEST SAMPLE							
1324		SAMPLE COMPLETED 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 1563 Sonde	
Turbidity meter	2C0704293

NOTES AND OBSERVATIONS:

WELL ID: MW 32 - 85

SAMPLE ID: 015

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy 70's

PROJECT NO: 01.0017869.92
DATE: 8/31/09
SAMPLER(S): M. BERTOS

SAMPLING INTERVAL (depth in ft below top of casing)

79.3 to 92.5

SAMPLING PORT

85

5

TOTAL VOLUME PURGED: 1.05 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Pres. (psi)
1243	0	PUMP ON						6/7	40
1251	0.05	21.09	1.640	4.11	6.76	41.5	—		
1301	0.20	21.05	1.646	1.38	6.79	38.1	760		
1306	0.30	21.11	1.642	1.24	6.83	38.8	6.95		
1311	0.50	21.20	1.646	1.00	6.87	43.6	7.47		
1316	0.60	21.23	1.650	0.92	6.89	44.6	7.58		
1321	0.70	21.22	1.652	0.84	6.90	43.7	7.61		
1328	0.80	20.95	1.658	0.74	6.92	44.8	7.80		
1334	0.95	20.94	1.660	0.71	6.93	46.5	7.86		
1339	0.90	20.98	1.661	0.71	6.94	47.9	7.90		
1341		START SAMPLE COLLECTION							
1344		TRACER TEST SAMPLE							
1411		SAMPLE COMPLETED: 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	2
Turbidity meter	2C010429 3

NOTES AND OBSERVATIONS:

WELL ID: MW 32 - 131

SAMPLE ID: _____

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy 70's

PROJECT NO: 01.0017869.92
DATE: 8/31/09
SAMPLER(S): M. DEITES

SAMPLING INTERVAL (depth in ft below top of casing)

1253 to 1383

SAMPLING PORT

131 4

TOTAL VOLUME PURGED: 0.20 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
937	0	PUMP	ON					8/10	50
950	0.05	20.30	0.300	9.30	8.11	-130.9	—	8/11	50
		Blowing mostly air into flow cell.							
955	0.05	20.30	0.700	9.76	8.39	-89.3	—		
1001	0.05	20.33	0.650	9.81	8.47	-80.2	—		
1009	0.05	20.42	0.650	9.92	8.58	-70.6	—		
1023	0.05	20.71	0.550	9.84	8.70	-59.8	—		
1028	0.05	20.79	0.650	9.85	8.72	-57.1	—		
1039	0.10	21.02	0.600	9.79	8.75	-52.2	—		
1049	0.10	21.26	0.500	9.77	8.73	-36.3	—		
1109	0.15	21.72	0.300	9.63	8.40	-24.8	—		
1112		START TRACER TEST SAMPLE COLLECTION							
1126		TRACER TEST SAMPLE COMPLETED							
		PUMP OFF							
		(It took 14 minutes to get 20 ml sample.)							
		Unable to get a 2 L SAMPLE due to very low flow rate.							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	4
turbidity meter	2007E4293

NOTES AND OBSERVATIONS:

WELL ID: MW 32 - 149

SAMPLE ID: 013

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy, 70's

PROJECT NO: 01.0017869.92
DATE: 8/31/09
SAMPLER(S): M. DR. TDS

SAMPLING INTERVAL (depth in ft below top of casing)

147.3 to 156.3

SAMPLING PORT

149 3

TOTAL VOLUME PURGED: 0.55 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
926	0	PUMP	ON					12/9	62
937	0.05	20.66	1.712	0.33	6.71	-162.7	—	8/10	50
950	0.10	20.66	1.831	0.47	6.81	-153.5	—	8/11	50
955	0.15	20.65	1.880	0.36	6.85	-146.3	—		
1001	0.20	20.60	1.905	0.34	6.87	-141.4	~~8.16~~		
1004	0.25	20.10	1.937	0.29	6.90	-140.8	8.29		
1015	0.30	20.86	1.941	0.28	6.90	-139.9	8.19		
1023	0.35	20.91	1.947	0.27	6.90	-134.9	3.12		
1028	0.40	20.94	1.949	0.26	6.90	-137.2	5.05		
1030		START	SAMPLE COLLECTION						
1034		TRACER	TEST	SAMPLE					
1129		SAMPLE	COMPLETED		2 L IPEC				
		PUMP	OFF						

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	6
Turbidity meter	2CC 104293

NOTES AND OBSERVATIONS:

WELL ID: MW 32 - 173

SAMPLE ID: 011

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy, 70's

PROJECT NO: 01.0017869.92
DATE: 8/3/09
SAMPLER(S): M BRITOS

SAMPLING INTERVAL (depth in ft below top of casing)

165.5 to 174.3

SAMPLING PORT

173 2

TOTAL VOLUME PURGED: 1.15 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
926	0	PUMP	ON					7/9	62
937	0.05	20.59	1.864	1.94	7.00	-131.6	—	8/10	50
950	0.25	20.52	1.945	0.91	7.02	-120.9	—	8/11	50
955	0.35	20.50	1.955	0.65	7.02	-113.4	—		
1001	0.45	20.47	1.958	0.51	7.01	-112.0	8.21		
1009	0.55	20.53	1.960	0.41	6.98	-100.1	8.32		
1015	0.65	20.58	1.961	0.35	6.96	-90.0	7.96		
1023	0.75	20.66	1.962	0.33	6.97	-89.6	7.66		
1028	0.80	20.70	1.964	0.31	6.99	-86.7	7.58		
1039	0.90	20.77	1.968	0.25	6.97	-84.2	7.55		
1044	0.95	20.80	1.969	0.25	6.97	-83.1	7.50		
1049	1.0	20.87	1.970	0.25	6.97	-80.9	7.48		
1051		START SAMPLE COLLECTION							
1100		TRACER TEST SAMPLE							
1131		SAMPLE COMPLETED: 2 L IPEC							
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	3
turbidity meter	20070604293

NOTES AND OBSERVATIONS:

WELL ID: MW 32 - 190

SAMPLE ID: 014

GZA GeoEnvironmental of New York
Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy, 70's

PROJECT NO: 01.0017869.92
DATE: 8/3/09
SAMPLER(S): M. Bell / DS

SAMPLING INTERVAL (depth in ft below top of casing)

183 to 193.4

SAMPLING PORT

190

TOTAL VOLUME PURGED: 0.85 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	Temp (°C)	Specific Conductivity (S/cm)	Dissolved Oxygen (g/l)	pH (SU)	ORP	Turbidity (NTU)	Drive/Vent Cycle (seconds)	Drive Press (psi)
926	0	PUMP	ON					7.2/9	62
937	0.01	20.75	1.410	1.41	6.19	-158.2	—	8/10	50
950	0.05	20.70	1.561	1.21	6.50	-187.2	—	8/11	50
955	0.10	20.76	1.584	0.51	6.56	-169.9	—		
1001	0.15	20.74	1.600	0.41	6.60	-154.0	9.91		
1009	0.20	20.79	1.616	0.31	6.68	-120.6	9.26		
1015	0.25	20.85	1.624	0.30	6.71	-112.4	9.13		
1023	0.35	20.93	1.630	0.25	6.77	-111.2	9.11		
1028	0.40	20.96	1.632	0.23	6.79	-112.9	9.09		
1039	0.50	21.10	1.637	0.19	6.83	-100.0	8.39		
1044	0.55	21.13	1.638	0.18	6.84	-111.3	8.79		
1049	0.65	21.20	1.638	0.16	6.87	-108.6	8.81		
1055	0.70	21.23	1.638	0.17	6.88	-109.5	8.76		
1057		START SAMPLE COLLECTION							
1105		TRACER TEST SAMPLE							
1141		SAMPLE COMPLETED			2 L	IPEC			
		PUMP OFF							

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	5
Turbidity meter	20070493

NOTES AND OBSERVATIONS:

APPENDIX F: DOSE CALCULATIONS

Site Indian Point
Job No. 17869.91

Prepared By: JAS
Reviewed By: mjb

Parameter Values:

year
2009

Totals					
Total Catchment Zone (ft^2)	Total Improved Zone (ft^2)	Recharge (ft/yr)	Precipitation (ft/yr)		
3,969,765	1,432,972	0.66	2.53		
Surface Area					
Northern Clean Zone Improved (ft^2)	Unit 2 North Improved Zone (ft^2)	Unit 1/2 Improved Zone (ft^2)	Unit 3 North Improved Zone (ft^2)	Unit 3 South Improved Zone (ft^2)	Southern Clean Improved Zone (ft^2)
0	148,214	433,904	316,210	321,290	213,354
Northern Clean Unimproved Zone (ft^2)	Unit 2 North Unimproved Zone (ft^2)	Unit 1/2 Unimproved Zone (ft^2)	Unit 3 North Unimproved Zone (ft^2)	Unit 3 South Unimproved Zone (ft^2)	Southern Clean Zone Unimproved (ft^2)
106,429	204,317	438,221	323,116	268,862	585,600
Discounted Area Within Zone	Discounted Area Within Zone	Discounted Area Within Zone	Discounted Area Within Zone	Discounted Area Within Zone	Discounted Area Within Zone
50,265	0	291,186	106,718	17,730	144,347
Northern Clean Zone Catchment (ft^2)	Unit 2 North Catchment Zone (ft^2)	Unit 1/2 Catchment Zone (ft^2)	Unit 3 North Catchment Zone (ft^2)	Unit 3 South Zone (ft^2)	Southern Clean Zone (ft^2)
156,694	352,531	1,163,311	746,044	607,882	943,302
Activity (pCi/L)					
Groundwater					
Northern Clean Zone Catchment	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South Zone	Southern Clean Zone
Upper Zone Before Canal: 150	297	3,261	327	774	204
Lower Zone Before Canal: 150	251	2,540	1,188	479	207
Northern Clean Zone	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South Zone	Southern Clean Zone
Upper Zone After Canal: 150	230	2,956	362	774	204
Lower Zone After Canal: 150	526	1,016	531	479	207
Stormwater Discharging to Canal (pCi/L)					
Storm Water for Northern Clean Zone	Storm Water for Unit 2 North	Storm Water for Unit 1/2	Storm Water for Unit 3 North	Storm Water for Unit 3 South	Storm Water for Southern Clean Zone
	1,423		0	0	0
NA	*Avg MH-4a*	*NA*	*Avg CB-14 and CB-34*	*Avg U3-CB-B8*	*Avg D1, C3, E6, & E10*
Stormwater Discharging to River (pCi/L)					
Storm Water for Northern Clean Zone	Storm Water for Unit 2 North	Storm Water for Unit 1/2	Storm Water for Unit 3 North	Storm Water for Unit 3 South	Storm Water for Southern Clean Zone
	0	0	683		0
NA	*Avg. MH-1 and MH-12*	*Avg MH-14*	*Avg CB-15*	*NA*	*Avg E13,CB-C2*

Potential Water Received by Storm Drain System

=(Improved Area) x Precipitation

Northern Clean Area	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South	Southern Clean Zone	Units
0	374,734	1,097,054	799,485	812,327	539,431	ft^3/yr
0	1,027	3,006	2,190	2,226	1,478	ft^3/day
0.00	5.33	15.61	11.38	11.56	7.68	GPM
0	10,611,288	31,065,119	22,638,895	23,002,541	15,274,991	L/Yr

The total amount of water available to be received by the storm system is computed as the combined area of buildings and paved areas in the catchment multiplied by the annual precipitation rate. Note this conservatively assumes that the amount of water lost to the atmosphere or other sinks after precipitation has fallen on paved or built up surfaces is zero.

Water Directly Recharged to Aquifer from Precipitation

=Unimproved Area x Recharge

Northern Clean Area	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South	Southern Clean Zone	Units
69,963	134,311	288,072	212,405	176,741	384,954	ft^3/yr
192	368	789	582	484	1,055	ft^3/day
1.00	1.91	4.10	3.02	2.52	5.48	GPM
1,981,131	3,803,275	8,157,291	6,014,650	5,004,754	10,900,685	L/Yr

Note that this calculation reflects recharge to the aquifer in non-paved areas. The Recharge value listed above and used in this calculation reflects only that portion of precipitation that actually recharges the aquifer.

Site Indian Point
Job No. 17869.91

Prepared By: JAS
Reviewed By: mjb

Water Recharged to Aquifer (Direct Recharge Plus Storm Water Leakage Minus Building Drain Removal)

=(Direct Recharge + X% Water Received by Storm System) - (Y% x Water Removed by Building Drains)

Total Water Discharged to Aquifer

	[Northern Clean Area Catchment + (0% Storm Drain Water)][1]	[Unit 2 North + (50% Storm Drain Water)]-[5gpm]	[Unit 1/2 Area Catchment + (30% Storm Drain Water)]-[7.5 gpm]	[Unit 3 North Area Catchment + (60% Storm Drain Water)]-[7.5gpm]	[Unit 3 South Area + (10% Storm Drain Water)]	[Southern Clean Zone Area + (40% Storm Drain Water)]	Units
Upper and Lower Zone	69,963	-29.634	90,220	165,128	257.974	600,727	ft^3/yr
	192	-81	247	452	707	1,646	ft^3/day
	1.00	-0.42	1.28	2.35	3.67	8.55	GPM
	1,981,131	-839.143	2,554,734	4,675,894	7,305.008	17,010,682	L/Yr

[1] There are no improved surfaces in Northern Clean Zone.

While actual footing drain flow rates will vary with the magnitude and/or intensity of precipitation, the Unit 2 North Zone calculation includes a constant removal of 5 gpm from the groundwater system by the Unit 2 footing drain. This flow rate is fixed in the model because continuous flow data for the drain is not routinely measured. The value of 5 gpm is based on measurements made during the pumping test conducted on RW-1 in 2006. Since yearly precipitation prior to Q3 2009 was ~6 inches less than the fourteen year average, the actual footing drain withdrawal rate was likely less than the fixed 5 gpm value used by the model. As such, the model indicates that all the groundwater flow in this zone is accounted for by the drain (i.e., the model shows no groundwater flow to the river for the Q3 2009 data set. While it is likely that the footing drain flow rate is less than 5 gpm and some groundwater does flow to the river through this zone, the model approximation is conservative (i.e., results in a high bias to the dose computation). This is because the water removed from the Unit 2 footing drain, which would otherwise contribute to groundwater flow, is applied to the Unit 2 storm-drain water discharging to the canal through MH-4. This flow rate is multiplied times the radionuclide levels measured in MH-4, which are much higher than those applied to groundwater flowing through the Unit 2 North Zone.

Groundwater Discharged to Canal

=Water Recharged to Aquifer x X% flowing to Canal

	Northern Clean Area Catchment x 0%	Unit 2 North x 15.2%	Unit 1/2 Area Catchment 24.2%	Unit 3 North Area Catchment x 22.9%	Unit 3 South Area x68.4%	Southern Clean Zone Area x 0%	Units
Upper and Lower Zone	0	-4.504	21,833	37,814	176.454	0	ft^3/yr
	0	-12	60	104	483	0	ft^3/day
	0.00	-0.06	0.31	0.54	2.51	0.00	GPM
	0	-127.550	618,246	1,070,780	4,996.625	0	L/Yr

Groundwater Discharged to River

=Water Recharged to Aquifer x X% flowing to River x Y% Flowing in Appropriate Vertical Zone

	Northern Clean Area Catchment x 100% x 59.3%	Unit 2 North x 84.8% x 15.1%	Unit 1/2 Area Catchment x 75.8% x 11.7%	Unit 3 North Area Catchment x 77.1% x 47.9%	Unit 3 South Area x 31.6% x 31.3%	Southern Clean Zone Area x 100% x 55.2%	Units
Upper Zone	41,488	-3.795	8,001	60,983	25.516	331,601	ft^3/yr
	114	-10	22	167	70	908	ft^3/day
	0.59	-0.05	0.11	0.87	0.36	4.72	GPM
	1,174,811	-107.451	226,569	1,726,650	722.524	9,389,896	L/Yr
	Northern Clean Area Catchment x 100% x 40.7%	Unit 2 North x 84.8% x 84.9%	Unit 1/2 Area Catchment 75.8% x 88.3%	Unit 3 North Area Catchment x 77.1% x 52.1%	Unit 3 South Area x 31.6% x 68.7%	Southern Clean Zone Area x 100% x 44.8%	Units
Lower Zone	28,475	-21.335	60,385	66,330	56.004	269,126	ft^3/yr
	78	-58	165	182	153	737	ft^3/day
	0.41	-0.30	0.86	0.94	0.80	3.83	GPM
	806,320	-604.143	1,709,919	1,878,265	1,585.859	7,620,785	L/Yr

Water Remaining in Storm Drains and Discharged to Canal

=Storm Drain Water x X% Not Leaking to Groundwater and Not Discharging to River

Northern Clean Area Catchment (0% Storm Drain Water)	Unit 2 North (45% Unit 2 North and 30% of Unit 1/2 Storm Drain Water). Plus 5 gpm (351k cf/yr) from U2 footing drain.	Unit 1/2 Area Catchment (0% Storm Drain Water)	Unit 3 North Area Catchment (3% Unit 3 North Storm Drain Water)	Unit 3 South Area (3% Unit 3 North and 42% Unit 3 South Storm Drain Water)	Southern Clean Zone Area (30% Unit 1/2, 27% Unit 3 North, 43% Unit 3 South, and 55% Southern Clean Zone Storm Drain Water)	Units
0	848.747	0	23,985	365.162	1,190,965	ft^3/yr
0	2.325	0	66	1,000	3,263	ft^3/day
0	12.08	0.00	0.34	5.20	16.95	GPM
0	24,034.993	0	679,167	10,340.234	33,724,375	L/Yr

Water Remaining in Storm Drains and Discharged to River

Northern Clean Area Catchment (0% Storm Drain Water)	Unit 2 North (5% Storm Drain Water)	Unit 1/2 Area Catchment (10% Storm Drain Water)	Unit 3 North Area Catchment (7% Storm Drain Water)	Unit 3 South Area (5% Storm Drain Water)	Southern Clean Zone Area (5% Storm Drain Water)	Units
0	18.737	109,705	55,964	40.616	26,972	ft^3/yr
0	51	301	153	111	74	ft^3/day
0	0.27	1.56	0.80	0.58	0.38	GPM
0	530.564	3,106,512	1,584,723	1,150,127	763,750	L/Yr

Site Indian Point
Job No. 17869.91

Prepared By: JAS
Reviewed By: mjb

Flux Calculations

Conceptual Model: Migration Pathway Summary

	Northern Clean Area	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South	Southern Clean Zone
GW	100% Upper and Lower Zone To River	84.8% Upper Zone and Lower Zone Flow To River. 15.2% Upper Zone and Lower Zone Flow to Canal	75.8% Upper Zone and Lower Zone To River. 24.2% Upper Zone and Lower Zone to Canal	77.1% Upper Zone and Lower Zone To River. 22.9% Upper Zone and Lower Zone to Canal	31.6% Upper Zone and Lower Zone To River. 68.4% Upper Zone and Lower Zone to Canal	100% Upper and Lower Zone To River
SW	NA	To Canal (Storm Water Considered Clean; Estimated at 5.5 GPM) and To River (5% Storm Water)	To Canal (60% Storm Water) and To River (10% Storm Water)	To Canal (33% Storm Water) and To River (7% Storm Water)	To Canal (85% Storm Water) and To River (5% Storm Water)	To Canal (55% Storm Water) and To River (5% Storm Water)

Flux (pCi/Yr)

	North Clean Area	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South	South Clean Zone	Total
GW to River-Upper Zone	1.76E+08	0.00E+00	6.70E+08	6.25E+08	5.59E+08	1.91E+09	**3.94E+09**
GW to River-Lower Zone	1.21E+08	0.00E+00	1.74E+09	9.97E+08	7.59E+08	1.57E+09	**5.19E+09**
GW to Canal	0.00E+00	0.00E+00	2.02E+09	3.50E+08	3.87E+09	0.00E+00	**6.23E+09**
SW to Canal	NA	3.42E+10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	**3.42E+10**
SW to River	NA	0.00E+00	0.00E+00	1.08E+09	0.00E+00	0.00E+00	**1.08E+09**
						Curies/Yr ==>	**0.05**

Notes:

The recharge rate used herein. 26% of precipitation (~10 in/yr). is within the range of values discussed in the USGS modeling report[1] The reported recharge ranged from 3.6 inches/year to 7.5 inches/year for a till to 20 inches per year for coarse grained glacially stratified deposits. A yearly rolling average precipitation value measured at the Facility meteorological station is also used in the computations. The catchment area was defined using an AutoCAD topo map for the Site and surrounding area. The catchment was defined by starting at the area marked "line of water grant" and tracking east, away from the River, to define portions of the land surface contributing water to the selected discharge zone. Calculations assume that run-off or overland flow in unimproved areas of the Site is negligible, there are no changes in storage and the Hudson River is a gaining stream.

1. USGS. Water Use, Ground-Water Recharge and Availability, and Quality of Water in the Greenwich Area, Fairfield County. Connecticut and Westchester County, New York, 2000-2002

APPENDIX G: UNIT 2 TRITIUM PLUME TREND ANALYSES

TABLE G1
MANN-KENDALL TREND EVALUATION SUMMARY
TRITIUM IN GROUNDWATER NEAR UNIT 2
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID	Number of Data Points	Number of Times below MDC	Minimum Tritium Activity (pCi/L)	Maximum Tritium Activity (pCi/L)	Mann-Kendall Statistic (S)	Normalized Test Statistic (Z)	Probability	Trend at 95% Level of Significance
MW-30-69	31	0	7.36E+04	6.01E+05	-158	-2.67	0.996	decreasing
MW-30-84	18	0	3.78E+03	1.25E+04	-21	-0.76	0.776	no trend
MW-31-49	30	0	2.98E+02	4.84E+04	-7	-0.11	0.543	no trend
MW-31-63	18	0	5.00E+03	4.06E+04	10	0.34	0.633	no trend
MW-31-85	18	0	3.17E+02	1.88E+04	65	2.42	0.992	increasing
MW-32-59	17	0	4.13E+02	6.43E+04	-36	-1.44	0.925	no trend
MW-32-85	16	0	5.42E+03	1.26E+04	-4	-0.14	0.554	no trend
MW-32-131	6	1	1.29E+02	1.13E+04	2	NA	0.575	no trend
MW-32-149	14	0	1.99E+02	1.05E+04	-59	-3.18	0.999	decreasing
MW-32-173	12	0	4.71E+02	5.89E+03	-48	-3.22	0.999	decreasing
MW-32-190	15	0	1.72E+03	1.13E+04	-59	-2.87	0.998	decreasing
MW-33	22	0	2.30E+04	2.64E+05	-85	-2.37	0.991	decreasing
MW-35	19	0	1.04E+03	1.19E+05	-75	-2.59	0.995	decreasing
MW-36-24	13	2	1.54E+02	3.42E+04	2	0.06	0.524	no trend
MW-36-52	13	0	6.06E+03	2.68E+04	-54	-3.23	0.999	decreasing
MW-37-22	15	0	2.26E+03	3.49E+04	-49	-2.38	0.991	decreasing
MW-37-32	15	0	2.49E+03	3.01E+04	-57	-2.77	0.997	decreasing
MW-37-40	14	0	4.22E+03	1.70E+04	-77	-4.16	1.000	decreasing
MW-37-57	15	0	4.05E+03	4.48E+04	-69	-3.37	1.000	decreasing
MW-42-49	15	0	1.12E+03	7.22E+04	-9	-0.40	0.654	no trend
MW-42-78	10	0	3.46E+02	1.28E+03	-19	-1.61	0.946	no trend
MW-49-26	17	0	3.10E+03	1.54E+04	-108	-4.41	1.000	decreasing
MW-49-42	17	0	2.25E+03	1.13E+04	-112	-4.57	1.000	decreasing
MW-49-65	17	0	1.26E+03	5.76E+03	-98	-4.00	1.000	decreasing
MW-50-42	18	4	1.01E+02	9.75E+03	-50	-1.86	0.968	decreasing
MW-50-66	22	0	2.08E+03	1.08E+04	-167	-4.68	1.000	decreasing
MW-53-82	12	0	4.54E+02	1.32E+04	-8	-0.48	0.684	no trend
MW-53-120	15	0	4.42E+03	9.61E+03	-51	-2.47	0.993	decreasing
MW-55-24	11	0	7.82E+02	3.08E+03	-24	-1.79	0.963	decreasing
MW-55-35	10	0	8.53E+02	9.04E+03	-19	-1.61	0.946	no trend
MW-55-54	11	0	5.47E+03	1.31E+04	-37	-2.80	0.997	decreasing
MW-111	30	0	6.81E+03	5.78E+05	-138	-2.44	0.993	decreasing

Notes: Calculations based on Mann-Kendall trend evaluations as presented in U.S. EPA Practical Methods for Data Analysis, U.S. EPA QA/G-9 QA00 UPDATE, July 2000, Section 4.3.4

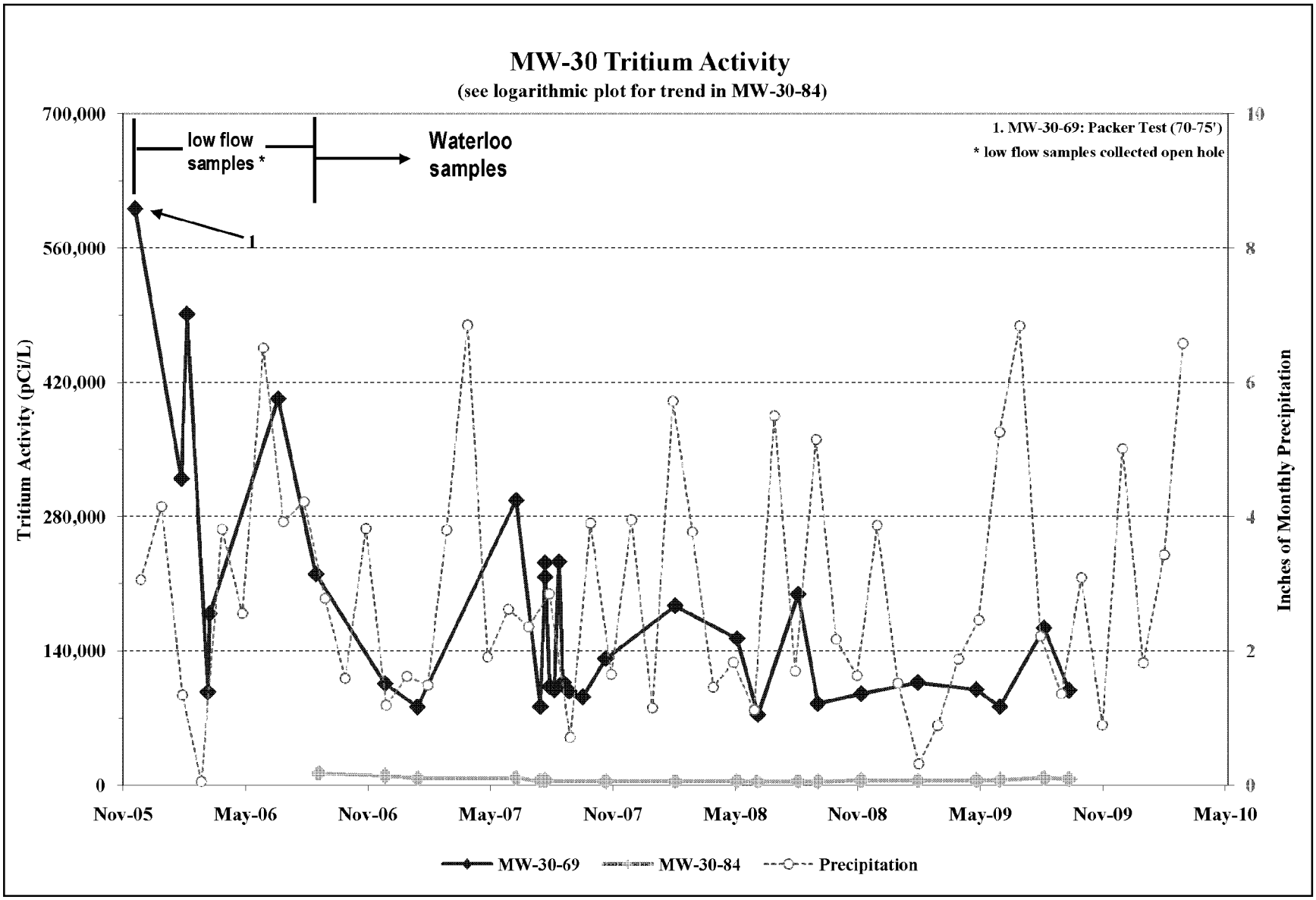

MW-30 Tritium Activity
(see logarithmic plot for trend in MW-30-84)
low flow samples *
Waterloo samples
1
1. MW-30-69: Packer Test (70-75')
* low flow samples collected open hole
Tritium Activity (pCi/L)
Inches of Monthly Precipitation
700,000
560,000
420,000
280,000
140,000
0
10
8
6
4
2
0
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
MW-30-69
MW-30-84
Precipitation

FIGURE G1

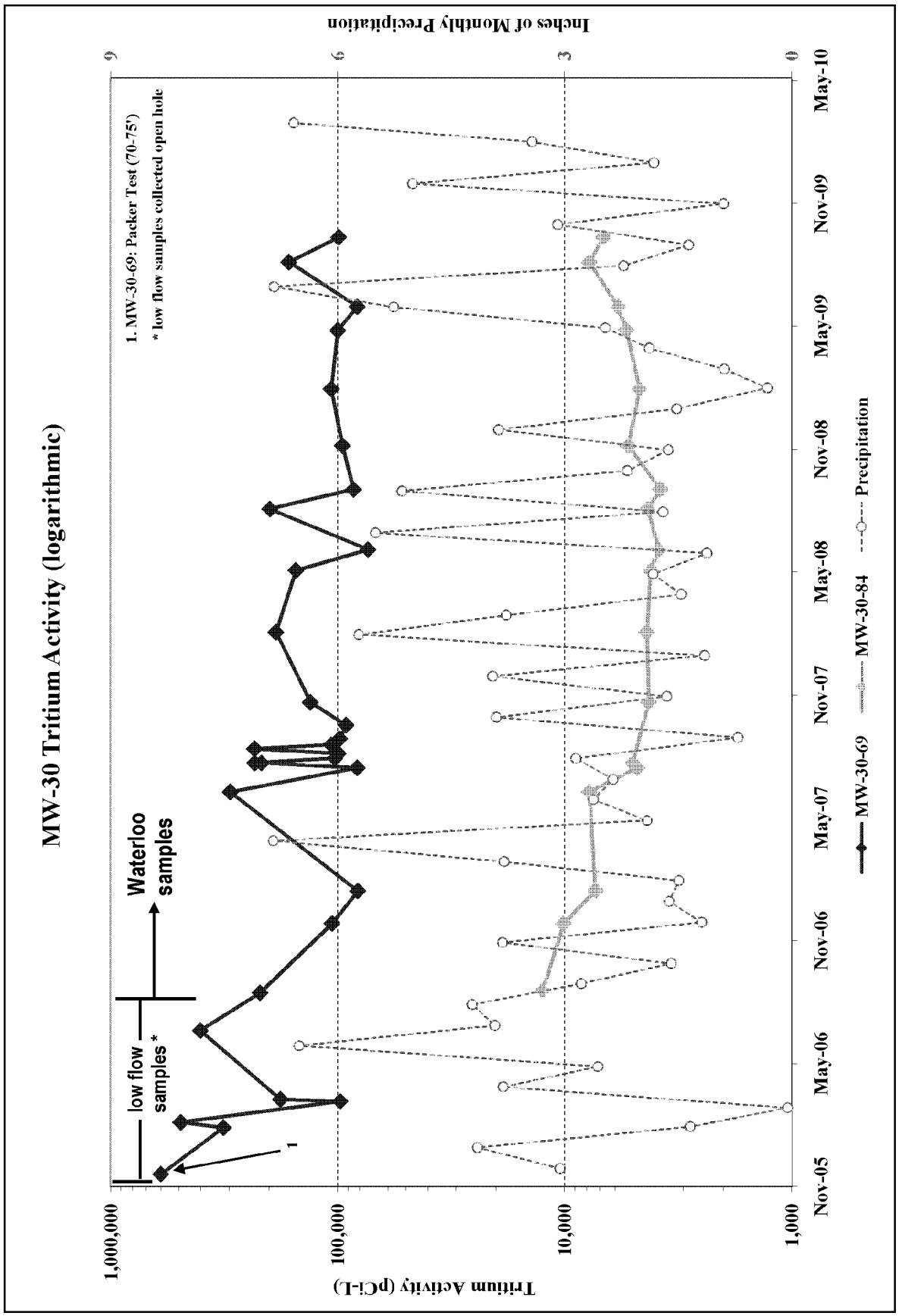


FIGURE G1a

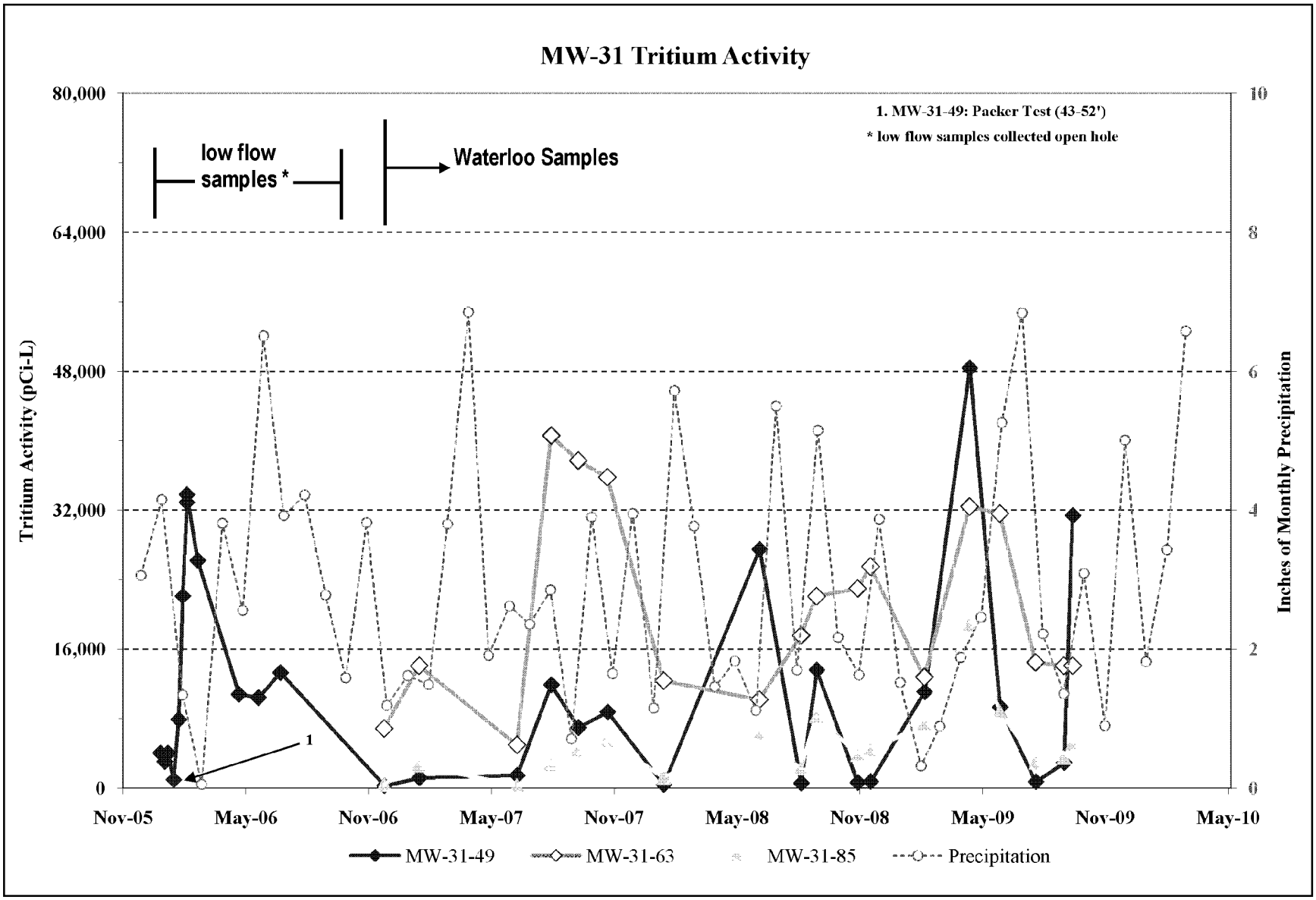

MW-31 Tritium Activity
1. MW-31-49: Packer Test (43-52')
* low flow samples collected open hole
low flow samples *
Waterloo Samples
Tritium Activity (pCi-L)
Inches of Monthly Precipitation
80,000
64,000
48,000
32,000
16,000
0
10
8
6
4
2
0
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
1
MW-31-49
MW-31-63
MW-31-85
Precipitation

FIGURE G2

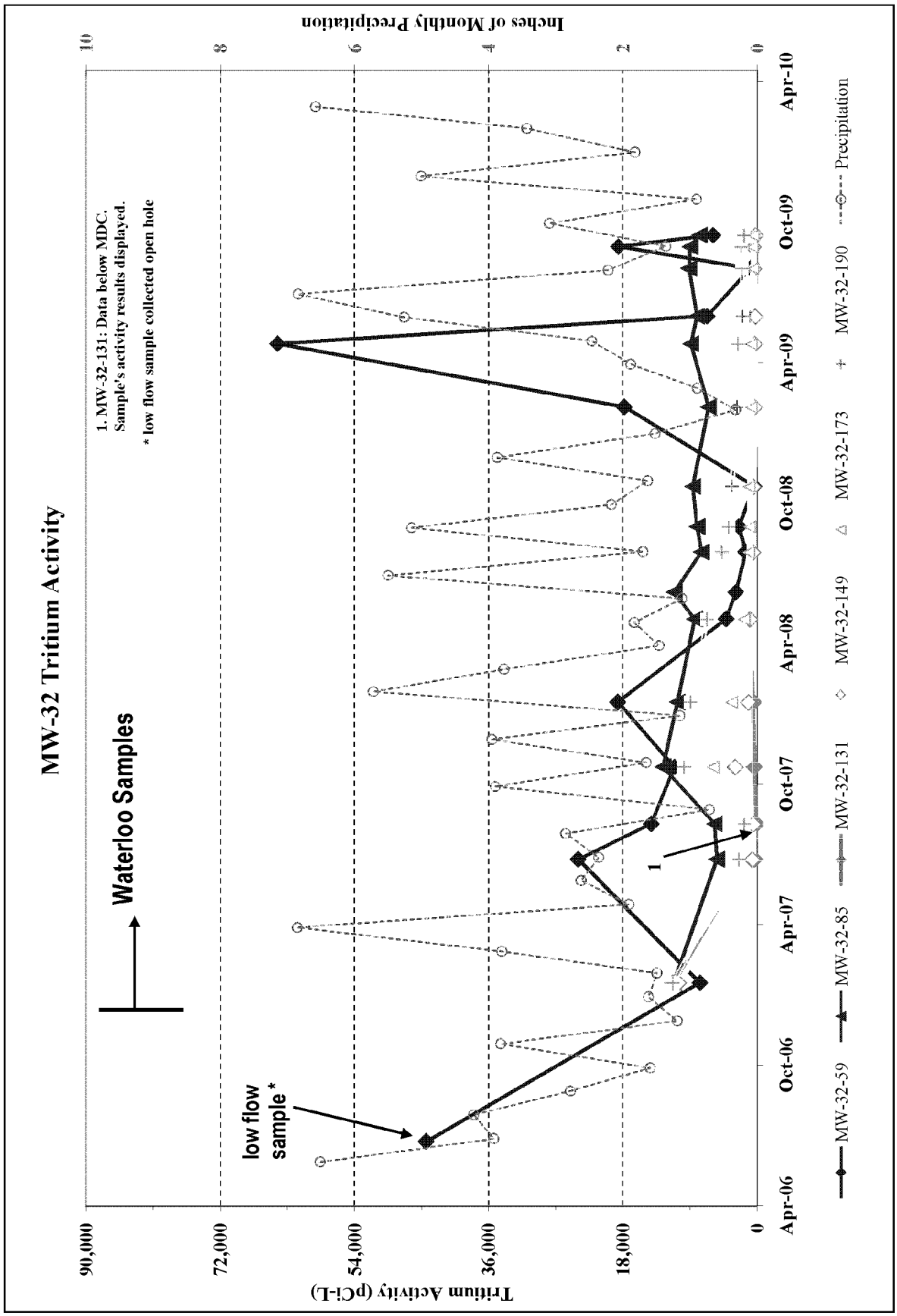

MW-32 Tritium Activity
Waterloo Samples
1. MW-32-131: Data below MDC.
Sample's activity results displayed.
* low flow sample collected open hole
low flow sample *
1
Tritium Activity (pCi-L)
Inches of Monthly Precipitation
90,000
72,000
54,000
36,000
18,000
0
10
8
6
4
2
0
Apr-06
Oct-06
Apr-07
Oct-07
Apr-08
Oct-08
Apr-09
Oct-09
Apr-10
MW-32-59
MW-32-85
MW-32-131
MW-32-149
MW-32-173
MW-32-190
Precipitation

FIGURE G3

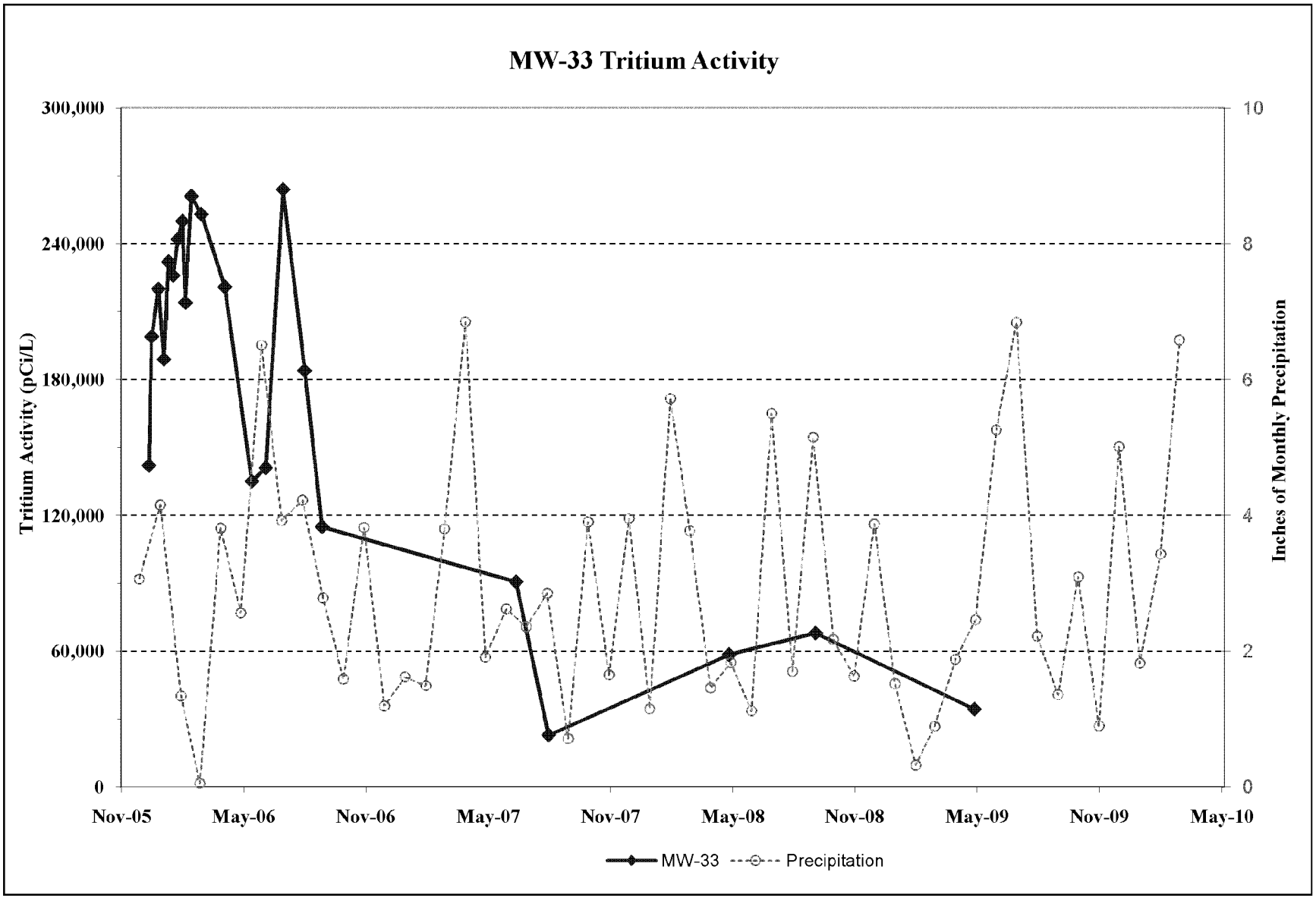

MW-33 Tritium Activity
Tritium Activity (pCi/L)
Inches of Monthly Precipitation
300,000
240,000
180,000
120,000
60,000
0
10
8
6
4
2
0
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
MW-33
Precipitation

FIGURE G4

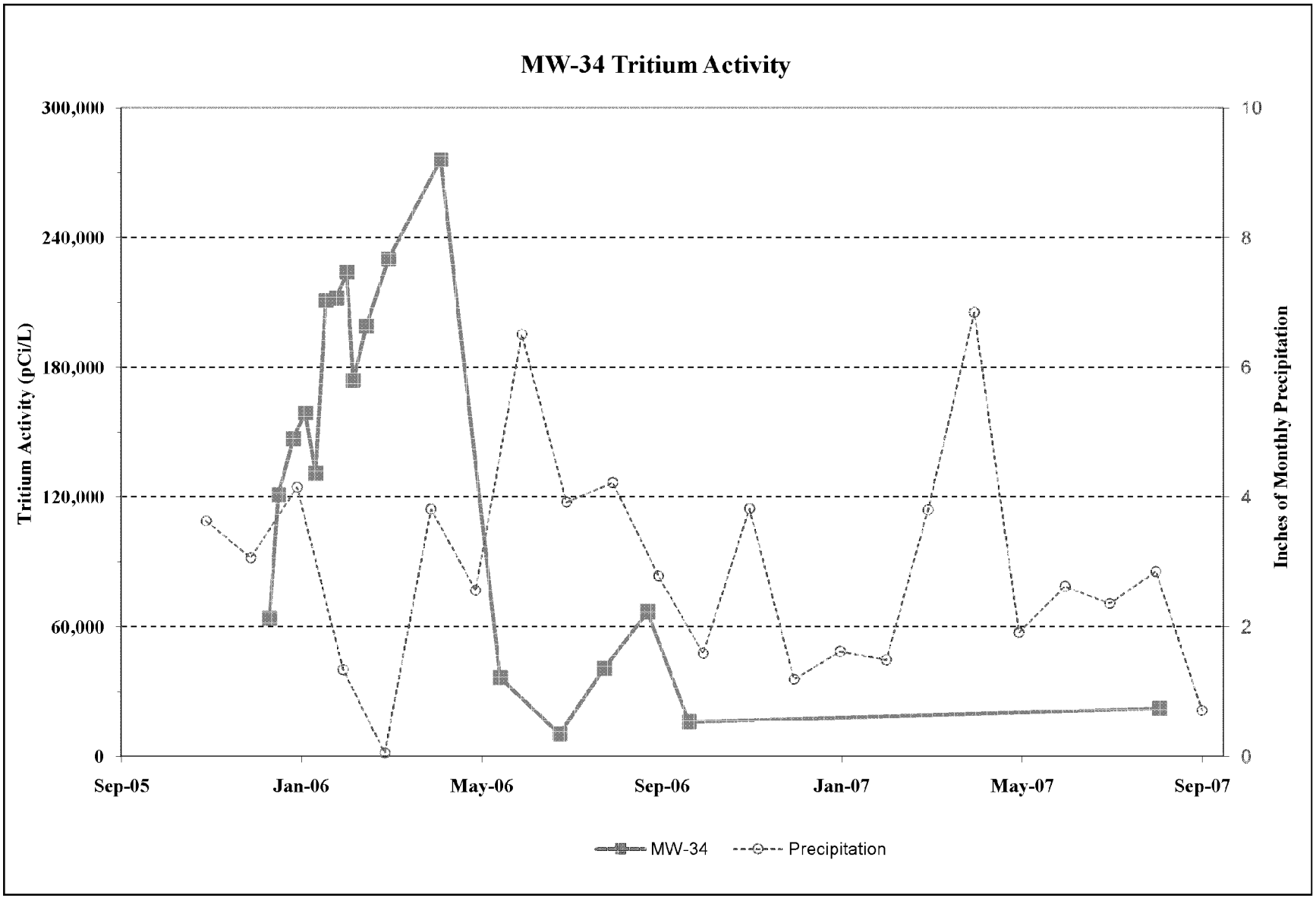

MW-34 Tritium Activity
Tritium Activity (pCi/L)
Inches of Monthly Precipitation
300,000
240,000
180,000
120,000
60,000
0
10
8
6
4
2
0
Sep-05
Jan-06
May-06
Sep-06
Jan-07
May-07
Sep-07
MW-34
Precipitation

FIGURE G5

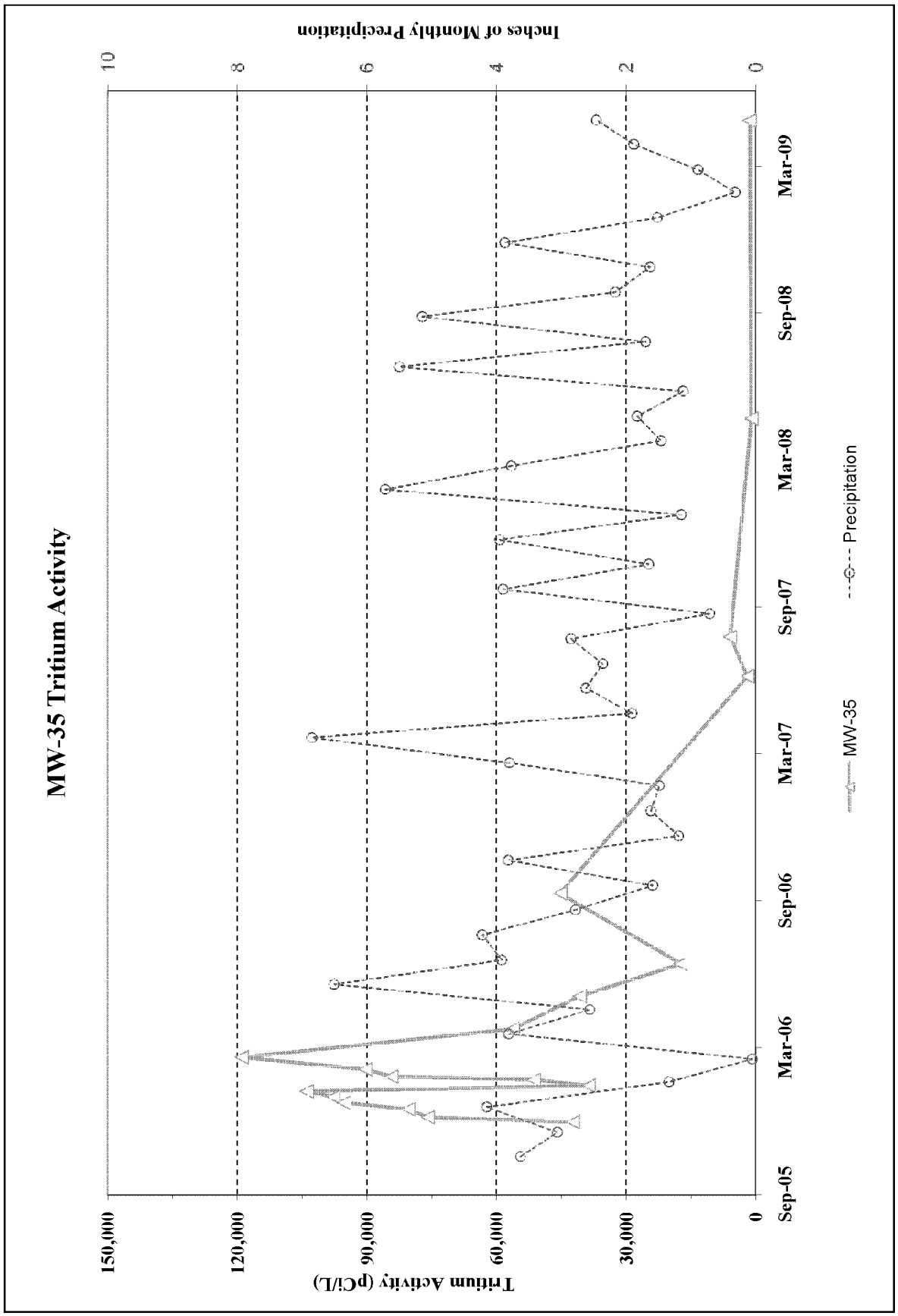

MW-35 Tritium Activity
Tritium Activity (pCi/L)
150,000
120,000
90,000
60,000
30,000
0
Inches of Monthly Precipitation
10
8
6
4
2
0
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
MW-35
Precipitation

FIGURE G6

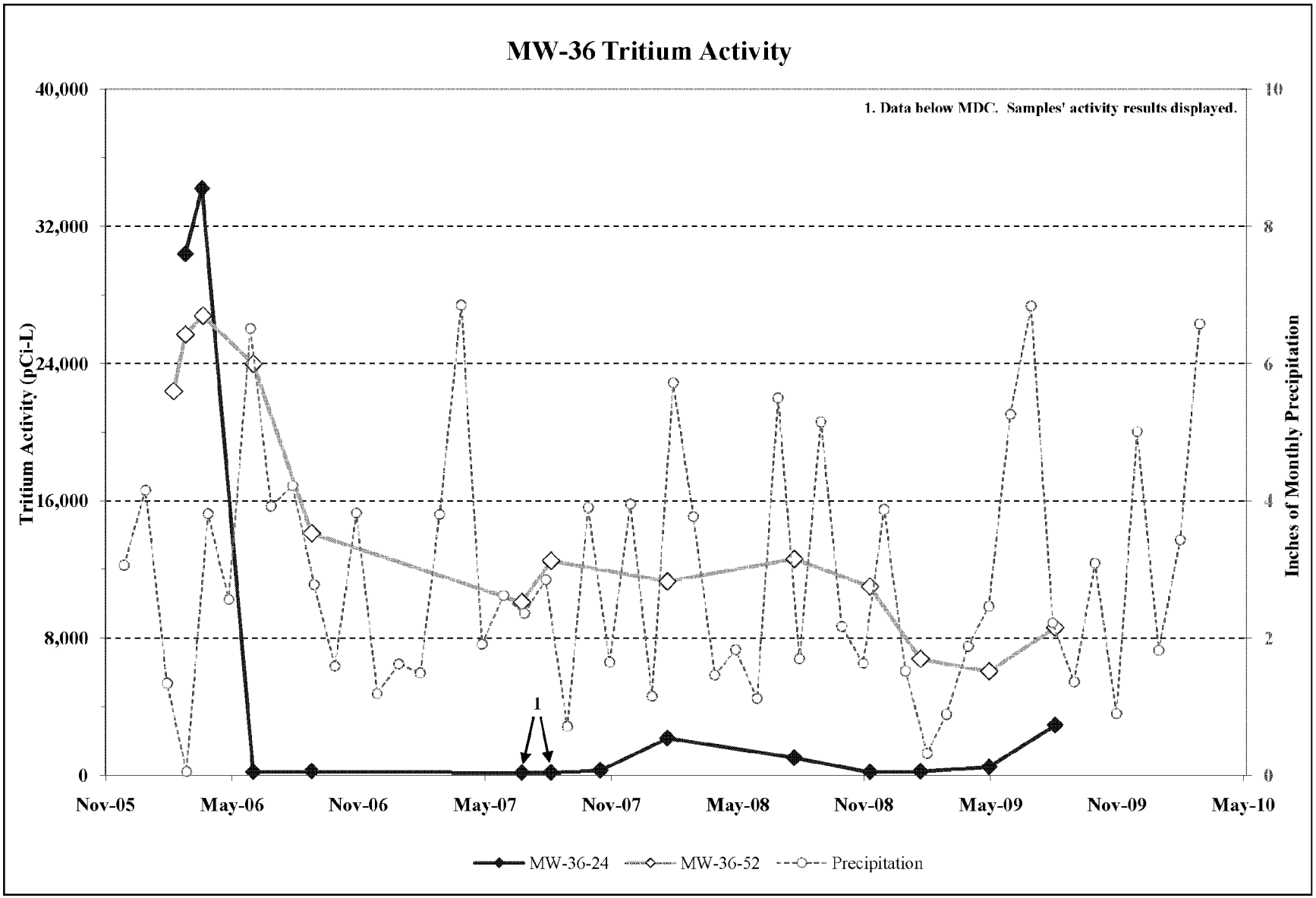

MW-36 Tritium Activity
1. Data below MDC. Samples' activity results displayed.
Tritium Activity (pCi-L)
Inches of Monthly Precipitation
40,000
32,000
24,000
16,000
8,000
0
10
8
6
4
2
0
1
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
MW-36-24
MW-36-52
Precipitation

FIGURE G7

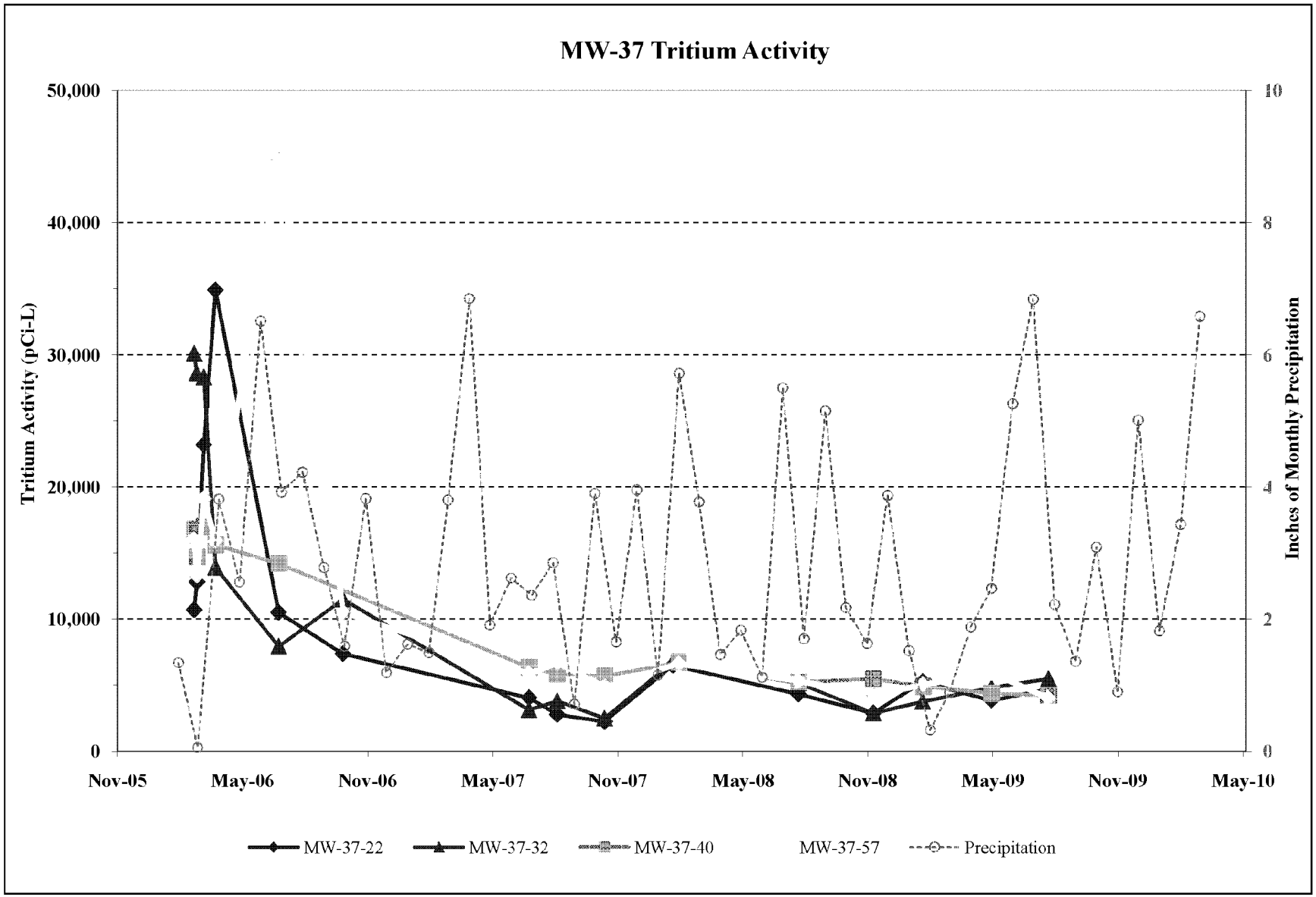

MW-37 Tritium Activity
Tritium Activity (pCi-L)
Inches of Monthly Precipitation
50,000
40,000
30,000
20,000
10,000
0
10
8
6
4
2
0
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
MW-37-22
MW-37-32
MW-37-40
MW-37-57
Precipitation

FIGURE G8

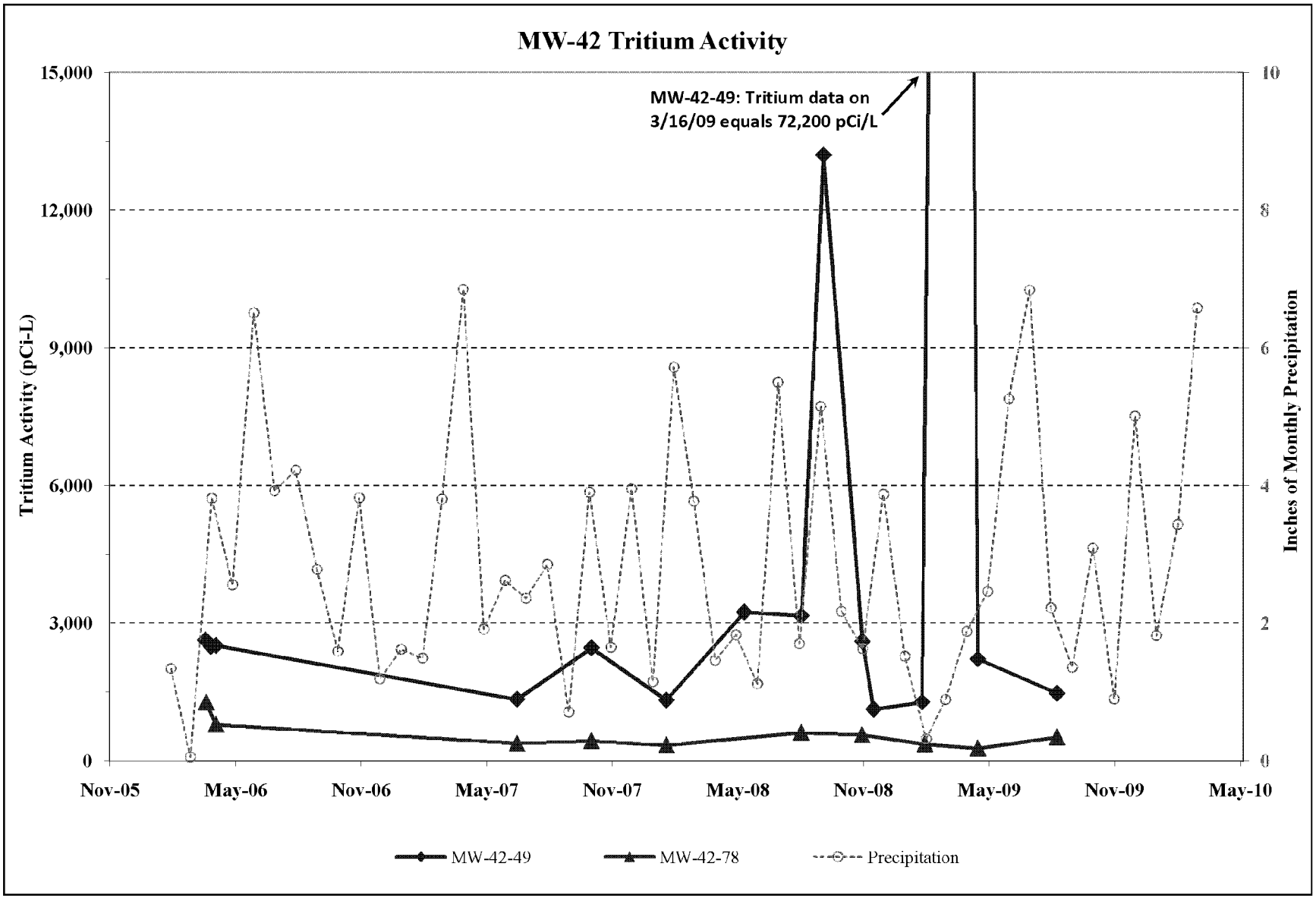

MW-42 Tritium Activity
MW-42-49: Tritium data on 3/16/09 equals 72,200 pCi/L
Tritium Activity (pCi-L)
Inches of Monthly Precipitation
15,000
12,000
9,000
6,000
3,000
0
10
8
6
4
2
0
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
MW-42-49
MW-42-78
Precipitation

FIGURE G9

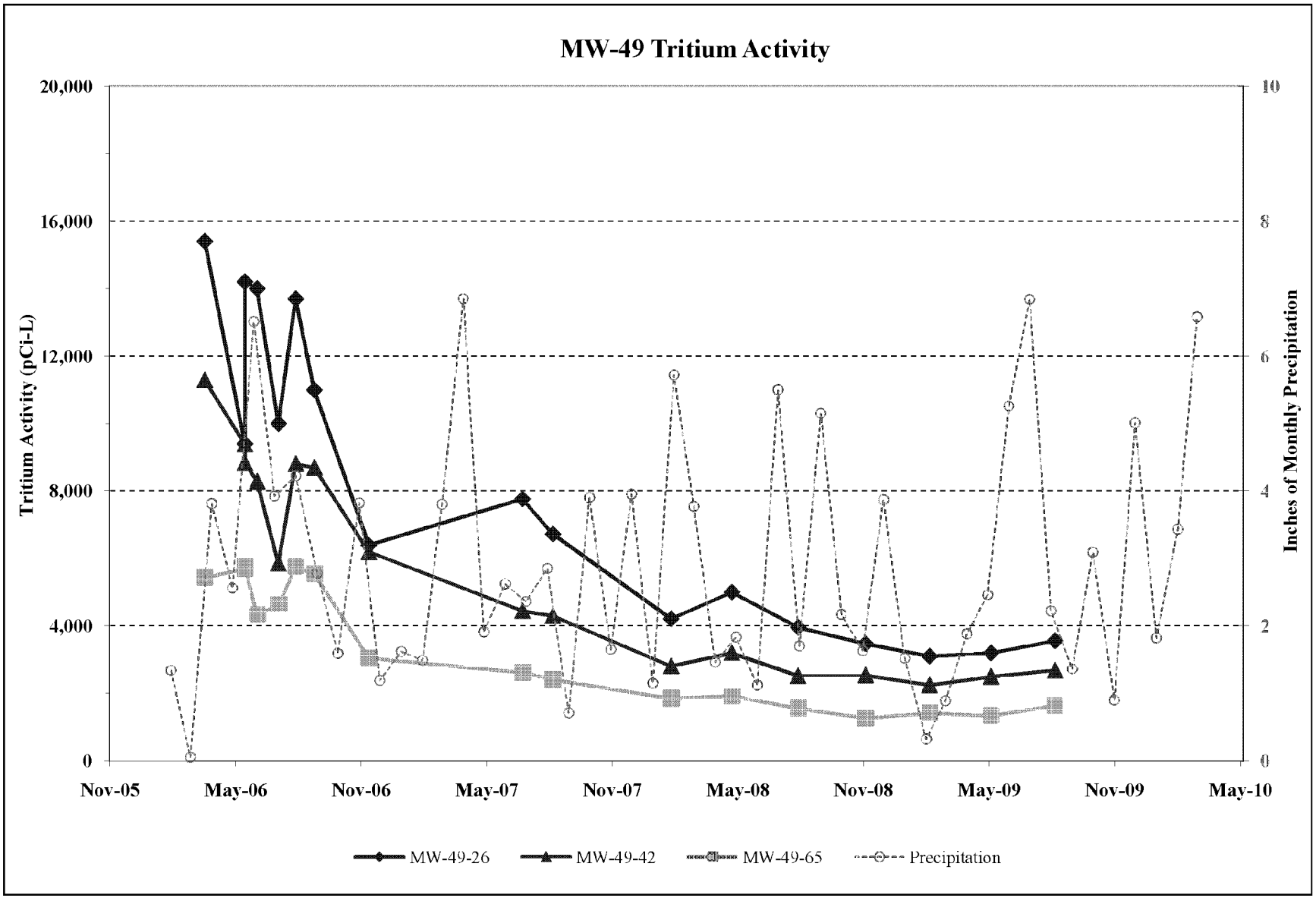

MW-49 Tritium Activity
Tritium Activity (pCi-L)
Inches of Monthly Precipitation
20,000
16,000
12,000
8,000
4,000
0
10
8
6
4
2
0
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
MW-49-26
MW-49-42
MW-49-65
Precipitation

FIGURE G10

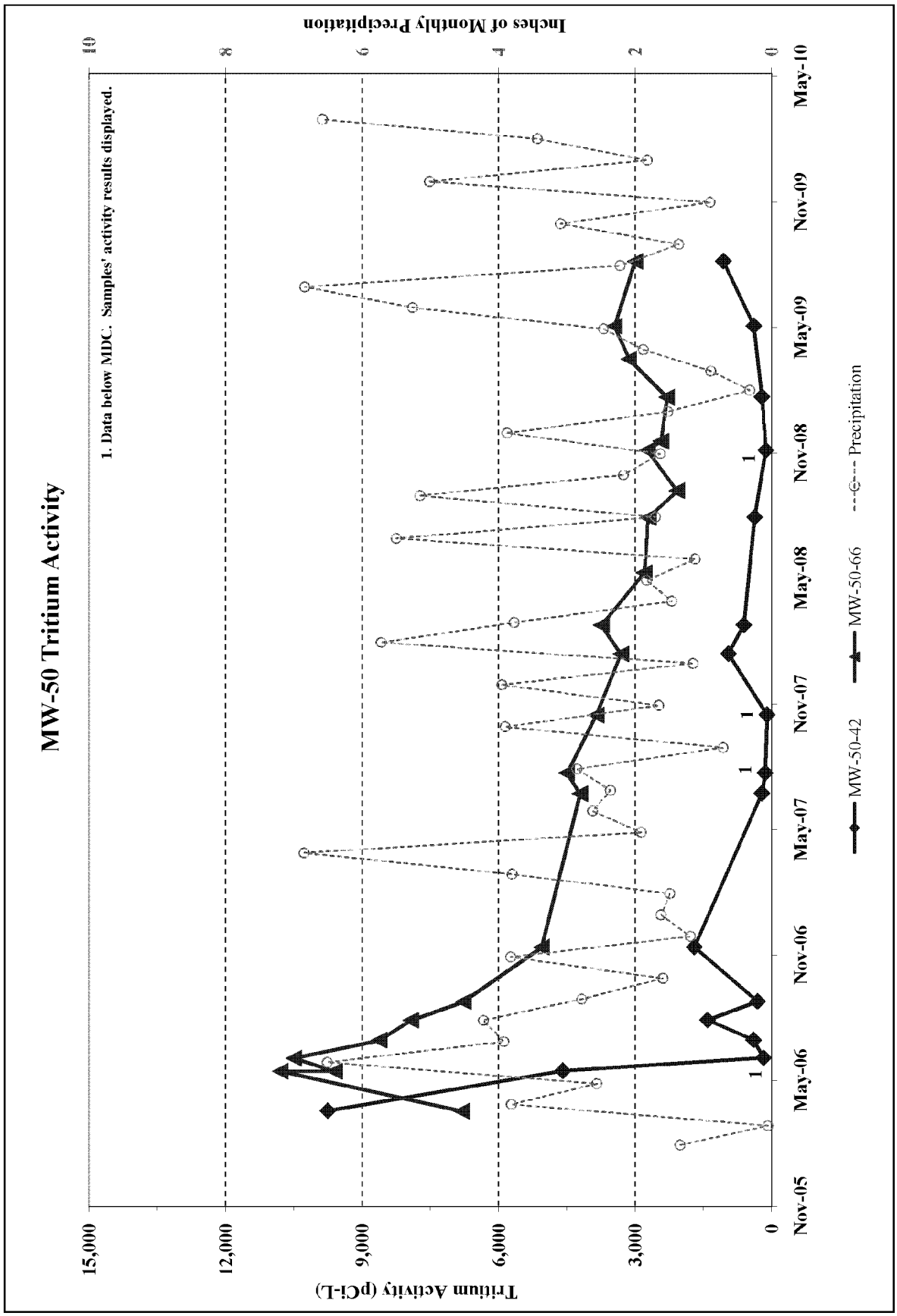

MW-50 Tritium Activity
1. Data below MDC. Samples' activity results displayed.
Tritium Activity (pCi-L)
Inches of Monthly Precipitation
15,000
12,000
9,000
6,000
3,000
0
10
8
6
4
2
0
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
MW-50-42
MW-50-66
Precipitation

FIGURE G11

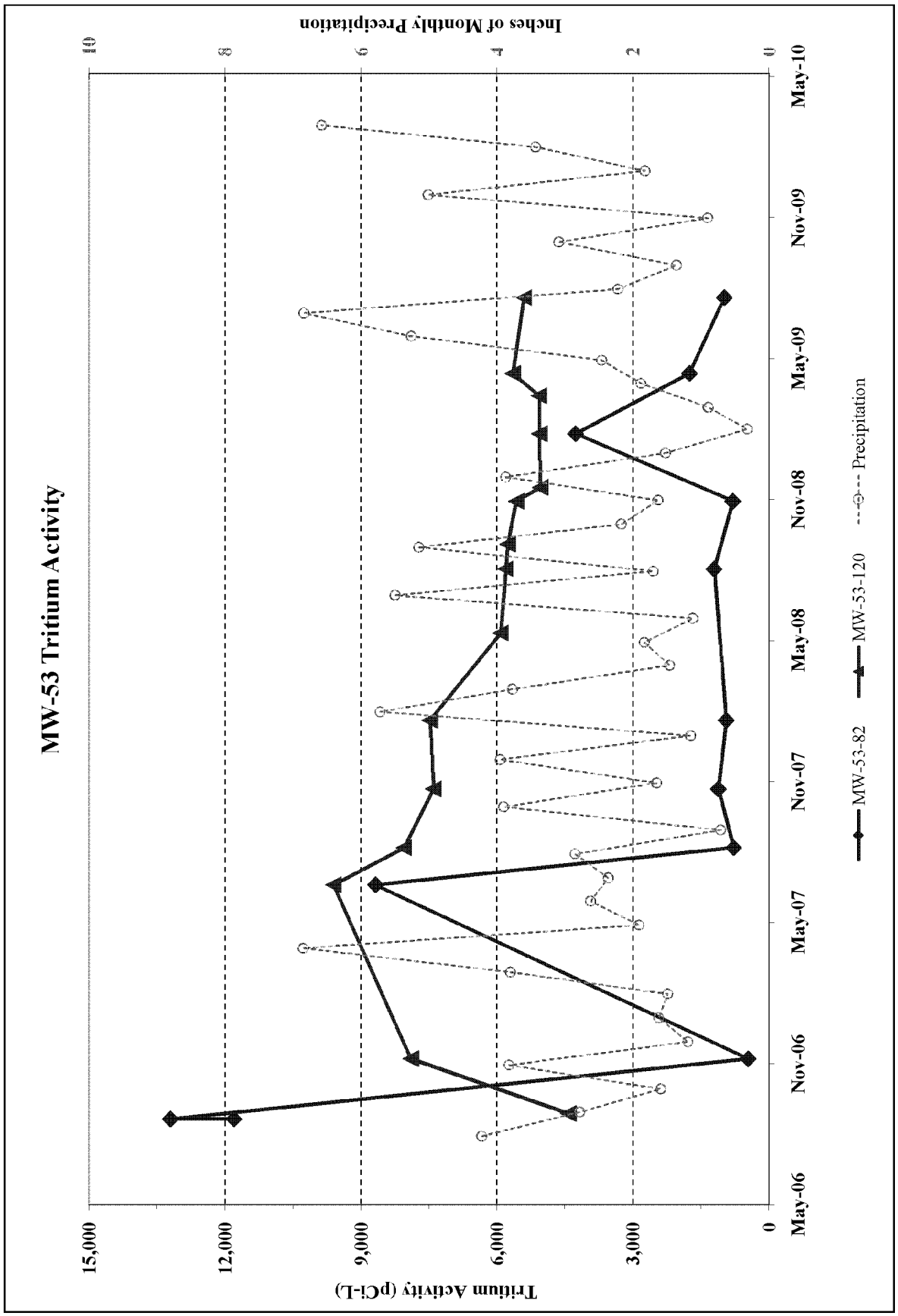


FIGURE G12

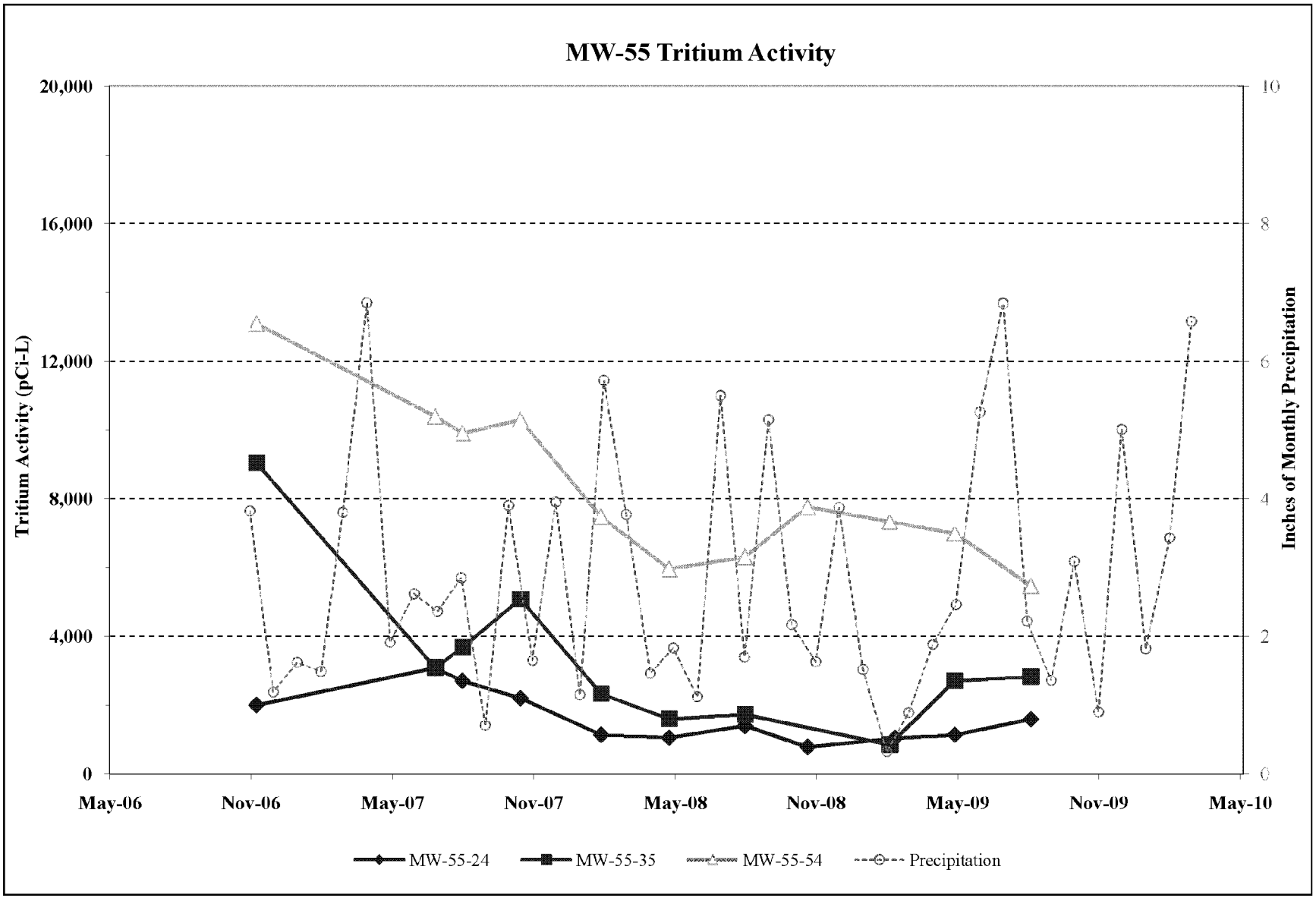

MW-55 Tritium Activity
Tritium Activity (pCi-L)
Inches of Monthly Precipitation
20,000
16,000
12,000
8,000
4,000
0
10
8
6
4
2
0
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
MW-55-24
MW-55-35
MW-55-54
Precipitation

FIGURE G13

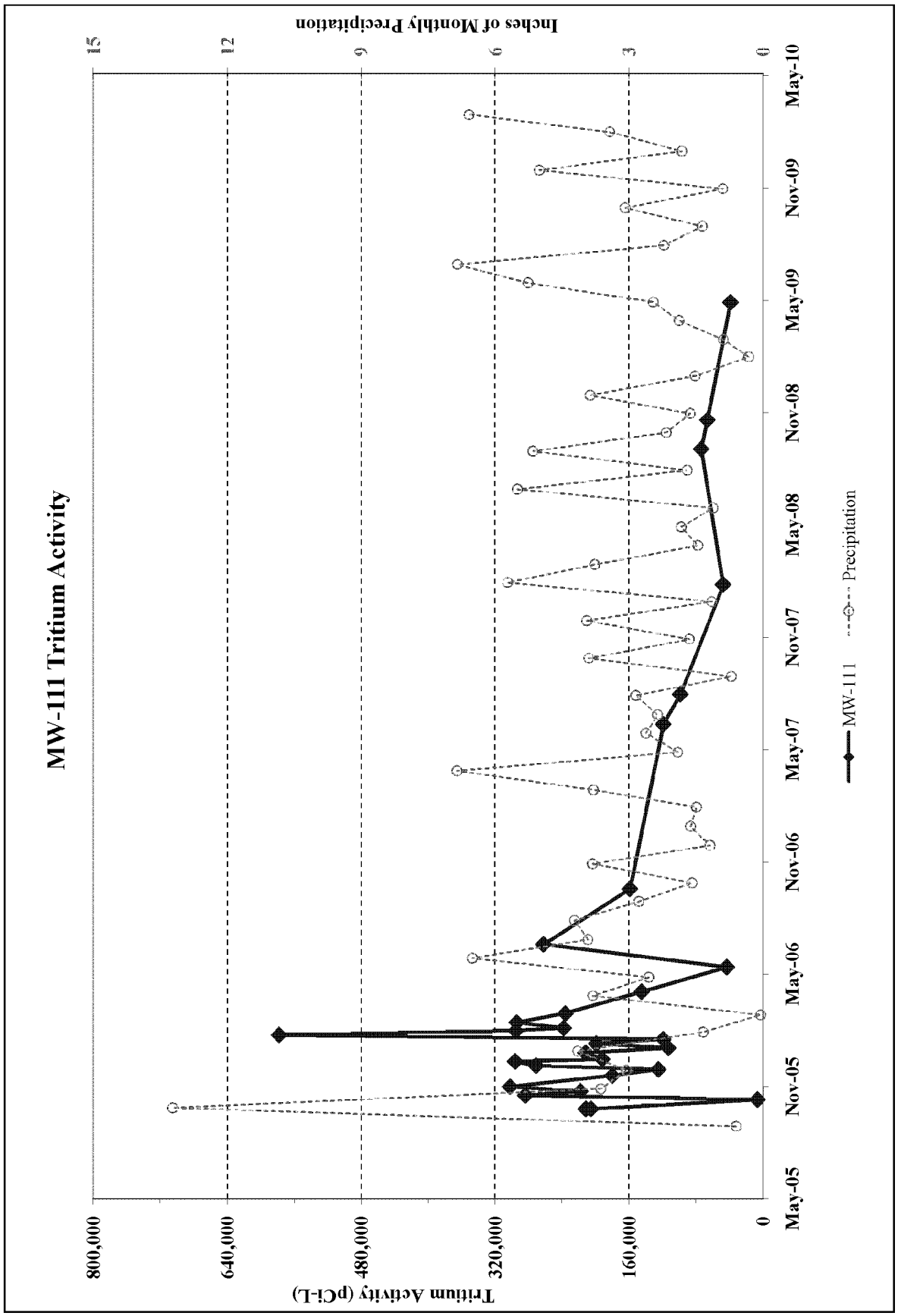
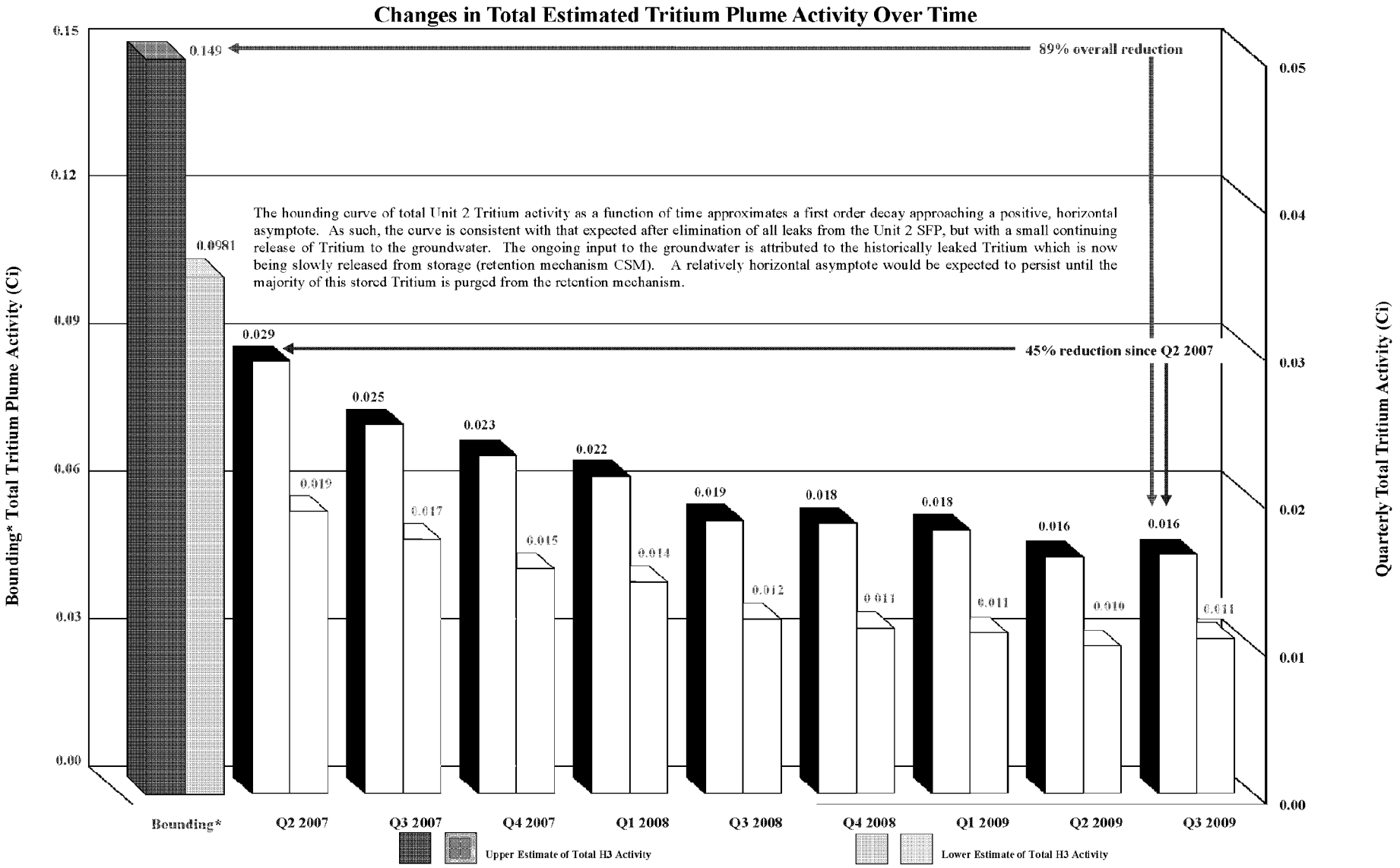

MW-111 Tritium Activity
Tritium Activity (pCi-L)
800,000
640,000
480,000
320,000
160,000
0
Inches of Monthly Precipitation
15
12
9
6
3
0
May-05
Nov-05
May-06
Nov-06
May-07
Nov-07
May-08
Nov-08
May-09
Nov-09
May-10
MW-111
Precipitation

FIGURE G14



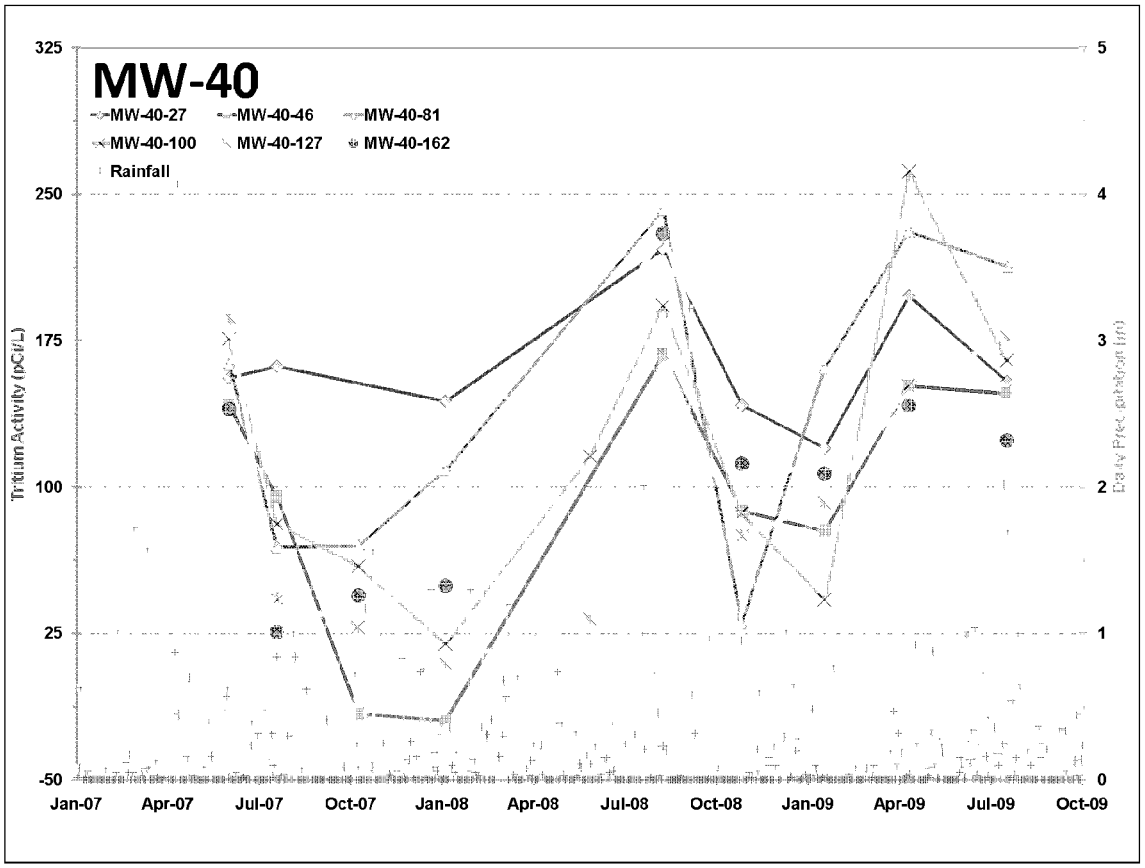
Note: Lower estimate is based on a porosity of 0.0003 which was derived from a pumping test conducted in 2006. Upper estimate is based on a porosity of 0.003 derived from a tracer test conducted in 2007. The Q2 2007 to Q3 2009 Tritium plume activity estimates are each based on Tritium levels measured in the groundwater monitoring installations at individual, quarterly "snapshots" in time.

*The bounding activity estimate, however, encompasses a longer period of time, and is focused on the Tritium levels existing during the earliest portions of the groundwater investigation. During this period of time, before termination of all the identified SFP leaks, Tritium concentrations were at their highest levels, but the network of monitoring installations was still being installed. Therefore, measurements made at a multiple times were required to capture early data covering the full extent of the Tritium plume; primarily over the period from Nov 20005 through Nov 2006 (a smaller percentage of the Tritium levels required inclusion of measurements through Sept 07). For the bounding Tritium plume activity estimate, the highest value recorded for each monitoring location during this time period was used in the analysis. For further discussion see Sections 6.0, 7.0 and 8.0 of the Final Hydrogeologic Site Investigation Report, prepared by GZA and dated January 7, 2008.

FIGURE G15

APPENDIX H: SOUTHERN BOUNDARY WELLS

TEMPORAL TRITIUM TRENDS IN SOUTHERN BOUNDARY WELLS



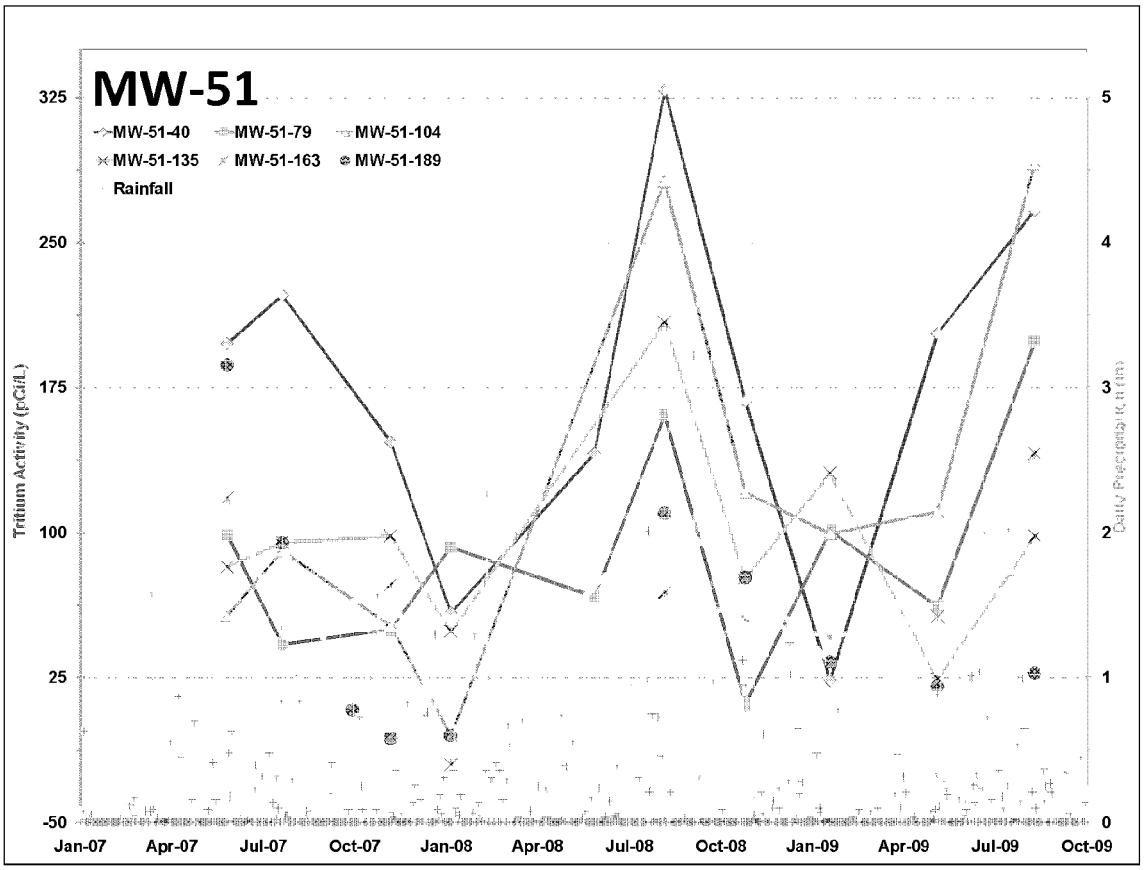


FIGURE H1