



2009 Annual Groundwater Monitoring Report

Operable Unit 2 Northrop Grumman Systems Corporation Bethpage, New York NYSDEC Site #s 1-30-0003A & B

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2009 Annual Groundwater **Monitoring Report**

Operable Unit 2 Northrop Grumman Systems Corporation, Bethpage, New York NYSDEC Site #s 1-30-0003A&B

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1. Introduction

This groundwater monitoring report was prepared to document the operation, maintenance, and monitoring (OM&M) activities for the Operable Unit 2 (OU2) groundwater remedy at the Northrop Grumman Systems Corporation (Northrop Grumman) Bethpage, New York facility. These activities are currently being conducted by Northrop Grumman, in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved OU2 Groundwater Monitoring Plan (ARCADIS Geraghty & Miller, Inc. 2001), as modified in June 2006 (ARCADIS G&M, Inc. 2006) and the Public Water Supply Contingency Plan (PWSCP) (ARCADIS G&M Inc. 2003a) collectively to meet the remedial objectives set forth in the March 2001 OU2 Record of Decision (ROD) (NYSDEC 2001).

This report describes the performance and effectiveness monitoring of the on-site portion of the OU2 groundwater remedy for the period from September 30, 2009 through January 4, 2010, which is referred to in this report as the Fourth Quarter 2009 report period, or the current period. This report also constitutes the 2009 Annual Report, and compares the current data to Year 2009 data and to longer-term data trends, as applicable.

The monitoring program, as well as the findings, conclusions, and recommendations will be re-evaluated, as additional data become available. The complete description of the on-site portion of the OU2 groundwater remedy, the monitoring program, and rationale/basis for collection and evaluation of data can be found in the NYSDEC-approved OU2 Groundwater Monitoring Plan (ARCADIS Geraghty & Miller, Inc. 2001), as modified in June 2006 (ARCADIS G&M, Inc. 2006) and the PWSCP (ARCADIS G&M Inc. 2003a).

2. Monitoring Program

The results obtained from monitoring activities conducted during this reporting period are provided in Tables 1 through 10 and are described and discussed in the following report sections: Remedial System Operational Performance (Section 3), Groundwater Flow (Section 4), and Groundwater Quality (Section 5).

Except as described in Tables 1 through 10 and in Sections 3, 4, and 5 of this report, the procedures, methodologies, and monitoring network utilized for the subject period are consistent with procedures and methodologies used previously (ARCADIS Geraghty & Miller, Inc. 2001; ARCADIS G&M, Inc. 2003a). The complete description

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of the procedures to collect groundwater samples from outpost wells and evaluate and document the results is provided in the PWSCP (ARCADIS G&M, Inc. 2003a).

The locations of the Northrop Grumman site, the OU2 on-site groundwater remedy, the neighboring properties (i.e., the former Naval Weapons Industrial Reserve Plant [NWIRP] and former Occidental Chemical Corporation [OCC]/RUCO Polymer Corporation sites), and existing wells utilized in the monitoring programs are shown on Figure 1. Appendix A of this report contains the field documentation for monitoring activities performed during 2009 by ARCADIS (i.e., groundwater sampling logs and chain-of-custody records).

3. Remedial System Performance Monitoring

This report section summarizes the routine performance monitoring conducted during the Fourth Quarter 2009 and Year 2009 for the on-site portion of the OU2 groundwater remedy, which included the following:

- (1) remedial well water quality monitoring, remedial treatment systems effluent water quality monitoring, remedial treatment systems efficiency monitoring, and determination of volatile organic compound (VOC) mass removal, and
- (2) monitoring of remedial well pumpage and remedial treatment systems treated effluent discharge to on-site recharge basins.

Also summarized in this report section are the remedial treatment system and remedial well troubleshooting as well as non-routine maintenance activities performed by ARCADIS and Northrop Grumman during the Fourth Quarter 2009.

As stated in previous reports, the on-site remedial wells and remedial treatment systems will be referred to by names that are consistent with Northrop Grumman nomenclature, as summarized in the following table. All monitoring activities will utilize the revised nomenclature.

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Former Nomenclature	Revised Nomenclature				
Remedial Wells					
GP-1	Well 1				
GP-3	Well 3				
ONCT-1	Well 17				
ONCT-2	Well 18				
ONCT-3	Well 19				
Remedial Trea	atment Systems				
GP-1	Tower 96				
ONCT	Tower 102				

3.1 Water Quality, Treatment Efficiencies, and Mass Removal

Tables 1 and 7 provide the total VOC (TVOC) concentrations detected in the remedial wells. Table 1 provides remedial well TVOC concentrations and treatment efficiencies for the Tower 96 and Tower 102 remedial treatment system air strippers for the current period, VOC mass removed by the remedial wells for the current period and Year 2009, and cumulative TVOC mass removed since Tower 102 remedial system startup.

TVOC concentrations from the remedial wells ranged from 117 micrograms per liter (μ g/L) (Well 18) to 2,707 μ g/L (Well 3) this period. The discussion of water quality data and trends for the remedial wells is provided in Section 5.1.4 of this report.

A total of approximately 3,196 pounds of VOCs were removed from the aquifer by the remedial wells and treated during the current period. For Year 2009, approximately 12,967 lbs of VOC mass were removed from the aquifer and treated by the OU2 remedial systems. Since full-time startup of the Tower 102 remedial system in November 1998, approximately 146,911 lbs of VOCs have been removed from the aquifer and treated by the Tower 96 and Tower 102 remedial systems.

Northrop Grumman's State Pollutant Discharge Elimination System (SPDES) discharge monitoring results (Permit No. NY0096792) are representative of treated water quality and are used in calculating remedial system treatment efficiency and determining the quality of water returned to the aquifer. SPDES discharge monitoring data are documented on a monthly basis by Northrop Grumman to NYSDEC under separate cover in Discharge Monitoring Reports (DMRs). Northrop Grumman Outfalls 006 and 005, respectively, represent the termini of the Tower 102 and Tower 96 systems effluent water (i.e., inlets to the South Recharge Basins and West Recharge

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Basins), respectively. Based on VOC concentrations in the remedial wells and the SPDES discharge this period, the efficiencies of the Tower 96 and Tower 102 remedial treatment systems for the current period were calculated to be greater than 99.9 percent and 99.9 percent, respectively.

3.2 Remedial System Pumpage and Discharge

Table 1 summarizes the remedial well pumpage (with comparison to design criteria) for the current period and Year 2009. For the current period, Remedial Wells 1, 3, 17, 18, and 19 collectively pumped approximately 531 million gallons (MG) of groundwater, which is equivalent to slightly greater than 100 percent of the design remedial well pumpage volume (525 MG). For Year 2009, the remedial system pumped approximately 2,022 MG, equivalent to greater than 99 percent of the total design remedial well pumpage volume (2,030 MG).

Based on measurements collected by ARCADIS, the South Recharge Basins collectively received the treated effluent discharge from the Tower 102 remedial treatment system along with incidental stormwater runoff and contribution from the Tower 96 remedial system for a total average of approximately 2,982 gpm, equivalent to 412.2 MG, during the current period.

As discussed in previous reports, a portion of the treated water from the Tower 96 remedial treatment system is provided on demand to the Calpine Energy facility for consumptive use. The demand rate is controlled by a "Cla-Val" located within a subsurface transmission pipeline between Tower 96 and the Calpine Energy facility. Based on raw water consumption information provided by Calpine Energy to Northrop Grumman the weighted average facility demand by Calpine for this period was 208 gpm, indicating that the West Recharge Basins received an average discharge rate from the Tower 96 remedial system of approximately 687 gpm this period, equivalent to 95 MG.

Based on water-level and pumping data presented in Table 3, with the exception of Well 18 which could not be measured this period, OU2 remedial well specific capacities remain above the minimum required to sustain the design pumping rates, as such no maintenance was needed on remedial wells this period.

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3.3 Troubleshooting/Maintenance Activities

Only minor short-term repairs, testing of new component systems, and temporary power outages were noted pertaining to the on-site portion of the OU2 Groundwater Remedy in 2009, no non-routine shut down activities took place.

4. Groundwater Flow

Hydraulic monitoring was performed semi-annually in Year 2009, on March 27 and August 4, 2009. Tables 2 and 3 provide the spring and fall water-level measurement data from the semi-annual events, respectively. Table 4 provides the comparison of vertical hydraulic gradients (calculated from August 2009 water-level measurements) to model-predicted gradients for key monitoring well pairs. Figures 2, 3, and 4 depict groundwater elevations and flow directions in the shallow (water table), intermediate, and deep2 zones, respectively.

Based on the hydraulic monitoring results obtained from the 2009 semi-annual events, groundwater flow conditions are consistent with prior years during which the OU2 remedial system was determined to be providing hydraulic containment of VOCs in groundwater on the Northrop Grumman and NWIRP sites. Specifically, the data indicate vertical hydraulic gradients in the shallow-intermediate wells pairs are oriented downward and are close to or greater than model predicted values (Table 4). As shown on Figures 2 and 3, mounding of the water table and potentiometric surface exists in the shallow and intermediate zones, respectively, extending beneath the South Recharge Basins and across the Northrop Grumman site southern boundary. Downward vertical gradients were also present in the intermediate-deep and deepdeep2 well pairs, supporting the conclusion that groundwater is flowing in a predominantly vertical direction in the deep zone along the Northrop Grumman site southern boundary. Data obtained in Year 2009 indicates that the combination of shallow recharge at the South Recharge Basins coupled with pumpage of the remedial wells in the D2 zone forms a hydraulic barrier to groundwater flow that is preventing the off-site migration of VOC-impacted groundwater. The capture zone formed by the combined pumpage of OU2 remedial wells extended approximately 600 feet downgradient of Well 17 (Figure 4).

5. Groundwater Quality

This report section describes the analytical results of the various groundwater quality monitoring activities for the Fourth Quarter 2009 that are specified in the NYSDEC-

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approved Groundwater Monitoring Plan (ARCADIS G&M, Inc., 2001; ARCADIS G&M, Inc. 2006) and the PWSCP (ARCADIS G&M Inc., 2003b). Analytical results are summarized in Tables 5 through 10.

5.1 Volatile Organic Compounds

The evaluation of VOC concentrations is presented herein in consideration of the following factors: (1) proximity to the hydraulic barrier formed by the on-site portion of the OU2 groundwater remedy (i.e., upgradient, along the Northrop Grumman site southern boundary, and downgradient of the hydraulic barrier), (2) hydrogeologic zone (i.e., shallow, intermediate, deep, and D2 zones), and (3) NYSDEC Standards, Criteria, and Guidance (SCGs) Values.

Tables 5 through 10 provide the complete analytical results of samples collected for VOC analysis from monitoring wells, remedial wells, outpost wells, and remedial treatment systems for this period. Time-concentration graphs depicting the long-term VOC concentration trends are shown on Figures 5 through 11.

5.1.1 Shallow Zone

The analytical results of monitoring in the shallow zone in 2009 are provided in prior reports (ARCADIS of New York, Inc. 2009a; b, and c) and these data are incorporated herein by reference. Shallow wells sampled during the Third Quarter 2009 (GM-15S, GM-21S, GM-78S, HN-40S, and HN-42S) exhibited no detections of VOCs with one exception. Trichloroethene (TCE) has been detected in well GM-15S in both the First and Third Quarters at concentrations above NYSDEC SCGs. This monitoring well is within the capture zone of the remedial wells; therefore, groundwater in this area is hydraulically contained and over time will be extracted and treated.

Wells located near or immediately downgradient of the Northrop Grumman site southern boundary (GM-21S and GM-78S) continue to exhibit results similar to data collected since the start up of the OU2 Groundwater Remedy in November 1998, confirming that the operation of the on-site portion of the OU2 groundwater remedy has formed an effective hydraulic barrier that prevents the off-site migration of VOC-impacted groundwater in the shallow zone.

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5.1.2 Intermediate Zone

Analytical data for intermediate monitoring wells are provided in Table 5. Intermediate wells sampled during this period (GM-20I, GM-21I, and GM-79I) are located immediately downgradient of the Northrop Grumman site southern boundary.

Laboratory results indicated no detections of VOCs along the Northrop Grumman site southern boundary during this period or Year 2009. These analytical results confirm that the operation of the on-site portion of the OU2 groundwater remedy has formed an effective hydraulic barrier that prevents the off-site migration of VOC-impacted groundwater in the intermediate zone.

5.1.3 Deep Zone

Groundwater monitoring data from the deep zone for the Fourth Quarter 2009 is summarized in Table 6 and key data trends are shown in Figures 6, 7, 8, 10, and 11. Data trend graphs include key wells with detectable concentrations of VOCs that were sampled in Year 2009.

Well GM-13D (most recently sampled in the Third Quarter 2009 [(ARCADIS of New York, Inc. 2009c]), located upgradient of the OU2 Groundwater Remedy, continued to exhibit a downward trend in TVOC concentrations with a decrease in TVOC concentrations of 84 percent since year 2000 (Figure 7).

Well GM-74D, located upgradient of the remedial wells, did not exhibit detections in the Year 2009. The other four deep monitoring wells (i.e., GM-39D_A, GM-39D_B, and GM-73D) located on-site, along the Northrop Grumman site southern boundary, and upgradient of the remedial wells (Figure 1), exhibited SCG exceedances in the Year 2009. These monitoring wells are within the capture zone of the remedial wells; therefore, groundwater in this area is hydraulically contained and over time will be extracted and treated.

Groundwater quality data from wells immediately downgradient of the Northrop Grumman site (Wells GM-20D and GM-21D) exhibited no VOC detections during this period and Year 2009. Well GM-79D continues to exhibit a downward trend (Figure 8).

Wells located further downgradient of the hydraulic barrier exhibited TVOC concentrations consistent with the expected concentrations in the portions of the groundwater VOC plume not actively remediated. The deep well located at the GM-

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75D2 Area (Well GM-34D) historically exhibited VOCs exceeding SCGs and VOC concentrations that have exhibited a decrease trend since December 2006 (Figure 10). Well GM-34D is located south of Well GM-75D2 (Figure 1 – see Section 5.1.4 for additional detail). The Navy completed drilling of vertical profile borings as part of an additional investigation of the GM75D2 Area. The report has been submitted separately to NYSDEC.

In the GM-38 Area, southeast of the Site, Well GM-38D continues to exhibit VOC concentrations consistent with the long-term trend (Figure 11). The Navy completed construction of the GM-38 Area Groundwater Remedy and system startup occurred in September 2009. Refer to reports prepared by the Navy for additional details on the OM&M of the GM-38 Groundwater Remedy.

Groundwater quality data continues to support the conclusion that the expected bifurcation of the VOC plume is occurring along the Northrop Grumman site southern boundary, as shown by no detections in wells located within the capture zone immediately off site. SCG exceedances continue to persist in wells screened in the portion of the groundwater VOC plume not actively remediated.

In general, the water quality data from the deep wells sampled during the current period and Year 2009 continue to support the interpretation of the hydraulic data and confirm that the operation of the on-site portion of the OU2 groundwater remedy has formed an effective hydraulic barrier that prevents the off-site migration of VOC-impacted groundwater in the deep zone.

5.1.4 Deep2 Zone and Remedial Wells

Groundwater monitoring data from the D2 zone are summarized in Table 7 and data trends are presented on Figures 5, 6, 9, 10, and 11. The data trend graphs presented in this report include key wells with detectable concentrations of VOCs that were sampled this period.

Well GM-33D2 (Figure 5), located along the southwestern boundary of the Northrop Grumman site, exhibited three VOCs (Freon 113, TCE, and tetrachloroethene) that exceeded SCGs in this period, with similar exceedances detected the first three quarters of Year 2009. The trend in TVOC concentrations in Well GM-33D2 remains downward, consistent with the long-term trend. Well GM-73D2 (Figure 5) exhibits a stable trend with VOC concentrations at or close to 100 ug/l. The other Northrop Grumman site boundary D2 wells (GM-15D2 and GM-74D2 – Figure 6) continue to

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exhibit stable VOC concentrations less than 50 μ g/L. Wells GM-15D2, GM-33D2, GM-73D2, and GM-74D2 are located within the capture zone of the remedial wells (which are screened in the D2 zone) and therefore groundwater in this area is hydraulically contained and over time will be extracted and treated by the on-site portion of the OU2 groundwater remedy.

For the GM-75D2 Area, off-site Wells GM-34D2, GM-35D2 and GM-75D2 had one or more SCG exceedances each during this period, with TVOC concentrations of 229 μ g/L, 215 μ g/L and 117 μ g/L, respectively. These data are consistent with concentrations expected in the off-site portion of the VOC plume not actively remediated. TVOC concentrations in Well GM-75D2 (Figure 10) have shown a decreasing trend since the Year 2002. The data indicate that TVOC concentrations in Well GM-35D2 (Figure 10) exhibit a slight downward trend since 2002. Section 5.1.3 of this report provides information on Navy activity in the GM-75D2 Area.

The GM-38 Area monitoring results during Year 2009 were provided in prior reports (ARCADIS of New York, Inc. 2009 a; b, c). TVOC concentrations in Well GM-38D2 have decreased since Year 2002 (Figure 11). Section 5.1.3 of this report provides information on Navy activity in the GM-38 Area.

The other off-site D2 zone monitoring wells continue to exhibit stable to decreasing TVOC concentration trends.

For the remedial wells, TVOC concentrations ranged from 117.4 μ g/L (Well 18) to 2,707 μ g/L (Well 3). With the exception of Well 19, the remedial wells exhibit overall stable to decreasing trends since mid-2006. Well 3 continues to exhibit the highest TVOC concentrations. Refer to Section 3 of this report for a discussion of remedial well performance and VOC mass removed. Well 19 has exhibited an increase trend for the period of record.

In general, the water quality data from the D2 wells sampled during the current period and Year 2009 continue to support the interpretation of the hydraulic data and confirm that the operation of the on-site portion of the OU2 groundwater remedy has formed an effective hydraulic barrier that prevents the off-site migration of VOC-impacted groundwater in the D2 zone.

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5.2 Outpost Monitoring

The results of the current outpost well monitoring round are provided in Table 8. The complete description of the procedures to collect groundwater samples from the outpost wells and evaluate and document the results is provided in the PWSCP (ARCADIS G&M, Inc., 2003b).

VOCs were not detected in Outpost Wells OW1-2, OW3-1, OW3-2, and OW4-2 during this period and the period of record. Outpost Wells OW1-1 and OW1-3, exhibited detections of site-related VOCs below their respective SCGs, but above the TVOC outpost trigger values this period. Wells OW2-1 and OW2-2 were not monitored during Year 2009 due to on-going Navy activities related to detections of benzene and MTBE. Freon 113 was detected in Well 4-1 but at a concentration less than its respective SCG and trigger value. As no new exceedances of outpost trigger values occurred in Year 2009, the requirements for notification/reporting of the initial trigger value exceedances, as outlined in the PWSCP (ARCADIS G&M, Inc., 2003b), have already been met.

Based on information provided by Aqua New York, TCE was detected in two public supply wells in the Aqua New York Seaman's Neck Road well field (downgradient of Outpost Wells 3-1 and 3-2). Specifically TCE was detected in Supply Well 3S at 0.64 µg/L in September 2006 and in Supply Well 4S at 0.5 µg/L in February 2007. A field investigation to delineate TCE in groundwater near the Aqua New York Seaman's Neck Road well field was completed by the Navy. The report of findings has been submitted to the NSYDEC by the Navy.

5.3 Vinyl Chloride Monomer

Vinyl chloride monomer (VCM) was detected in Well 3 during this period and the Year 2009, but was not detected in the other remedial wells or monitoring wells sampled this period. Implementation of remediation of groundwater to address VCM upgradient (northwest) of Well 3 is currently underway by Occidental Chemical Corporation (OCC) under USEPA oversight.

5.4 Cadmium and Chromium

Cadmium and chromium analytical results for Year 2009 are provided in prior reports (ARCADIS of New York, Inc. 2009a and 2009c). Trend analyses of cadmium trends are shown on Figure 12. While chromium in wells monitored are provided on Figures

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13 and 14. No cadmium exceedances were detected in Wells N-10631, GM-78S and GM-78I, downgradient of former Northrop Grumman Plant 2 in 2009.

Chromium concentrations for the wells near former Northrop Grumman Plant 2 (MW-01GF and MW-02GF) continued to be below the SCG (Figure 13), with one exception. Well MW-02GF did have a detection of chromium that exceeded the SCG in the First Quarter; however the concentration decreased to below SCG (22 μ g/L) in the Third Quarter, to a concentration consistent with the long-term trend.

Since 2006, the chromium concentration trends in the wells near former Northrop Grumman Plant 1 have been stable to decreasing over time. Notably, the Cr concentration in Well MW-05 has decreased by a factor of three since late 2005 (Figure 14).

5.5 Tentatively Identified Compounds

Tentatively Identified Compounds (TICs) detected during Year 2009 are provided in Table 9. One TIC was detected in four of the rinsate samples collected during Year 2009. A review of the cumulative TIC data shows no discernable trends in concentrations or consistency in TIC detections.

5.6 QA/QC Samples and Data Validation

The results of analysis of QA/QC(field blank and trip blank) samples from the current period are provided in Table 10.

ARCADIS performed validation of all groundwater quality data collected (including TICs) by following the contract laboratory program national functional guidelines for organic and inorganic data review (USEPA 1999). The quality of the data is considered acceptable with the qualifications indicated on Tables 5 through 10.

6. Annual Groundwater Model Update Evaluation

Currently, ARCADIS is updating information such as public water purveyors' well pumpage and water quality data on a regional scale, as well as water quality data collected by ARCADIS and Northrop Grumman from the current groundwater monitoring network (including monitoring well and vertical profile boring data) within the regional model. A comparison of these data with data currently incorporated in both

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the conceptual site model and the numerical groundwater model will be performed and evaluated in 2010.

7. Summary and Conclusions

- 1. The following data indicate that the OU2 groundwater remedy continues to meet remedial performance goals for Year 2009.
 - a. During the current period, the OU2 remedial wells pumped 525 MG, or slightly greater than 100 percent of the design volume of groundwater, while the recharge basins received a collective total of 507 MG of treated groundwater, or 165 percent of the design value. For the Year 2009, the OU2 remedial wells pumped 2,022 MG, or slightly greater than 99 percent of the design volume of groundwater, while the recharge basins received approximately 1,753 MG of treated groundwater, or 147 percent of the design value.
 - Based on data presented in prior reports, OU2 remedial well specific capacities remain above the minimum required to sustain the design pumping rates.
 - c. Approximately 3,196 lbs of VOCs were removed from the aquifer and treated by the on-site portion of the OU2 groundwater remedy during the current period. In Year 2009, approximately 12,967 lbs of VOCs were removed from the aquifer and treated, and approximately 146,911 lbs of VOCs were removed and treated since full-time system startup in November 1998.
 - d. The treatment efficiencies of both groundwater treatment systems remain above 99 percent for the current period.
- 2. The following data indicate that the OU2 groundwater remedy continues to meet remedial effectiveness goals for Year 2009.
 - a. The hydraulic data indicate that hydraulic containment continues in a manner consistent with previous years.
 - b. Water quality data from wells immediately downgradient of the hydraulic barrier show no or trace VOC concentrations or decreasing VOC concentration trends. Groundwater quality data indicates that bifurcation of the VOC plume is continuing in the deep and D2 zones south of the hydraulic barrier.

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- 3. Other significant findings and conclusions with respect to groundwater for Year 2009 are summarized as follows:
 - Based on data for Year 2009, in the shallow, intermediate, and deep zones, the majority of wells located along the Northrop Grumman site perimeter showed trace or non-detectable concentrations of VOCs.
 - b. The majority of D2 wells located along and immediately downgradient of the Northrop Grumman site southern boundary exhibit stable or decreasing concentrations of VOCs. Such wells are located within the capture zone of the remedial wells. Wells located in areas not actively remediated (further downgradient of the Northrop Grumman site) exhibit concentrations indicative of expected VOC plume heterogeneity. The Navy completed drilling of vertical profile borings as part of an additional investigation of groundwater in the GM-75D2 Area and has submitted a report to NYSDEC. The Navy has completed the construction of the Groundwater Remedy in the GM-38 Area and system startup occurred in September 2009.
 - c. Site-related VOCs were detected in Outpost Wells OW1-1, OW1-3 and OW4-1. The remaining outpost wells currently monitored exhibited no VOC detections. Aqua New York Seaman's Neck Road well field (downgradient of Wells OW3-1 and OW3-2) has exhibited trace TCE concentrations in the two supply wells. These detections were investigated concurrent to the GM-75D2 Area by the Navy and the GM-75D2 Area report has been submitted to the NSYDEC.
 - d. The Cd/Cr analytical results from groundwater monitoring wells around and downgradient of former Plant 2 indicated Cd below the SCG. Cr concentrations continue to be below the SCG. Based on these data, the requirements to terminate post-closure Cd/Cr monitoring of former Plant 2 have been met.
 - e. Cr concentrations near former Plant 1 continue to exhibit stable to declining trends.

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Operable Unit 2 Northrop Grumman Systems Corporation, Bethpage, New York NYSDEC Site #s 1-30-0003A & B

8. Recommendations

Based on the results included in this report, ARCADIS recommends the following:

- 1. The groundwater monitoring of wells at former Plant 2 for Cd/Cr can be discontinued.
- 2. The current model should be evaluated in 2010, per the provisions in the PWSCP.

2009 Annual Groundwater Monitoring Report

Operable Unit 2 Northrop Grumman Systems Corporation, Bethpage, New York NYSDEC Site #s 1-30-0003A & B

9. References

- ARCADIS of New York, Inc. 2009a. Results for First Quarter 2009 Monitoring,
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- ARCADIS of New York. 2009b. Results for Second Quarter 2009 Monitoring, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.
- ARCADIS of New York. 2009c. Results for Third Quarter 2009 Monitoring, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.
- ARCADIS G&M, Inc. 2006. Petition for Recommended Modifications to the Operable Unit 2 Groundwater Monitoring Plan, Northrop Grumman Corporation, Bethpage, New York. June 2006.
- ARCADIS G&M, Inc. 2003a. Public Water Supply Contingency Plan, Naval Facilities Engineering Command. July 22, 2003.
- ARCADIS G&M, Inc. 2003b. 2002 Annual Groundwater Monitoring Report, Northrop Grumman Corporation, Bethpage, New York. August 14, 2003.
- ARCADIS Geraghty & Miller, Inc. 2001. Operable Unit 2 Groundwater Monitoring Plan. Northrop Grumman Corporation, Bethpage, New York. May 11, 2001.
- U.S. Environmental Protection Agency (USEPA). 1999. Contract Laboratory Program National Functional Guidelines for Organic Data Review. October 1999.



Table 1. Operational Summary for the On-Site Portion of the Operable Unit 2 Groundwater Remedy, Fourth Quarter 2009, Year 2009, and Period of Record, Northrop Grumman Systems Corporation, Bethpage, New York.

Identification	Design Pumping/ Recharge Rate ^(a) (gpm)	4th Quarter Actual Average Pumping/Recharge Rate ^(b) (gpm)	4th Quarter Design Total Pumpage/Recharge (MG)	4th Quarter Actual Total Pumpage/ Recharge (MG)	4th Quarter Percent of Total Design Pumpage/ Recharge	Annual 2009 Design Total Pumpage/Recharge (MG)	Cumulative Year-to-Date Actual Total Pumpage ^(b) (MG)	Annual 2009 Percent of Total Design Pumpage/ Recharge	Current TCE Concentration (ug/L)	Current TVOC Concentration (c) (ug/L)	4th Quarter 2009 VOC Mass Removed ^(d) (lbs)	Annual 2009 VOC Mass Removed ^(e,f) (lbs)	Cumulative VOC Mass Removed ^(b) (lbs)
Remedial Wells		Ground	water Removed from	Aquifer									
Well 1 Well 3 Well 17 Well 18 Well 19 Rounded Totals:	800 700 1,000 600 700 3,800	830 710 1,007 634 706 3,887	110.6 96.8 138.2 82.9 96.8 525	113.1 97.5 137.8 86.8 95.6 531	102% 101% 100% 105% 99% 101%	427.4 374.0 534.2 320.5 374.0 2,030	438 376 526 325 357 2,022	102% 101% 98% 101% 95% 100%	370 2,400 210 95 190	480 2,707 247 117 223	452 2,198 283 85 178 3,196	1,768 9,010 1,183 332 674.0 12,967	31,153 61,986 45,452 4,528 3,792 146,911
Recharge Basins (a)		Treated	Water Recharged to A	Aquifer ^(h)									
West Recharge Basins South Recharge Basins Rounded Totals:	0 2,231 2,231	687 2,982 3,669	0 308.4 308	95.0 412.2 507.2	 134% 165%	0 1,191.9 1,192	517.0 1,235.6 1,753	 104% 147%	 	 	 	 	
Treated Water Sent to C	alpine												
Calpine Demand	100-400	208	14-56	28.8		56-224	134 ^(g)						
Treatment Efficiencies		Average	SPDES Outfall TVOC	Concentration	s Fourth Quart	er 2009 (ug/L) ^(f)							
Tower 96 System Efficient Tower 102 System Efficie		>99.9 % >99.9 %	 	<0.5 <0.5		 	 	 	 	 	 	 	

see footnotes on last page



Table 1. Operational Summary for the On-Site Portion of the Operable Unit 2 Groundwater Remedy, Fourth Quarter 2009, Year 2009, and Period of Record, Northrop Grumman Systems Corporation, Bethpage, New York.

(a)	- Design remedial well pumping rates based on computer modeling (ARCADIS G& M, Inc. 2003c). Acceptable design recharge rates based on computer modeling (ARCADIS G&M, Inc. 2004b). Design pumping and recharge rates were modified in April, 2005. Recharge includes remedial well pumpage (minus Calpine demand, Oxy biosparge system demand, incidental irrigation use, and pipe loss), plus incidental runoff from precipitation. Current average recharge rates have been determined using the entire 96-day span of time as opposed to current average pumping rates, which account for varying amounts of downtime, as indicated below.							
b)	- OU2 wells were operational during the Fourth Quarter 2009, at the following percentages: Well-1 (98.6%), Well-3 (99.3%); Well-17 (99%), Well-18 (99%), and Well-19 (98%). The Actual Average Pumping Rates and rate of treated water sent to Calpine are for when the wells are pumping. "Cumulative" represents data obtained since system startup in November 2008.							
(c)	- The TVOC concentration for each well was calculate	d based on Fourth Quarter 20	009 groundwater monitoring data (Table 7).					
(d)	- TVOC mass removed is based on the TVOC data given	en above and the following fo	ormula:					
	(TVOC concentration in uq/L) X (qallons pumped)	((3.785 L/gal) X (1 x 10 ⁻⁶ g/u	uq) X (2.2 x 10 ⁻³ lb/g)					
(e)	Air Stripping Efficiency calculated from values above a	•						
	Г	Average	SPDES TVOC Concentration at Outfall					
	1 - ([(TVOC _{Well}	11 X Q Well 1) + (TVOC Well 2 X Q Well 2) etc]					
	. L (—		SPDES TVOC Concentration at Outfall 11 X Q Well 1) + (TVOC Well 2 X Q Well 2) etc] (Q Well 1 + Q Well 2 etc)					
	-When non-detectable levels of VOCs are found in the							
(f)	-Towers 102 and 96 outfalls are identified as Outfalls (Basins, respectively). Complete SPDES reporting pro		mmonly known as the South Recharge Basins and Plant 5 Recharge nder separate cover.					
(g)	-Cumulative Year-to-Date Actual Total Pumpage for T	eated Water to Calpine inclu	des adjustment from 37 MG to 59.2 MG in Quarter 3 2009 based on revised totalizer readings obtained from NGC.					
(h)	-Cumulative Year-to-Date Actual Total Pumpage for Total For Calpine consumption, see note (g).	eated Water to West recharg	ge basins includes adjustment from 145.2 MG to 124.8 MG in Quarter 3 2009 due to based on revised totalizer readings (obtained from NGC)					
	Not Available or Not Applicable	lb/g	pounds per gram					
TVOC	Total Volatile Organic Compounds	lbs	pounds					
g/ug	grams per microgram	MG	Million Gallons					
gpm	gallons per minute	ug/L	micrograms per liter					
L/gal	Liters per gallon	OU2	Operable Unit 2					
SPDES	State Pollutant Discharge Elimination System	Q	Pumping Rate					
NGC	Northrop Grumman Corporation	NYSDEC	New York State Department of Environmental Conservation					



Table 2. Water-Level Measurement Data, March 27, 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

	Measuring Point			
	Elevation	Depth to Water	Water-Level Elevation	
Well Identification	(ft msl)	(ft bmp)	(ft msl)	
Shallow Wells				
FW-03	124.30	53.60	70.70	
N-9921	94.23	30.17	64.06	
N-10597	109.85	39.18	70.67	
N-10600	102.41	36.78	65.63	
N-10631	103.47	35.99	67.48	
N-10633	103.80	37.00	66.80	
N-10634	101.20	37.66	63.54	
N-10821	91.58	32.02	59.56	
GM-15S	109.44	42.50	66.94	
GM-16SR	115.86	45.18	70.68	
GM-17SR	115.79	42.75	73.04	
GM-18S	107.60	38.70	68.90	
GM-19S	109.86	40.15	69.71	
GM-21S	105.81	33.18	72.63	
GM-78S	104.94	38.75	66.19	
GM-79S (N-10628)	100.88	37.75	63.13	
IN-24S	120.32	49.70	70.62	
IN-40S	116.35	46.61	69.74	
IN-42S	120.32	48.82	71.50	
/W-3R	101.45	32.22	69.23	
ntermediate Wells				
I-10624	93.61	29.71	63.90	
GM-15I	109.25	42.30	66.95	
GM-16I	115.81	45.32	70.49	
GM-17I	115.83	43.07	72.76	
GM-18I	109.03	39.98	69.05	
GM-19I	109.86	41.05	68.81	
GM-20I	103.88	33.95	69.93	
GM-21I	105.72	35.53	70.19	
GM-74I	107.42	37.55	69.87	
GM-78I	105.06	39.05	66.01	
GM-79I	100.88	38.05	62.83	
HN-24I	125.80	53.12	72.68	
HN-40I	115.91	46.44	69.47	
HN-42I	119.61	48.15	71.46	

See notes on last page



Table 2. Water-Level Measurement Data, March 27, 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

	Measuring Point	Depth to Water	Motor Loyal Floyetian
Well Identification	Elevation (ft msl)	(ft bmp)	Water-Level Elevation (ft msl)
	()	((Const,
Deep Wells			
N-10627	71.19	12.30	58.89
GM-13D	93.70	30.25	63.45
GM-15D	91.63	32.75	58.88
SM-17D	91.75	35.55	56.20
GM-18D	103.92	35.98	67.94
GM-20D	102.23	36.51	65.72
GM-21D	97.26	36.65	60.61
GM-34D	101.25	39.25	62.00
GM-36D	102.08	39.46	62.62
GM-37D	105.66	40.68	64.98
GM-38D	104.87	41.77	63.10
GM-39D _A ⁽¹⁾	108.88	42.85	66.03
GM-39D _B ⁽¹⁾	107.43	42.93	64.50
GM-73D	113.97	43.70	70.27
GM-74D	115.11	44.52	70.59
SM-79D	109.84	44.70	65.14
IN-29D	115.68	47.20	68.48
eep2 Wells			
GM-15D2	109.78	47.25	62.53
GM-33D2	106.85	47.31	59.54
SM-34D2	71.19	13.97	57.22
GM-35D2	96.28	37.45	58.83
GM-36D2	91.60	34.68	56.92
GM-37D2	97.17	37.14	60.03
GM-38D2	91.56	37.20	54.36
GM-70D2	99.58	38.80	60.78
GM-71D2	98.45	38.92	59.53
GM-73D2	104.62	43.85	60.77
GM-74D2	107.36	49.50	57.86
GM-75D2	93.63	33.41	60.22
Vell 1 (2)	116.78	77.00	39.78
Vell 3 ⁽³⁾	117.78	115.00	2.78
Vell 17 ⁽⁴⁾	104.10	55.00	49.10
Vell 18 ⁽⁵⁾	110.00		
Vell 19	108.70	63.55	45.15

See notes on last page



Table 2. Water-Level Measurement Data, March 27, 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

Well Identification	Measuring Point Elevation (ft msl)	Depth to Water (ft bmp)	Water-Level Elevation (ft msl)
Outpost Wells			
BPOW1-1	73.65	27.45	46.20
BPOW1-2	73.54	27.98	45.56
BPOW1-3	73.37	27.95	45.42
BPOW2-1	60.06		 -
BPOW2-2	59.96		
BPOW3-1	63.19	24.48	39.51
BPOW3-2	63.72	25.79	37.93
BPOW4-1	67.34	23.68	43.66
BPOW4-2	67.18	23.50	43.68

Wells GM-39_A and GM-39_B are screened at the approximate midpoint and basal portion of the deep zone, respectively.

Water level was measured by inflating airline set at 119 ft bmp (gauge at wellhead) and subtracting the

reading on the gauge from 120 to obtain the depth to water in ft bmp.

Water level was measured by inflating an airline set at 150 ft bmp (gauge at well head) and subtracting the

reading on the gauge from 150 to obtain the depth to water in ft bmp.

Water level was measured by inflating airline set at 110 ft bmp (gauge at wellhead) and subtracting the

reading on the gauge from 110 to obtain the depth to water in ft bmp.

A replacement pump (submersible-type) was installed in Well 18 in December 2008. A new port to measure water

levels is currenlty being installed. When the port is installed, measurements will be collected on the current

semi-annual schedule.

ft msl feet relative to mean sea level ft bmp feet below measuring point

-- Not Measured



Table 3. Water-Level Measurement Data and Remedial Well Specific Capacities, August 4, 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

Well Identification	Measuring Point Elevation (ft msl)	Depth to Water (ft bmp)	Water-Level Elevation (ft msl)	
Shallow Wells				
FW-03	124.30	52.89	71.41	
N-9921	94.23	29.63	64.60	
N-10597	109.85	37.41	72.44	
N-10600	102.41	36.03	66.38	
N-10631	103.47	35.54	67.93	
N-10633	103.80	36.88	66.92	
N-10634	101.20	37.19	64.01	
N-10821	91.58	32.21	59.37	
GM-15S	109.44	42.19	67.25	
GM-16SR	115.86	44.61	71.25	
GM-17SR	115.79	42.67	73.12	
GM-18S	107.60	38.08	69.52	
GM-19S	109.86	39.83	70.03	
GM-21S	105.81	33.56	72.25	
GM-78S	104.94	38.19	66.75	
GM-79S (N-10628)	100.88	37.37	63.51	
HN-24S	120.32	48.89	71.43	
HN-40S	116.35	46.20	70.15	
HN-42S	120.32	48.51	71.81	
MW-3R	101.45	31.75	69.70	
Intermediate Wells				
N-10624	93.61	29.25	64.36	
GM-15I	109.25	42.03	67.22	
GM-16I	115.81	44.75	71.06	
GM-17I	115.83	42.99	72.84	
GM-18I	109.03	39.43	69.60	
GM-19I	109.86	40.71	69.15	
GM-20I	103.88	33.82	70.06	
GM-21I	105.72	35.57	70.15	
GM-74I	107.42	37.48	69.94	
GM-78I	105.06	38.46	66.60	
GM-79I	100.88	37.88	63.00	
HN-24I	125.80	52.43	73.37	
HN-40I	115.91	46.00	69.91	
HN-42I	119.61	47.83	71.78	

See notes on last page



Table 3. Water-Level Measurement Data and Remedial Well Specific Capacities, August 4, 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

	Measuring Point Elevation	Depth to Water	Water-Level Elevation	
Well Identification	(ft msl)	(ft bmp)	(ft msl)	
vveii identinication	(11 11151)	(it bilip)	(It IIISI)	
Deep Wells				
N-10627	93.70	29.75	63.95	
GM-13D	113.97	43.21	70.76	
GM-15D	109.84	44.56	65.28	
GM-17D	115.68	46.61	69.07	
GM-18D	108.88	42.39	66.49	
GM-20D	103.92	35.86	68.06	
GM-21D	105.66	40.52	65.14	
GM-34D	71.19	11.96	59.23	
GM-36D	91.63	32.86	58.77	
GM-37D	97.26	37.01	60.25	
GM-38D	91.75	36.61	55.14	
GM-39D _A ⁽¹⁾	102.23	36.11	66.12	
GM-39D _B ⁽¹⁾	102.08	39.02	63.06	
GM-73D	104.87	41.34	63.53	
SM-74D	107.43	42.67	64.76	
SM-79D	101.25	39.28	61.97	
HN-29D	115.11	43.98	71.13	
Deep2 Wells	113.11	40.00	71.10	
•		47.00		
GM-15D2	109.78	47.23	62.55	
GM-33D2	106.85	46.72	60.13	
GM-34D2	71.19	13.90	57.29	
GM-35D2	96.28	37.74	58.54	
GM-36D2	91.60	35.89	55.71	
GM-37D2	97.17	37.98	59.19	
GM-38D2	91.56	39.83	51.73	
GM-70D2	99.58	38.79	60.79	
GM-71D2	98.45	39.72	58.73	
GM-73D2	104.62	43.39	61.23	
GM-74D2	107.36	49.12	58.24	
GM-75D2	93.63	32.84	60.79	
Vell 1 (2)	116.78	70.00	46.78	
Vell 3 (3)	117.78	125.00	-7.22	
Vell 17 ⁽⁴⁾	104.10	59.00	45.10	
Vell 18 ⁽⁵⁾	110.00			
Vell 19	108.70	63.68	45.02	

See notes on last page



Table 3. Water-Level Measurement Data and Remedial Well Specific Capacities, August 4, 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

Well Identification	Measuring Point Elevation (ft msl)	Depth to Water (ft bmp)	Water-Level Elevation (ft msl)	
Outpost Wells				
BPOW1-1	73.65	27.10	46.55	
BPOW1-2	73.54	28.04	45.50	
BPOW1-3	73.37	28.05	45.32	
BPOW2-1	60.06			
BPOW2-2	59.96			
BPOW3-1	63.19	24.93	38.26	
BPOW3-2	63.72	26.40	37.32	
BPOW4-1	67.34	24.28	43.06	
BPOW4-2	67.18	23.91	43.27	

Remedial Well Specific Capacities (6)								
	Pumping Depth to	Static Depth to Water (ft		Third Quarter 2008 Pumping Rate	Specific Capacity			
Well ID	Water (ft bls)	<u>bls)</u> (7)	Drawdown (s) (ft)	(Q)(gpm) (8)	(Q/s)(gpm/ft)			
Well 1	70.00	55.75	14.25	836	58.67			
Well 3	125.00	55.40	69.60	705	10.13			
Well 17	59.00	44.12	14.88	1029	69.15			
Well 18	NA	50.15		629				
Well 19	63.68	49.13	14.55	721	49.55			

(1) Wells GM-39_A and GM-39_B are screened at the approximate midpoint and basal portion of the deep zone, respectively.

(2) Water level was measured by inflating airline set at 119 ft bmp (gauge at wellhead) and subtracting the

reading on the gauge from 120 to obtain the depth to water in ft bmp.

(3) Water level was measured by inflating an airline set at 150 ft bmp (gauge at well head) and subtracting the reading on the gauge from 150 to obtain the depth to water in ft bmp.

Water level was measured by inflating airline set at 110 ft bmp (gauge at wellhead) and subtracting the

reading on the gauge from 110 to obtain the depth to water in ft bmp. A replacement pump (submersible-type) was installed in Well 18 in December 2008. A new port to measure water levels is currenlty being installed. When the port is installed, measurements will be collected on the current

semi-annual schedule. Specific capacity values are qualitative in nature, due to fluctuations in static water levels. Sharp declines in specific capacity could indicate the need for well redevelopment.

For Wells 17, 18, and 19 baseline static depth to water measurements were collected in 1997 prior to OU2 system start-up; baseline pumping depth to water and rate measurements (not shown) used with baseline static depth to water measurements to calculate baseline specific capacities, were collected in 1999 during OU2 system operation. For Well 1, baseline static depth to water and specific capacity measurements were collected in 2001, during pump

replacement. For Well 3, baseline static depth to water and specific capacity measurements were collected in March-April 2005,

during re-development activities. Pumping rate determined at time of pumping depth to water measurement.

ft msl feet relative to mean sea level ft bmp feet below measuring point

Not Measured

(4)

(5)

(6)

(7)

(8)



Table 4. Comparison of August 2009 Vertical Hydraulic Gradients to Model-Predicted Gradients, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

	Well Screen Midpoint Elevation	Water-Level Elevation	Vertical Gradient ⁽²⁾	Model-Predicted, OU2 Steady-State Vertical Gradient	Increase Compared to Model-Predicted, Steady-State
Well Pair ID	(ft msl)	(ft msl)	(ft/ft) * 10 ⁻³	(ft/ft) * 10 ⁻³	Vertical Gradient
Shallow-Interme	diate Wells				
GM-15S	34.53	67.25			
GM-15I	9.29	67.22	1.19	4.20	-3.01
GM-16SR	66.77	71.25			
GM-16I	-24.19	71.06	2.09	1.11	0.98
GM-17SR	50.79	73.12			
GM-17I	5.83	72.84	6.23	4.50	1.73
GM-19S	59.36	70.03			
GM-19I	-25.14	69.15	10.41	2.44	7.97
GM-21S	40.81	72.25			
GM-21I	-29.28	70.15	29.96	18.44	11.52
GM-78S	39.94	66.75			
GM-78I	5.56	66.60	4.36	8.73	-4.37
GM-79S	35.88	63.51			
GM-79I	-73.91	63.00	4.65	0.91	3.74
Intermediate-De	ep Wells				
GM-15I	9.29	67.22			
GM-15D	-227.34	65.28	8.20	6.52	1.68
GM-17I	5.83	72.84			
GM-17D	-172.32	69.07	21.16	7.86	13.30
GM-18I	9.03	69.60			
GM-18D	-186.12	66.49	15.94	7.74	8.20
GM-20I	3.88	70.06			
GM-20D	-117.08	68.06	16.53	18.22	-1.69
GM-21I	-29.28	70.15			
GM-21D	-177.34	65.14	33.84	43.97	-10.13
GM-74I	8.42	69.94			
GM-74D	-192.57	64.76	25.77	20.17	5.60
GM-79I	-73.91	63.00			
GM-79D	-183.75	61.97	9.38	15.48	-6.10

See notes on last page



Table 4. Comparison of August 2009 Vertical Hydraulic Gradients to Model-Predicted Gradients, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

Well Pair ID	Well Screen Midpoint Elevation (ft msl)	Water-Level Elevation (ft msl)	Vertical Gradient ⁽²⁾ (ft/ft) * 10 ⁻³	Model-Predicted, OU2 Steady-State Vertical Gradient (ft/ft) * 10 ⁻³	Increase Compared to Model-Predicted, Steady-State Vertical Gradient
		(it moly	(itit) 10	(1011)	Voltical Gradient
Deep-Deep 2 We	ells				
GM-15D	-227.34	65.28			
GM-15D2	-436.41	62.55	13.06	14.19	-1.13
GM-18D	-186.12	66.49			
GM-33D2	-403.15	60.13	29.30	12.30	17.00
GM-34D	-242.81	59.23			
GM-34D2	-443.81	57.29	9.65	2.33	7.32
GM-36D	-117.37	58.77			
GM-36D2	-443.40	55.71	9.39	2.75	6.64
GM-37D	-154.74	60.25			
GM-37D2	-282.83	59.19	8.28	3.88	4.40
GM-38D	-238.25	55.14			
GM-38D2	-393.44	51.73	21.97	6.08	15.89
GM-39D _A ⁽¹⁾	-169.77	66.12			
			04.00	40.40	7.00
GM-39D _B ⁽¹⁾	-312.92	63.06	21.38	13.46	7.92
GM-73D	-301.13	63.53			
GM-73D2	-437.38	61.23	16.88	18.78	-1.90
GM-74D	-192.57	64.76			
GM-74D2	-444.64	58.24	25.87	28.26	-2.39
N-10627	-198.80	63.95			
GM-75D2	-421.37	60.79	14.20	2.25	11.95

Notes (1)

Wells GM-39D_A and GM-39D_B are screened at the approximate midpoint and basal portion of the deep zone, respectively.

(2) Vertical hydraulic gradients are calculated as follows:

 $(Water\text{-}Level\ Elevation_1 - Water\text{-}Level\ Elevation_2)$

(Screen Midpoint Elevation, - Screen Midpoint Elevation,)

A positive "+" gradient value indicates a downward hydraulic gradient. A negative "-" gradient value indicates an upward hydraulic gradient.

ft msl feet relative to mean sea level

^{1 -} Shallower well of pairing

^{2 -} Deeper well of pairing



Table 5. Concentration of Volatile Organic Compounds Detected in Intermediate Monitoring Wells, Fourth Quarter 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	NYSDEC Standards Criteria ⁽¹⁾ and Guidance Values (ug/l)	Well: Sample ID: Date:	GM-20I GM-20I 11/12/2009	GM-21I GM-21I 11/13/2009	GM-79I GM-79I 11/5/2009	
1,1,1-Trichloroethane	5		< 5	< 5	< 5	
1,1,2,2-Tetrachloroethane	5		< 5	< 5	< 5	
1,1,2-Trichloroethane	5		< 5	< 5	< 5	
1,1-Dichloroethane	5		< 5	< 5	< 5	
1,1-Dichloroethene	5		< 5	< 5	< 5	
1,2-Dichloroethane	5		< 5	< 5	< 5	
1,2-Dichloropropane	5		< 5	< 5	< 5	
2-Butanone	50		< 50	< 50	< 50	
2-Hexanone	50		< 50	< 50	< 50	
4-methyl-2-pentanone	50		< 50	< 50	< 50	
Acetone	50		< 50	< 50	< 50	
Benzene	0.7		< 0.7	< 0.7	< 0.7	
Bromodichloromethane	50		< 5	< 5	< 5	
Bromoform	50		< 5	< 5	< 5	
Bromomethane	5		< 5	< 5	< 5	
Carbon Disulfide	50		< 5	< 5	< 5	
Carbon tetrachloride	5		< 5	< 5	< 5	
Chlorobenzene	5		< 5	< 5	< 5	
Chloroethane	5		< 5	< 5	< 5	
Chloroform	7		< 5	< 5	< 5	
Chloromethane	5		< 5	< 5	< 5	
cis-1,2-dichloroethene	5		< 5	< 5	< 5	
cis-1,3-dichloropropene	5		< 5	< 5	< 5	
Dibromochloromethane	5		< 5	< 5	< 5	
Ethylbenzene	5		< 5	< 5	< 5	
Methylene Chloride	5		< 5	< 5	< 5	
Styrene	5		< 5	< 5	< 5	
Tetrachloroethene	5		< 5	< 5	< 5	
Toluene	5		< 5	< 5	< 5	
trans-1,2-dichloroethene	5		< 5	< 5	< 5	
trans-1,3-dichloropropene	5		< 5	< 5	< 5	
Trichloroethylene	5		< 5	< 5	< 5	
Trichlorotrifluoroethane (Freon 113)	5		< 5	< 5	< 5	
Vinyl Chloride	2		< 2	< 2	< 2	
Xylene-o	5		< 5	< 5	< 5	
Xylenes - m,p	5		< 5	< 5	< 5	
Total VOCs			0	0	0	

Standards, Criteria, and Guidance (SCG) values based on documents referenced in the Groundwater Feasibility Study Report (ARCADIS Geraghty & Miller, Inc. 2000) that are based on the NYSDEC TOGs (NYSDEC 1998); most stringent value listed.

NYSDEC New York State Department of Environmental Conservation

TOGs Technical and Operational Guidance Series

ug/L Micrograms per liter

VOCs Volatile Organic Compounds



Table 6. Concentration of Volatile Organic Compounds Detected in Deep Monitoring Wells, Fourth Quarter 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	NYSDEC Standards Criteria ⁽¹⁾ and Guidance Values (ug/l)	Well: Sample ID: Date:	GM-20D GM-20D 11/12/2009	GM-21D GM-21D 11/13/2009	GM-34D GM-34D 11/5/2009	GM-79D GM-79D 11/5/2009
1,1,1-Trichloroethane	5		< 5	< 5	< 25	< 5
1,1,2,2-Tetrachloroethane	5		< 5	< 5	< 25	< 5
1,1,2-Trichloroethane	5		< 5	< 5	< 25	< 5
1,1-Dichloroethane	5		< 5	< 5	< 25	< 5
•			-	I		
1,1-Dichloroethene	5		< 5	< 5	8.4 J	< 5
1,2-Dichloroethane	5		< 5	< 5	< 25	< 5
1,2-Dichloropropane	5		< 5	< 5	< 25	< 5
2-Butanone	50		< 50	< 50	< 250	< 50
2-Hexanone	50		< 50	< 50	< 250	< 50
4-methyl-2-pentanone	50		< 50	< 50	< 250	< 50
Acetone	50		< 50	< 50	< 250	< 50 B
Benzene	0.7		< 0.7	< 0.7	< 3.5	< 0.7
Bromodichloromethane	50		< 5	< 5	< 25	< 5
Bromoform	50		< 5	< 5	< 25	< 5
Bromomethane	5		< 5	< 5	< 25	< 5
					-	-
Carbon Disulfide	50		< 5	< 5	< 25	< 5
Carbon tetrachloride	5		< 5	< 5	< 25	< 5
Chlorobenzene Chloroethane	5 5		< 5 < 5	< 5 < 5	< 25 < 25	< 5 < 5
Chloroform	7		< 5	< 5	< 25	< 5
Chloromethane	5		< 5	< 5	< 25	< 5
cis-1,2-dichloroethene	5		< 5	< 5	7.1 J	0.34 J
cis-1,3-dichloropropene	5		< 5	< 5	< 25	< 5
Dibromochloromethane	5		< 5	< 5	< 25	< 5
Ethylbenzene Methylene Chloride	5 5		< 5 < 5	< 5	< 25	< 5 < 5
Methylene Chloride Styrene	5 5		< 5 < 5	< 5 < 5	< 25 < 25	< 5 < 5
Tetrachloroethene	5		< 5	< 5	6 J	0.86 J
Toluene	5		< 5	< 5	< 25	< 5
trans-1,2-dichloroethene	5		< 5	< 5	< 25	< 5
trans-1,3-dichloropropene	5		< 5	< 5	< 25	< 5
Trichloroethylene	5 5		< 5	0.67 J	490	33
Trichlorotrifluoroethane (Freon 113) Vinyl Chloride	5 2		< 5 < 2	< 5 < 2	10 J < 10	0.49 J < 2
Xylene-o	5		< 2 < 5	< 2 < 5	< 10 < 25	< 2 < 5
Xylenes - m,p	5		< 5	< 5	< 25	< 5
Total VOCs			0	0.67	521.5	34.69

Standards, Criteria, and Guidance (SCG) values based on documents referenced in the Groundwater Feasibility Study Report (ARCADIS Geraghty & Miller, Inc. 2000) that are based on the NYSDEC TOGs (NYSDEC 1998); most stringent value listed.

Bold Constituent detected

Constituent exceeds SCG value

NYSDEC New York State Department of Environmental Conservation

TOGs Technical and Operational Guidance Series

ug/L Micrograms per liter

VOCs Volatile Organic Compounds

J Value is estimated

B Compound detected in associated blank sample



Table 7. Concentration of Volatile Organic Compounds Detected in Deep2 Monitoring Wells, and Groundwater Remedial Wells and Treatment Systems, Fourth Quarter 2008, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	NYSDEC Standards Criteria ⁽¹⁾ and Guidance Values (ug/l)	Sample ID:	GM-33D2 GM-33D2 11/6/2009	GM-34D2 GM-34D2 11/5/2009	GM-35D2 GM-35D2 11/16/2009	GM-75D2 GM-75D2 11/6/2009	WELL 17 WELL 17 11/9/2009	WELL 18 WELL 18 11/9/2009
1.1.1-Trichloroethane	5		< 5	< 10	< 5	< 5	< 10	1.5 J
1,1,2,2-Tetrachloroethane	5		< 5	< 10	< 5	< 5	< 10	< 5
1,1,2-Trichloroethane	5		< 5	< 10	< 5	< 5	< 10	< 5
1,1-Dichloroethane	5		< 5	< 10	< 5	< 5	0.86 J	1.1 J
1,1-Dichloroethene	5		< 5	1.8 J	0.62 J	1 J	2 J	4.3 J
1.2-Dichloroethane	5		< 5	< 10	< 5	< 5	< 10	< 5
1,2-Dichloropropane	5		< 5	< 10	< 5	< 5	< 10	< 5
2-Butanone	50		< 50	< 100	< 50	< 50	< 100	< 50
2-Hexanone	50		< 50	< 100	< 50	< 50	< 100	< 50
4-methyl-2-pentanone	50		< 50	< 100	< 50	< 50	< 100	< 50
Acetone	50		< 50	< 100 B	< 50	2.6 J	< 100	< 50
Benzene	0.7		< 0.7	< 1.4	< 0.7	< 0.7	< 1.4	< 0.7
Bromodichloromethane	50		< 5	< 10	< 5	< 5	< 10	< 5
Bromoform	50		< 5	< 10	< 5	< 5	< 10	< 5
Bromomethane	5		< 5	< 10	< 5	< 5	< 10	< 5
Carbon Disulfide	50		< 5	< 10	< 5	< 5	< 10	< 5
Carbon tetrachloride	5		< 5	< 10	< 5	< 5	< 10	< 5
Chlorobenzene	5		< 5	< 10	< 5	< 5	< 10	< 5
Chloroethane	5		< 5	< 10	< 5	< 5	< 10	< 5
Chloroform	7		< 5	< 10	< 5	< 5	< 10	< 5
Chloromethane	5		< 5	< 10	< 5	< 5	< 10	< 5
cis-1,2-dichloroethene	5		0.58 J	8.4 J	1.4 J	< 5	3.4 J	1.8 J
cis-1,3-dichloropropene	5		< 5	< 10	< 5	< 5	< 10	< 5
Dibromochloromethane	5		< 5	< 10	< 5	< 5	< 10	< 5
Ethylbenzene	5		< 5	< 10	< 5	< 5	< 10	< 5
Methylene Chloride	5		< 5	< 10	< 5	< 5	< 10	< 5
Styrene	5		< 5	< 10	< 5	< 5	< 10	< 5
Tetrachloroethene	5		9.6	7.1 J	8.5	3.1 J	23	12
Toluene	5		< 5	< 10	< 5	< 5	< 10	< 5
trans-1,2-dichloroethene	5		< 5	< 10	< 5	< 5	< 10	< 5
trans-1,3-dichloropropene	5		< 5	< 10	< 5	< 5	< 10	< 5
Trichloroethylene	5	J	48	210	200	110	210	95
Trichlorotrifluoroethane (Freon 113)	5		23	2.6 J	3.7 J	0.77 J	7.5 J	1.7 J
Vinyl Chloride	2	l	< 2	< 4	< 2	< 2	< 4	< 2
Xylene-o	5		< 5	< 10	< 5	< 5	< 10	< 5
Xylenes - m,p	5		< 5	< 10	< 5	< 5	< 10	< 5
74,101100 111,10	<u> </u>		``	× 10	~ 0	``	× 10	
Total VOCs			81.18	229.9	214.86	117.47	246.76	117.4

See last page for notes



Table 7. Concentration of Volatile Organic Compounds Detected in Deep2 Monitoring Wells, and Groundwater Remedial Wells and Treatment Systems, Fourth Quarter 2008, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	NYSDEC Standards Criteria ⁽¹⁾ and Guidance Values (ug/l)	Sample ID:	WELL 19 WELL 19 11/9/2009	102 EFFLUENT 102 EFFLUENT 11/9/2009	WELL 1 WELL 1 11/9/2009	WELL 3 WELL 3 11/9/2009	96 EFFLUENT 96 EFFLUENT 11/9/2009
1.1.1-Trichloroethane	5		0.66 J	< 5	0.88 J	< 100	< 5
1,1,2,2-Tetrachloroethane	5		< 5	< 5	< 13	< 100	< 5
1,1,2-Trichloroethane	5		< 5	< 5	< 13	< 100	< 5
1.1-Dichloroethane	5		0.92 J	< 5	1.1 J	< 100	< 5
1,1-Dichloroethene	5		1.4 J	< 5	2.5 J	12 J	< 5
1.2-Dichloroethane	5		0.67 J	< 5	< 13	< 100	< 5
1,2-Dichloropropane	5		< 5	< 5	4.7 J	< 100	< 5
2-Butanone	50		< 50	< 50	< 130	< 1000	< 50
2-Hexanone	50		< 50	< 50	< 130	< 1000	< 50
4-methyl-2-pentanone	50		< 50	< 50	< 130	< 1000	< 50
Acetone	50		< 50	< 50	< 130	< 1000	< 50
Benzene	0.7		< 0.7	< 0.7	< 1.8	< 14	< 0.7
Bromodichloromethane	50		< 5	< 5	< 13	< 100	< 5
Bromoform	50		< 5	< 5	< 13	< 100	< 5
Bromomethane	5		< 5	< 5	< 13	< 100	< 5
Carbon Disulfide	50		< 5	< 5	< 13	< 100	< 5
Carbon tetrachloride	5		< 5	< 5	< 13	< 100	< 5
Chlorobenzene	5		< 5	< 5	< 13	< 100	< 5
Chloroethane	5		< 5	< 5	< 13	< 100	< 5
Chloroform	7		0.68 J	< 5	< 13	< 100	< 5
Chloromethane	5		< 5	< 5	< 13	< 100	< 5
cis-1,2-dichloroethene	5		19	< 5	4.3 J	13 J	< 5
cis-1,3-dichloropropene	5	·	< 5	< 5	< 13	< 100	< 5
Dibromochloromethane	5		< 5	< 5	< 13	< 100	< 5
Ethylbenzene	5		< 5	< 5	< 13	< 100	< 5
Methylene Chloride	5		< 5	< 5	< 13	< 100	< 5
Styrene	5		< 5	< 5	< 13	< 100	< 5
Tetrachloroethene	5		7.9	< 5	92	71 J	< 5
Toluene	5	·	< 5	< 5	< 13	< 100	< 5
trans-1,2-dichloroethene	5		0.41 J	< 5	< 13	< 100	< 5
trans-1,3-dichloropropene	5		< 5	< 5	< 13	< 100	< 5
Trichloroethylene	5		190	1 J	370	2400	2.2 J
Trichlorotrifluoroethane (Freon 113)	5		0.84 J	< 5	4.4 J	11 J	< 5
Vinyl Chloride	2		< 2	< 2	< 5	200	< 2
Xylene-o	5		< 5	< 5	< 13	< 100	< 5
Xylenes - m,p	5		< 5	< 5	< 13	< 100	< 5
Total VOCs	-		222.86	1	479.88	2707	2.2

Standards, Criteria, and Guidance (SCG) values based on documents referenced in the Groundwater Feasibility Study Report (ARCADIS Geraghty & Miller, Inc. 2000) that are based on the NYSDEC TOGs (NYSDEC 1998); most stringent value listed.

Bold Constituent detected

Constituent exceeds SCG value

NYSDEC New York State Department of Environmental Conservation

TOGs Technical and Operational Guidance Series

ug/L Micrograms per liter

VOCs Volatile Organic Compounds

J Value is estimated

B Compound detected in associated blank sample



Table 8. Concentrations of Site-Related Volatile Organic Compounds Detected in Outpost Wells, Fourth Quarter 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

	NYSDEC									
	Standards Criteria	Well:	BPOW 1-1	BPOW 1-2	BPOW 1-3	BPOW 1-3	BPOW 3-1	BPOW 3-2	BPOW 4-1	BPOW 4-2
CONSTITUENT	and Guidance Values (1)	Sample ID:	BPOW 1-1	BPOW 1-2	BPOW 1-3	BPOW 1-3 (REP)	BPOW 3-1	BPOW 3-2	BPOW 4-1	BPOW 4-2
(Units in ug/L)	(ug/L)	Date:	11/11/2009	11/11/2009	11/11/2009	11/11/2009	11/9/2009	11/9/2009	11/10/2009	11/10/2009
1,1,1-Trichloroethane	5		0.81	< 0.5	2.1	2.2	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachlroethane	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethane	5		0.34 J	< 0.5	0.81	0.86	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene	5		0.48 J	< 0.5	1.5	1.6	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethane	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	7		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorotrifluoroethane (Freon 113)	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.55	< 0.5
Tetrachlroethene	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,2-Dichloroethene	5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethlene	5		1.3	< 0.5	0.72	0.73	< 0.5	< 0.5	< 0.5	< 0.5
Total Site-Related VOCs (2):			2.93	0	5.13 ⁽³⁾	5.39 ⁽³⁾	0	0	0.55	0
TVOC Trigger Value ⁽⁴⁾ :			0.6	0.6	0.6	0.6	1.5	1.5	1.5	1.5

Note: Outpost wells OW2-1 and OW2-2 were not sampled by Northrop Grumman this round, due to ongoing Navy activities.

NYSDEC New York State Department of Environmental Conservation

TOGs Technical and Operational Guidance Series

ug/L Micrograms per liter

Bold Constituent detected

VOC Volatile organic compounds

TVOC Total volatile organic compounds

⁽¹⁾ Standards Critieria and Guidance (SCGs) values based on the Groundwater Feasibility Study Report (ARCADIS Geraherty & Miller, Inc. 2000) are based on they NYSDEC TOGS (NYSDEC 1998); most stringent values listed.

Site-related VOCs were established in the Public Water Supply Contingency Plan (PWSCP) (ARCADIS G&M, Inc. 2003).

The TVOC Trigger Value for Cluster 1 was initially exceeded on April 23, 2004; confirmatory sampling and reporting was conducted as per the PWSCP (ARCADIS G&M, Inc. 2003).

TVOC Trigger Values were established in the PWSCP (ARCADIS G&M, Inc. 2003).



Table 9. Concentration of Tentatively Identified Compounds (TICs) Detectected in Groundwater Samples in Year 2009 Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

Well Identification (units in ug/L)	Constituent: Sample Date	Hexanal
FB081409	8/14/2009	9 JN
FB081709	8/17/2009	5.8 JN
FB081909	8/19/2009	6.6 JN
FB082009	8/20/2009	5.5 JN

Notes

TICs are identified based on the review of mass spectrometry results via a comprehensive library search of all organic compounds

ug/L Micrograms per liter

N Presumptive evidence of this constituent. Calibration was not ran for this constituent; therefore the results should be used

for qualitative purposes only.

J Estimated value



Table 10. Concentrations of Volatile Organic Compounds Detected in Blank Samples, Fourth Quarter 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

	Well ID: Sample ID: mple Date:	Field Blank ⁽¹⁾ FB110509 11/5/2009	Trip Blank ⁽¹⁾ TB 11-16-09 11/16/2009	Trip Blank ⁽¹⁾ TB110509 11/5/2009	Trip Blank ⁽¹⁾ TB110609 11/6/2009	Trip Blank ⁽¹⁾ TB111009 11/9/2009
1,1,1,2-Tetrachloroethane						
1,1,1-Trichloroethane		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2,2-Tetrachloroethane		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2-Trichloroethane		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1-Dichloroethane		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1-Dichloroethene		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1-Dichloropropene						
1,2,3-Trichlorobenzene						
1,2,3-Trichloropropane						
1,2,4,Trichlorobenzene						
1,2,4-Trimethylbenzene						
1,2-Dibromo-3-Chloropropane	;					
1,2-Dibromoethane						
1,2-Dichlorobenzene						
1,2-Dichloroethane		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichloropropane		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,3,5-Trimethylbenzene						
1,3-Dichloropropane						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
2,2-Dichloropropane						
2-Butanone		< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
2-Chlorotoluene						
2-Hexanone		< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
2-Phenylbutane						
4-Chlorotoluene						
4-Isopropyltoluene						
4-methyl-2-pentanone		< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Acetone		2.4 J	< 50 U	2.1 J	< 50 U	1.5 J
Benzene		< 0.7 U 	< 0.7 U 	< 0.7 U 	< 0.7 U 	< 0.7 U
Bromobenzene Bromodichloromethane		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromoform		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromomethane		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Carbon Disulfide		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Carbon tetrachloride		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chlorobenzene		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chlorobromomethane						
Chlorodifluoromethane (Freon	22)	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloroethane	,	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloroform		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloromethane		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
cis-1,2-dichloroethene		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
cis-1,3-dichloropropene		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromochloromethane		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromomethane						
Dichlorodifluoromethane (Fred	on 12)	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Ethylbenzene		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Hexachloro-1,3-butadiene						
Isopropylbenzene						
Methyl tert-Butyl Ether						
Methylene Chloride		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Naphthalene						
n-Butylbenzene						
n-Propylbenzene						
Styrene		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U

Notes on last page



Table 10. Concentrations of Volatile Organic Compounds Detected in Blank Samples, Fourth Quarter 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent (units in ug/L)	Well ID: Sample ID: Sample Date:	Field Blank ⁽¹⁾ FB110509 11/5/2009	Trip Blank ⁽¹⁾ TB 11-16-09 11/16/2009	Trip Blank ⁽¹⁾ TB110509 11/5/2009	Trip Blank ⁽¹⁾ TB110609 11/6/2009	Trip Blank ⁽¹⁾ TB111009 11/9/2009
Tert-butyl Alcohol						
tert-Butylbenzene						
Tetrachloroethene		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Toluene		2.1 J	< 5 U	< 5 U	< 5 U	< 5 U
trans-1,2-dichloroethene		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
trans-1,3-dichloropropene		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Trichloroethylene		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Trichlorofluoromethane						
Trichlorotrifluoroethane (Fr	eon 113)	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Vinyl Chloride		< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
Xylene-o		< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Xylenes - m,p		0.48 J	< 5 U	< 5 U	< 5 U	< 5 U
Total VOCs		4.98	0	2.1	0	1.5

Notes on last page



Table 10. Concentrations of Volatile Organic Compounds Detected in Blank Samples, Fourth Quarter 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent Sample (units in ug/L) Sample Da	ID: TB11-12-09	Trip Blank ⁽¹⁾ TB11-13-09 11/13/2009	Trip Blank ⁽²⁾ TB-1 111009 11/9/2009	Trip Blank ⁽²⁾ TB1111109 11/11/2009	
1,1,1,2-Tetrachloroethane			< 0.5 U	< 0.5 U	
1,1,1-Trichloroethane	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
1,1,2,2-Tetrachloroethane	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
1,1,2-Trichloroethane	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
1,1-Dichloroethane	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
1,1-Dichloroethene	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
1,1-Dichloropropene			< 0.5 U	< 0.5 U	
1,2,3-Trichlorobenzene			< 0.5 U	< 0.5 U	
1,2,3-Trichloropropane			< 0.5 U	< 0.5 U	
1,2,4,Trichlorobenzene			< 0.5 U	< 0.5 U	
1,2,4-Trimethylbenzene			< 0.5 U	< 0.5 U	
1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane			< 0.5 U < 0.5 U	< 0.5 U < 0.5 U	
1,2-Distribution 1,2-Dichlorobenzene	 	 	< 0.5 U	< 0.5 U	
1,2-Dichlorobenzene	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
1,2-Dichloropropane	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
1,3,5-Trimethylbenzene			< 0.5 U	< 0.5 U	
1,3-Dichloropropane			< 0.5 U	< 0.5 U	
1,3-Dichlorobenzene			< 0.5 U	< 0.5 U	
1,4-Dichlorobenzene			< 0.5 U	< 0.5 U	
2,2-Dichloropropane			< 0.5 U	< 0.5 U	
2-Butanone	< 50 U	< 50 U			
2-Chlorotoluene			< 0.5 U	< 0.5 U	
2-Hexanone	< 50 U	< 50 U			
2-Phenylbutane			< 0.5 U	< 0.5 U	
4-Chlorotoluene			< 0.5 U	< 0.5 U	
4-Isopropyltoluene			< 0.5 U	< 0.5 U	
4-methyl-2-pentanone	< 50 U	< 50 U			
Acetone	< 50 U	< 50 U			
Benzene	< 0.7 U	< 0.7 U	< 0.5 U	< 0.5 U	
Bromobenzene Bromodiahlaramathana	 < 5 U	 - 5 11	< 0.5 U < 0.5 U	< 0.5 U	
Bromodichloromethane Bromoform	< 5 U	< 5 U < 5 U	< 0.5 U < 0.5 U	< 0.5 U < 0.5 U	
Bromomethane	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Carbon Disulfide	< 5 U	< 5 U	< 0.5 O	< 0.5 O	
Carbon tetrachloride	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Chlorobenzene	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Chlorobromomethane			< 0.5 U	< 0.5 U	
Chlorodifluoromethane (Freon 22)	< 5 U	< 5 U			
Chloroethane	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Chloroform	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Chloromethane	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
cis-1,2-dichloroethene	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
cis-1,3-dichloropropene	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Dibromochloromethane	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Dibromomethane			< 0.5 U	< 0.5 U	
Dichlorodifluoromethane (Freon 12)	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Ethylbenzene	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Hexachloro-1,3-butadiene			< 0.5 U	< 0.5 U	
Isopropylbenzene			< 0.5 U	< 0.5 U	
Methyl tert-Butyl Ether Methylene Chloride	 < 5 U	 - E	< 0.5 U	< 0.5 U	
•		< 5 U 	< 0.5 U < 0.5 U	< 0.5 U < 0.5 U	
Naphthalene n-Butylbenzene		 	< 0.5 U	< 0.5 U	
n-Propylbenzene	 	 	< 0.5 U	< 0.5 U	
Styrene	< 5 U	< 5 U	< 0.5 U	< 0.5 U	

Notes on last page



Table 10. Concentrations of Volatile Organic Compounds Detected in Blank Samples, Fourth Quarter 2009, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

Constituent (units in ug/L)	Well ID: Sample ID: Sample Date:	Trip Blank ⁽¹⁾ TB11-12-09 11/12/2009	Trip Blank ⁽¹⁾ TB11-13-09 11/13/2009	Trip Blank ⁽²⁾ TB-1 111009 11/9/2009	Trip Blank ⁽²⁾ TB111109 11/11/2009	
Tert-butyl Alcohol				< 20 U	< 20 U	
tert-Butylbenzene				< 0.5 U	< 0.5 U	
Tetrachloroethene		< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Toluene		< 5 U	< 5 U	< 0.5 U	< 0.5 U	
trans-1,2-dichloroethene	e	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
trans-1,3-dichloroproper	ne	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Trichloroethylene		< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Trichlorofluoromethane				< 0.5 U	< 0.5 U	
Trichlorotrifluoroethane	(Freon 113)	< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Vinyl Chloride		< 2 U	< 2 U	< 0.5 U	< 0.5 U	
Xylene-o		< 5 U	< 5 U	< 0.5 U	< 0.5 U	
Xylenes - m,p		< 5 U	< 5 U	< 1 U	< 1 U	
Total VOCs		0	0	0	0	

Notes (1)

(1) Sample analysis by CLP Method OLM 4.2.
(2) Sample analysis by USEPA Method 524.2.

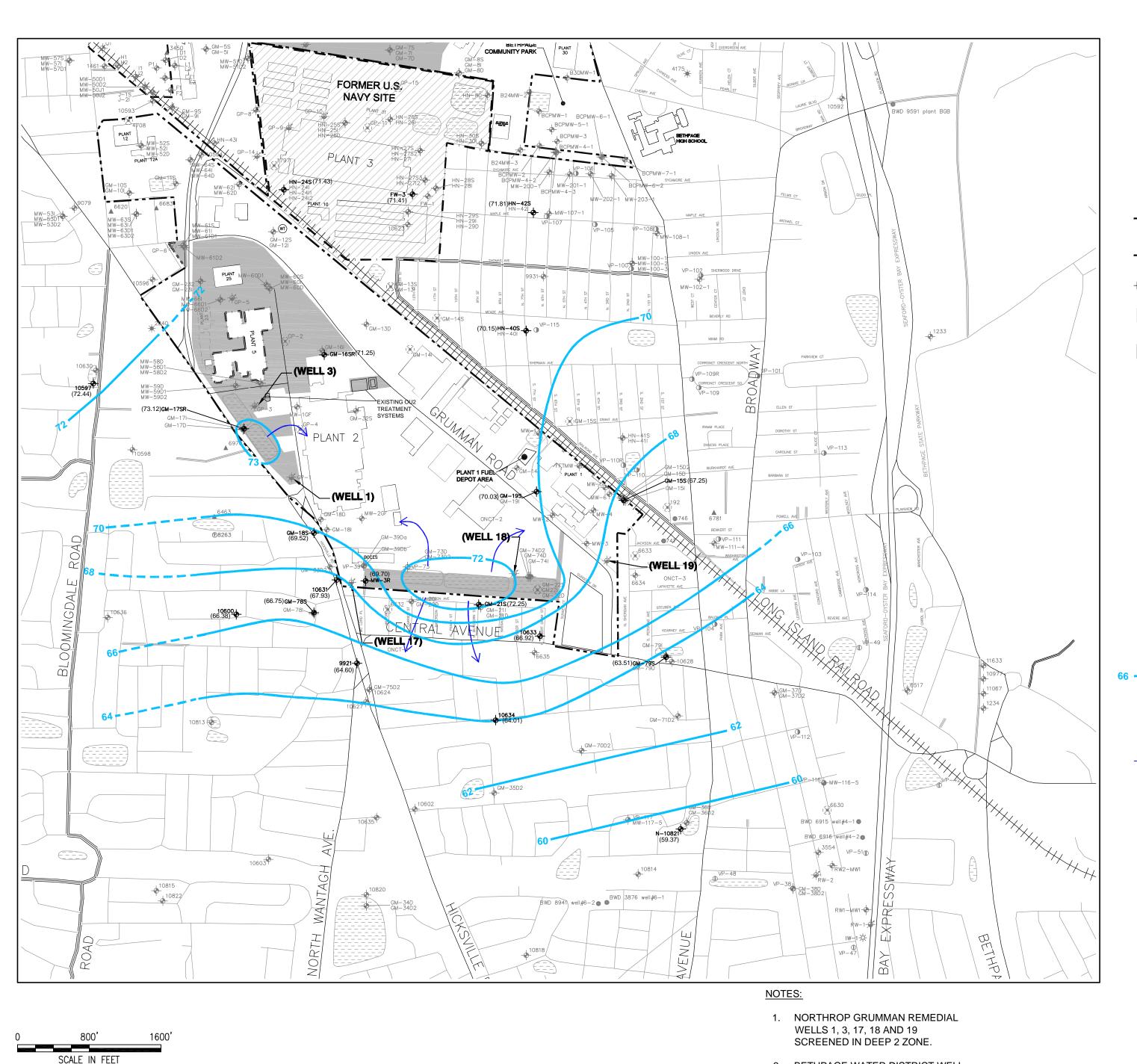
Bold constituent detected

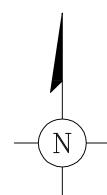
CLP Contract Laboratory Procedure

USEPA United States Environmental Protection Agency

-- Not Analyzed ug/L Micrograms per liter VOCs Volatile organic compounds

J Estimated value





EXPLANATION:

PROPERTY BOUNDARY OF THE FORMER GRUMMAN AEROSPACE SITE

PROPERTY BOUNDARY OF THE FORMER

U.S. NAVY SITE

+++++++ LONG ISLAND RAILROAD

DENOTES NORTHROP GRUMMAN OWNED PROPERTY (AS OF 2003)

DENOTES FORMER U.S. NAVY

OWNED PROPERTY

RECHARGE BASIN

OBSERVATION/MONITORING WELL

▲ INDUSTRIAL WELL

PUBLIC SUPPLY WELL

☀ IRRIGATION WELL

NORTHROP GRUMMAN OR NAVY PRODUCTION WELL

ABANDONED WELL

COMPLETED OU-2 VERTICAL PROFILE BORING

COMPLETED OU-3

VERTICAL PROFILE BORING

LINE OF EQUAL POTENTIOMETRIC SURFACE ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (DASHED WHERE INFERRED)

WATER-LEVEL ELEVATION IN FEET

RELATIVE TO MEAN SEA LEVEL

HORIZONTAL COMPONENT OF GROUNDWATER FLOW

OU-2 OPERABLE UNIT 2

OPERABLE UNIT 3

2. BETHPAGE WATER DISTRICT WELL 3876 SCREENED IN DEEP ZONE.

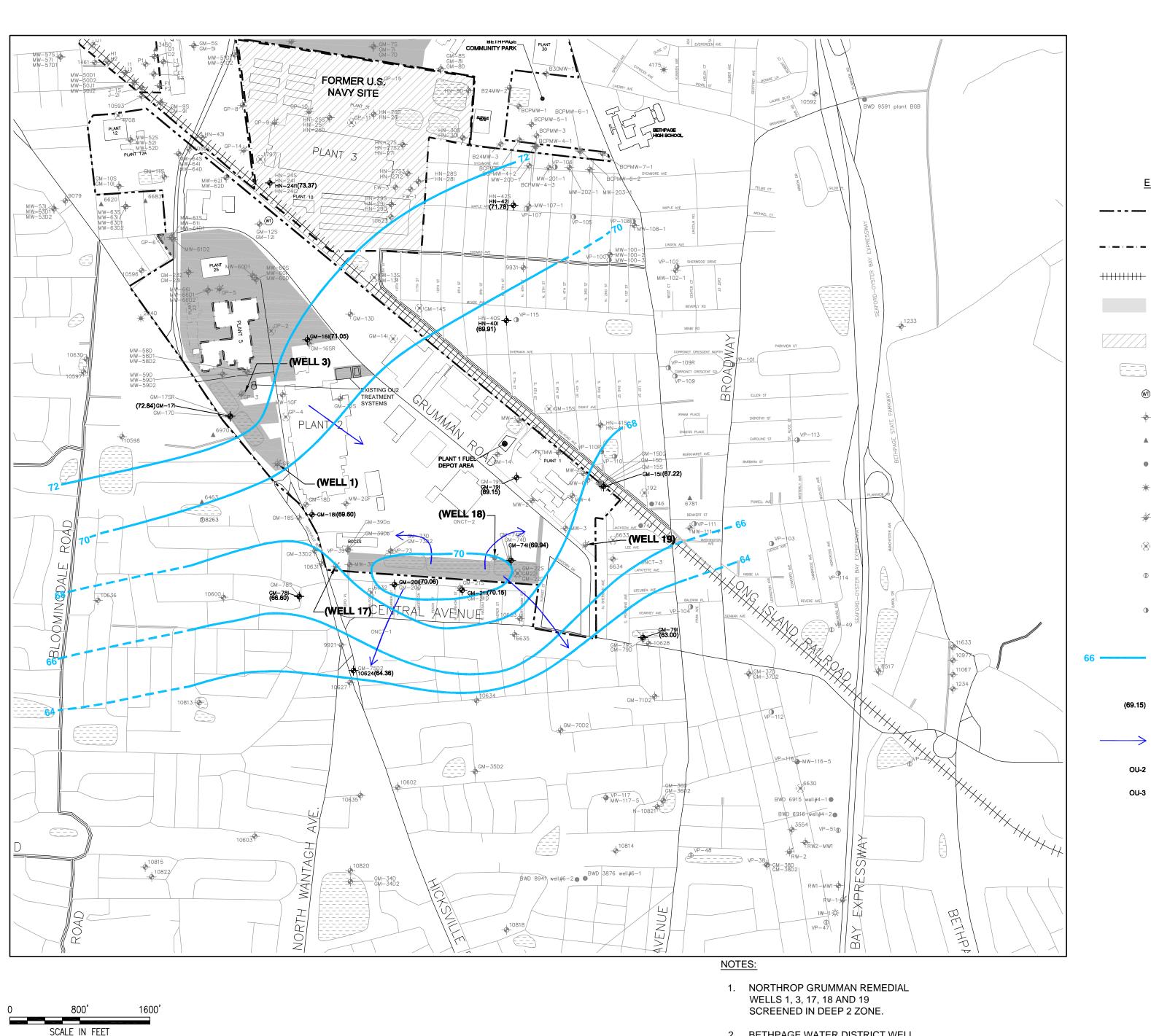
3. BETHPAGE WATER DISTRICT WELLS 6915, 6916 AND 8941 SCREENED IN DEEP 2 ZONE.

NORTHROP GRUMMAN SYSTEMS CORPORATION BETHPAGE, NEW YORK **OPERABLE UNIT 2**

WATER-TABLE CONFIGURATION AND HORIZONTAL GROUNDWATER FLOW DIRECTION IN THE SHALLOW ZONE, AUGUST 4, 2009

ALL COORDINATES REFERENCED TO NORTH AMERICAN DATUM 1983





EXPLANATION:

PROPERTY BOUNDARY OF THE FORMER GRUMMAN AEROSPACE SITE

PROPERTY BOUNDARY OF THE FORMER

U.S. NAVY SITE

+++++++ LONG ISLAND RAILROAD

DENOTES NORTHROP GRUMMAN OWNED PROPERTY (AS OF 2003)

DENOTES FORMER U.S. NAVY
OWNED PROPERTY

RECHARGE BASIN

M WATER TOWER

OBSERVATION/MONITORING WELL

INDUSTRIAL WELL

PUBLIC SUPPLY WELL

☀ IRRIGATION WELL

NORTHROP GRUMMAN OR NAVY PRODUCTION WELL

ABANDONED WELL

COMPLETED OU-2 VERTICAL PROFILE BORING

COMPLETED OU-3

VERTICAL PROFILE BORING

LINE OF EQUAL POTENTIOMETRIC SURFACE ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (DASHED WHERE INFERRED)

WATER-LEVEL ELEVATION IN FEET

RELATIVE TO MEAN SEA LEVEL

HORIZONTAL COMPONENT OF GROUNDWATER FLOW

U-2 OPERABLE UNIT 2

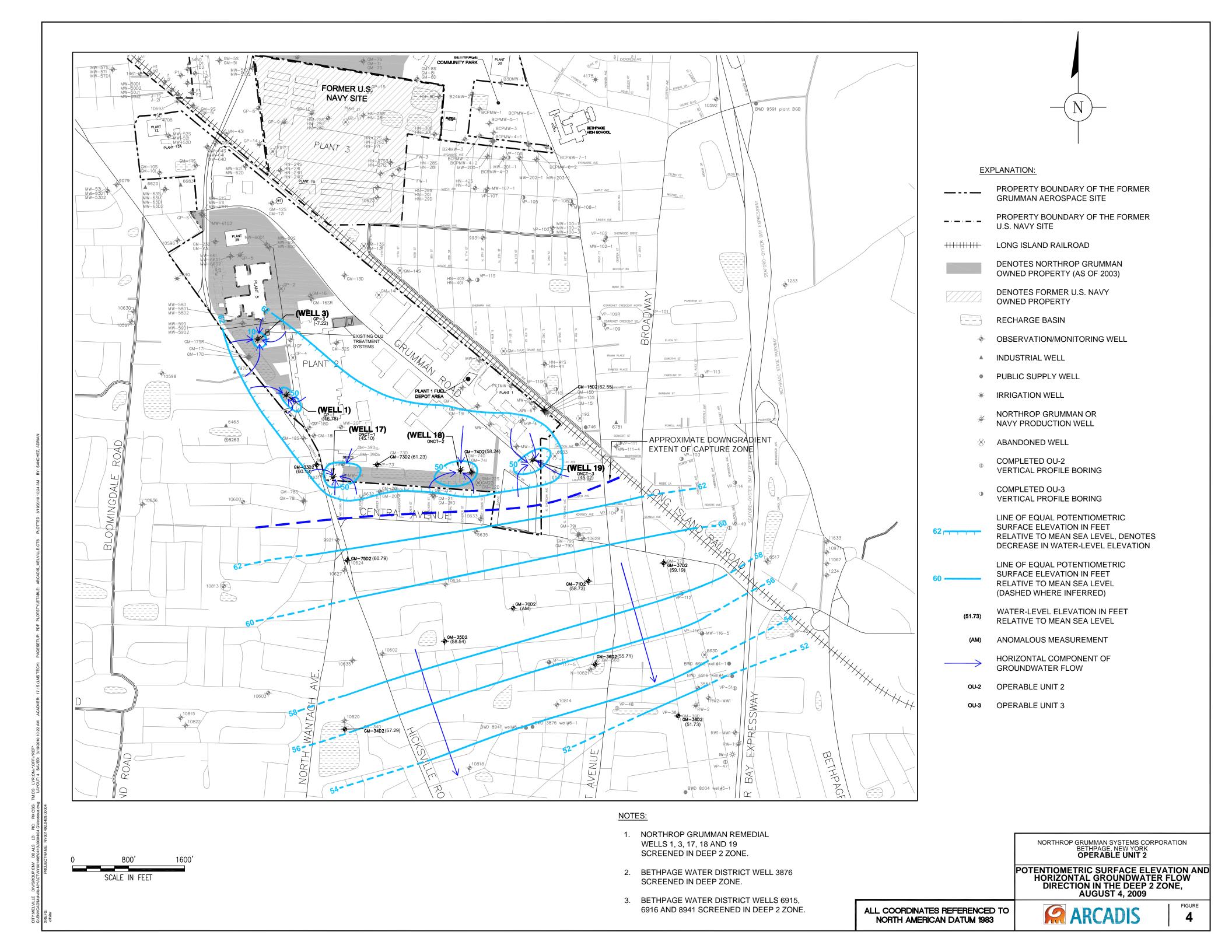
OU-3 OPERABLE UNIT 3

2. BETHPAGE WATER DISTRICT WELL 3876 SCREENED IN DEEP ZONE.

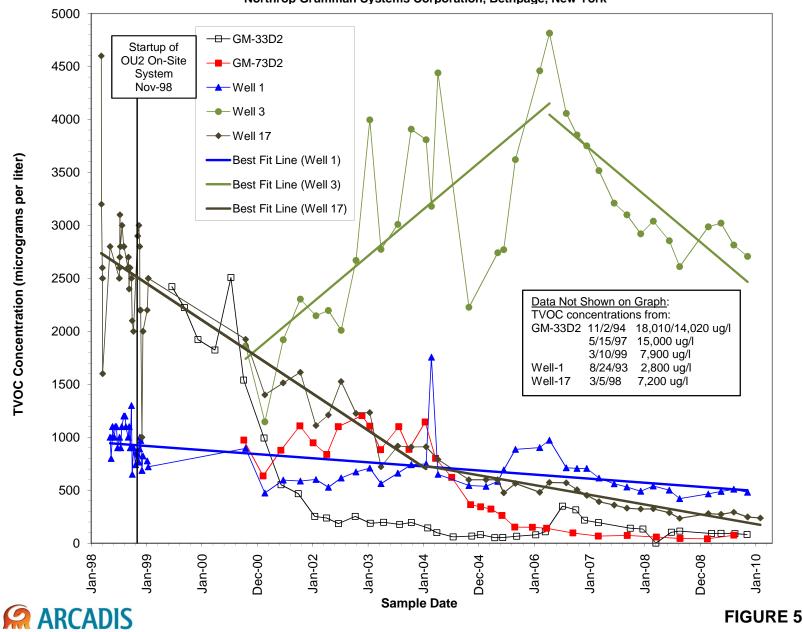
3. BETHPAGE WATER DISTRICT WELLS 6915, 6916 AND 8941 SCREENED IN DEEP 2 ZONE.

NORTHROP GRUMMAN SYSTEMS CORPORATION BETHPAGE, NEW YORK **OPERABLE UNIT 2**

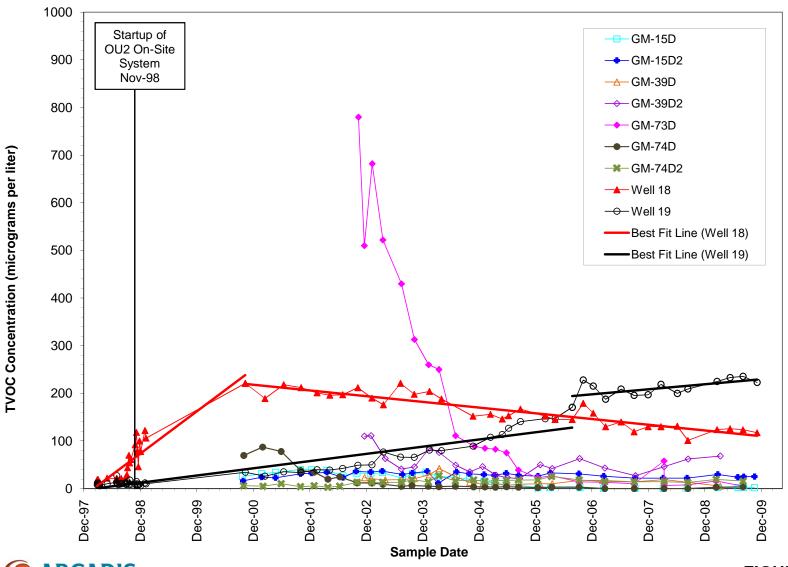
POTENTIOMETRIC SURFACE ELEVATION AND HORIZONTAL GROUNDWATER FLOW DIRECTION IN THE INTERMEDIATE ZONE, AUGUST 4, 2009



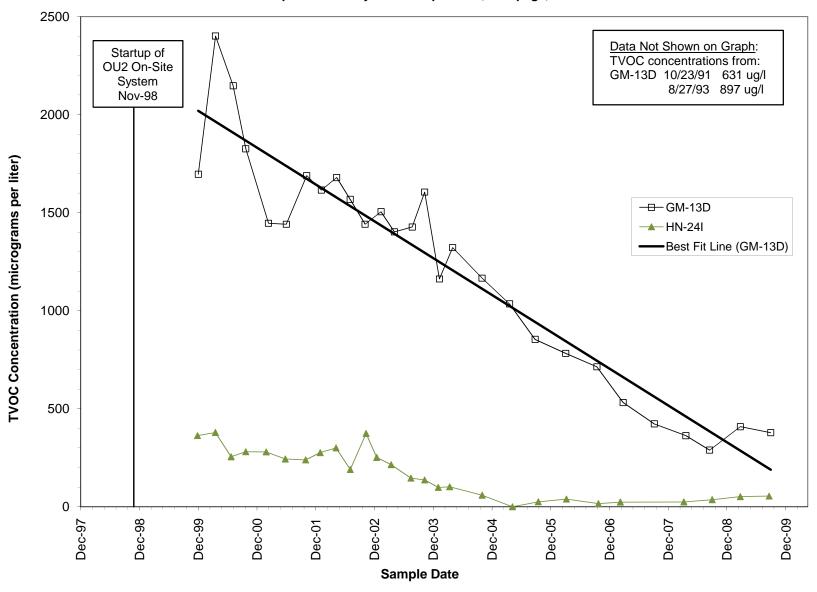
Total Volatile Organic Compound Concentrations (Southern and Southwestern Site Boundary) in OU2 Remedial Wells and On-Site Monitoring Wells GM-33D2 and GM-73D2 Northrop Grumman Systems Corporation, Bethpage, New York



Total Volatile Organic Compound Concentrations (Southeastern Site Boundary) in On-Site Deep and Deep2 Monitoring Wells and OU2 Remedial Wells 18 and 19 Northrop Grumman Systems Corporation, Bethpage, New York

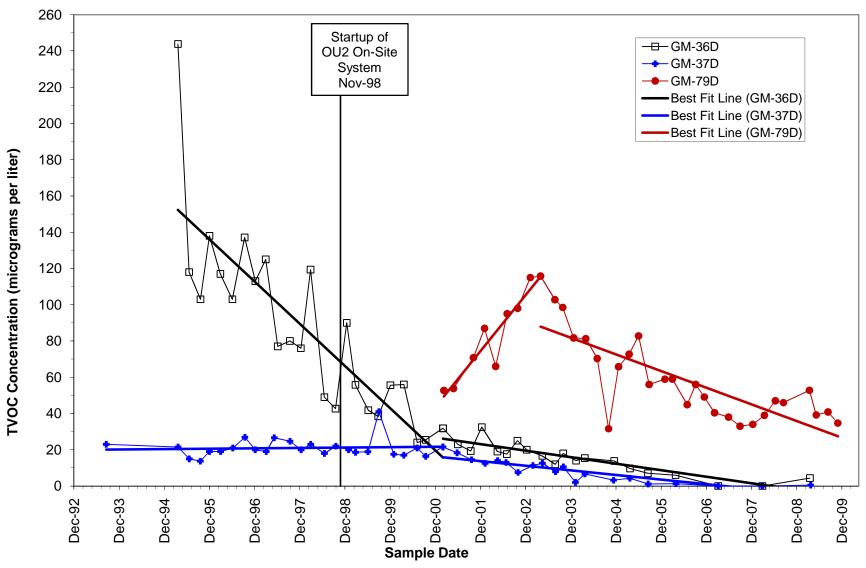


Total Volatile Organic Compound Concentrations in On-Site Intermediate and Deep Monitoring Wells Northrop Grumman Systems Corporation, Bethpage, New York



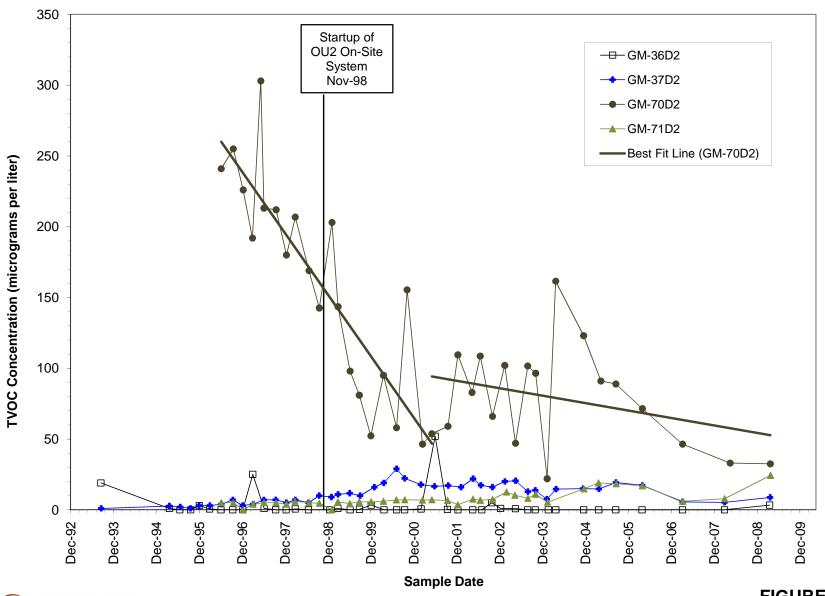


Total Volatile Organic Compound Concentrations in Off-Site Deep Monitoring Wells (Southeast of the Site) Northrop Grumman Systems Corporation, Bethpage, New York

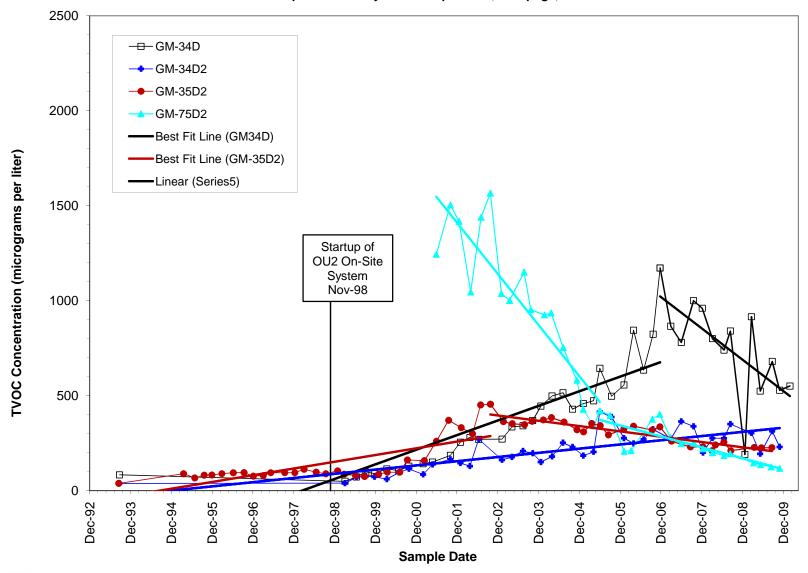




Total Volatile Organic Compound Concentrations in Off-Site Deep2 Monitoring Wells (Southeast of the Site) Northrop Grumman Systems Corporation, Bethpage, New York

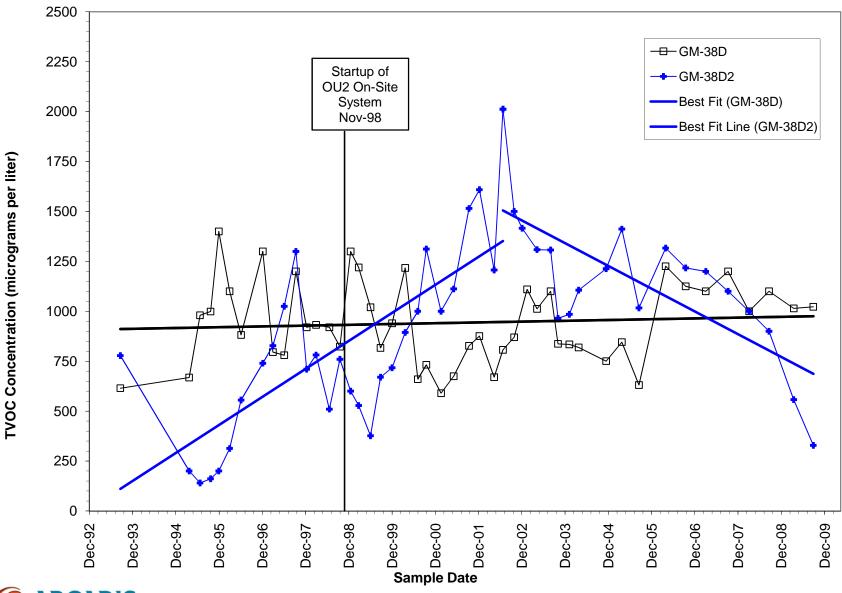


Total Volatile Organic Compound Concentrations in Off-Site Deep and Deep2 Monitoring Wells (South of the Site) Northrop Grumman Systems Corporation, Bethpage, New York



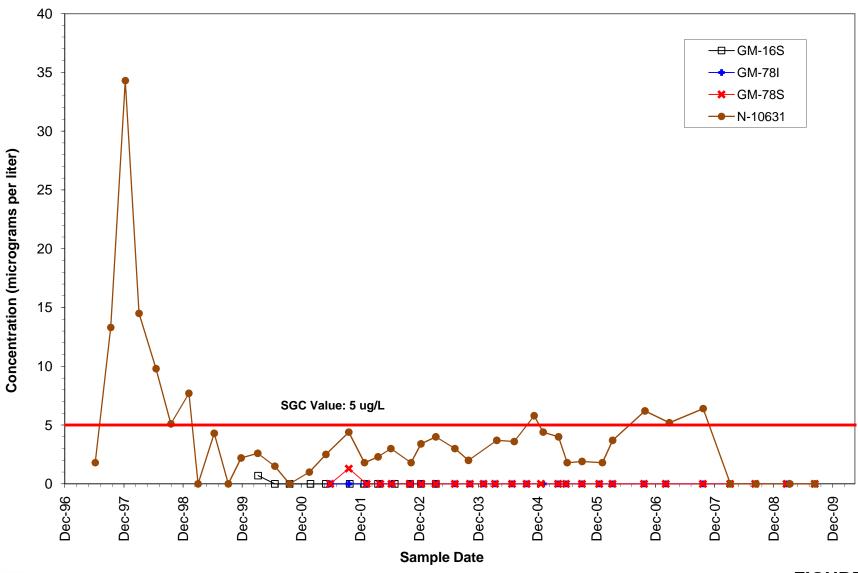


Total Volatile Organic Compound Concentrations in GM-38 Area (Off-Site) Deep and Deep2 Monitoring Wells Northrop Grumman System Corporation, Bethpage, New York



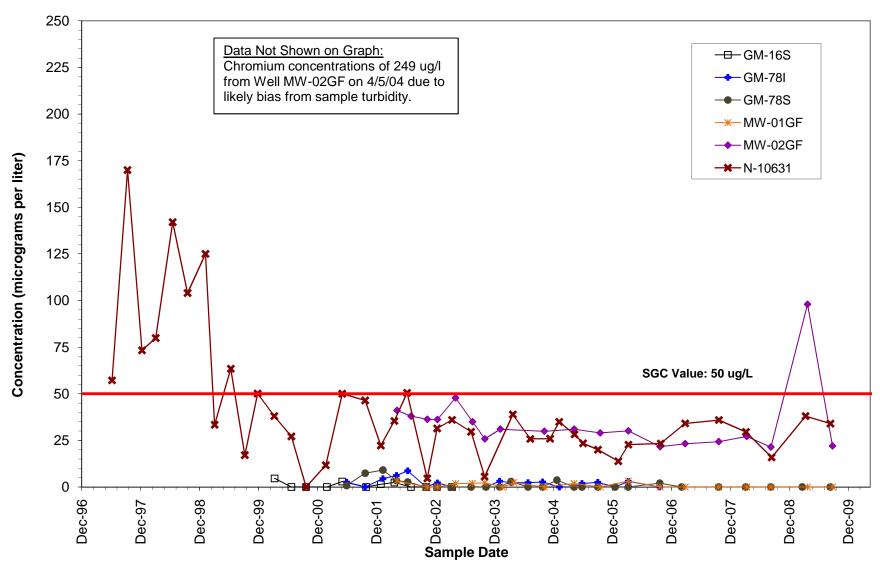


Total Cadmium Concentrations in Monitoring Wells Near Former Plant 2 Northrop Grumman Systems Corporation, Bethpage, New York



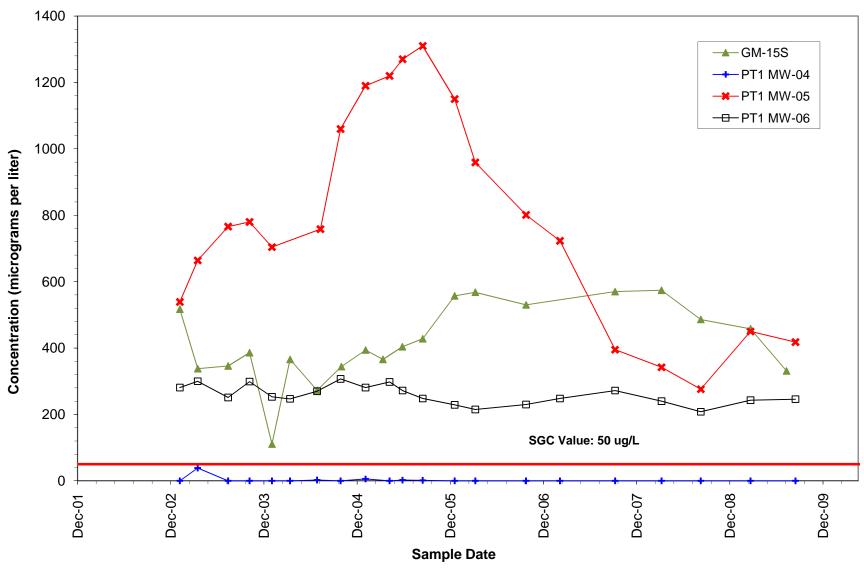


Total Chromium Concentrations in Monitoring Wells Near Former Plant 2 Northrop Grumman Systems Corporation, Bethpage, New York





Total Chromium Concentrations in Monitoring Wells Near Former Plant 1 Northrop Grumman Systems Corporation, Bethpage, New York





ARCADIS

Appendix A

Groundwater Sampling Logs and Chain of Custody Records



Project No RTHROP- Coffee	mmaw	Project No	NYOU	1464.041	99.0000°	2_
Site Location BETH	PAGE MY		ι Date	2-26-	09	
Well No. <u>FW-0</u>	Replicate N	0	Weath	ner		
Sampling Personn <u>el 66 ×</u>	Sampling Ti	me: Begin	2:40	. pm	End	2:49,
Purge Data		Field Parameter	s			
Measuring Point (describe) Sounded Well Depth (ft bmp) Depth to Water (ft bmp) Depth to Packer (ft bmp)	64.00 53.27	Color Odor Appearance		W 72 WE WTY 70		
Water Column in Well (ft) Casing Diameter Gallons in Well Gallons Purged Prior to Sampling	9.73 2'(0.16) 1.56 83 4.68	pH (s.u.) Conductivity (mS/em) or (μmhos/cm) 1)	1 6.80 185.2	1v 6,72 182,1	2V 6,86	3V 6,82 145,0
Pump Intake Setting (ft bmp) Packer Pressure (psi)		Temperature (°C)				14.1
Pumping Rate (gpm) Evacuation Method Sampling Method	Q=5 N=3nis 3042 REDDAG 300V	DO (mg/L) ORP (mV) Turbidity (NTU)				150
Purge Time Begin	2:49 pm End 2:49 pm	Time DTW (ft bmp)	2140	2;43	2!46	2:49
Remarks:					·	
Parameter See COC,	Container	No.			Preservative	3
PID Reading		<u> </u>				
1/2	/olumes 0.16 3" = 0.37 " = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				



Project // CTC	_ Project No. 씨	9001469	c. 060 f	0000 2	
Site Location bettpage, NY		Date	63-03-	of	
Well No. <u>BPOW (- </u> Replicate No	REP03-03-0) Weathe	er	cloa-	
Sampling Personnel Pat Provide: Sumy X Sampling Tir	ne: Begin <u>/</u>	7:18		End	17:59
Purge Data	Field Parameters				•
Measuring Point (describe)	Color.		plarless		
Sounded Well Depth (ft bmp) 241	Odor	60	orless		
Depth to Water (ft bmp) 27.09	Appearance		Cear		
Depth to Packer (ft bmp) 169					
Water Column in Well (ft) 7.2		<u> </u>	1V	2V	3V
Casing Diameter Y"(0.65)	pH (s.u.)	6.26	5.69	5,77	5.76
Gallons in Well 46.8	Conductivity	,	•		
Gallons Purged × 3	(mS/cm) or:				
Prior to Sampling 140	(µmhos/cm) 1)	640.	96.8	99.3	99.5
Pump Intake					·
Setting (ft bmp)	Temperature (°C)	9.8	<i>J</i> .3	9.3	9.4
Packer Pressure (psi)					
Pumping Rate (gpm)	DO (mg/L)				
Evacuation Method	ORP (mV)				
Sampling Method	Turbidity (NTU)	2.0	36	3.0	2,2
Purge Time Begin 17:18 End 17:59	Time				
	DTW (ft bmp)		27.28	27.32	27.30
Remarks: $(1/9-27.09) \times 0.4$	3 + (V = 1	11 0	ςĪ.		
Remarks: $(/6.1 - 2/.01) \times 0.0$	<u> </u>	-			
Parameter See CO. Container	No.			Preservative	}
PID Reading					
Well Casing Volumes Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0.37 1 ^{1/2} " = 0.09 2-½" = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				



Project NORTHER- BRU	MMAN	_ Project No N	40014	64.040	<u>50000. i</u>	
Site Location			_ \ Date	3-4-C	_	
Well No. <u>BP010 1-</u>	Replicate No	o	Weath	ner		
Sampling Personnel Cray L	Sampling Ti	me: Begin		_	End	
Purge Data		Field Parameters	5			
Measuring Point (describe)	TOC	Color		Color	less	
Sounded Well Depth (ft bmp)	419	Odor		mr		
Depth to Water (ft bmp)	3035 28.10	Appearance	 	clea	<u> </u>	
Depth to Packer (ft bmp)	344					
Water Column in Well (ft)	<u>78</u>		1	1V	2V	3V
Casing Diameter	4(.65)	pH (s.u.)	<u>6,33 </u>	5,67	4,33	4,74
Gallons in Well	48.75	Conductivity	,			
Gallons Purged		(mS/cm) of				20/
Prior to Sampling	146.25	(µmhos/cm) ¹⁾	156.4	97.9	853	82.6
Pump Intake						
Setting (ft bmp)		Temperature (°C)	9,6	9,4	9.5	99
Packer Pressure (psi)	161,437					ļ
Pumping Rate (gpm)		DO (mg/L)				
Evacuation Method		ORP (mV)				
Sampling Method		Turbidity (NTU)				
Purge Time Begin_	End	Tìme				·
		DTW (ft bmp)				
Remarks: 344	39.0 126.13	3 ~ . 43 31	-an	v 43 +	2C=1	1.1.37
Remarks. 391	-28,10= 136-1-	2 × 1 + 3 1	5110	A. 10 1	<u> </u>	COV- V

Parameter	Container	No.			Preservative	e
(se Coc		<u></u>		- -		
PID Reading						
Well Casing Vo Gal./Ft. $1^{1/4\pi} = 0.06$ $2^{\pi} = 0$ $1^{1/2\pi} = 0.09$ $2^{-1/2\pi}$		4" = 0.65 6" = 1.47		,		



Site Location	Project NOBARD- GRUMMAN	Project No. 🔟	40014	64. BUC)7.000c	72
Sampling Personnel GW Sampling Time: Begin End						
Purge Data Field Parameters	Well No. Brow 3-1 Replicate	No	Weath	ner		
Purge Data Field Parameters						
Measuring Point (describe) Color	Sampling Personnel (W W Sampling	Time: Begin			End	
Sounded Well Depth (ft bmp)	Purge Data	Field Parameters	3			
Depth to Water (ft bmp)	Measuring Point (describe)	Color		oluzi		
Depth to Packer (ft bmp) 4 1	Sounded Well Depth (ft bmp) 516	Odor	NB	NE.		
Water Column in Well (ft) 107 1 1V 2V 3V Casing Diameter 4 (0.65) pH (s.u.) 4.77 4,75 4/71 4/73 Gallons in Well 66.3 Conductivity Gallons Purged x 3 (ms/cm) or Prior to Sampling (prior to Sampling) (pmhos/cm) 19 9f. 0 387,3 881,3 867 Pump Intake 1/1,3 1/2 1/1,3 1/2 Setting (ft bmp) Temperature (°C) 13.⇒ 11,5 1/4 1/2,4 1/4 Packer Pressure (psi) 2.20 RS 1/2,2 1/4 Pumping Rate (gpm) DO (mg/L) 1/5 Evacuation Method ORP (mV) 1/5 Sampling Method Time DTW (ft bmp) Purge Time Begin End Time DTW (ft bmp) 1/5 Preservative PID Reading Well Casing Volumes Gal./Ft. 1 1/4 = 0.06 2" = 0.16 3" = 0.37 4" = 0.65	Depth to Water (ft bmp)	Appearance	Cur	η		
Casing Diameter 4(0.65) pH (s.u.) 4.77 4.75 4.71 4.73 Gallons in Well 66.3 Conductivity Gallons Purged 2 2 (mS/cm) or (µmhos/cm) 9 0 88.3 88.3 817 Pump Intake 3 11.3 Pump Intake 4 1.3 11.3 Pump Intake 5 etting (ft bmp) Temperature (°C) 13.3 11.3 Pumping Rate (gpm) DO (mg/L) Evacuation Method ORP (mV) Sampling Method Turbidity (NTU) Purge Time Begin End Time DTW (ft bmp) Remarks: 414-24 = 380 × 3 + 50 = 2 2 0 PS - PACICOL PASSU Parameter Container No. Preservative	Depth to Packer (ft bmp)					
Gallons in Well Gallons Purged Prior to Sampling Pump Intake Setting (ft bmp) Packer Pressure (psi) Pumping Rate (gpm) Evacuation Method Sampling Method Purge Time Begin End Time DTW (ft bmp) Parameter Container No. Preservative Well Casing Volumes Gal./Ft. 1141 = 0.005 2" = 0.16 3" = 0.37 4" = 0.65	Water Column in Well (ft)		1	1V	2V	3V
Gallons Purged	Casing Diameter 4(0,65)	pH (s.u.)	4.77	4,75	4,71	4,73
Prior to Sampling		Conductivity		•		
Pump Intake Setting (ft bmp) Packer Pressure (psi) Pumping Rate (gpm) Evacuation Method Sampling Method Purge Time Begin End Time DTW (ft bmp) Remarks: 414-24 = 386 x 43 + 20 = 2 20 Ass - Packer Aussurative Container No. Preservative Well Casing Volumes Gal./Ft. 114= 0.06 2"= 0.16 3" = 0.37 4"= 0.65	Gallons Purged $\times 3$	(mS/cm) or				
Setting (ft bmp)	Prior to Sampling G	(µmhos/cm) 1)	950	88,3	88.3	859
Setting (ft bmp)	Pump Intake				11.3	
Pumping Rate (gpm) Evacuation Method Sampling Method Purge Time Begin End Time DTW (ft bmp) Remarks: 414-24 = 380 × 43 + 0 = 220 PS - Pacifier Aussulus Container No. Preservative PID Reading Well Casing Volumes Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0.37 4" = 0.65	Setting (ft bmp)	Temperature (°C)	13.3	11.9	49	1214
Evacuation Method	Packer Pressure (psi) 220 PSI				•	
Sampling Method	Pumping Rate (gpm)	DO (mg/L)				
Purge Time	Evacuation Method	ORP (mV)				
DTW (ft bmp)	Sampling Method	Turbidity (NTU)				15
Remarks: $\frac{414-214=380\times 43+50}{2}=220 \text{ ASSIMED AUSSUME}$ Parameter No. Preservative PID Reading Well Casing Volumes Gal./Ft. $1^{1/4}$ = 0.06 2" = 0.16 3" = 0.37 4" = 0.65	Purge Time Begin End	Time				
Preservative Pres		DTW (ft bmp)				
Preservative Pres	Bomorko 414-216 - 38A	(3 1 C) =	99	O DC	: Da.	· NARCI
Well Casing Volumes Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0.37 4" = 0.65	Remarks. 111-29-3000	13400 =	<u> </u>	C LOX	- WCICE	y pagoson
Well Casing Volumes Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0.37 4" = 0.65	5 2 3	·			· · · · · · · · · · · · · · · · · · ·	
Well Casing Volumes Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0.37 4" = 0.65	Parameter Container	No	~·····	·	Procenyative	
Well Casing Volumes Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0.37 4" = 0.65						
Well Casing Volumes Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0.37 4" = 0.65	WILL LIVE					
Gal./Ft. $1^{1/4}$ = 0.06 2" = 0.16 3" = 0.37 4" = 0.65	PID Reading				· · · · · · · · · · · · · · · · · · ·	www
Gal./Ft. $1^{1/4}$ = 0.06 2" = 0.16 3" = 0.37 4" = 0.65	Wall Cooling Valumas					
11/2	Gal./Ft. $1^{1/4}$ " = 0.06 2" = 0.16 3" = 0.37	4" = 0.65				
	.1/2					



Project NORTHROP-6	RUMMAN	Project No. No.	100141	4.040	9,00006	52
Site Location				3-6-		
Well No. BPow 3	Replicate N	lo:	Weatl	ner		
	(MS)	MSO JR	EP03	0609		
Sampling Personnel Gov	1 Williams Sampling T	ime: Begin_		-	End	
Purge Data		Field Parameter	s			
Measuring Point (describe)	1nc	Color	Cova	CUBS		
Sounded Well Depth (ft bmp)		Odor	No			· · · · · · · · · · · · · · · · · · ·
Depth to Water (ft bmp)	28.57	Appearance	CUS			
Depth to Packer (ft bmp)	G47-503			· V		
Water Column in Well (ft)	503-144	The way	ı	· 1V	· 2V	3V
Casing Diameter	4(0.65)	pH (s.u.)	5,43	5,47	5.49	5,50
Gallons in Well	93.6	Conductivity				
Gallons Purged	y 3	(mS/em) or				
Prior to Sampling	230	(µmhos/cm) 1)	117.1	1187	20,0	60.6
Pump Intake			•			
Setting (ft bmp)		Temperature (°C)	116	11.3	10.9	10.5
Packer Pressure (psi)	260 PSE					
Pumping Rate (gpm)		DO (mg/L')				
Evacuation Method		ORP (mV)				
Sampling Method		Turbidity (NTU)				14.0
Purge Time Begin	nEnd	Time				
•		DTW (ft bmp)				
Remarks: 503	25 = 470/	(m) LON	-29	60 BZ	·	
Normanio.	<u> </u>	,38) 730		<u>40 100</u>		
				·		
Parameter See WC	Container	No.			Preservative)
<u> </u>						
PID Reading	- Angulatery					
410	Volumes = 0.16	4" = 0.65 6" = 1.47				



Page	 of	

Project Northrop Grimma	Project No. <u>//</u>	001464	0409.	or >	
Site Location Bethpage, N				3 -12/00	9
Well No. 870 64-1	Replicate No	Weather	,	elec	
Sampling Personnel Gring Villiams	(มหพู Xu . sampling Time: Begin		· · · · · · · · · · · · · · · · · · ·	End	
Purge Data	Field Parameters	5			
Measuring Point (describe) Sounded Well Depth (ft bmp) Depth to Water (ft bmp) Depth to Packer (ft bmp)	TOC Color Pl / Screll 192. Odor Appearance	Color le None c loa			
Water Column in Well (ft) 149	<u> </u>	ł	1V	2V	3V.
Casing Diameter Gallons in Well Gallons Purged Prior to Sampling Pump Intake Setting (ft bmp) Packer Pressure (psi) Pumping Rate (gpm) Evacuation Method Sampling Method	2 pH (s.u.)	,	5.15	£.00	47.4
Remarks:					
Parameter (oe COC	Container No.			Preservative)
PID Reading			~ ;		
. 1/2	3" = 0.37				



Project Northwop Gruinman	_ Project No Ŋ	700146	4.040 g.	Jour V	
Site Location Bettipage, N	_ Project No. <u>N</u>	Date	03-	16-09	
Well No. BDOW 4-2 Replicate No.		Weath		alear.	W.F. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
Sampling Personnel Gay William / Suny Xa. Sampling Time	me: Begin /	1:30.		End	4:45
Purge Data	Field Parameters	3			
Measuring Point (describe) 70 C	Color	Color	less		
Sounded Well Depth (ft bmp) 764	Odor	Han	e		
Depth to Water (ft bmp)	Appearance	clu	ar.		
Depth to Packer (ft bmp)					
Water Column in Well (ft)		- 1	1V	2V	3V
Casing Diameter $\mu'(0.kr)$.	pH (s.u.)	5.82	4.72	4.51	4.53
Gallons in Well	Conductivity	,			
Gallons Purged	(m8/cm) or				
Prior to Sampling	(µmhos/cm))	121.4	106.6.	88.2	80.7.
Pump Intake	-	·			
Setting (ft bmp)	Temperature (°C)	14.0.	12,2.	13.1	12.7.
Packer Pressure (psi)					
Pumping Rate (gpm)	DO (mg/L)				
Evacuation Method	ORP (mV)				
Sampling Method	Turbidity (NTU)				
Purge Time Begin 1130 End 4130	Time				
•	DTW (ft bmp)			23,72.	23.73
Remarks: $(503-25.09) \times 0.43 +$	10 = 256	PSĨ.			•
		- / · · · ·			
Parameter Container	No.		•	Preservative	•
	- - ————				
PID Reading					
Well Casing Volumes Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0.37 1 ^{1/2} " = 0.09 2-½" = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				



Project	<u>_ M</u>	GC	. m ? >		,4	V			V" 1 " .) T	
Project Numbe	er [J][vv][4]	4.04.09.00	0002_	Site Location		Lycege 141		Well ID	EM-1	<u> 3 レ</u>	
Date	<u>- 672 -</u>	76-09		Sampled By	<u>· </u>	day willing	ers / :	Sunry X.	<u> </u>		
Sampling Time	·	18:13		Recorded By		Shary X	· · · · · · · · · · · · · · · · · · ·				
Weather				Coded Replica	ate No.	ZEP'02-	26-07	· M	5/M.	SD.	
Instrument Ide	ntification								•		
Water Quality	Vieter(s)					_ Serial	#			······································	
Casing Materia	il		1.1	Purge	Method						
Casing Diameter			• 7	Screen	Screen Interval (ft bmp) Top 200 Bottom 210						
Sounded Depth (ft bmp)			1: 45	Pump	Intake Depth (fi	bmp)			***		
Depth to Water	(ft bmp)	43.	40.	Purge	Time	Start	1):1	3	Finish	8113	
		,	, , ,	Field Parameter	Measurement		ng .	 	τ	1	
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	
17:13	D			9.3	6.82	100.2	116	48.3		43.40	
17:18	5			11.8	5.91	91.3	127	7.9			
17:23	10			12.6	5.86	90	127	4.8		43,45	
17:28	75			12.7	5186	90.4	126	4,6			
17:33	20			12.7	5.86	90.7	128	4.7		43,45	
17:38	25			12.8	5.84	90.7.	129	4.6			
17:43	30			12.8	5.8x	90.7.	124	t.4		43.45	
17:48	沙			12.8	5.83	909	13/	1.3			
17:53	40			12.7	5.84	91.1	132	\$.2		43.45	
17:58	45			12.8	r.83	91.1	132	.f.2			
18:03	po			12.8	J. 83	91.1	132	5.2		43.45.	
18:08	N			12.8.	5.83	91.2	133	5.3			
18:13	60.			ra.8.	1.83	91.2	133	5,2		43.45	
Collected Sam	ole Condition		Color Col	orles	Odor	oderler	<u></u>	Appearance_	clear		
Parameter See			Container			No.			Preservative		
					•			 			
PID Reading				· · · · · · · · · · · · · · · · · · ·	,			-			
Comments											
voniniems.										************	
-									 		
-				*			···········				
		·····			······································		······································				



Project NORTHROL- GRUM MAN	Project No. NWW14	64.0409.0002,
Site Location RETHPAGE NIK	Date	2-21-09
	ate No Weath	ner
	<i>→</i>	
Sampling Personnel <u>&w XX</u> Sampl	ing Time: Begin 3:15	End 3:55
Purge Data	Field Parameters	,
Measuring Point (describe)	Color <u>COU</u>	NUTS
Sounded Well Depth (ft bmp)	Odor	
Depth to Water (ft bmp) 42.05	Appearance	AR
Depth to Packer (ft bmp)		
Water Column in Well (ft) 37.95		1V 2V 3V
Casing Diameter 4(0.65)	pH (s.u.) 6.13	5.90 5.82 5.80
Gallons in Well 24.66	Conductivity	
Gallons Purged	(mS/cm) or	
Prior to Sampling	(μmhos/cm) ¹⁾ 405	154.6 121.3 117.1
Pump Intake	·n ·	1120 1111 1111
Setting (ft bmp)	Temperature (°C) <u>13,6</u>	14,1 14,1
Packer Pressure (psi)		
Pumping Rate (gpm) $Q=2.5[V=1]$	<u>Oml NDO (mg/L)</u>	
Evacuation Method	ORP (mV)	
Sampling Method	Turbidity (NTU)	2.8
Purge Time Begin 3:25 End 3:59	Time <u>3:25</u>	3:35 3:45 355
	DTW (ft bmp)	
Remarks:		
TGHains.		
Parameter Container	No.	Preservative
	- · · · · · · · · · · · · · · · · · · ·	- Control of the Cont
	·	
PID Reading		
Well Casing Volumes		
Gal./Ft. $1^{1/4}$ = 0.06 2" = 0.16 3" = 0.37		
$1^{1/2}$ " = 0.09 $2-\frac{1}{2}$ " = 0.26 $3-\frac{1}{2}$ " = 0.5	50 6" = 1.47	



Project N-Ga	ummar OUL	Project No	NYOU	1492.04	109,00002	
Site Location Beth	pase NY		Date	3	131109	
Well No. GM-15	Replicate N	0. NA	Weath	er	clear 5	103 F
Sampling Personnel Prezo	Sampling Ti	ime: Begin_	17-30.		End _	19:21
Purge Data		Field Parame	ters	1		
Measuring Point (describe)	TOC	Color	coloren	Colorlan	colorlar	Colorban
Sounded Well Depth (ft bmp)	105	Odor	Nome.	None	None	Non
Depth to Water (ft bmp)	41.92	Appearance	1 em	<u>len</u>	clan	Clea
Depth to Packer (ft bmp)	94					}
Water Column in Well (ft)	11		1	· 1V	2V	3V
Casing Diameter	4" (0.65)	рН (s.u.)	6.08	5.75	5,72	5.64
Gallons in Well	7.15	Conductivity				
Gailons Purged	43	(mS/cm) o	r		_	
Prior to Sampling	22	· (μmhos/cn	n) ¹⁾ [32, 2	137.0	134.6	136.4
Pump Intake						
Setting (ft bmp)		Temperature ((°C) 17,4	16.8	16.6	16,3
Packer Pressure (psi)	75					
Pumping Rate (gpm)		DO (mg/L)			,	
	Dedicated Bladda/part	NORP (mV)				
Sampling Method		Turbidity (NTL	رر (ر	7.25	8.47	6.63
• •	1712 End	Time 55d con	the Con	1735	1757	18/21
		DIW (ft bmp)	4.1.002	6 3	12 1	12
Remarks: PSI=	94-41,92 X,		- 75 P-	st row	ndedyp	
Da t	rower store	e well	19 Not	(Janin	,	
Parameter See Co C	Container	No.		_	Preservative	•
				_		
PID Reading						
	/olumes 0.16 3" = 0.37 " = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				



roject Numbe	Nyon	374ROP - 6 469.0409.	3000L	Site Location	_6	3DAPAGE	104	Well ID	6M-1	SD
Date	1 2	~6 ~09		Sampled By	<u></u>		17/12 ans	·····		
Sampling Time		3:30	······································	Recorded By		Garry 1	Milans			
Weather		·		Coded Replic	ate No.	H/A/				
nstrument Idei	ntification	•								
Water Quality N	leter(s)					Serial #	·			
Casing Materia	!		· · · · · · · · · · · · · · · · · · ·	Purge	Method					
Casing Diamet	er	<u> </u>		Scree	n Interval (ft br	np) Top	332		Bottom	3 42.
Sounded Depth	(ft bmp)			Pump	Intake Depth (ft bmp)				
Depth to Water	(ft bmp)	<u> </u>	22	_ Purge	Time	Start _	2 3	Opm.	Finish	3=30 pm
		т	т	Fleid Paramete	r Measuremen	ts During Purging	g .	1	1	5
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
2:30		450		13.4	5.35	7154	165	10.42		44,22
2:35				13.3	5.16	817	167	10.41		
2:40				141	4.93	92,5	176	10.42		
2:45				14.1	491	985	177	10,43		
2:50				14,1	4.93	92,3	174	10.45		
2:55				147	4.94	98.5	173	10.57		
3:00				140	4.97	98.7	173	10.58		
3105				14.0	4.93	98.7	173	1047		44,22
3:10				13.9	4.93	928	173	10,49		
315				139	4,93	977	173	10,53		
3:70				13.8	4.93	99.0	173	10,54		
3:25				14.0	490	99.0	177	10.13	50	
3130				14.0	4.93	99,1	177	9.98	8.4	4423
							· · · · · · · · · · · · · · · · · · ·			
ollected Samp	le Condition		ColorCo	1 or les	Odor_	more	<u>. </u>	Appearance_	c leen	
arameter	e COC		Container			No.			Preservative	
					-			-		
ID Reading		-			-			•	<u> </u>	
. –			-							
omments _							·····			



Project Project Number Date Sampling Time	roject Number Ny polytist, 0409, 00082 ate 2-27-09 2-10 pm.			Sampled By Recorded By	Sampled By Gary William.						
Instrument Identification Water Quality Meter(s) Casing Material Casing Diameter Sounded Depth (ft bmp)		<u> </u>		Purge Method Screen Interval (ft bmp				oul 5	Bottom	<u>F</u> F6.	
Depth to Wate		46.	7.8	Purge		Start	1210	pm	Finish	2=10 pm.	
		···	r	Field Paramete	r Measurement	·	9	1 " ·		T = 4 - 1	
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	, pH (s.u.)	Conductivity (umhos or	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	
1:10		450		133	5,29	120.1	163	8.02		46.78	
1:15		j		13.4	5.28	115.7	162	8.27			
1:20				13.4	5,30	108,2	163	8.38	·		
1:25				13.6	5.27	88.1	160	9,02		46.79	
1:30				13.7	5,26	82.6	161	9,30			
1735				13.7	5,25	79,4	156	9,65			
1140				[13.7]	5,24	74.7	158	9.96			
1:45				13.9	5.25	71.9	163	10,21			
1:50				13.9	5,24	7//	163	10,23	1	4.4	
1:55				13.7	5,23	70,3	160	10.35	-	46,75	
2:00				139	5.25	686	161	10,45			
2:08		\'/		13.91	5.26	686	166	10.45	-		
2:10		-	····	13.9	5,75	68.5	166	10.45			
Collected Sam	ple Condition		Color <u>C</u> & <u>C</u> & C	CLESS_	Odor_	AT SHIPE		Appearance_	CUSAR_ Preservative		
PID Reading	ı	-			-			•••	,		
Comments	· · · · · · · · · · · · · · · · · · ·										
	, ,			·			 			 	
•	 										

1) Circle one unit type



Project	ni O.C	THROF-6			ounawate	r Sampunç	y Log				
Project Numbo Date Sampling Tim Weather	er Nyso:	17-09 5:25 p	00003	Site Location Seth Page Ny Sampled By Recorded By Coded Replicate No.						I.C.	
Instrument Ide					-	Serial :					
Casing Material Casing Diameter Sounded Depth (ft bmp) Depth to Water (ft bmp)			4"		Purge Method Screen Interval (ft bmp) Top / Ø Bottom					120	
		9	Pump Intake Depth (ft bmp) Purge Time Start 4:4 Field Parameter Measurements During Purging			10 pm Finish 5:25 pm					
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	
440		450		7.5	6.00	86.1	144	8.89		42,69	
4:45				8.3	6.20	86.0	139	2.93			
4:50				8.4	6.22	86,2	137	8:79			
4:55				8.4	6,24	85.9	135	8.79			
5:00				8,4	6.24	35.8	134	8,72		42,72	
5:05				8.3	0,24	85.4	133	8.86			
6:10				8,2	6.24	85.4	133	8,19			
5115				8.7	6,24	25.0	133	891			
5:20				71	6.24	85.0	137_	8,96			
5:25	***************************************	V		811	6,25	84,6	132	8,92			
Collected Samp	ole Condition		ColorCO	1 108433	Odor_	<u>い。</u> No. 0.0と	··········	Appearance_	CLETATO Preservative	<u></u>	
					-			-			
PID Reading					-	habition to the second		-			
_ _											
Comments _								······································			
_											
_											



Project Number		XT1420P- 1411/1.0409		Site Location	ß	ETHPAGE Well ID GM-17D					
Date	7-	17.09		Sampled By		W					
Sampling Time		4:30 p	\r\ \r\	Recorded By	G	W					
Weather	<u> 6 Cu</u>	PAR 40	6	Coded Replic	cate No.			•			
Instrument Ide	ntification										
Water Quality	Meter(s)					_ Serial	#				
Casing Materia	al	<u> </u>		Purge	Method		LOW	fiow			
Casing Diamet	Sasing Diameter 4"		Screen Interval (ft bmp)		р) Тор	278	······	Bottom	-98		
Sounded Dept	ounded Depth (ff bmp) epth to Water (ff bmp) 46.72		Pump	Intake Depth (f	t bmp)		<u>. </u>	,	4.		
Depth to Wate	r (ft bmp)	46.	72	_ Purge	Time	Start	3:30	PM.	Finish	4230 p	
		T	т	Fleld Paramete	er Measurement		ng T	1	.	T	
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	
3:30		450		8.8	5.27	148.8	107	8.48		46,72	
335				9,4	5,34	1365	88	6.94			
3:40				9.7	5,32	1325	95	6.67		46.75	
3145				9.9	534	12417	108	6,82			
3:50				9.9	5.35	121.6	117	7,04			
3:55				1011	5.34	1185	127	6,91			
4:00				10.1	5,35	1154	138	686		46,73	
4:05				9,9	S3Y	113.6	139	699			
4:10	· 			9.9	5.36	111,2	141	6.97			
4:15				99	534	110,4	142	7,00			
4:20				97	5.36	1087	146	7.01			
4.25				9.6	5,35	105,6	147	7,03			
4:30	-			9.7	5.35	100.1	149	7.04	10		
						***************************************			7.		
Collected Sam	ple Condition		Color_Col	ollyss	Odor_	N347 6		Appearance_	CLEAM		
Parameter			Container			No.			Preservative		
		•						- -			
								_			
PID Reading	>		-								
Comments						····			·····		
-		······			·	·				······	
					•						



Project V-C	orunna OUL.	Project No	NY00 149	12,0409,0000	2
Site Location	Bethpage NY		Date	3/31/09	
Well No. GM-1	8 I Replicate No	o. NA	Weather	60°F	clan
Sampling Personnel Prezo	orski Sampling Ti	me: Begin 15	513	End	1515
Purge Data		Field Parameters			
Measuring Point (describe)	TOC	Color Colorb			colulon
Sounded Well Depth (ft bmp)	105	Odor M	one No.	100, -	None
Depth to Water (ft bmp)	39,43	Appearance Clear	k poch clos	n loan	clan
Depth to Packer (ft bmp)	94				
Water Column in Well (ft)		—	1 1		3V
Casing Diameter	4"(0.65)	pH (s.u.) 5	59 5.6	6 5.54	5,67
Gallons in Well	7.15	Conductivity			
Gallons Purged	×3	(mŠ/cm) or _			
Prior to Sampling	22	(jumhos/cm) 1) _	229 25	4 256	257
Pump Intake					_
Setting (ft bmp)		Temperature (°C)_	18.0 19	13 19.6	20.6
Packer Pressure (psi)	75				
Pumping Rate (gpm)		DO (mg/L)			
Evacuation Method	Didicated Bledderpurp	ORP (mV)			
Sampling Method		Turbidity (NTU)	3.98 Gi	73 5.40	9.71
Purge Time Begin	1409 End 1511	Time / _	- 143	2 1452	1511
		DTW (ft bmp)	n_ #	12 /2 1	2 2
Remarks:	I = 94 - DTU		- 75		
44	(39.4	- 			
ropped well key down w	call 42	5 m per pulse	<u></u>		
Parameter See Coc	Container	No.		Preservativ	e
PID Reading			-		
Well Casing \		(A" = 0.6E			
4.45	= 0.16 3" = 0.37 6" = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47			

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-age	. 01	



G:\TECHNICL\WOLFERT\Technical Forms\2006\vowflowsampforms:\ds-- Sheet1

Low-Flow Groundwater Sampling Log

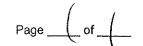
Project	Gn	mmar U		*1 10W 010	Junuwater	oampning	, Log		_	
Project Numbe	ı. Λ)	60, 149:	210409,000	Site Location	Ret	home NY		· Well ID GM-180		
Date		4/1/59		Sampled By	6	S. Jerry				
Sampling Time				Recorded By	<u></u>	rW.				
Weather	You	light	kan	Coded Replic	ate No.	MA			•	
Instrument Ide	ntification									
Water Quality I	Meter(s)			,		_ Serial i		. 1		
Casing Materia	ıl .			Purge	Method	LowFl		low late	Ochicated	blodden
Casing Diamet	er	*******************************		Scree	n Interval (ft bm	р) Тор			Bottom	
Sounded Depti	ı (ft bmp)			Pump	intake Depth (f	t bmp)				
Depth to Water	(ft bmp)			Purge	Time	Start			Finish	·-···
			ı	ield Parameter	r Measurement	s During Purgin	g			
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1850			-	12.7	8.31	282	141	6,39		(It Ship)
1855				12.8	8,27	162.5	136	6,51		42.70
19,00				12.9	7,89	136.6	wy	667		
1915				12.9	7,10	113,2	102	6.99		42,69
1916				12.9	6.61	108.8	109	6.91		
1915				12.9	6.47	1621	114	7.05		42.69
1920				126	6959	1000	12 <	699		
19:25				125	5.35	993	127	7.68		
19:30				122	5,65	97.1	146	7.02		
19:35				12.1	5.65	97,0	145	6.86		42,69
19:40				(23)	5.59	960	136	6.63		
19:4K				123	5.59	96.0	136	6.72		
19:50				123	5.55	96	136	6.72	-	42.68
					1					
Collected Samp	ole Condition		Color COU	RLBS	Odor_	いるとき		Appearance C	LEAR	
Parameter			Container			No.			Preservative	
***************************************			-		.					
PID Reading				***************************************	-					
Comments			-							
_										
_										
_			······································							
1) Circle one u	nit type									



Project NORTHROP-GRUMMAN	Project No	NY DO	1497.00	29.00	oor
Site Location BETHPAGE		Date	3.210	ર્વ	
Well No. Replicate N	0,	- Weati	her ·		
		•			
Sampling Personnel Gray Williams Sampling Ti	me: Begin <u>4</u>	50 4	140	End	4:55
Purge Data	Field Parameters	s		,	
Measuring Point (describe)	Color		Color	len	
Sounded Well Depth (ft bmp)	Odor		Non	ę	
Depth to Water (ft bmp)	Appearance		clea	. ·	,
Depth to Packer (ft bmp)					
Water Column in Well (ft)		t	1V	2V	3V
Casing Diameter 4 (0.65)	рН (s.u.)	11.06	11,36	11,21	11.07
Gallons in Well 7,15	Conductivity				
Gallons Purged x 3	(mS/cm) or				
Prior to Sampling 21.45	(µmhos/cm) 1)	1118	101	1283	127.5
Pump Intake		<u> </u>			
Setting (ft bmp)	Temperature (°C)	10.6	10.8	11.6	12.2
Packer Pressure (psi) 80 PST					
Pumping Rate (gpm)	DO (mg/L)				
Evacuation Method	ORP (mV)				
Sampling Method	Turbidity (NTU)				4.4
Purge Time Begin 445 End 457	Time				-
	DTW (ft bmp)				
Remarks: 94-32.82 x.43+	(T) - 2 -	SOP	<u> </u>		
Remarks: 94-32.82 x.43+ 56AL PAILS !!!		00(2	متلیج		
204C 1 1203 III					
Parameter Container	No.			Preservative	•
PID Reading			-		
Well Casing Volumes Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0.37 1 ^{1/2} " = 0.09 2-½" = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				



Well No. Replicate No.	Date <u>3-21-69</u> Weather						
Well No. Replicate No.	Weather						
Sampling Personnel 6W Sampling Time:	Time: Begin $\frac{2!30 p}{}$ End $\frac{3200 p}{}$						
Purge Data Fi	eld Parameters						
Measuring Point (describe) Co	olor Colorles						
	dor the hone						
Depth to Water (ft bmp) 36.(5 Ap	ppearance 'clear						
Depth to Packer (ft bmp) 215							
Water Column in Well (ft)	1 1V 2V 3V						
Casing Diameter 4(0,65) ph	1(s.u.) 7.38 7.26 7.30 6.66						
Gallons in Well 7.15 Co	onductivity						
Gallons Purged y 3	(mS/cm) or						
Prior to Sampling 21.45	(µmhos/cm) ¹⁾ 196.7 81.2 75.2 684						
Pump Intake							
	emperature (°C) 9.4 113 163 17						
Packer Pressure (psi) 130 PSC							
Pumping Rate (gpm)	O (mg/L)						
Evacuation Method OF	RP (mV)						
Sampling Method Tu	irbidity (NTU)						
Purge Time Begin 2:30 Dec End 3:00 pm Tir	me						
,	「W (ft bmp)						
Remarks: 215 - 36.15x.43+5	D= ~ 130 RS						
Tomano.							
5 BAL PADS 111/2							
Parameter Container	No. Preservative						
PID Reading							
110	= 0.65 = 1.47						





Project	N-G-UMMONOUS	Project No.	NYOOL	492040	9.00002	
Site Location	Bethpaye WY	·	Date		3/29/09	
Well No. GM-3	Replicate	No	Weat	her		
Sampling Personnel William	S/Prost; Sampling	Time: Begin	15:3	<u>)</u>	End	1550
Purge Data		Field Param	eters \			
Measuring Point (describe) Sounded Well Depth (ft bmp)		Color Odor	More Born	Nose	chaler	Calaba
Depth to Water (ft bmp)	32.88	Appearance	Torbod	clea	dea	lea
Depth to Packer (ft bmp)			-			
Water Column in Well (ft)	54634	17-	1	1V	2V	3V
Casing Diameter	2" (0.16)	pH (s.u.)	7.09	7,31	7.01	7.40
Gallons in Well	5.46	Conductivity	<i>/</i>			
Gallons Purged	. 1 20	(mS/lcm)				**************************************
Prior to Sampling	16.38	(µmhos/c	m) ¹⁾ 129.6	129,2	93.7	176.9
Pump Intake					a ()	- 1
Setting (ft bmp)		Temperature	(°C) 9,90	10.6	8.8	9,4
Packer Pressure (psi)						•
Pumping Rate (gpm)	<u>^</u>	DO (mg/L)				
Evacuation Method 3 WV	Red flow pump	ORP (mV)				
Sampling Method	Redoffer pung	Turbidity (NT	U)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Purge Time Begin	1537 End 516	Time	1537	1540	1543	15.46
	•	DTW (ft bmp))	<u> </u>		
Remarks:		Q-2	ブ こ	8.5	11-	3
Parameter Lee (oc	Container	No.	•	_	Preservative	:
PID Reading Galalo	<u> </u>				***************************************	
The state of the s	3" = 0.37 2" = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				· · · · · · · · · · · · · · · · · · ·

Page	of



Project NORTHOR-GRUM	MAU	Project No. 100	J		1.0000	
Site Location			Date	34-/-	-07	
Well No. $\frac{GM-215}{C}$	Replicate N	lo	Weath	er		
Sampling Personnel Williams	Sampling T	ime: Begin <u>S</u>	<u>>0</u>		End	
Purge Data		Field Parameters				
Measuring Point (describe) Sounded Well Depth (ft bmp) Depth to Water (ft bmp) Depth to Packer (ft bmp)	140	Color Odor Appearance	Non	य <i>।</i> १५ ४० १	/////	
Water Column in Well (ft)	- il	_	ł	1V	2V	3V
Casing Diameter	4/0.65)	рН (s.u.) / <u>/</u> _	0,05	10.21	10,13	10.04
Gallons in Well	7.15	Conductivity	,			
Gallons Purged		(mS/cm) or	-52.4		1.0	
Prior to Sampling	21,45	(µmhos/cm) 1)	983	102,0	982	95,6
Pump Intake						
Setting (ft bmp)		Temperature (°C)_	10,5	10.9	11.8	119
Packer Pressure (psi)	90			,		
Pumping Rate (gpm)		DO (mg/L)				
Evacuation Method	<u> </u>	ORP (mV)				
Sampling Method		Turbidity (NTU)				
Purge Time Begin	End	Time _				
Remarks: 56A	n Passis	DTW (ft bmp)				
Parameter	Container	No.			Preservativ	e
	,	· · · · · · · · · · · · · · · · · · ·				
PID Reading						
Well Casing Volum Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.10 1 ^{1/2} " = 0.09 2-½" = 0	6 3" = 0.37	4" = 0.65 6" = 1.47				

ARCADIS Low Flow	Groundwat	er Samplii	ng Form	•				Page	of
Project/No.	Nyodyl	. 6 469. <i>0000</i>	5V	_ Well	6M-21	D	Date	3-20	-09
Total depth (ft bmp)		81	Screen Setting (ft bmp)		2/81-2881		Casing Diameter (inches)		4"
Measuring Po Description	700		-	Stati Wate	c er Level (ft bmp)	40.6.	2	-	
Pump Intake (ft bmp)		.		Sampling Time:	Begin	4:15 p	m End	<u> </u>
Weather				•					
Sampled by :	6.0	<u> </u>	15	-					
Date/Time	Rate	DTW	рН	TEMP.	Cond.	Redox	DO	TURB	Notes
11 15	(ml/min) 450	(ft bmp) 40.67	(s.u.) 15,36	(C) 10.6	umhos de ms/cm	(mV) 220	(mg/L) 6,48	(NTU)	
415	150	140101	5.09	1010	(65.)	221	4,52		
420			279	97	65.4	225	451		
4:25		4077	5.09	4.2	6515	230	485		
4:35		17011	5,06	95 -	65,4	234	467		
440			3.00	10.7-			1		
4:45									
450									
LLIA		<u>.</u>							
49 500		40,73	SIM	9,2	65,1	245	5.03		
5:05			5,05	93	650	250	4.96		
500		40.69	503	9.2	65.1	S20	4.73		
5115			5.05	9,4	651	248	485	<20	
					·		· ·		
									_
,									
]					

ARCADIS G&M, Inc.

Project Number: NN 1464 040 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					Sample Record	led By: Replicate No.:	-	17/1/ jans	Vell ID:	GM-33D2 my &		
=			4	77	•	Purge Method		Top fr	₽ P	0	f 20	
Casing Dia Sounded D		wv).	<u> </u>		-	Screen interval Pump Intake D				Bottom .		
Depth to V	Vater (ft b	mp):	46	99.	-	Purge time	Start:	16:04	- pm:	Finish:	17074	
Field Para Time	meter Mi Minutes	easureme Rate	ents Takei Volume	n During P	urging pH	Spec Coard	ORP	ВО	Turbidity	Depth to Water	<u> </u>	
11016		(mL/min)	Purged		'	Spec. Cond. MS/cm (mS/cm)	(mV)	(MgA)	(טדט)	(ft bmp)	Comments	
10:04	Elapsed	45-0	ruigeu	11.6	(SI Units)	80.0	59	7.34	(1410)	46.93	COMMEND	
16:09	ſ	1		(2.)	7,22	80.14	73	6.38	<u> </u>	00177	,	
16:14	10			12,6	7, 22	77.6	66.	6.15		47.00		
16219	15			12.7	2/2	76.1	70	192	<u> </u>			
16:24	20			12.7	7.05	700	74	587				
16:29	25			12.6	. 7.00	74.6.	77.	787		47.00.		
16:74	30			12.6	6.96	74.0.	81	3,82				
16:39	75			12.6	6.92	73、7	83	1792		47.2.		
16:49	40			12.5	6.93	73.3'	87	n'93				
16:49	45			12.5	695	73、2	<i>ବର୍ଷ</i>	F93		47.00.		
16:59	50			12.5	6.97	73.0	90	594				
16:59	ts			12.5.	6.97	73.0.	92	6,00		47-00		
17204.	60	1		12.5	6.80.	72.8	97	8.09	2.2			
,							/					
	···							· · · · · · · · · · · · · · · · · · ·				
									ļ		<u> </u>	
	-								<u> </u>			
Sample Co			Color:	Color	lers	Odor:	MUNE	Appearar	l	CLEAR		
Sample Co Parameter:		<u> </u>	÷	Container:	: 			No.		_	Preservative:	
										_		
PID Reading	9						•			-	÷.	
Comments				· · · · · · · · · · · · · · · · · · ·					-			



Project	No	volump	Grummas	1					<i>.</i>	
Project Numbe	*****	164.0409.		Site Location	Beth	page, 44		Well ID	GM-3	34D
Date		25-09		Sampled By	Gar	4 William	<u> </u>	Sunny Xu	ι.	
Sampling Time		2:35 pm	,	Recorded By		<i>)</i>		<i>J</i>		
Weather		c/oudy		Coded Replica	ite No.					
Instrument Ide	ntification									
Water Quality I		,				Serial #	····			
Casing Materia	ıt			Purge	Method	_				<u>v</u>
Casing Diamet		2 '	1	Screen	Interval (ft bm	p) Top_	309		3ottom3	19.
Sounded Depti	ı (ft bmp)			Pump	ntake Depth (fi	bmp)				
Depth to Water		10.94		Purge '	Time	Start_	1:35	pm	Finish	2:35 pm
		,		Field Parameter	Measurement	s During Purging	9	,		
Time	Minutes Elasped	Flow Rate (mL/mln)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or _ms/em) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1:35				11,0	7.12	167.9	179	13.14		10.94
1:40				11.6	7.53	140.6	162	13.08		
1:45				12.1	7.85	127.3	146	13,02		11.08
1:SD				12.4	8.54	123,0	127	12.92		
1:55				12,4	9.97	123.6	120	12.65		11.02
200	***************************************			12.3	9.70	129-6	52	12.32		
2:05				12,2	9.04	130,5	71	12.04		11.02
210				12.5	8.21	127.9	87	12.82		
215				12.5	7.85	124.9	88	11.66		11.02
2720				12.5	7.51	122.1	84	11.41		
2525				12.4	7.33	11.9.4	81	11/10		11.02.
2130				12.4	7-21	117.4	76	10.86		
2135				12,5	7.13	115.7	73	10.67		11.02
							:			
Collected San	ple Condition		Color		Odor_			Appearance_		· ·
Parameter			Container			No.	÷		Preservative	
		-								
		 -								
PID Reading			-							
Comments										
										
						·····				

1. May 5



Project	NG	Č								
Project Number	or WINDIY	64.0409.	معن ک	Site Location	Berly	age, Mr.		Sunny >	GM -3.	4 D2
Date	02-2	4-09		Sampled By	"_ G	any W2/1	iams	Sunny >	/4	
Sampling Time		16205	•	Recorded By		Sunny X	(4)			
Weather	And description of the Control of th	(Indy	·····	Coded Replica	ate No.	<i>)</i> N	/A	•		
Instrument Ide	entification	. /								
Water Quality	Meter(s)					Serial #	***************************************			
Casing Materia	al			Purge	Method	-	6.1			/ > A
Casing Dlamet	ter	411			Interval (ft bm	-	510		Bottom	f20.
Sounded Dept	h (ft bmp)		 -	Pump Intake Depth (ft bmp)						
Depth to Water	r (ft bmp)	13.51	 	_ Purge		Start_	15:0		Finish	16:00
		T		Field Parameter	Measurement	s During Purging	<u> </u>	1	,	<u> </u>
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or .mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
12:00	0			9.2	7.66	97.2	92	1264		13.41
15:10	(*			10.4	7.47	77.8	7_	10.90.		
12:12	10			10.6	7,5-9	73.5	72	11.02		13.51
15:20	15			10.7	7.63	72.9	67	11.06		
15:25	20			1/.0	7.63	72.X	65	11.18		13,51
15=30	2/5			10.9	7.67	72.3	61.	11.13		
15:35	30			10.3	7.71	71.7	59	11.16		13,43
15:40	35			104	7.71	70.5	16	11.00		
15:45	40			10.6	7,53	70.8	<i>}</i> .5	11.01		13.51
15:20	45			10.6	7.52	74.0	46	1/10		
17:57	70			10.5	6.86	74.3	4-1	11.08		19.51
16:00	17			10.2	6.66.	72.8.	64	10.96		
16:05	b			10.2	6.63	72.5.	69	10.94		13.51
Collected Sam	ple Condition		Color	Isolers	Odor_	odorles	· · · · · · · · · · · · · · · · · · ·	Appearance	c laan	
Parameter			Container			No.			Preservative	
								- -		
								_		
PID Reading										
Comments									~-	
								 		
-										
•						···········			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	



Project NORTHEOF-GRUMM	AW	Project No. <u>10</u>	<u>400149</u>	120409	,0000 2				
Site Location		Date 3-23-09							
Well No. 6M 35D-7	Replicate N	10	Weath	ier		····			
Sampling Personnel GW	Sampling T	īme: Begin Î	2:00		End	13200.			
Purge Data		Field Parameter	rs						
Measuring Point (describe)	TOC	Cofor		Colorl	ers				
Sounded Well Depth (ft bmp)		Odor		none					
	530	Appearance		clear					
	507	T. P. P. C.							
Water Column in Well (ft)	23		i	1V ,	2V	3V			
Casing Diameter	4"(0,65)	pH (s.u.)	7.09	7,09	699	6.98			
Gallons in Well	14.95	Conductivity	7 1	•					
Gallons Purged	x 3	(mS/cm) or							
Prior to Sampling	45	(µmhos/cm) ¹	1333	127.9	123	1242			
Pump Intake			-						
Setting (ft bmp)		Temperature (°C) <u> 5,6</u>	15.6	15.1	15.0			
Packer Pressure (psi)	250								
Pumping Rate (gpm)		DO (mg/L)							
Evacuation Method		ORP (mV)			-	<u> </u>			
Sampling Method		Turbidity (NTU)							
Purge Time Begin 12	13200.	Time			1	<u> </u>			
		DTW (ft bmp)							
Damarko									
Remarks:									
56	AL PARS I	41 II							
Parameter	Container	No.			Preservativ	ve.			
See Coc				<u></u> ,					
				-					
PID Reading									
Well Casing Volum	nes								
Gal./Ft. $1^{1/4\pi} = 0.06$ $2^{\pi} = 0.16$ $1^{1/2\pi} = 0.09$ $2^{-\frac{1}{2}} = 0$		4" = 0.65 6" = 1.47							
$1^{1/2} = 0.09 \qquad 2^{-1/2} = 0$.26 3-1/2" = 0.50	U 1.41				<u>,</u>			



Project NO KIAKOF- 6/2	\d	Project No. 1V	1001,		04-056 <u>0</u>	<u> </u>
Site Location Beth	page, N)		_ Date _	3-29-	.07	
Well No. $\underline{6M-36}$	Replicate No	·	Weathe	er		
Sampling Personnel Gim Wi	Miamy Sampling Tim	ne: Begin <u>/(</u>	1:50		End	11:20-
Purge Data	•	Field Parameters	•			
Measuring Point (describe) Sounded Well Depth (ft bmp) Depth to Water (ft bmp) Depth to Packer (ft bmp)	70C 214 202	Color Odor Appearance	CHA CHA	<u> </u>		
Water Column in Well (ft) Casing Diameter Gallons in Well Gallons Purged Prior to Sampling	12 4(0,65) 7.8 8.3 24	pH (s.u.) Conductivity (mS/cm) or (µmhos/cm) 1)	6.71	1v 5.68 99.1	2V 5:52 91:3	3V 5,69 87,5
Pump Intake Setting (ft bmp) Packer Pressure (psi)	125 PSE	Temperature (°C)	14.5	127	126	13.2
Pumping Rate (gpm) Evacuation Method		DO (mg/L) ORP (mV)				7,
Sampling Method Purge Time Begin	11:00 End 11:20	Turbidity (NTU) Time DTW (ft bmp)				,36
Remarks: 202	56ALPADIS!	= 12	S PSI			
Parameter SEP COC	Container	No.		***************************************	Preservative	3
PID Reading 0.0						
Well Casing Vo Gal./Ft. $1^{1/4}$ = 0.06 2^{n} = 0 $1^{1/2}$ = 0.09 $2 - \frac{1}{2}$		4" = 0.65 6" = 1.47				



Project NORTHROY 6RD	MAMM		Project No. <u>N</u>	Y0014	1920009	7.00002	
Site Location RETA	PAGE N	H-		Date	2-2	409	
Well No. 6N3	60-2	Replicate N	0	Weath	ner		
Sampling Personnel Cary	Williams	Sampling T	ime: Begin		-	End	***************************************
Purge Data			Field Parameters	5			
Measuring Point (describe)	TOP		Color			·	
Sounded Well Depth (ft bmp)		<u>S40</u>	Odor		· · ·		
Depth to Water (ft bmp)		35.68	Appearance				
Depth to Packer (ft bmp)	<u>S</u>	3					
Water Column in Well (ft)	2	٧,			17	2V	3V
Casing Diameter	9/0	265)	pH (s.u.)	7.87	9.76	9113	8,69
Gallons in Well	14	<u>,3</u>	Conductivity	•			
Gallons Purged	×	3	(mS/cm) or	•			
Prior to Sampling	4	3	(µmhos/cm) ¹⁾	79.0	1027	95.4	94.7
Pump Intake				" ^ -		10	1,0 /
Setting (ft bmp)			Temperature (°C)	<u> 130</u>	13.1	13.5	13.6
Packer Pressure (psi)	261					ļ	
Pumping Rate (gpm)			DO (mg/L)			-	
Evacuation Method	DEDECATE	D BLADOFT	ORP (mV)				
Sampling Method	<u> 3WV</u>		Turbidity (NTU)				6,5
Purge Time Begin	End	1	Time	<u></u>			
			DTW (ft bmp)			<u></u>	
Remarks:	518-31	6.58 x	.43 +50 =	2611	25.Z		
	5 GAL	PARIS	Timir				
Parameter See COC		ntainer	No.		_	Preservativ	re
	· · · · ·				•		
PID Reading							
440	0.16 3"	= 0.37 ½" = 0.50	4" = 0.65 6" = 1.47				



Project	N-Griman	002	Project No	NYO	01492,04	109,0000 2	
Site Location	Be Hypog	eny		Date	3	30/09	
Well No. $GM - 3$	70 °		No. MS/MSD	Weath	her w/w	ndy, clou	dy ypon 40,
Sampling Personnel	11201sti	Sampling [*]	Time: Begin_	1434		End	1443
Purge Data			Field Paramet	ers	i I		
Measuring Point (describe	e)	TUC	Color	Colorlan	Works	colorless	Colorlan
Sounded Well Depth (ft br	mp)	262	Odor	NOW	None	None	None
Depth to Water (ft bmp)	3	6.43	Appearance	lan 1	den	class	lan
Depth to Packer (ft bmp)		240	·				
Water Column in Well (ft)		22		1	1V	2V	3V
Casing Diameter	410	(0.65)	pH (s.u.)	5.61	5.16	4.97	4.75
Gallons in Well		14/3	Conductivity				
Gallons-Purged		x3	(mS/cm) or		_ (
Prior to Samplin	g	43	(µmhos/cm)		204	196	195
Pump Intake					•		
Setting (ft bmp)			Temperature (°	0) 17,3	16.1	16.1	1710
Packer Pressure (psi)		38					
Pumping Rate (gpm)			DO (mg/L)				
Evacuation Method	Dedisold	blodderpart	ORP (mV)	-		,	
Sampling Method		<i>T</i>	Turbidity (NTU)		2.37	0.33	,70
Purge Time	Begin バンパラ I	End 1430	Time		1320		1430
		550	(BTW (II DMP)		16 1	114	\$ # P
Remarks:	240-36.4:	3 X.43 +	50 = 138	foodly	PSI		
		T. 112-	Split sa	mple in	M Be	Haze Wi	to Distant
	9	50 Mag	son Julie				
Parameter See Co	<u>'(</u>	Container	No.			Preservative	
PID Reading	. ,		•		,		
Well Ca Gal./Ft. 1 ^{1/4} " = 0.06 1 ^{1/2} " = 0.09		" = 0.37 -½" = 0.50	4" = 0.65 6" 1.47				
	4-72 - U.ZU C	-/z - U.JU	1.41				

	ł	ĭ
Page _		_ of <u>/</u>



Project NOKTHROP-6KUMMAW	_ Project No	8400	1492.04	04.0000	57	
Site Location		Date	3-28	7-09		
Well No. Com - 37D-2 Replicate No.)	- Weath	ier	CLUAR	500	
Sampling Personnel (Tary Williams Sampling Tir	ne: Begin 🛴	[180		End	():/J	
Purge Data	Field Parameters	s				
Measuring Point (describe) 70C	Color					
Sounded Well Depth (ft bmp) 390	Odor		how	,		
Depth to Water (ft bmp)	Арреагапсе		clear.			
Depth to Packer (ft bmp)						
Water Column in Well (ft) 23			1V	2V	3V	
Casing Diameter 4(0:65)	pH (s.u.)	5,83	4.52	14,26	4.15	
Gallons in Well 45	Conductivity					
Gallons Purged	(mS/cm) or		JIO I	1111	::(10	
Prior to Sampling 45	(µmhos/cm) 1)	183.5	143.6	1191,5	191.9	
Pump Intake		110	17 (lu 0	سے رز	
Setting (ft bmp) Packer Pressure (psi)	Temperature (°C)	lois	16.4	16.2	16,5	
	50 (")					
Pumping Rate (gpm)	DO (mg/L)					
Evacuation Method	ORP (mV)				6.6	
Purge Time Begin 12:15.	Turbidity (NTU)			:	, O, O	
Purge Time Begin End 12:13	Time DTW (ft bmp)	-				
					l	
Remarks: 56AL PATELS WIII		***				
Parameter Container	No.			Preservative)	
PID Reading						
Well Casing Volumes Gal./Ft. $1^{1/4}$ " = 0.06 2" = 0.16 3" = 0.37 $1^{1/2}$ " = 0.09 $2^{-1/2}$ " = 0.26 $3^{-1/2}$ " = 0.50	4" = 0.65 6" = 1.47					

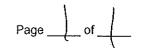
ARCADIS Low Flow	Groundwa	ater Sampli	ng Form					Page	
Project/No.	Ny ED 14	920469	. 00002	Well	6m.38	BD	Date	3-27	2-09
Total depth (ft bmp)	34	.0	Screen Setting	(ft bmp)	(ft bmp) 320 1-31		Casing Diameter	(inches)	4"
Measuring Po Description	int 70	<u>C</u>		Stati Wate	ic er Level (ft bmp)	36.			
Pump Intake (ft bmp)				Sampling Time:	Begin	(Low pm	End	2200 pm
Weather									
Sampled by :	6	W							
Date/Time	Rate (ml/mín)	DTW (ft bmp)	pH (s.u.)	TEMP. (C)	Cond.	Redox (mV)	DO (mg/L)	TURB (NTU)	Notes
1:00	4.50	35.53	5.99	12.4	145,4	235	2,45		
1:05	1		5.89	126	1273	222	1,53		
(310			5,84	129	18.2	194	1,3/		
1:15			6.26		18.7	185	,	***************************************	
1:20				_					
ી: 2ડ					_		†		
1:30			5.24	1407	91.4	194	207		
1:36							2		
1:40									
1:45			5.19	15,2	883	19/	2,03		
1:50	<u> </u>	35.58	5.31	14.3	89,0	195	180		
1:05	\\/		5:24	144	8901	196	977		
2:00	V	25.58	5.22	14.4	89/	196	1.72		
				,		······································			
							<u> </u>		
				······································					
				······································					
				·			1		
	}		 				 		

ARCADIS G&M, Inc.

Project Number: <u>NYDO1492-04</u> Date: <u>3.72-04</u>		1404.0B	01. 0600 Fask:				ell ID:	6 W 380-2			
Date:		13	.2500	1	Sample	ed·By:	<u> </u>				
Sampling '	Time:				Record	led By:	-6u	<u>ي </u>			·····
Weather:					Coded	Replicate No.:			•		
Instrume	nt Identif	ication									
Water Qu	ality Meter	(s):						Serial #:			
Purging I	nformatic	nn						^			
Casing Ma						Purge Method:		LOWIND	W		
Casing Dia			4	И	÷	Screen Interval	65 4 /			Bottom	495'
Sounded I		mp):			Pump Intake D		epth (ft bm	p):	o):		
	Depth to Water (ft bmp): 37.36		.36	-	Purge time	Start:	•		Finish:	4:10 pm	
Field Para	ameter M	easureme	nts Taker	n During f	Purging				,		
Time	Minutes	Rate	Volume	Temp	ρН	Spec, Cond.	ORP	DO	Turbidity	Depth to Water	
	Elapsed	(ml/min)	Purged	(°C)	(SI Units)	MANS tossemt	(mV)	(mg/L)	(NTU)	(ft bmp)	Comments
3(10 2(15		450		13.2	6.81		192	6.47		37.36	
3:15				124	6.48	146.5	192	17,01		15	
3:10 3:25				12.4	6,47	146.0	191	4.99	<u></u>	07.00	
3:25				12.3	6.35	1462	189_	2,35		37,39	
3:30 3:35				123	6,34	146.6	188	2:26			
3:35				123	632	145,0	184	2.09	ļ	ļ	
3:40				12.3	632	143,4	<u> </u>	1,99		 	
3.48	ļ <u> </u>		<u>-</u> -	12.02	632	143,2	18/	2.02		37.43	
3:50				12.3	632	143.1	120	2.05		31/13	
3:35								<u> </u>	ļ	 	
G1:00	ļ			ļ	ļ						
4:05					ļ					 	
4110					ļ				· · · · · · · · · · · · · · · · · · ·	<u> </u>	
	ļ								_		
					ļ						
								-		1	
								<u> </u>			
			Color:	Δ	130 C	Odor: if	5056	Appearan		CHAN	
Sample C			COIOI.	awa	E35	, Odol. 15		- Appearer	icc.	<u></u>	
				Container	r:			No.			Preservative:
Parameter	iee a	X	٠,							<u></u>	
										-	
											#
PID Readir	3 g										
Comment	•		P	PIAI	1570 1	100PCEL	st iv	2001 No	S STYC	E 54	hn.PCC
COMMISSIN	•				<u> </u>			- · · · · · · · · · · · · · · · · · · ·			
****			NBX	WU							

Project Number: Note: Of Date: Of Date: Of Date: Of Date: Of Date: Number: Neather:	cation (s): n	.0409 08 :22. 		Coded	=	(ft bmp):	Villian Willian Serial #:) (\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Bottom	
Field Parameter Me	asurement	s Taken D	urina Pi	uraina						/
Time Minutes		Volume	Temp	pH	Spec. Çond,	ORP	00	Turbidity	Depth to Water	
Elapsed	(mi/min)	Purged	(°⊂)	(SI Units)	Spec. Cond. wnhos/cm (ms/cm)	(mV)	(mg/L)	(NTU)	(ft bmp)	Comments
1820	450		10.6.	6.08	72.2.	145	7,30.	,	36.32	
18:75			11.5.	6.08.	72.2.	146	6.79			
18:30		. /	2.4	5.94	71.4	149.	6.79.		36.39 .	:
18:35			126	5.92	70.9	148	6.67			
18:40			2.6	5.92	70,7	150_	6,83			
18:45			12h	59	70,7	152	6.71			
18:50			2.h	591	706	153	6.71		3636	
18:53			7.6	591	70.7	154	6.74		<u> </u>	
18:00			126	59	70,6	154	6,70			
(q :05			26	<u>59</u> 11	70.7	<u>156</u>	607			
19=10 .				591	70.6	157	6,71			
19115				591	70,7	157	6,73		36.34	
19:20 60			716	<u> 591</u>	70.6	159	6183			
'										
										*
								<u></u>		. 31
				L				İ	<u> </u>	
Sample Condition Sample Collection	Co	lor: <u>C</u>	olorb	/ <u>e. </u>	Odor:	pone	Appearan	ce:	cloan	
Parameter:	<u> </u>	Co	ntainer:				No.			Preservative:
		-								
	····				 				<u>.</u>	
PID Reading				***						
Comments							· · · · · · · · · · · · · · · · · · ·			

Purging Information Casing Material: Casing Diameter: Screen Interval (ft bmp): Sounded Depth (ft bmp): Depth to Water (ft bmp): Purge Method: Screen Interval (ft bmp): Pump Intake Depth (ft bmp): Purge time Start: Purge Method: Screen Interval (ft bmp): Pump Intake Depth (ft bmp): Finish: 18 118 118 118 118 118 118 118 118 118	<u></u>
Field Parameter Measurements Taken During Purging Time Minutes Rate Volume Temp pH Spec. Cond. ORP DO Turbidity Depth to Water	
untrojan	
Elapsed (mt/min) Purged (°C) (\$1 Units) (mt/min) (mv) (mg/L) (NTU) (ft bmp) Comments 17:15 450 12.8 (£.82), 73.5 (8.8.8.2.5. 38, 25	\neg
17:30 5 12.1 5.80 73.9 84 8.10	
1738 10 32 571 73.6. 10/ 7.67 39.25.	
17:30 15 12.2 5.67 73.3 108 7.37	
17:35 20 12.0 5.67 73.2 115 6.39 39.24	
17:40 25 12.0 5.66 73.2 125. 6.30.	
17:45 30 11.9. 5.64 73.3. 130 6.24. 39.25	
11:10 35 11.9. 5.64 73.2 135. 6.23.	
17:15 40 12.0. 5.62 73.0 138 6,17 39.25.	
1500 45 60 5.62 730 143 6.18	
18:05 80 12.0 5:62 73.0. 144 6.14 39.25.	
18:10 15 12.0.5.61 73.0 150. 6.14	
18:15 60 11.9 5.61 73.0 152 6.22 37.25.	
	·
Sample Condition Color: Cohorles Odor: None Appearance: Clear	
Sample Collection Parameter: Container: No. Preservative:	
PID Reading	
Comments	-



ARCADIS Infrastructure, environment, facilities

Site Location Bethogen M Well No. GM - 7002 Replicate No. NA Weather Lindy, closely Wenther Lindy, closely Lindy, closely Lindy, closely Wenther Lindy, closely Lindy, cl
Sampling Personnel Product Sampling Time: Begin 1702 End 1705
Purge Data Field Parameters Color (olofon (olofo
Purge Data Field Parameters Color (olof) Co
Measuring Point (describe) Sounded Well Depth (ft bmp) Depth to Water (ft bmp) Mater Column in Well (ft) Casing Diameter Gallons Purged Prior to Sampling Pump Intake Setting (ft bmp) Packer Pressure (psi) Pumping Rate (gpm) Evacuation Method Sampling Method Purge Time Begin 1540 End 170(Starple with the packer (ft bmp) Sounded Well Depth (ft bmp) Appearance Color is Juhr Well (in Juhr) Odor Nume Notice (olor Notice Noti
Sounded Well Depth (ft bmp) 330 Odor Nove Nove Nove Nove Nove Nove Depth to Water (ft bmp) 32.3 \(\text{ Appearance} \) Appearance \(\text{ Jan.} \) \(\text{ John Odor} \)
Depth to Water (ft bmp) Depth to Packer (ft bmp) Water Column in Well (ft) Casing Diameter Gallons in Well Gallons Purged Prior to Sampling Pump Intake Setting (ft bmp) Packer Pressure (psi) Pumping Rate (gpm) Evacuation Method Sampling Method Purge Time Begin 1540 End 170(Time Setting (ft bmp) Remarks: About 1840 Appearance Jan 1851 Appearance Jan 1852 Appearance Jan 1853 Appearance
Depth to Packer (ft bmp) Water Column in Well (ft) Casing Diameter 4"(0.65) pH (s.u.) 5.32 4.85 5.19 5.27 Gallons in Well 14.3 Conductivity Gallons Purged Prior to Sampling Pump Intake Setting (ft bmp) Packer Pressure (psi) Pumping Rate (gpm) Evacuation Method Sampling Method Purge Time Begin 1540 End [70] Pit Sarple with the total and the total an
1 1V 2V 3V
Casing Diameter
Gallons in Well Gallons Purged Prior to Sampling Pump Intake Setting (ft bmp) Packer Pressure (psi) Pumping Rate (gpm) Evacuation Method Sampling Method Purge Time Begin 1540 End 170(Time Squartake Squartake Tonder Andrew Squartake Squa
Gallons Purged Prior to Sampling Prior to Sampling Pump Intake Setting (ft bmp) Packer Pressure (psi) Pumping Rate (gpm) Evacuation Method Sampling Method Purge Time Begin 1540 End [70] Remarks: Att in vell 308 - 38,32 x, 43 +50 - 1660 PST Split Sample with attended and publicated and public
Prior to Sampling
Pump Intake Setting (ft bmp) Packer Pressure (psi) Pumping Rate (gpm) Pumping Rate (gpm) Evacuation Method Sampling Method Purge Time Begin 1540 End 170(Sampling Method Sampling Method Purge Time Begin 1540 End 170(Sampling Method Sampling Method Purge Time Begin 1540 End 170(Sampling Method Sampling Method Sampling Method Purge Time Begin 1540 End 170(Sampling Method Sam
Setting (ft bmp) Packer Pressure (psi) Pumping Rate (gpm) Evacuation Method Sampling Method Purge Time Begin 1540 End [70] Remarks: Att in uff 302 - 38,32 × ,43 +50 - 1660 PST Split sample with a stress of a stre
Packer Pressure (psi) Pumping Rate (gpm) Evacuation Method Sampling Method Purge Time Begin 1540 End 170(Sampling Method Remarks: Att in well 302 - 38,32 x, 43 +50 = 1660 PSI Split sample with the same as the protect.
Pumping Rate (gpm) Evacuation Method Dedicated Bloddenlack ORP (mV) Sampling Method Purge Time Begin 1540 End 170(Time Soft actions DTW (fit bmp) Remarks: Att in well 308 - 38,32 x, 43 +50 - 1660 PSI Split sample with attacks as the pixtont.
Evacuation Method Sampling Method Turbidity (NTU) Purge Time Begin 1540 End 170(Time Sampling Method Remarks: Ate in vell 302-38,32 x, 43+50-1660 PSI Split sample with a three-next and severe are first ord.
Sampling Method Purge Time Begin 1540 End 170(Time 154 - 1634 170) Remarks: At in self 308-38,32 x,43+50-166 PSI Split sample with the property of the
Purge Time Begin 1540 End 1701 Squartalus Squartalus Att in vell Sqlit sample with the property of the pr
Split sample with the protect of the start of the sample with the protect of the sample with the protect of the
Remarks: Att in self 302-38,32 x, 43+50-1660 PSI Split sample with the property 550 ml for gar pulse.
Split sample with the part of potent 550 ml sample with the part of the part o
Split sample with the part of potent 550 ml sample with the part of the part o
of the surface of the post out
Parameter Set Coc Container No. Preservative
PID Reading
Well Casing Volumes Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
Gal./Ft. $1^{3/4}$ " = 0.06 2" = 0.16 3" = 0.37 4 " = 0.65 $1^{1/2}$ " = 0.09 $2^{-1/2}$ " = 0.26 $3^{-1/2}$ " = 0.50 6 " = 1.47



Project	Grimman OUZ	Project No	N/0019	14210409	10000	
Site Location	ethpage, NY		_ Date		3/31/09	
Well No. GM-	7/02 Replicate	No. <u>Ropo33</u> 109	Weat	her C	lan 50.	2 -
Sampling Personnel	Lorsti Sampling	Time: Begin	1300	_	End	1306
Purge Data		Field Parameter	rs	1)	
Measuring Point (describe)	Toc	Color (J	lodon	coloden	Colorlon	Colo-lan
Sounded Well Depth (ft bmp)	464	Odor	Noire	NUM	None	None
Depth to Water (ft bmp)	38.02	Appearance	ilon	clan	dea	clan
Depth to Packer (ft bmp)	442					
Water Column in Well (ft)	22		1	1V	2V	3V
Casing Diameter	4"(0.65)	pH (s.u.)	5.10	5.11	5.08	5.01
Gallons in Well	14,3	Conductivity				
Gallons Purged	× 3	(mS/cm) or				
Prior to Sampling	43	(µmhos/cm)	1) 275	165,9	167,3	161,8
Pump Intake	•					
Setting (ft bmp)		Temperature (°C	D 142	15,2	15,2	15, 2
Packer Pressure (psi)	225		<u>.</u>			
Pumping Rate (gpm)		DO (mg/L)				
	adsoded Bladderpair					
Sampling Method	V	Turbidity (NTU)	109	.35	.46	0.17
· -	11/28 End 12:151	Time,		121,00	12126	12158
	Ar) Time 5 gd (intalnow DTW (fit bmp)		# 14	# # #	\$ \$ \$
Remarks:	442 - 38.	02 X.43+50	0 = 2	25 . Kom	led p PS	Z
		500 mlasa		oulse		
(Split sam	plo with Bethoop	e Water OF	<i>y</i> - v			
Parameter	Container	District) No.			Preservativ	e
See LOC		M		_ '		
PID Reading			, 4			
Well Casing V			·····	<u></u>		
	0.16 3" = 0.37 " = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47			•	/



٠	. 1	07510.0			ounawate	· Sampling	grog			
Project Project Number Date Sampling Time Weather	ect Number NY 2014 64, 0409, 80002 pling Time 4:25 pm		Site Location Sampled By Recorded By	Site Location BETHPAGE NY Well ID 6M-730						
Instrument ide						Serial	#			
Casing Materia	Vater Quality Meter(s) Casing Material Casing Diameter 4 11 .		,11.	_	: Method n Interval (ft bm	20W	Bottom_4	<u>, - </u>		
Sounded Dept Depth to Water		41.15	>	Purge		Start	- p//	Finish <u>4</u>	:× pm	
	h#*			T	r Measurement	Conductivity	T		-	Depth to
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	(umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water (ft bmp)
3:25		450		70	5.06	71,2	205	8.12	<u> </u>	41.15
3:30	****			8.7	5.07	71,2	206	7.33	· · · · · · · · · · · · · · · · · · ·	
3:35				8,2	5.0	71.9	210	7.25		
3:40				8,1	508	/1.9	210	7,23		1000
3:45				147	15,08	72.2	211	1,25		41,15
3:50			·	7.7	5,08	72.3	209	1/21		
3.55				13	5,08	12.6	212	7.50		
4:00				119	5.01	14.5	213	740		
16.05				8,0	0,01	72.7	212	7,10		41.15
11:10	-			79	2,01	72 /	215	700		
4(1)				8,0	507	770	20	773	-	
4:25		\forall		7.9	5.07	72,4	219	165	9.6	41,15
Collected Samp	ole Condition		Color		Odor_			Appearance_		<u></u>
Parameter			Container			No.			Preservative	
					~					
PID Reading	Canal	·			-			-		
Comments _										
-										
~										
-		····				"				

ARCADIS

Infrastructure, environment, facilities

Project Project Number Date Sampling Time Weather 5	· Ny 0014 72 · sw/ R4	64.6469.0 -18-09 3=15	GRUMM		<u> </u>	7HPAGE W J P-2-18	NY -09	Well ID	<u>6n-7</u>	13D-2
Water Quality I Casing Materia Casing Diamet Sounded Depti Depth to Water	il er ı (ft bmp)	43.0	8	Screer Pump Purge	Method n Interval (ft bm Intake Depth (ft Time r Measurements	bmp) Start	LOUTE 532 23/5		- · · · · · · · · · · · · · · · · · · ·	3:12 bw
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
215 223 223 224 225 225 225 225 225 225 225 225 225		450		6.8 7.0 7.4 7.6 7.8 8.7 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.4 8.3	573 573 573 573 573 573 573 573 573 573	700 69.9 70.8 71.2 71.4 71.4 71.4 71.4	188 199 199 200 201 203 204 205	7.19 7.25 7.19 7.12 7.10 7.25 7.16 7.26 7.32	8.7	43,08
Collected Sam Parameter PID Reading	ole Condition		ColorContainer		Odor_	No.		Appearance_	Preservative	
Comments										

1) Circle one unit type

D		
Page	of	



				Site Location Sampled By Recorded By Coded Replicate No.				Well ID 6M-74T			
Instrument Ide						. Serial #					
Casing Material Casing Diameter		<u> </u>	Scree				100 F10W Top 94 Bottom 11L				
Sounded Depth Depth to Water		37.4		Purge Time		ime Start 10 Measurements During Purging		Pinish		oitt	
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	
10:10		450		8.2	6.58	134.6	171			37,43	
10:15 10:20				8.6	5.76	96.1	15	8.61			
10:25				8.8	5,73	94.8	149 143	8,52		37.48	
10:35				9.0	5,73	82.7	141	8.33		27 (17	
10:45				9.3	5.13	78.5	137	8.36		5/17/	
10:50		+V-		9.3	5.74	77.6	<u>137</u> 137	8,33	9.9		
					•						
		-									
		Color <u>Col</u>	orlegs	Odor_	NOWE No.		Appearance	CLSAY Preservative			
		- - -			- 			···			
PID Reading			_								
Comments											



Infrastructure, environment, facilities

,	•	- 10 -		v-Flow Gro	oundwater	Sampling	J Log			
Project Project Number Date		RTHROP. 464.0409.0 -18-00	20002	Site Location Sampled By		nface W		· Well ID	GM-	74D
Sampling Time		19: 02- 1		Recorded By		·W				
Weather		Raining		Coded Replica	ate No.					
Instrument Ide						Serial #	#			
Casing Materia	al	·		_ Purge	Method					
Casing Diamet	er	- 4	1)	Screen	n Interval (ft bm	р) Тор	295		Bottom	208
Sounded Dept	h (ft bmp)	-170.00		_ Pump	Intake Depth (f	(qmd l				
Depth to Water	(ft bmp)	-461		Purge	Time	Start		<u> </u>	Finish /_	2:0[
		,		Field Parameter	Measurement		g	т		1
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
11:05		450		8.1	5.21	70.8	148	8.51		4227
Ilian				88	4.87	70.7	172	5,81		
11:15				9.7	4.29	70,8	177	5.75		
11:20				au	1100	69.7	187	5.66		4227
11:25				9.5	4.87	69,2	185	5.79		12.01
11:30				19.6	4.86	69,1	187	5.80		
11:35				9.6	4.2/	627	191	5.21		
11.40				9.6	4.26	68.1	193	5,39		42,25
11:45				19.5	4.87	68.2	196	5788		
11:50				9.5	4.27	6811	197	5.91		
11:55				9.5	4.39	67.9	199	691		
12:00				9,5	4,89	679	200	5.87		
12:05		4		9.7	4.87	67.6	203	6,08	9.6	42.26
Collected Sam	ole Condition		Color OOL	-DRU53S	Odor_	NOWE		Appearance	CLEVAY	
Parameter SEE CL			Container			No.			Preservative	
		· •						•••		
PID Reading		·			•			•••		
Comments					······					
										······································
•										



Project Project Numbe Date Sampling Time Weather	, N40014	THROP- 64.0409. 2-18-09 12.15 P 150.035T	6 RUM 11 60002 350	Site Location Sampled By Recorded By Coded Replica		HAGE, BW	NY	Well ID	EM-	740-2
Instrument Idea						Serial #	¥			
Casing Materia	f			Purae	Method		Low fra	W		
Casing Diamet		<u> </u>	1)	-	n Interval (ft bm	р) Тор	542	•	Bottom	<u> </u>
Sounded Depth				_	Intake Depth (fi					
Depth to Water		48,4	ン	Purge	Time	Start	12=15		Finish/	>15/DIM
				Field Paramete	r Measurement	s During Purgin	g			,
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
12:15		450	X	8.3	4.68	67.3	209	7.81		48.42
12:20				8.5	5.13	671	193	3,90		
12:25				90	512	67.1	189	2.09		
12/30				9.1	5,26	66,1	185	TA		
12:35				9.7	5.26	655	123	2.42 -		48142
12:40				9.3	521	249	124	3,03		
12:45				93	5.17	(3.2	irs	3,29		
12:50	*****			0.13	515	635	185	3,28		
12:55				a.3	5.14	62.3	126	3,34		48.42
1:00				9.3	5.12-	(3.0)	122	3.51		10,15
1:05				a 3	517	(3,7	129	3.51		
1:10				02	5.17	63.4	170	3.49		
1110		1		113	0116	10314	101		0.7	4842
1313									11 1	iori
Collected Sam	ple Condition		Color CO	LORUZ!	Odor_	NONE No.		Appearance_	C(PX) Preservative	H
					~			_		
, , , , , , , , , , , , , , , , , , ,								_		
PID Reading			_		, .					
Comments										
, .							-			
										<u></u>

Date: 03 Sampling Time: Weather: Instrument identification Water Quality Meter(s): Purging Information Casing Material: Casing Diameter: Sounded Depth (ft bmp):		¥"	Sampl Record	ed By: ded By: I Replicate No.: Purge Method Screen Interval Pump Intake D Purge time	Stu	Serial #:	Nell ID: Sunn os	₩ - 7. y X y Bottom	525
Depth to Water (ft bmp):			- .	ruige unie	start.		🗸		
Field Parameter Measure Time Minutes Rate flapsed Im/m //200 4400 //200 4400 //200 1/200 //200 //200 1/200 //200 1/200 //200 1/200 //200 1/200 //200 1/200 //200 1/200 //200 1/200 //200 //200 1/200 //200 1/200 //200 1/200 //200 1/200 //200 1/200 //200 1/200 //200 1/200 //200 //200 1/200	Volume n) Purged	n During F Temp (°C)	C. 45 C. 45 C. 45 C. 45 C. 45 C. 40 C.	Spec. Cond. 97.7. 90.8. 81.7. -90.0. 78.9. 78.20 77.70 77.80 78.0. 76.9	ORP (mV) 222 204 195 192 193 189 189 190 191 191 193 195	50 (mgA) 6.94 5.71 5.72 5.09 4.25 3.93 4.32 4.96 4.96 4.88 4.80	Turbidity (NTU)	Depth to Water (ft bmp) 329/. 32.96. 32.95. 32.95. 32.95.	Comments
Sample Condition Sample Collection Parameter: See COC PID Reading Comments	Color:	Color Container		Odor:	none	Appeara No.	ince: CC	lear.	Preservative:



Project 10010 M2010	CKOMIMAN	Project No. (Vy Ot	<u> </u>	17,0000	<u> </u>
·	that n'y	Da	ate <u>2-24</u> -	25	
Well No. <u>GM-78</u>	[∕] ≤ Replicate N	o W	eather		•
Sampling Personnel Gang	كَارُالُوكِمِيِّ Sampling Ti	-		End	1:34
Purge Data		Field Parameters	7. N. w.		
Measuring Point (describe)	700	Color	Color L	ens	
Sounded Well Depth (ft bmp)	_70.00	Odor	none		
Depth to Water (ft bmp)	38.28	Appearance	c le av	•	
Depth to Packer (ft bmp)	<u> </u>		·		
Water Column in Well (ft)	3/172		1V	2V	3V
Casing Diameter		pH (s.u.) 6.0	8 5.95	5,97	5.95
Gallons in Well	20,61 X3	Conductivity			
Gallons Purged	γ ε	(m8/em) or			
Prior to Sampling	_62	(µmhos/cm) ¹⁾ 187 ₁	1 195,0	189.2	187,5
Pump Intake					
Setting (ft bmp)		Temperature (°C) 135	\$ 13.8	13.9	14.0
Packer Pressure (psi)					
Pumping Rate (gpm)	DORTO-25 IV=81	MDO (mg/L)			
Evacuation Method		ORP (mV)			
Sampling Method	<u></u>	Turbidity (NTU)			1,7
Purge Time Begin	\!1\\D End	Time /:10	198	1:26	1:34
		DTW (ft bmp)			,
Remarks:					
Parameter See COC	Container	No.		Preservative	}
		······································			
PID Reading	DOI 9770-0700000000 distance-000-				
Well Casing V: Gal./Ft. $1^{1/4\pi} = 0.06$ $2'' = 1^{1/2\pi} = 0.09$ $2-\frac{1}{2}$		4" = 0.65 6" = 1.47			



Project Project Numb	or 11/00/11/	W Bliff IN	ツ <u>ン</u>	Site Location	Bettyna	ÁZ. NÝ	·····	+ Wallin	GM-78	14
Date	رد. <u>۱۹۲۱مه ا</u> لم رو	- 14-09		Sampled By	a	東, N X.	X	VYCII 1D	<u> </u>	4
Sampling Tim		13:458	PUHMUN VI	Recorded By		Sunny				
Weather		, , , , , , , , , , , , , , , , , , , ,		Coded Replic	ate No.			•		
Instrument Ide	entification									
Water Quality						_ Serial#				
Casing Materi	al			Purge	Method					·····
Casing Diame			4"		n Interval (ft bm		90	····	Bottom	110
Sounded Dept Depth to Wate		38,58		_ Pump _ Purge	Intake Depth (f Time		12) = (no pM	Finish 1	7:45 Pm
				– Field Paramete	r Measurement	s During Purging		<i>γ</i>		,
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
12:00		400		10.5	5.98	165.6	128	8.89		38,18
10:05	<i>5</i> -			10.0	1.98	164.2	12/	9,00		
12:10	10			10.6	6.02	157.2	117	9.15		38.48
12:15	/5			11.0	6.05	158.4	116	8.82		
12:20	20			11.3	6.05	159.0	116	9.04		38.18
12:75	25			11.2	6.06	157.8	119	9.04		
12:30	30			11.3	6.08	1858.3	119	8.90		38, 18
19:35	35			11.6	6.06	159.3	119	8.64		
1,2;40	40			12.1	6.07.	157.6.	121	8.71		38.58
12:45	45			12.0	6.08	156.3	122	887		
Collected Sam	ple Condition		Color Colo	irles _	Odor_	oda loss		Appearance_	Clow	
Parameter			Container			No.	 	-	Preservative	
								-		
PID Reading			-							
Comments										
-		·····								
-		·····	······································	······					······································	

ARCADIS Low Flow	Groundwat	er Samplir	ng Form					Page	of
Project/No.	NY 00146	y, 0409.	50002	Well	6m-70	7工	Date	3.70	.09
Total depth (ft bmp)	180	<i>f</i>	Screen Setting	(ft bmp)	170'-	180!	Casing Diameter	r (inches)	4
Measuring Po Description	int 70	00	-	Statio Wate	r Level (ft bmp)	38.0	9		
Pump Intake (ft bmp)						1	End	2:05pn
Weather				-					
Sampled by :	- Go	my wil	/ians	-					
Date/Time	Rate (ml/min)	DTW (ft bmp)	pH (s.u.)	TEMP.	Cond.	Redox (mV)	DO (mg/L)	TURB (NTU)	Notes
12:45	(IIIVIIIII)	38.89	5,66	12.4	744	135	\$7,63	(1410)	
12:50			561	12.4	73,6	143	6,67		
12:55			5.61	12,3	73.4	144	6.42		
1:00		:							
1:002									
190			<u> </u>						
1:15					-				
(:20									
1:25						·		***	
130									
[:35									
1:40									
1545									
1:20		38.12	62	12.5	699	173	612		
		3811 L	S,53 5:54	12,4	69.8	177	6.12 6.26 6.30		
2.81 2.08		32.08	5,53	125	69.7	177	630		
٠٠,١۵		20100	0,00	16.5	0 111	1-1-1-	ψ . ω		
	:								
						,			

ARCADIS Low Flow G	roundwate	er Samplir	ng Form					Page	(of /
Project/No. <u>V</u>	4001464	0409.00	<i>t</i> o	Well	6n-790	>		3-20.	-09
	<u> </u>			(ft bmp)	280'-2	901		r (inches)	4"
Measuring Point Description		TOC		Static Water	Level (ft bmp)	39	1.17		
Pump Intake (ft bmp)_			-		Sampling Time:	Begin	2:25 pm	• End	3725pm.
Weather				•					
Sampled by :	Gar	y W7///	iaus:						
Date/Time	Rate (mi/min)	DTW (ft bmp)	pH (s.u.)	TEMP. (C) (Cond. umhos or ms/cm	Redox (mV)	DO (mg/L)	TURB (NTU)	Notes
225	((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	39.17	5.44	10.7	74.3	182	704		
2:30		· · · · · · · · · · · · · · · · · · ·	5.35	129	19169.7	187	3.59		
2:35			5.35	13.0	69.6	189	3.64		
2:40			5,35	13.0	69,6	189	3.62		
2:45		37.20	5,35	1310	69,5	189	3,62		
2:50		10112	5.35	12.0	69,0	190	3,70		
2:55			5.36	129	68,9	192	3.78		
3100			536	13,0	68,7	192_	380		
3:05		39.19	537	12.8	68,6	195	3.99		
	<u>,</u>	1-2 11 L	5.57	12.9	680	198	5.06		
3110			5.37	12.9	68,1	199	5.37		
	· · · · · · · · · · · · · · · · · · ·		5.38	12.5	68.1	199	4.96		
31,20 31,25			538	12.9	68,0	200	4.93		
			12.00	1=-1	000		14.00		·
2(30)									
3/21		-							
-0,90			 						
			1				- 		
			-				<u> </u>		
			1					-	1
			 					1	
			<u> </u>			<u> </u>		-	
			ļ					 	

ARCADIS Infrastructure, environment, facilities

	Bethpage NY	_ Project No /	Date	1/2.040	29/09	
Site Location Well No. MW-16	· ~ *{//	o. NA	— Date Weath	or	~ 11.1	
vveirno. TO	5 1 Nephicate N	<u> </u>	VV Cati	G1		
Sampling Personnel Jilians	Rezer Sampling Ti	me: Begin_	14:28		End	1449
Purge Data		Field Paramet	ers			
Measuring Point (describe)	TOC	Color	Colorlen	cholen	colorlar	ماسان
Sounded Well Depth (ft bmp)	58	Odor	Nine	None	Mre	NON
Depth to Water (ft bmp)	42.00	Appearance	lea	los	les	loa
Depth to Packer (ft bmp)				}		
Water Column in Well (ft)	16		1	1V	2V	3V
Casing Diametert	1" (0.65)/AC	pH (s.u.)	6.91	6.83	6.70	6,44
Gallons in Well	10.04	Conductivity				'
Gallons Purged	× 3	(mS/cm) or				
Prior to Sampling	31,2	(µmhos/cm)" 291	401	302	352
Pump Intake			. d	. 11		0
Setting (ft bmp)		Temperature (°	(c) 1413	14,0	14,4	14.8
Packer Pressure (psi)						
Pumping Rate (gpm)	2	DO (mg/L)				·····
Evacuation Method	ediflowgray	ORP (mV)		,, ,	0	
Sampling Method	1.5.1/	Turbidity (NTU)	-	4.5	3,7	2,2
Purge Time Begin 1	428 End 1446	Time	1428	1434	1440	1446
•		DTW (ft bmp)				
Remarks:	0=2	+= 15	6 11	1=6		
WHITE CONTRACTOR OF THE CONTRA						
Parameter	Container	No.			Preservative	;
Sec (oc						
PID Reading Raining						
Well Casing Volu	mes					
Gal./Ft. $1^{1/4}$ " = 0.06 2" = 0.1 $1^{1/2}$ " = 0.09 $2^{-1/2}$ " = 6		4"=0.65				
$1^{1/2n} = 0.09 2-\frac{1}{2}" = 0$	0.26 3-1/2" = 0.50	6" = 1.47				,



Project	STUMMEN OUZ	_ Project No	17/00/14	12.040-		
Site Location 51+	theore NY		_ Date _	31	29/09	
Well No. MW-	Replicate No	D. NA	Weath	er _		
Sampling Personnel William	Parcet Sampling Tir	me: Begin /	13:49		End 1	411_
Purge Data		Field Parameter				
Measuring Point (describe) Sounded Well Depth (ft bmp) Depth to Water (ft bmp)	TOC 59 41,77	Color (Odor Appearance	None None	colorlan None	Colonbia None Oppor	None len
Depth to Packer (ft bmp) Water Column in Well (ft)	17,23			1V	2V	3 V
Casing Diameter Gallons in Well	411 (0.65)	pH (s.u.) Conductivity	6.62	6.61	6.82	6.81
Gallons Purged Prior to Sampling	*3 34	(mS/em) er (mhos/cm) 1	399	404	155.6	300
Pump Intake Setting (ft bmp)		Temperature (°C	13.6	13,7	14.7	14.5
Packer Pressure (psi) Pumping Rate (gpm) Evacuation Method Sampling Method Purge Time Begin	2 3 Well Volume Red flow pump n 1349 End 1407	DO (mg/L) ORP (mV) Turbidity (NTU) Time DTW (ft bmp)	- - 50 1349	- 17 1355	9.9	5,2 1407
Remarks:	Q=2	+=17		s=6	1	
Parameter Succoc	Container	No.			Preservative	,
PID Reading Rain	rg—			•		
-	Volumes = 0.16	4" = 0.65 6" = 1.47				



Project NO.87HOP-1		Project No	MY 00	1464.041	09-0000	
Site Location BINH	AGE		¹Date	2-24-0	9	
Well No.	MU-04 Replica	ite No	Weath	er		
Sampling Personnel Gary	William Sampli	ng Time: Begin	6:33 p	m	End	6:05 px
Purge Data		Field Paramete	ers			
Measuring Point (describe) Sounded Well Depth (ft bmp) Depth to Water (ft bmp) Depth to Packer (ft bmp)	70C 565 4136	Color Odor Appearance		mas clear.	3	
Water Column in Well (ft) Casing Diameter Gallons in Well Gallons Purged Prior to Sampling	15.14 7.(0.16) 2.42 7.5	pH (s.u.) Conductivity (mS/cm) or (µmhos/cm)	6.A 1.1439	1V 6.23	2V 6.11	3V 6.14
Pump Intake Setting (ft bmp) Packer Pressure (psi)		Temperature (°C	D3	12.1	12.1	
Pumping Rate (gpm) Evacuation Method Sampling Method	Q=1 T=7.5 N	DO (mg/L) ORP (mV) Turbidity (NTU)		14_	1.3	.75
Purge Time Begii	n 1:53 pmEnd 6:00	DTW (ft bmp)	5:53	555,5	558	#605
Remarks:					The second secon	
Parameter See Coc	Container	No.			Preservativ	
PID Reading		·				
* 10	Volumes = 0.16	4" = 0.65 6" = 1.47				



Project NORTHROP. GRU	MMAN	Project No∧	1400 R	164.0409	, DOWL	
Site Location RETHERE	ENY		_ Date	2-24-	89	
Well No. PT MW -C	S Replicate N	0	Weath	ner	CLEAR	<u>35°</u>
Sampling Personnel 60 X	Sampling Ti	me: Begin <u>4</u>	105	-	End	4:55
Purge Data		Field Parameters	s			
Measuring Point (describe)	70C	Color		Color	les	
Sounded Well Depth (ft bmp)	<u>53.00</u>	Odor		none		
Depth to Water (ft bmp)	42.05	Appearance -		clea	·	
Depth to Packer (ft bmp)						
Water Column in Well (ft)	15,93		1	10	2V	3V
Casing Diameter 2	1(0.1b)	pH (s.u.)	5.98	6.15	6.17	6,16
Gallons in Well	7.52	Conductivity		}		<u> </u>
Gallons Purged	× 5	(mS/em) or		1.00	1111	
Prior to Sampling	7.50	(µmhos/cm) 1)	1141	1159	114.8	15.0
Pump Intake			20.0		1,27	
Setting (ft bmp)		Temperature (°C)	13.4	13.9	3.1	13.2
Packer Pressure (psi)						
Pumping Rate (gpm)	1=56Pn 10=5	DO (mg/L)				
Evacuation Method		ORP (mV)			1	
Sampling Method		Turbidity (NTU)	22	12	410	2.1
Purge Time Begin 4	15 End 450	Time	4.26	4:31	4:36	4:41 4:4
		DTW (ft bmp)				
Remarks:						
Parameter See COC	Container	No.		•	Preservativ	'e
PID Reading						
Well Casing Volum Gal./Ft. $1^{1/4}$ = 0.06 2" = 0.16 $1^{1/2}$ = 0.09 2-½" = 0.	$3^{\text{H}} = 0.37$	4" = 0.65 6" = 1.47				

	j		- 1	
Page		of	}	



Project NOCTHROP- COR	UMMAW	Project No. N	4001APADADO				
Site Location BETHADE	NY		Date 2-24-09				
Well No. PTIMW-C	Replicate No						
Sampling Personn <u>el Gray Vil</u>	lian Sampling Ti	me: Begin	fin pm	End	5:30 pm		
Purge Data		Field Parameter	rs				
Measuring Point (describe) Sounded Well Depth (ft bmp) Depth to Water (ft bmp)	62.00 42.16	Color Odor Appearance	COLORUES! NONE CLUAN	5			
Depth to Packer (ft bmp) Water Column in Well (ft) Casing Diameter Gallons in Well Gallons Purged	9.84 [.57 [.57]	pH (s.u.) Conductivity (mS/cm) or (µmhos/cm)	399 599 1119 113:	2v 7 5.97 8 1126	3V (0,00		
Prior to Sampling Pump Intake Setting (ft bmp)	1111	(µmnos/cm) Temperature (°C			12.4		
Packer Pressure (psi) Pumping Rate (gpm) Evacuation Method Sampling Method Purse Time	=,569mT=30 V=16	DO (mg/L) ORP (mV) Turbidity (NTU)	>200 250 500 510		7,0 5:30		
Purge Time Begin		DTW (ft bmp)					
Parameter See ØC	Container	No.		Preservati	ve .		
PID Reading							
Well Casing Vo Gal./Ft. $1^{1/4\pi} = 0.06$ $2^{\pi} = 0$ $1^{1/2\pi} = 0.09$ $2-\frac{1}{2}^{\pi} = 0$		4" = 0.65 6" = 1.47					

ARCADIS Infrastructure, environment, facilities

Duntant	•	NGC									
Project Number Nov 1464, 0409, www 2		Site Location Bethpage, HT Well ID HN-24 I. Sampled By Gary Williams / Swing Xue									
Project Numbe Date	100		Sampled By Gary Williams / Sunny Xie								
		16:09		Recorded By	Sh	nny Xu					
Weather					Coded Replicate No.						
11 Caure	•				•						
Instrument Ide	ntification	·									
Water Quality I	Meter(s)					_ Serial#				··········	
Casing Materia	ıt			Purge	Method	_					
Casing Diamet	er	<u>u''</u>		Screen Interval (ft bn		p) Top_	148		Bottom	18	
Sounded Dept	h (ft bmp)		53.04		Pump Intake Depth (fi Purge Time		15:24		Finish 16=09		
Depth to Water	(ft bmp)	53.0									
			,	Field Paramete	r Measurement	s During Purging	3			I	
	Minutes	Flow Rate	Volume	Temp	pH	Conductivity (umhos or	ORP	DO	Turbidity	Depth to Water	
Time	Elasped	(m∐min)	Purged	(°C)	(s.u.)	mS/cm) 1)	(mV)	(mg/L)	(NTU)	(ft bmp)	
15:24	D	500.		12.5	5.89.	137.4	153	76.0		53.04.	
15:29	+			11.5	6.77	146.2.	120	69.0			
15:34	10			11.4	5.76	143.4	126	67.0		52.81	
15:39	15			115	5.68	141.2.	135	66,0			
15:44	70			11.5	5.68	140.7	13 W	65.7		\$2.81	
15:49	25			11.4	1.68	140.4	130	65,5			
	30			11,4	5.68	140.1	129	65.8		52,83	
15:54 15:54				11.9	5.68	139.9	132	65.8			
15:59	35			 	7	139.7	130	65,6		1-2.83	
16:04	ψo	-		11.8	1.70					3 - 607	
16:09.	45			12.1	2.68	139.9	137	65.4			
<u>'</u>		<u> </u>									
								<u> </u>	·		
			1								
	l. 0		Color Col	orlow	Odor	odortes	<u> </u>	Appearance	c lear	•	
Collected Sam	pie Condition	l	Container		0401_	No.			Preservative	•	
Parameter See	000		Container								
					-		·			····	
		****			•••				<u></u>		
PID Reading			-							a ,	
Comments											
											
								, ,			



Project NORTHROF-6R	UMMAN_	<u></u>	Project No.						
Site Location BATHA	HOK NY		Date 2-23-09						
Well No. thu 40	<u>8</u>	Replicate No		Weath	er				
Sampling Personnel 6W	iyb	Sampling Tir	ne: Begin	3:07p/	<u> </u>	End	3:31 pm		
Purge Data	•		Field Parameter	s		,			
Measuring Point (describe)			Color		Colori	les	 		
Sounded Well Depth (ft bmp)	59.00		Odor		none				
Depth to Water (ft bmp)	46.13	·····	Appearance		r lo a	٠			
Depth to Packer (ft bmp)			•						
Water Column in Well (ft)	12.87			1	<u>1V</u>	2V	3V		
Casing Diameter	4/0,65	\supset	pH (s.u.)	5:41	5,46	5,52	5,40		
Gallons in Well	<u> </u>		Conductivity						
Gallons Purged	× 3		(mS/em) or		> 2 2	100	, , , , , , ,		
Prior to Sampling	25 GA	<u>r</u>	(µmhos/cm) 1	14115	123.8	117,8	11115		
Pump Intake				120	13.E	13:7	11/0		
Setting (ft bmp)			Temperature (°C) <u>いい</u>	15,10	19,1	MIC		
Packer Pressure (psi)									
Pumping Rate (gpm)	21T=251	<u>U=8</u>	DO (mg/L)						
Evacuation Method			ORP (mV)						
Sampling Method			Turbidity (NTU)	2			2.5		
Purge Time Begin	3:07 pm Enc	13:31 pm	Time	3107	3:15	3,23	33		
			DTW (ft bmp)		<u></u>				
Remarks:									
Parameter	Cor	ntainer	No.			Preservativ	e		
	· ———								
PID Reading			-						
***	0.16 3"	= 0.37 ." = 0.50	4" = 0.65 6" = 1.47				`		



Project	NGC		.,,						HN-	40 I	
Project Number Date	imber <u>Bethpage</u> , N 123-09			Site Location A1 Y00 1464, 0 40 9, 0 00 0 2 Well ID AW IT2 Sampled By Recorded By X: X:							
Sampling Time				Recorded By		Y. X.	· /	····			
Weather		10-70		Coded Replicate No.							
Instrument iden Water Quality M						Serial #					
				Puras	Method	•					
Casing Material Casing Diamete		41)	- Screen Interval (ft bmp)		- р) Тор	108		Bottom 118.		
Sounded Depth			Pump		mp Intake Depth (ft bmp)				•		
Depth to Water		45.			Time	me Start		<u>-0</u>	Finish 16335.		
				Field Parameter	Measurement	s During Purging	<u> </u>	,		4	
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or) mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	
15:50	0	500		11.6	7.22	149.8	150	8.67		45.92	
rits	5			12.1	6.46	148.7	160	9.11			
16:00	10			13.0	1.62	144.6	161	8.46		46.01	
16705	15			13.5	5.45	140.6	156	8-33			
16-10	20			13.9	5.43	137.9	ノナン	8.31		45,94	
16:15	25			14-1	5,38	135,5	162	8.17			
16:20	२०			14.3	5.36	133.6	161	8.48		45,94	
16:25	35			14.2	5.36	132.8	170	8.78		(2.1	
16:30	40			14,2	5.34	132.1	171	84.8		45.96	
16:35	45			14.3	5,35	131.3	175	8.55	·		
						:					
			1	/ /		oden (a.	· 		Clear	<u> </u>	
		Color <u>Co<i>l</i>or less</u> Container		Odor <u>Odovless</u> No.		Appearance	Preservative				
		- -						~~ ~~			
PID Reading					_	1		•••			
Comments											
-											
-						 					
				······································				·····			



Project NORPAROF - (BRIMMAN	Project No. 🔨	M 001464.04	109.00002
Site Location BINAPA	BF WY		Date <u> </u>	23-09
Well No. $\pm \sqrt{42}$	Replic	cate No	Weather	
Sampling Personnel (W X)	∑ Samp	ling Time: Begin	2:10 pm	End <u>2234</u> PM
Purge Data		Field Parameter	rs	
Measuring Point (describe)	·	Color	<u>Color l</u> none	ers
Sounded Well Depth (ft bmp)	60.00	Odor	pone	
Depth to Water (ft bmp)	4838 48.	33 Appearance	clean	
Depth to Packer (ft bmp)				
Water Column in Well (ft)	1667	167	I 1V	2V 3V
Casing Diameter	4 (0.65)	pH (s.u.)	7.42 6.21	5,78 5,55
Gallons in Well	7.67	Conductivity	"	
Gallons Purged	N 3	- Francisco	468 479	
Prior to Sampling	23.01	(µmhos/cm) ¹	468 474	458 453
Pump Intake	•			
Setting (ft bmp)		Temperature (°C	, 13.6 [4.0	14.4 13.8
Packer Pressure (psi)				
Pumping Rate (gpm) (D=1 T=23 11	DO (mg/L)		
Evacuation Method	Reactio Pump			
Sampling Method	2WV	Turbidity (NTU)		1.1.3
Purge Time Begin	210 End 213	34 Time	210 248	2:26 2:34
	•	DTW (ft bmp)		
Remarks:		· .		
Parameter	Container	No.		Preservative
PID Reading				
440	/olumes : 0.16 3" = 0.37 " = 0.26 3-½" = 0.5		98 H 000 P 100 P 1	·
<u> </u>				

ARCADIS Infrastructure, environment, facilities

Low-Flow Groundwater Sampling Log

Project Project Number Date Sampling Time Weather Instrument Identification Water Quality Meter(s) Casing Material Casing Diameter Sounded Depth (ft bmp))4 00141 Aliean - 120: 2-23-05 1 250 pm	manan s	Site Lecation Sampled By Recorded By Coded Replica Purge Screen	te No. Method Interval (ft bmp	Serial #	ow Aou)		10
Depth to Water (ft bmp)	42	H 4 1.00	Purge	Time Measurements	Start During Purging	/ : <u>/</u>	s pm	Finish	1: In pm
Time Minutes	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
Tubs PIM	400		95	12.22	instem).1)	139	7.25		47.80
140.	100		104	12,25	470	137	7.22		
1.15			10.8	12.31	426	133	7.16		47.82
1:20			4.3	12.31	403	127	7.32		
1:25			11.8.	1231	400	121	7.29		47.84.
1:30			11.9	12.30	404	120	7.22		
1:35			11.9	12.30	412	115	7.23		47.83
1:40			11.7	12.30	420	i12-	7.21		1,7 2/1
1:45			11.8	1230	439	110	7.31		47.84
1:50			11.9	12.29	442	108	1,2		
Collected Sample Condition	on	ColorColorContainer	rles	Odor_	vdorle No.	us.	Appearance_	<u>: lear.</u> Preservative	
Parameter							_		
	····			- -					
PID Reading		_							
Comments									
				-					
	<u></u>								



Project NGC	,	Project No	V Y00146	4.0409	JUN 2	
Site Location Bety	rage, Ny		Date		7-09	
Well No. <u>N-10631</u>	Replicate	No	Weath	er	Sum	/
Sampling Personnel Gory ω,	/Sumy X Sampling	√ω . Time: Begin <u>1.4</u>	lest o		ر End	1200
Purge Data		Field Parameters	;			
Measuring Point (describe)		Color		Co los nos cleas	rles	
Sounded Well Depth (ft bmp)	67.00	Odor		mrs		
Depth to Water (ft bmp)	35.95	Appearance		clear	<u>/ · </u>	
Depth to Packer (ft bmp)	41.05		•			
Water Column in Well (ft)	41.05			1V	2V	3V
Casing Diameter	2"(0.16)	pH (s.u.)	9.15	9.12	8.34	8.11
Gallons in Well	6,56	Conductivity	·	•		
Gallons Purged		(m®/em) or				
Prior to Sampling	2	(µmhos/cm)	664	188.2	114.2.	106.2
Pump Intake	•					
Setting (ft bmp)		. Temperature (°C)	14.6.	14.)	14.0.	13.9.
Packer Pressure (psi)						·
Pumping Rate (gpm)		DO (mg/L)				<u> </u>
Evacuation Method		ORP (mV)				
Sampling Method		Turbidity (NTU)				8.2.
Purge Time Begin	End	Time				
		DTW (ft bmp)				
Damaarka						
Remarks:						

Parameter See COC	Container	No.			Preservative	>
PID Reading						
Well Casing Vo Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0 1 ^{1/2} " = 0.09 2-½"		4" = 0.65 6" = 1.47				
_ /						

Low-Flow Groundwater Sampling Log

Project Nur Date: Sampling T Weather: Instrumen Water Qua Purging Ir Casing Ma Casing Dia Sounded D Depth to V	ime: It Identifi Ility Meter Information Iterial: meter: Iterial: Iterial:	03-1 13 C(00 cation (s):	by. 04 7-09 :37 ~-		Sample Record Coded		Sunda (ft bmp):	Serial #:	90	N-10 nny Xu Bottom Finish:	
Field Para	meter Me	easureme	ents Taker	During F	urging			· · · · · · · · · · · · · · · · · · ·		, , , , , , , , , , , , , , , , , , , ,	
Time	Minutes	Rate	Volume	Temp	рН	Spec. Cond.	ORP	00	· Turbidity	Depth to Water	
	Elapsed	(mL/min)	Purged	(°C)	(SI Units)	unhos/cm	(mV)	(mg/L)	(NTU)	(ft bmp)	Comments
12:35				12.4	8,57	86.5.	120	4.25		31.15	
12:40	-			13,1	19.79	90.2	114	2.31			
12745	10			13.5	10.10.	96.2	116.	1.62		31.52.	
12250	15			14.0	10:26	102.0	99.	1.29			
12:65	مر			14.2	10.42	111.4.	65.	1,12		31.72.	
13200	25			14,2	10.49	119.8.	21.	1.09			
13205	30			143	10,49	126.9	-25	1.09		31.85.	
13210	र्नेट			14.4	10,50	132.3	-38	1.11			
13215	40			144	1.0.52		~ (n	1.13		31.87	
13:20	44			14.4	10,52	1383	-60	117			
13:75	. 50			146	10.52		-66	1,21		31.90	
13230	Fi			14.7.	10,52	140,0	79	1.15	,		
13:35.	bo	-		14.7.	19.53	. 140.8.	-81-	1.2/		31.90	
1912					1					,	
	·····								Ţ		
Sample Co	ollection	I	Color:	Colore		Odor:	none	Appeara	ince:	c lear.	Preservative:
Parameter:	Co Po	<i>r</i> .	ن	Container	•			110.			
	See Co	<u> </u>					-			_	
				· · · · · · · · · · · · · · · · · · ·			•			~ 	
· · · · · · · · · · · · · · · · · · ·							•				
PID Readin	9										
Comments	5				·		······				

Yes No N/A Yes No N/A Total Seal Intact? Ч Seal Intact? ٣ Total No. of Bottles/ Containers Page Remarks CHAIN-OF-CUSTODY RECORD を/<u></u>09_{Time} _ Time Time ANALYSIS / METHOD / SIZE □ Lab)Cour Date Date_ Date_ Date_ to Ailline Reind Laboratory Task Order No./P.O. No. Grummが **文**Common Carrier <u>ドピ</u> Organization: 🗕 **%** Organization: M S Organization:. ω ω Organization: M * Moure use this sample as a god/ac Lab ID Project Number/Name N/001/92,0469 . 60602 ı Air 紀山 Date/Time Sampled 1449 313018 3/29/09 量う 1 3/28/09 Solid; ☐ In Person Laboratory Columbia Andifical Project Location BAHDASS.M. II Matrix = Liquid; Special Instructions/Remarks:__ **G** ARCADIS 780328-29-09 709-75 Sample ID/Location Delivery Method: MW-2 GF TB 033009 S12-45 Project Manager__ アジー・ログ たのカシードり FB 032909 CM-34D Relinquished by: Relinquished by: Wade water Received by: _ Sample Matrix: Received by:

Total Yes No N/A Yes No N/A Seal Intact? Seal Intact? 4 Total No. of Bottles/ Containers Same 6 + 100 1300 Single than 1434 CHAIN-OF-CUSTODY RECORD Page Remarks Time - 17:5 3/31/09 Time 17:3 Time_ IIme Date 差 // = 1 (으) ANALYSIS / METHOD / SIZE -□ Lab Courier Date∟ Date_ Date_ Project Number/Name Schloge Teke Aited SPECIEY □Common Carrier_ 6 H H Organization: Organization: _ Organization:∟ Organization: Lab ID = <u>A</u> Date/Time Sampled 13 ey Statled ∢ 3/30/00 Prezonti S = Solid;Delivery Method: Am Person Matrix Project Location Schoor S. Chillian L = Liquid;Special Instructions/Remarks: Sampler(s)/Affiliation_ Sample ID/Location プロドーサウ とつのカーズ) A COLUMN 046-HD Relinquished by:. Relinquished by: Project Manager Laboratony 👔 Received by: Received by: __ Sample Matrix:

Yes No N/A Yes No N/A Total Seal Intact? Seal Intact? 77.3 Total No. of Bottles/ Containers Laboratory Task Order No./P.O. No. No. CHAIN-OF-CUSTODY RECORD Page _ Remarks □Qther_ _**09** ∏me__ Time Time × ANALYSIS / METHOD / SIZE 🗆 Lab Courier Date _ Date. Date. Date Kant to Meliss Reind 🗗 তৈলালon Carrier 🗾 M Organization: __ M (\mathcal{N}) Organization:-Organization: Organization: Project Number/Name Most 43.0409.0002 S = Solid; A = Air300 1513 Date/Time 3/3/169 Sampled Vazocki Laboratory Columbia Archit Project Manager Save Stern Project Location Brthose M □ In Person Matrix L = Liquid; Special Instructions/Remarks: A ARCADIS Sample ID/Location Sampler(s)/Affiliation Delivery Method: T.B033109 られーチロユ Re0033109 2M-187 Relinquished by: Relinquished by: Sample Matrix: Received by: __ Received by:-

ARCADIS

Laboratory Task Order No./P.O. No. MGC 014-2 CHAIN-OF-CUSTODY RECORD Page / of /

Project Number/Name / $46c$ - N $ m jcv/4\%$, who $ m k_{ m spc}$ 2.			ANAINSIS / METHIOD / SIZE		
oject Location Bethnoge . NY		1000		1	
Laboratory Columbia Andytical Services		de de la constante de la const			
Project Manager Mike Walfert		sad to			
Sampler(s)/Affiliation Patricia-Resorski / Eary William	ozk: / Ecry Willian	うながれて			
D. Sample ID/location Matrix S	Date/Time Sampled Lab ID //	10 201 10p		/. Remarks	Total
7	C.0	10			4
7		Λ.			ণ
7B033109B L	Ų	3			^
Sample Matrix: L = Liquid; S = Solid;	olid; A = Air			Total No. of Bottles	E 15
Relinquished by: Sunay Xw. Received by:	Organizati Organizati Organizati	ion: Arcael:s	Date Dust Dust	Time / 1:30	Seal Intact?
Relinguished by: Received by:	Organization: Organization:	ion: ion:	Date / /	. Time	
Special Instructions/Remarks: בין איצי אכנ	707	f to			
	-		Fa. rel		
	是一个多名的,就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个				

区Common Carrier

AG 05-12/0 Yes No N/A Yes No N/A: Seal Intact 34 Seal Intact? Total SPECIFY Total No. of Bottles/ Containers CHAIN-OF-CUSTODY RECORD Page Remarks Time 15:40 Time Time Time Lab Courier ANALYSIS / METHOD / SIZE Date 生 Date-Date. Date. Brack Laboratory Task Order No./P.O. No... ☐Common Carrier Organization: ___ Organization:-Organization: Organization: 4 Applications of the same Project Number/Name KGC NTON 1472.0439,00002 Lab ID = <u>Air</u> Sampler(s)/Affiliation (Cand Dilliam 6-1-7 ⋖ Date/Time Sampled S = Solid;120/tex ☐ In Person Matrix Project Location Barlyage, ۵ L = Liquid;Relinquished by: 스크네마닉 Project Manager $\mathscr{M}^{arkpsi}\mathcal{K}^{oldsymbol{arksigma}}$ Laboratory Columbio Special Instructions/Remarks:.. **A** ARCADIS Delivery Method: Sample ID/Location GM-18D ロマードー Relinquished by: TB4-1-09 Received by: -Sample Matrix: Received by: 1

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Page of		3	2	2	2	3	<u>r</u>	3	*	3		***************************************		Total No. of Bottles/	Seal Intact?	Seal Intact? Yes No N/A	
DI NECOKD	/ Remarks	V									and the second s			Total No	109 Time 600	/Time/	18
ANALYSIS / METHOD / SIZE																Date/	137
Carried States	808														MICHOES		557 B
WHY COOK	SA / Glabal		3				8	77	*	-W				= Air	Organization: Corganization: Corgani	Organization:	USE THES SAMPLE
到山村	Date/Time Matrix Sampled		2-17-6	1 2-17-09	Jo21-2					? }				S = Solid; A	(1)K		
Project Number/Name NUDO Project Location BETH PA/O Laboratory OLUM BETH PA/O Project Manager DECKE M Sampler(S)/Affiliation G.W.	Sample ID/Location	1.	이다.	1.18-09	エルールラ	6r-74D	Sm-74 D-2	73 0-2	735	REP-7-18-09			2.0	Sample Matrix: L = L Q uid;	Relinquished by: At Received by:	Relinduished by:	ons/Remai

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CHAIN-OF-CUSTODY RECORD Page / of Z

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		25		% (%)	·/ ` \					Total
			3		<u> </u>					
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S	Y X Report well 17 Y X X Y X X Y X X Y X X Y X X Y X X Y X X Y X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y X X X Y Y X X Y Y X X X Y Y X X X Y Y X	五	ک	>	×		×		
S Y X X	Y X X Y X X Y X X Y X Total No. of Bottles/Containers Containers Containers Containers Seal In Time Yes No Time Yes No Time Yes No AS You Alsward W Work Yes Work	7 8 9 9 8 6 6	35.	m	۶		×		Report well	
3	X X X Y X X Y X Exercises Y X Total No. of Bottless Containers Containers Containers Containers Containers Seal In Time Yes No Time Yes No AS You Missing Marks Mile For TWE Client, THM Are AS You Missing Marks Mile For TWE Client, THM Are		ક	Ø	·	<u> </u>		×		
3 4 X X Total No. of B Air Configuration: Date Ime Configuration: Date Ime Configuration: Date Ime Configuration: Date Ime Configuration: Configu	Y X X		7	m	ኦ	, X	x			
Air X X Total No. of B Air Date Ime Ime Organization: Date Ime Ime Organization: Date Ime Ime Organization: Date Ime Ime	y y	y y Total No. of Bottles/ Containers	25	w	*	*	× ×			
Air Organization: Organization: Organization: Date Ime Cont Total No. of Bottless Containers Language Date 1 Time Seal In Seal In Date 1 Time Seal	Total No. of Bottles/ Containers	82	~	>	, t					
Date / Time — Date / Time	Date	Seal Interpretation Date / Time Seal Interpretation Date / Tim	ا الا = Air							sottles/ $arphi$
Date / / Time — — — — — — — — — — — — — — — — — — —	Date Time Yes No	Date	Organ	iization:	7		Date	7 7	Time	Seal Intact?
	Date 1 Time Seal In Seal In Time Yes No THE CHELL, THE ARE 1	Seal Interpretation of the Seal Interpretation o	Organ	iization:			Date		Time	Yes No. N/A
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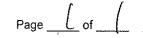
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Project N-Gru	mmax OU2	Project No	N00140	12,0409.	0000 2	
Site Location Bett	rpage NY		Date		9/09	
		No. NA	Wea	ıther	les-	- Tost
, fals	10					
Sampling Personnel William	SI Prezont Sampling	Time: Begin			End	1301
Purge Data		Field Parameter	's	Î	1	
Measuring Point (describe)	TOC		don	Colordon	Colerlan	Colorlan
Sounded Well Depth (ft bmp)	241	Odor I	why	None	wire	Worke
Depth to Water (ft bmp)	27,22	Appearance	low	des	Son	clen
Depth to Packer (ft bmp)	169		-			
Water Column in Well (ft)	72			10	2V	3V
Casing Diameter	4" (0.65)	pH (s.u.)	5,75	5.30	5.13	5.05
Gallons in Well	46.8	Conductivity				
Gallons Purged	x 3	(mS/cm) or	term.	-		
Prior to Sampling	140	(µmhos/cm) 1)	473	123.3	110.6	106.1
Pump Intake						
Setting (ft bmp)		Temperature (°C)	15.8	12.8	12.8	12,7
Packer Pressure (psi)	111					
Pumping Rate (gpm)		DO (mg/L)	_			
Evacuation Method	redicated submersible pu	10 ORP (mV)	 -	-		
Sampling Method	3WV 6	che Turbidity (NTU)	<u></u>			26
Purge Time Begin	12:40 End	Time	12:40	12:47	12:53	
		DTW (ft bmp)	<u> </u>			
Remarks: 169 -	07WX,43+50 = P	CT				
tonano.	0 14X1[5730 -13					
						
Parameter	Container	No.			Preservative	
See coc	-					
				_ _		
PID Reading Opport	wellhed					
. 1.03	olumes 0.16 3" = 0.37 ' = 0.26 3-½" = 0.50	4"= 0.65 6" = 1.47		·····		
2-/2	- 0.20	0 - 1.4/			· · · · · · · · · · · · · · · · · · ·	





Project N-Grunn	a ouz	Project No	1/0014	92,0409	100002	-
Site Location	Bethpage, NY		_ Date	1	19/09	
Well No. BPOL		No. NA	Weath	ner •	lean	noif
Sampling Personnel Williams	1 Prezorski Sampling	Time: Begin		··	End	1456
Purge Data		Field Parameters	s)			
Measuring Point (describe)	TOC	Color Ću	Lodess	ruloders	colorless	Worles
Sounded Well Depth (ft bmp)	335	Odor	Norse	None	NONE	Nore
Depth to Water (ft bmp)	29.38	Appearance	cha	class	lon	cle
Depth to Packer (ft bmp)	294					
Water Column in Well (ft)	41			1V	2V	3V
Casing Diameter	4" (0.65)	pH (s.u.)	5.67	5.66	5.28	5.00
Gallons in Well	26.65	Conductivity				
Gallons Purged	X 3	(mS/cm) or				
Prior to Sampling	<u>80.0</u>	(µmhos/cm) 1)	57.9	65.7	64.9	65.0
Pump Intake						
Setting (ft bmp)		Temperature (°C)	16.3	13.5	11.8	11,3
Packer Pressure (psi)	165					
Pumping Rate (gpm)		DO (mg/L)				
Evacuation Method	nedscated submaritlying	PARP (mV)				•
Sampling Method	3WV '.	Turbidity (NTU)				25 @
Purge Time Begin_	1442_ End	Time				
		DTW (ft bmp)				
Remarks: 294-	DTWX,43+50=	SCT				
remarks.	VIW X17150=	<u> </u>				
WERENING TO THE PERSON OF THE						
Parameter Sec (6C	Container	No.			Preservative)
PID Reading Opportun	llhad			•		
Well Casing Vol Gal./Ft. $1^{1/4_{tt}} = 0.06$ $2" = 0$ $1^{1/2_{tt}} = 0.09$ $2-\frac{1}{2}$		4" = 0.65 6" = 1.47		1		



Project N-GA	mma UVZ	Project No.	1/0014	92,040	7.00002	· · · · · · · · · · · · · · · · · · ·
Site Location Bethon	ce NY	,	Date	5-	-19-09	,
Well No. BPOW	Replicate No	.ns/nsD	Weathe	er	class =	102F
Sampling Personnel Williams	Prezosti Sampling Tir	ne: Begin			End	1637
Purge Data		Field Parameters			1	
Measuring Point (describe)	TUC	Color Cular	lon	Colorlan	Colordon	colordos
Sounded Well Depth (ft bmp)	419		ne	my	Nme	Nor
Depth to Water (ft bmp)	29.70	Appearance C	by	clen	On	O-
Depth to Packer (ft bmp)	344		}			<u> </u>
Water Column in Well (ft)	<u> </u>		1	1V	2V	3V
Casing Diameter	4" (0.65)	рН (s.u.)	, 43	4,38	4.40	4,37
Gallons in Well	48,75	Conductivity				
Gallons Purged	火 3	(mS/cm) or _	-			
Prior to Sampling	146,25	(µmhos/cm) 1)	82.1	lo4./	91,3	87.3
Pump Intake						
Setting (ft bmp)		Temperature (°C)	14.8	12.1	11.3	12.6
Packer Pressure (psi)	185			·		
Pumping Rate (gpm)		DO (mg/L)				
Evacuation Method 0x	ed trated submersible	ORP (mV)				
Sampling Method	344.	Turbidity (NTU)				27
Purge Time Begin	(60) End	Time				
		DTW (ft bmp)				
344	4110 154-	· · · · · · · · · · · · · · · · · · ·				
Remarks: 444 0 TW	x.43 +50 - ps					
W/////////////////////////////////////	Mrss	72 44" place				
Parameter Sec COC	Container	No			Preservative	

PID Reading Opportu	ilbed					
Well Casing Volur Gal./Ft. $1^{1/4}$ " = 0.06 2" = 0.1 $1^{1/2}$ " = 0.09 2^{-1} /2" = 0	6 3" = 0.37	4" = 0.65 6" = 1.47				
Z=/2 - (7.20 U-72 - U.UU	V = 1.47				



Project Northwop	Grunham	_ Project No. <u>ا محماً ا</u>	492.04	9-00w 2	٧
Site Location Bet	hpoce NY	Date	e (~~~	s'- 29	
Well No. BPOW	Replicate N	o <i>\tag{\frac{1}{4}}</i> Wea	ather	Sunny	80°F
Sampling Personnel Put frez	NSK; / Sunny Yu Sampling Ti	ime: Begin 1724	<i>d</i>	End	
Purge Data		Field Parameters			
Measuring Point (describe)	Toc	Color Colorles	Colodon	Colorles	colole
Sounded Well Depth (ft bmp)	516	Odor mild	Mild	11/10	mild
Depth to Water (ft bmp)	25.28	Appearance Clear	obs	clear	clea
Depth to Packer (ft bmp)	414				
Water Column in Well (ft)	102		10	2V	3V
Casing Diameter	4" (0.65)	pH (s.u.) 440	4.07	4.08	4.07
Gallons in Well	66,3	Conductivity			,
Gallons Purged	×3	(mS/cm) o r			
Prior to Sampling	199	(umhos/cm) \ 82.7	92.3	93.8	98.2
Pump Intake					
Setting (ft bmp)		Temperature (°C) / 1 4	13.9	12,2	12.Z
Packer Pressure (psi)	220	•			
Pumping Rate (gpm)	3 well volume	DO (mg/L)			
Evacuation Method nedig	ested so benerith purpleret	ORP (mV)			
Sampling Method	3 Well volume	Turbidity (NTU)			
Purge Time Begin	1744 End 1820	Time	Ø.		18:20
	. (DTW (ft bmp)			······································
Remarks:	1-25.28 × 43+	50 - 220 fourdedyp			
	Myssing	wellhead No co	wheation		
.,	Caraneth every	67pl			
Parameter (oc	Container	No.		Preservative	
PID Reading Opport					
Well Casing Vo Gal./Ft. $1^{1/4}$ " = 0.06 2" = 0 $1^{1/2}$ " = 0.09 2-½"		4" = 0.65 6" = 1.47			



Project Horthup.	Grumman. OU-	2 · Project No. N 6	01492.0409.	0000 5		
Site Location Beth			Date 5/2	0109		
Well No. BPOW	3-2 Replicate No	o. <u>W/A</u>	Weather	ESF C	len	
Sampling Personnel Prezdra		. ,		End		
Purge Data		Field Parameters)		
Measuring Point (describe)	Tuc	Color Gold	des Colorbus)	
Sounded Well Depth (ft bmp)	647	Odor <u>~</u>	The none)	
Depth to Water (ft bmp)	26.79	Appearance	rav clear		}	
Depth to Packer (ft bmp)	503	~~				
Water Column in Well (ft)	144		ı \ 1V	2V \	3V	
Casing Diameter	4.4(0.65)	pH (s.u.)	KT 883	4.83	4,80	
Gallons in Well	\$3.6	Conductivity				
Gallons Purged	'×3	(mS/cm) o r				
Prior to Sampling	280.	(µmhos/cm) 1)	6.1 (6.7	92-5	61.8	
Pump Intake		•	* /			
Setting (ft bmp)		Temperature (°C)/	5.4 rex	, K Y	14.3	
Packer Pressure (psi)	255	····•,··	,			
Pumping Rate (gpm)		DO (mg/L)				
Evacuation Method	3 Wall Volume	ORP (mV)				
Sampling Method Ded	rafed Submer 66 /pac	Turbidity (NTU)			12	
Purge Time Begin	مأرمد بست	Time /	21 15:38	15:50	16246	
	-	DTW (ft bmp)				
Remarks: 65	503-26.79)x.	43+50= 2	55 psi			
.	Every 94gd =	porando		·····		
Parameter See CoC	Container	No.		Preservative	!	
PID Reading Open twellhand						
4.51	0.16 3" = 0.37 ' = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				
						

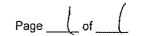


Project Northwop Gra	pman	Project No. 🔥	1/00 149	2.0409.	٥~ ك	
Site Location Bethrage	- MY		Date _		1-09	
Well No. DOW 4	-1 · Replicate No		Weath	∍r 	Sur	1-4 /76%
Sampling Personnel Com. W.	Mians/Swam Yn Saynpling Tin	ne: Begin	19:32		End	
Purge Data		Field Parameter	rs	,		ı
Measuring Point (describe) Sounded Well Depth (ft bmp) Depth to Water (ft bmp) Depth to Packer (ft bmp)	70 C · career 652 652 652	Color C_{ℓ} Odor Appearance	orlers me clear	Colorlus More Cleur	none clear	Colvers none Clear
Water Column in Well (ft) Casing Diameter	149 40	pH (s.u.) Conductivity (mS/cm) or (µmhos/cm) ¹ Temperature (°C	′		2V 5.17 54.5	3V S.15 48.8 14.7
Evacuation Method		ORP (mV)				
Sampling Method		Turbidity (NTU)				·
Purge Time Begin_	End	Time DTW (ft bmp)	12:35			1500
Remarks:						
Parameter See Gol.	Container	No.		 - -	Preservativ	9
PID Reading			<u></u>	_		
Well Casing Vo Gal./Ft. $1^{1/4}$ = 0.06 2" = 0 $1^{1/2}$ = 0.09 2- $\frac{1}{2}$ " =	0.16 3" = 0.37	4" = 0.65 6" = 1.47				



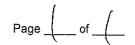
Project North	hop Grun	man ou-2 or	Project No.	. N/ 00.	1492.08	09,000	2_
Site Location	Bethe	ige, NY		Date	f-71.	-67	
Well No.	370 N 4-2	() Replicate	No	 Weat	•	Sunnij 1	(76F.
		Co. 11 M. 10.		•		/ '	
Sampling Personnel	GONNY D711;	ams/sumy Sampling	Time: Begin		_	End	
Purge Data	1		Field Param	eters			
Measuring Point (de	scribe)	70 C·	Color	Colorless	Colorley	S Colorbes	Colado
Sounded Well Depth	n (ft bmp)	764	Odor	none	none	none	mone
Depth to Water (ft bi	mp)	4999	Appearance	chai	clear	clear.	Clear
Depth to Packer (ft b	omp)	503					
Water Column in We	ell (ft)	261		1	1V	2V	3V
Casing Diameter		4" (0.65)	pH (s.u.)	440	4,30	4.41	4.36
Gallons in Well		169.65	Conductivity	1			
Gallons Purged		x 3	(m 8/cm).	or	_		-
Prior to Sa	mpling	09.	(µmhos/ci	mg" 78.6	99.5	933	85.0.
Pump Intake		1				•	
Setting (ft	bmp)		Temperature	(°C) 16 2	14.12	14.1.	13.5
Packer Pressure (ps	i)	215					
Pumping Rate (gpm)	<u> </u>		DO (mg/L)				
Evacuation Method	P-0741-0-07		ORP (mV)				
Sampling Method			Turbidity (NTI	J)			
Purge Time	Begin	End	Time	15:30	16137	17:02	17257
			DTW (ft bmp)	1 5			7
Remarks:							

Parameter		Container	No.			Preservative	}
PID Reading	, n-uara						
Gal./Ft. $1^{1/4n} = 0.06$ $1^{1/2n} = 0.09$		6 3" = 0.37	4" = 0.65 6" = 1.47				
						**************************************	·





Project N Gr	mma duz	Project No. N	1/00149:	20409.00	as 2	
Site Location	have NY		Date		22/09	
Well No. GM-7	Replicate No.	o. <u>NA</u>	Weat	her	80°F (Party cloud
Sampling Personnel Prese	orti Sampling Ti	me: Begin		_	End	1746
Purge Data		Field Parameters	s	,		
Measuring Point (describe)	Toc	Color col	whos	tolorlan	Colulero	colorlen
Sounded Well Depth (ft bmp)	105		Norte	MARI	NOW	None
Depth to Water (ft bmp)	34.63	Appearance	Clear	Clar	lan	close
Depth to Packer (ft bmp)	94					
Water Column in Well (ft)			1	10	2V	\ 3V
Casing Diameter	4" (0.65)	pH (s.u.)	11,75	11,88	11.80	11,77
Gallons in Well	7.15	Conductivity				
Gallons Purged	4 3	(mS/cm) or				
Prior to Sampling	22	(µmhos/cm) 1)	126.4	152.2	156.4	158,1
Pump Intake			-		-	
Setting (ft bmp)		Temperature (°C)	13.1	12.8	11.9	12,1
Packer Pressure (psi)	80 (Rounded up)				1.32	
Pumping Rate (gpm)	1 Liter/minute	DO (mg/L)				774
Evacuation Method	pedicated Bladdelpack	ORP (mV)				
Sampling Method	3 W Volone.	Turbidity (NTU)	***************************************			23
Purge Time Begin	100	Time / talker		1650	1716	
•		DIW (It bmp)	***************************************	1 3	3 1	1/2
Remarks: 94-	DTW X.43 +50 =p	NI_				
	94-34.63 x,4	13+50-75	7.6			·
	Proposte adjus	lo/ to 11:16	1 2 100	E Cwell	viral co	the bear
Parameter See Co.C.	Container	Rote lovered No.	grurte	sampling	Preservativ	•
		<u> </u>				
PID Reading Opp	· · · · · · · · · · · · · · · · · · ·					
Well Casing Vo Gal./Ft. 1 ^{1/4} " = 0.06 2" = 1 ^{1/2} " = 0.09 2-½"		4"=0.65 6" = 1.47				
		- 1.17				





Project N-Grans	~ or	Project No	NYOUN	192.040	9,00002	,
Site Location	Bethpace NY		Date	5	122/00	<u> </u>
Well No. 6M-	20D Replicate N	10. <u>NA</u>	Weath	Breezy	Bon F	Partly clo
Sampling Personnel ()	Sampling T	ime: Begin	1559	1	End	1603
Purge Data		Field Paramete	rs			
Measuring Point (describe)	Toc	Color W	lorles (c	oluter	Colorban	Colorlas
Sounded Well Depth (ft bmp)	226	Odor	NONO	Nove	None	None
Depth to Water (ft bmp)	36.42	Appearance	lon	lon	lan	clan
Depth to Packer (ft bmp)	215		\		1 (
Water Column in Well (ft)			1 1	1V	2V	3V
Casing Diameter	Y" (0,65)	pH (s.u.)	6.62	6.56	6.71	6.80
Gallons in Well	7,15	Conductivity				
Gallons Purged	*3	(mS/cm) or			ļ	
Prior to Sampling	22	(µmhos/cm) 1	913	89.8	74.1	71.9
Pump Intake						
Setting (ft bmp)		Temperature (°C) 14,7	14,2	143	14,5
Packer Pressure (psi)	130					
Pumping Rate (gpm) ml/minute	1450 Tatal per minute	DO (mg/L)				
Evacuation Method	Dedicated Blodder/parter	ORP (mV)				
Sampling Method	3 well volume.	Turbidity (NTU)				14
Purge Time Begir	1 <u>1435</u> End <u>\550</u>	Times 5 gd (ortalion DIW (11 bmp)		1509 1509	1524	1549
A	36.42 x.43 +50 diveted purpo rete -	to 1450 to	minute (Cuall was	partorital prints can	Bax).
Parameter See CoC	Container	No. ,	\$ =5 sla	tames	Preservative	
PID Reading Oppor	Olumes					
Gal./Ft. $1^{1/4n} = 0.06$ $2^n =$	0.16 3" = 0.37 " = 0.26 3-1/2" = 0.50	4" = 0.68 8" = 1.47				





Project NOKTHROP-GRUMMAN	Project No. 🔟	00 H93.0809	1.00002	<u>}</u>
Site Location BETAPAGE NY	<u> </u>	Date <u>5-17</u> -		
Well No. Com-21T Replic	cate No	Weather		
Sampling Personnel GW Samp	ling Time: Begin 3	00	End	4:15
Purge Data	Field Parameters			
Measuring Point (describe)	Color	COLORLESS		•
Sounded Well Depth (ft bmp)	Odor	NONE		
Depth to Water (ft bmp)	Appearance	CLANZ		
Depth to Packer (ft bmp)				
Water Column in Well (ft)		1 1V	2V	.3V
Casing Diameter (.65) x 3 - ,		3.28 6,21	6.91	6.32
Gallons in Well 22-57.7	Conductivity			
Gallons Purged	(m8/cm) or			
Prior to Sampling22	(µmhos/cm) ¹⁾ _	137D 198,7	169.5	172.5
Pump Intake				
Setting (ft bmp)	Temperature (°C) _	135 147	13.7	13.3
Packer Pressure (psi) 10 PST			-	
Pumping Rate (gpm)	DO (mg/L)			
Evacuation Method	ORP (mV)			
Sampling Method	Turbidity (NTU)			<20
Purge Time Begin End	 Time			
	DTW (ft bmp)			<u> </u>
			<u> </u>	
Remarks: SGAL PARLS				
		***************************************	····	
Parameter Container	No.		Preservativ	'e
		······································		
PID Reading				
Well Casing Volumes Sal./Ft. 1 ^{1/4} " = 0.06	4" = 0.65 6" = 1.47			

Page	of	



Project	alne	inthol-b	Palaman An	1			, ,			
Project Number	70 V	LIUGA BR	Teman Provide	ン ン Site Location			····	M/AH ID	6n-2	11
Date	. 10 to	,61493.68 17-09	<u> </u>	Sampled By		(1)		WEN ID	1046 2	/ (L.)
Sampling Time		•		Recorded By	- (3)	<u>พ</u> พ				
Weather		·	•			~~~~				
weather				Coded Replic	ate No.					
Instrument Ide	ntification			•						
Water Quality	Meter(s)					_ Serial 4	<i></i>	· 		
Casing Materia	ıl	Pu	e	Purae	Method		Lowfue	ole i		
Casing Diamet		4			n Interval (ft bm	р) Тор	Lowfu	· V	Bottom	
Sounded Depti		*	_		Intake Depth (f				,	
Depth to Water	(ft bmp)	40	,89	Purge	Time	Start			Finish .	
			•	Field Paramete	r Measurement	s Durina Purain				
	Minutes	Flow Rate	1/41	1	T	Conductivity		7.0	T 1 1.37	Depth to
Time	Elasped	(mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	(umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water
.15				1/1	501	1/7	109	6.48		(ft bmp) 40,89
115				16:1	5.21	11/15	10	(41)		40.01
120				16.b	5.50	1037	92	15.4/		ļ
1125				16.6	4.53	1045	97	5.40		
1:30				15.4	4.48	105.7	12-0	5,63		
(135				15.5	4.57	106,0	110	5,59		40.76
1-40				15.4	4100	106.0	125	5.96		100.0
1:45				149	4,77	1066	119	15.94	· ·	40.97
(1.50				140	14.22	1073		6,05		10.12
' ,					11 0	223	121			
(35				14,7	4116	10/11/	-14-	5,99		
250				141	4.85	10,12	_12 _	5.1		
2:05				14.7	4185	1075	121	5.95	<u></u>	
7:10				14,	4.83	10/16	123	6.10		4090
246				NASS	4,27	1076	123	6.15		
* · · ·				1 . 1 . 4	- <u> </u>	1011	100	V 119		
Collected Samp	le Condition		Color_COLE	zu35	Odor I	V8-10E		Appearance(~1 EXP.C	
Parameter			Container			No.			Preservative	
								 .		
	~~~~			······································				<b>-</b> .		
PID Reading	~~~		<del></del>					-		
uuumg _		.3								
Comments _						<del></del>				
•	·····									
-										
•••		· · · · · · · · · · · · · · · · · · ·	······		······					



Project		N-Ga	mmox Oc						_	
Project Number	- <u>NY</u>	X1469, 0409	. 1000 2	Site Location	<u> </u>	ethorge,	24 11-	Well ID	GM-	-33Dz
Date	**********	5/18/09		Sampled By				ans		
Sampling Time		150		Recorded By		Prezo	3E)			
Weather		udy 7	OF	Coded Replica	te No	ep 0518	09			
Instrument Ider	ntification	<i>[</i>				•				
Water Quality N	leter(s)	Sea	2 Intron	A calibrati	a for	Serial #				
Casing Materia	I		PUL	Purge l	Method		Dedica	ed Blodds	- pump/L	orplan
Casing Diamete	er	41	ı	Screen	Interval (ft bmp	p) Top	500		30ttom <u>5</u>	20
Sounded Depth	(ft bmp)		520	Pump l	ntake Depth (ft	bmp)	····			
Depth to Water	(ft bmp)	4=	7.32	Purge	Time	Start	1428		Finish	1575
			1	Field Parameter	Measurements		9	1 1		т
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (without or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1430				17.5	5.91	69,2	121	6.86		
1435				17.6	5,92	69.7	120	6.32		47,28
1440				17.6	5.93	74,9	119	6,72		
(445				17.4	5,94	70.8	121	6.17		47,33
1450				17,5	5.92	71,3	)2)	5.77	-	
1453				18.0	5.92	- 68,5	12/	6.08		
1500				18.7	5.92	75.4	122	5.64		47.37
1505				19.4	5.93	69,1	122	5.78		
1510	•			20,5	5.93	67.8	12/	6.08		47,28
1515				20,7	5.93	67.7	121	5.94		
1520				20,7	5.95	68.7	121	6.04		47.34
1525				21.3	5,99	68.80	125	5.49		
1530				20.1	5.98	70.40	124	5.88		47,29
1535				18.8	5,83	6880	128	6.16	21	
Collected Samp	le Condition		Color_ 4l	orlan	Odor_	NONE	- مو	Appearance	clea	<u> </u>
Parameter	. (00	<u>.</u>	Container			No.			Preservative	
		<del>-</del>	<del>.</del>							
PID Reading _	Оррта	- L wellhou				<del>, , , , , , , , , , , , , , , , , , , </del>		-		
Comments				***************************************						
	····									
-				<del></del>						
-										



		,	Lov	v-Flow Gro	oundwate	r Sampling	Log			
Project	No	throp	Gran	nan					GM.	-34》
Project Numb	er <u>//</u>	100/492	. 24=9.	Site Location	Bet	Lpage, N	7	Well ID	- (SA	<del>710</del> 2
Date	_5-	115-09		Sampled By	Ga	of Will	ans	Sanny	Xu	
Sampling Tim			4 0	Recorded By		Swany	Xu			····
Weather	<u>_Su</u>	nmy 1	74F	Coded Replic	ate No.	<u>'</u>	<del></del>			-
Instrument Ide	entification	, ,								
Water Quality		•				Serial #	ŧ	•		
·	. ,					_	·			
Casing Materi		.2-	ij	_	Method					
Casing Diame			······		n Interval (ft bm	•			Bottom	······································
Sounded Dept Depth to Wate	r (ft hmn)	12.2	<u> </u>	_ rump Purge	Intake Depth (fi	ւ սությ Start	· · · · · · · · · · · · · · · · · · ·		Finish	
Departo Trate	. ( <i>It Bilip)</i>		/			•		<del></del>	1111511	
	T		1	Field Parameter		Conductivity		T	T	Depth to
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	(umhos)or m6/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water (ft bmp)
11:10	Ø.	400		23.8,	6.88.	99.5	132	728		12.79
11:15	₩ <u></u>			22.6	6.97	190.8	10.2.	2.95		
11:20	10			22.3	7.15	191.7.	87	2.37		12,40
11:25	75		<u> </u>	22.8	7.34.	(8%8	69	1.96		
11:30	20			227	7.56	/88/3	dr.	1.76		12.46
11:35	25			21.9	7.74	1864	15	1.7/		
11:40	<i>?0</i>			21/2.	7,80.	1849	49	1.64		12、3字.
1(:465	78			20,6.	7.87.	183, 8-	46.	1.64		
#1:20:	40			20.4	7.93	183.5	40.	1.68.		1>40
11:55	45			>0.0.	8.02	182.0	39.	1.68		
		•								
Collected Sam	ple Condition		Color Colo	rless	Odor	none		Appearance	clear.	
Parameter See	006.		Container			No.			Preservative	
								<u> </u>		
PID Reading								_		
•			•							
Comments		····				<del></del>				
-								······································	<del></del>	
-					·					
-	<del></del>									



Project Project Numb Date	11.	-them	Auri				, 3			
Project	<u> </u>	0: 11.9	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		3°> 25	200	·F		GM-3	2 K V
Project Numb	er ۱ <u>۱۱ نځان</u> خ	11 - 24 5 1 .	K 2	Site Location	Ca	page, N	<del>'/</del> /-	Well II	D (TXX - 3	+12=
Date		17.0	<del></del>		<u>Carron</u>	- 101/10	<del>~</del> / (4	sony X-	·····	
Sampling Time		1	<i>ک</i> ار	Recorded By		21/1	Xu			
Weather	702	m / 74		Coded Replic	ate No.	_/ <u>//</u> A_	·			
Instrument Ide	ntification			•						
Water Quality	Meter(s)				···········	_ Serial #	·	•		
Casing Materia	ai			Purge	Method	monode de	oblblado	ler		
Casing Diame	ter	4	- · · · · · · · · · · · · · · · · · · ·	Scree	n Interval (ft bm	р) Тор			Bottom	
Sounded Dept	h (ft bmp)			Pump	intake Depth (f	t bmp)		in	·	
Depth to Wate	r (ft bmp)	14.0	8	Purge	Time	Start			Finish	
				Field Paramete	r Measurement	s During Purging	g			
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
A115		yw		.22,3	9,00.	156.0.	£4.	2.63		14.88
はいつ	٧	1		21.5	8.88	141,2	25	2,02.		
12:75.	10			201/	8.62	119.3	83	1.06		14,08
12:30	15			19.4	8.50.	112.5	22.	0.61		
19:32	20			19,2.	8.34.	110.0	,9	0,45		14.08.
12:40	25			18.1	8,20,	198.7.	38	0.37		
12:45	30			19.2	8.14	108,5.	.23	0.37.		14.00
12:50	35			19.3.	8. ()	108,2	ین<	0.37		
12:22	40			19.4	8.06	108.0	18	0.37.		1408
الحق 131	45			19,4	7.99	107.8	11	0.36		
					,					
							,			
						<i>,</i>				
									<u> </u>	
Collected Samp	le Condition		Color Col	orless	Odor_	1000		Appearance_	olear.	<u>.                                    </u>
Parameter Gee GO	C		Container		,	No.		_	Preservative	
			••••					_		
PID Reading					·	-				
Comments _								,		
-	<del> </del>				·····				· · · · · ·	······
***										
√úe ni	nit type									



•	Water S	ampling Log	1			
Project N4001497.0409.00	1002	Project No.	NO.274	18.2.6.20	mmqw	
Site Location BETHPAGE A	4			5-26-0		
Well No. 6M-35D-7	Replicate No	4	 Weati			
Sampling Personnel	Sampling Tir	ne: Begin	100	•	End	3:10
Purge Data		Field Parameter	s			-
Measuring Point (describe)		Color	Co	LORIBS	<b>)</b>	
Sounded Well Depth (ft bmp) 5.	30	Odor	NO.	うら		
Depth to Water (ft bmp)		Appearance	C	MAG		
Depth to Packer (ft bmp) 5	3<					
Water Column in Well (ft) 2	2		1	1V	2V	3V
Casing Diameter	(0,65)	pH (s.u.)	6.25	5.89	5.55	5.57
Gallons in Well	lis	Conductivity				
Gallons Purged	7	<del>(mS/cn)/</del> or				
Prior to Sampling	<u> </u>	(µmhos/cm) 1)	161.4	96.4	833	22.2
Pump Intake						
Setting (ft bmp)		Temperature (°C)	14.3	14.6	14,1	13.5
Packer Pressure (psi)	LSD					
Pumping Rate (gpm)		DO (mg/L)				
Evacuation Method		ORP (mV)			ļ	
Sampling Method	5 <b>V</b>	Turbidity (NTU)				
Purge Time Begin 105	_End_ <u>3:05</u>	Time				3.02
		DTW (ft bmp)		····		<u></u>
Remarks: 5GA PA  REDWILL 520-36		125-296	SE			
Parameter	Container	No.			Preservative	3
			<del></del>			<del></del>
PID Reading	_					
Well Casing Volumes  Gal./Ft. $1^{1/4}$ " = 0.06 2" = 0.16 $1^{1/2}$ " = 0.09 $2-\frac{1}{2}$ " = 0.26		4" = 0.65 6" = 1.47				



Destant	•	N-Grumm	(11/2)	-						
Project Numbe	· <u>~14</u>	001464.040		Site Location	12 Hz	cce all	<del></del>	TI IIaW	GM-	7502
Date	·	5/19/09		Sampled By	المستدرا	nage, NY h	rilliams	***************************************	· ————	, , , , , , , , , , , , , , , , , , ,
Sampling Time		135	5 (	Recorded By	<del></del> -	Prezonk		<del>, , , , , , , , , , , , , , , , , , , </del>		,
Weather	<u>Ha</u>		of	Coded Replica	ate No.	NA	<u></u>			
	•	1								
Instrument Idea										
Water Quality N	vieter(s)			net calibrat	son form	_ Serial #	<u></u>			····
Casing Materia	ı		PUL	Purge	Method			51 Blother	16out	low
Casing Diamete	er			Screer	n Interval (ft bm	р) Тор	<u> </u>		Bottom 5	25
Sounded Depth		52		_	Intake Depth (f					
Depth to Water	(ft bmp)	3^	3,29	_ Purge		Start		2 pm	Finish	3 <b>50</b>
			1	Field Parameter	Measurement	<del></del>	g ·	<del>r </del>	·	1
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (affihos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
12:45				15.0	5.61	150.	120	7,07		
12:50		-		14.6	5.31	120.6	106	5.49		33.22
12/155				14.7	5,27	1	106	5,42		
1300				14.5	5,23	103.0	109	5.46		33.12
1305	***************************************			14,2	5.18	98,3	111	6.31		
1310				14,3	5.18	93.5	114	5.53		33,25
1315				14,9	5.19	90,3	116	5,66		
1320				15.4	5.16	87.4	117	5.64		33,26
13:25				15.8	5.15	96.2	118	5.14	******	
1370	•			16.1	5.17	05.6	120	5.24	, , , , , , , , , , , , , , , , , , , ,	33.26
1335				16.1	5.18	84.4	120	5.31		
1340				15.6	5.15	83.0	121	5.81		33,24
1345				15.6	5.12	82.9	120	5.35	· ·	
1350	,,			15,7	5.17	82.5	121	5.56	23	33,25
Collected Samp	le Condition	· · · · · · · · · · · · · · · · · · ·	Color ( 8	,	Odor	Nove		Appearance (	bar	J
arameter	e coc	-	Container		· · · · · · · · · · · · · · · · · · ·	No.			Preservative	A
	<i>c</i> )	- Lucalle	. / .		•			-	۸	
PID Reading _	V Pfr	dwellh	ica							
Comments _				<u>.</u>						
_						·				
_										



Project		othrop	_\	um man	Jungwale	- Samping	ı Log			
Project Numb		(9)	9,00002	Site Location	2	offer	e 18	Mail ID	G-M-	797
Date	" / <del>' / ' /</del>	-1 (1 ~ 0 G	7.00-	Sampled By	- 12 Garage	we will	ians	Well ID /Sumy	V.	L-f- <del></del>
Sampling Tim		<del>' 7                                   </del>		Recorded By		Sunn		/ <u> </u>	<i>pu</i> .	
Weather		Touds		Coded Replic	ate No.	11/4	<i>- 2</i> - 2	<b>.</b>		
		1000				14///				
Instrument Ide	entification	. /								
Water Quality	Meter(s)					Serial a	<u></u>			
Casing Materi	al	t	NC	Purge	Method					
Casing Diame		4	17	-	n interval (ft bm	р) Тор			Bottom	
Sounded Dept	h (ft bmp)			Pump	Intake Depth (fi	t bmp)			,	
Depth to Wate	r (ft bmp)	380	, مر	Purge	Time	Start			Finish	
			i	Field Paramete	r Measurement	s During Purgin	g			
Time	Minutes	Flow Rate	Volume	Temp	рH	Conductivity (umhos or	ORP	DO	Turbidity	Depth to Water
711110	Elasped	(mL/min)	Purged	(°C)	(s.u.)	mS/cm)-1)	(mV)	(mg/L)	(NTU)	(ft bmp)
14=25		400		19.3.	5.20	113.9	148.	1,42	***************************************	38,20
14:30	5	1		18.7.	5.23	117,6	140	6,20		
14:35	10			17.4	1.29	112.5	141	6.33		38,22
14:40	15			17.0.	5.30	111.7.	140	6.50.		
14:45	<i>&gt;</i> 0<			16.7	九九	1/1.2-	140	6.38		38,22
14:50	75			16.7	1.75	111.3	140	6.42		
14:55	30			16.7	s.32.	111.3	140.	6.42		38.22
14:00	35			16.7.	5.31	111.4.	140	6.40.		
15:00	ψο			16.7.	6.31	111.2	141.	6.40		38.22.
15:10	45			16.7	5,28	110.9	141.	6.49		,
		<del></del>		'0' /	7170	1100	- / <del>Y</del> / :	VFI		
		ľ			<u></u>					
		****							<del></del>	
				<u> </u> ' /				<u> </u>		
Collected Sam	ple Condition		Color Col	oriens	Odor	ione	<u>.                                    </u>	Appearance	Clear	
Parameter	COC.		Container			No.			Preservative	
See				· · · · ·		· · · · · · · · · · · · · · · · · · ·				
					•					
PID Reading								•		
			<del>-</del>							
Comments _										
_							<del></del>			
			<del></del>							
-									<del></del>	



Destat	. 1	w1492		-۱۱0W 010 ناس کے	ananato	oupiig	209			
Project Number	<u>-/VII</u> vr. 1/-2 <i>at</i>	two co	vienm an	Site Location		ethorge	NY.	Weil ID	CM-	79°D
Date	n <u>∧ır</u> ı 1^.	111 - 12 9	74111	Site Location Sampled By				/ SUMA		
Sampling Time		- / 4	······································	Recorded By		Cultury.	Xu	<u> </u>	<del>/-:</del>	
Weather		loudy		Coded Replica		w/d				
**Cauto		10007		00000110		14/11				
Instrument Ide	ntification			·						
Water Quality I	Meter(s)					Serial#		••		·····
Casing Materia	al .	PVO	da Maria	Purae	Method		Dedicat	ed bla	deler.	
Casing Diamet		- PVO	1	-	Interval (ft bm)	p) Top		ed bla	Bottom	
Sounded Dept				- Pumpi	Intake Depth (ft					
Depth to Water	(ft bmp)	39,12		- Purge	Time	Start			Finish	
		/		- Field Parameter	Measurements	During Purging	3			
	Minutes	Flow Rate	Volume	Temp	рН	Conductivity (umhos or	ORP	DO	Turbidity	Depth to Water
Time	Elasped	(mL/min)	Purged	(°C)	(s.u.)	hiStran)-1)	(mV)	(mg/L)	(NTU)	(ft bmp)
1307		400		19.4.	6.22	136.5	કુરુ	7.61		39,5-2
13:22.	5			19.3	5.82	13000.	92.	6.45.		
131.27	10			19.2	5.22	125.2	123	4.30		39.57
13:32	/ᠸ			19.0	641	123.1	106	3.65		
13:37	<i>ک</i> ے			18.9	1:32	121.8	113	3.73		39,52
13:42	X,			18.8.	5.26	121.0	/≥/.	3.87		
13:47	30			18.8.	1,22	120.0	124	409		39.52
13:52	35			18.6	1,20	118.7	126	4,21		,
13:57	-60			18.4	C.18.	117.2	129	4.33		39,12
14:02	45			18,4	5.15	113.9	131	4.41		
14:07	50			18.3	5.11	15.8.	124	头切		39.5-2
14:12	17			18,2.	5,15	115,6	134	4.t0		
14:17	60			18,2	1.14	115.4	136	4.49		39.5-2
				,					- <i>C</i> s	
Collected Sam	ple Condition		Color_ Colon	text	Odor_	nove		Appearance	clear.	
Parameter Cee	000		Container		_	No.		_	Preservative	
		-			-			-		
DID Pandina		=			-		<u>-</u>	_		
PID Reading			-							
Comments						*****				
						·····				
						<del> </del>				

Total Yes No N/A Yes No N/A Seal Intact? Seal Intact? 11 Total No. of Bottles/ Containers SPF CHAIN-OF-CUSTODY RECORD Page. Remarks □Other - Time Time. Time Time. ANALYSIS / METHOD / SIZE 0/3/1 ☐ Lab Courier Date _ate_ Date_ Date- $\mathcal{L}_{X}$ ゴアイルの Laboratory Task Order No./P.O. No. 幺 Common Carrier∟ ") "C17 Z25 //\ 4 Organization:_ M Organization:. Organization: 12 16 1 Chara Organization: Lab ID = Air 50-75/ _) Date/Time Sampled ⋖ Sampler(s)/Affiliation *【かがくし)/* こうから S = Solid;☐ In Person Matrix Project Location ニンピナパーがい Project Number/Name 🗀 🗀 🖒 Project Manager Laboratory L = Liquid;Special Instructions/Remarks: - A ARCADIS Sample ID/Location Delivery Method: けっかいこうのと ログーンジ 行をこってい Relinquished by: Relinquished by: Sample Matrix: Received by: Received by:

The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

Yes No N/A Yes No N/A Seal Intact? Total Seal Intact? W 1 Total No. of Bottles/ Containers CHAIN-OF-CUSTODY RECORD Page Remarks □Other Time Time Time なった。 ANALYSIS / METHOD / SIZE 🗆 Lab Gourier Date_ Date_ Date. Date. 04-2 Six and son Laboratory Task Order No./P.O. No. 🖈 Common Carrier 📑 Organization: - Axcedis M Organization: 1 3 N Organization: Organization: Project Number/Name  $KG\subset N$   $N^{2}M^{2}$  of  $S^{2}_{DM^{2}}$ Lab ID that situal sources = Air Date/Time Sampled 20 10 4 Sampler(s)/Affiliation GWrs 1277/2026 / = Solid; ☐ In Person Matrix Project Location *Aとわいる*。 Relinquished by: ____ L = Liquid;Special Instructions/Remarks: Laboratony <u>(அரம் த</u> - GARCADIS Sample ID/Location Delivery Method: 147 Project Manager __ Relinquished by: 7000000 のメントはせ **からかべらの** Sample Matrix: Received by: Received by:

SPECIFY AG-05-12/01 Yes No N/A Yes No N/A ੂਰ । Seal Intact? Total Seal Intact? 3 Total No. of Bottles/ | | Containers -Page-Remarks 5/119/09 Time 1345 CHAIN-OF-CUSTODY RECORD □Other_ Time Time Time ANALYSIS / MÉTHOD / SIZE Lab Courier Date_ Date. Date. Date. Reind Laboratory Task Órder No./P.O. No. いんしょうかん する。これでは 母Common Carrier ζ, 61 C Organization: -(* **(**^ 3 二分本を Organization: Organization: Organization: Project Number/Name  $N \int d\phi I^{4} d2$  , 6469.0269Lab ID Sampler(s)/Affiliation Williams | 120 2011 A ≒-Air 1353 かっナラム Date/Fime Sampled 1538 150-15 I-S CALLOOK TAG World Harted S = Solid;□ In Person De 41 Matrix Liquid; Special Instructions/Remarks: A ARCADIS 76 5-17-09 Sample ID/Location TB 0519 09 Delivery Method: H **ローナ・アウ** G1-45 DS 13.00 5 100 A Gr. 23 DY Relinguished by: _ Project Manager_ Project Location_ Relinquished by: Sample Matrix: Received by: Received by: Laboratory_ ノエの

**A** ARCADIS

Laboratory Task Order No./P.O. No. <u>Sy/577</u>70 CHAIN-

CHAIN-OF-CUSTODY RECORD Page

For Dublythered  Ale Sold Good Asian E  Nature Sampled Lab D  Again La	Project Number/Name/1490/492-676-00052	100/100	16/20/00	22				ANALYSIS / METHOD / SIZE	SIZE		
### Date Mark From ###   19   19   19   19   19   19   19	Project Location Benit	met	λ./.						7/		
Nature Sanifere Lab D S. 445 2 1. Remarks  Nature Samples Lab D S. 445 2 1. Remarks  1	Laboratory_(ol~M6/M	Q	מל אבוני ניסך				\ \				
Matrix Samples tab to 35 8 12 8 15 15 15 15 15 15 15 15 15 15 15 15 15	Project Manager (DM)	140%	Govan	ドラ			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/ /			
Date   Matrix   Sampled   Lab   D   L   L   L   L   L   L   L   L   L	Sampler(s)/Affiliation $\overline{\mathcal{N}L}$	Weaper	dive	KINGINZ		// 18 m	100		* )		
1546 1146	Sample ID/Location	Matrix	Date/Time				160%				į
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									3500	1 20 3 3 3 3	
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Yes No N/A Yes No N/A CHAIN-OF-CUSTODY RECORD Page Z of Z Seal Intact? Seal Intact? Total No. of Bottles (8) LIS TO MELISSA PENDON ALON MELLILLE OFFICE. Remarks □Other. Time ₹ Time -Time Time 591.91 ANALYSIS / METHOD / SIZE ☐ Lab Courier Date 🗅 Date_ Date. Date_ Laboratory Task Order No./P.O., No. 575元45 XCommon Carrier アセ<u>ム・ εν</u> Organization: $Z_{\Gamma \subseteq J}$ M Organization:.. Organization: Organization: Lab ID Sampler(s)/Affiliation D .  $M^{\prime}CM/FerJ/D_{F}C$ 二点 Project Number/Name A( 160 / 492. 0169. 0002 Project Manager(A たし SAN (アロリロアトエ Laboratory Coしいのの Pupl-Triceに Date/Time Sampled Project Location Bern Role N.Y. ⋖ Ships S = Solid;Derich. ☐ In Person Matrix ځ. L = Liquid; Relinquished by:  ${f 2}$ Special Instructions/Remarks. スナナゲ・ルルビ **G** ARCADIS Sample ID/Location Delivery Method: ISWO. RUTE TRABIORK Relinquished by: .. Sample Matrix: Received by: Received by:

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Yes No N/A Yes No N/A Seal Intact? Total Seal Intact? MS/MSD Sande X Neare UP -MIS SUMME as a 4A/10C Total No. of Bottles/ Containers CHAIN-OF-CUSTODY RECORD Page Remarks □Other Time __ Time_ Time. Time Date 5 / 19 / 0 3 ANALYSIS / METHOD / SIZE ☐ Lab Courier Date_ Date_ Date. Laboratory Task Order No./P.O. No. 12 1155a Town puers ファクンコー E_Common Carrier_ Organization: __ Organization: – 3 Organization: _ *γ*. Ω (4) Organization;. 6-7 Project Number/Name N/601'/92, 0499,00002Lab ID Sampler(s)/Affiliation_Williams | Prezorak = Air 1 Service vare stary 例 95/1 5-19-09 1301 Date/Time Sampled ⋖ S = Solid; Laboratory Columbia Analytical ี In Persoูศ์ Matrix L = Liquid;Special Instructions/Remarks: **S** ARCADIS 1. Sample ID/Location Delivery Method: 6 -1 WING ボント Mode Project Location___ BP011 1-1 Relinquished by: Project Manager. Relinquished by: 78051909 Sample Matrix: Received by: Received by: 7.

SPECIEY AG-05-12/01 Yes No N/A Yes No N/A Total Seal Intact? Seal Intact? Total No. of Bottles/ Containers Laboratory Task Order No./P.O. No./W.2 小中子CHAIN-OF-CUSTODY RECORD Page_ Remarks (g) □Other_ Time Time Time Time 40100 ANALYSIS / METHOD / SIZE 🗆 Lab Courier to Malica Reins Date_ Date_ Date. Date_ Grammar 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 100 /2 10 Arcost C & CONT \⊈Common Carrier_ Organization:_ 1 13/ Organization: Organization: Organization: 17 Project Number/Name MAC Hinsty 12 5009 800 2 Sampler(s)/Affiliation Polyment (Samus Ka Lab ID = Air シースート Date/Time Sampled ⋖ S = Solid;🗆 In Person Matrix Project Location Denkage 1 Project Manager 🥂 🎉 L = Liquid;Special Instructions/Remarks: Laboratory *(அய்கதி*மே S ARCADIS Sample ID/Location Delivery Method: 1.80t7009 Relinquished by: – 810 W 3-2 830 to 341 Relinquished by: Sample Matrix: Received by: Received by:

Yes No N/A Yes No N/A Seal Intact? Seal Intact? Total No. of Bottles/ Containers SPECIFY Froject Number/Name<u>外ばん k to は行うひとう</u>のいった。No. <u>Ok-2 いずか</u>ず**CHAIN-OF-CUSTODY RECORD** Page - Project Number/Name<u>外ばん k to は行うひとう</u>のいった Remarks ٠ د  $\square$ Other ∏me_ Time Time Time Lab Courier й A Date∟ Date_ Date_ Date_ 1788KS S S Q∕Common Carrier_ Melica Organization:_ Organization: W Organization: N Organization: M Lab ID Sampler(s)/Affiliation (xing C) (coms (sumy Xu Laboratory (a lundin And Hine Seaves = Air 10-16-1 Date/Time Sampled Project Manager // 1/6/fart ∢ S = Solid;シャルンナ 🗆 In Person Matrix Project Location  $Be^{-k/k-\gamma S}$  , ショ かくだい Sample Matrix: L = Liquid; Special Instructions/Remarks: **A** ARCADIS Sample ID/Location Delivery Method: REP 0521 09 7.Bo(5)109 Relinquished by: Relinquished by: かい シュート BP010 4-1 Received by: Received by:

A STATE OF THE STA Yes No N/A Yes No N/A Total Seal Intact? Seal Intact? 1 M Total No. of Bottles/ Containers CHAIN-OF-CUSTODY RECORD Page Remarks Time ___1910 □Other_ Time. Time Time. 50 122 ANALYSIS / METHOD / SIZE ☐ Lab Courier Date S Date_ _Date_ Date. Laboratory Task Order No./P.O. No.Grandus Coopy Sylving SON 72 € Common Carrier Organization: _ 3 3 Organization: Organization: Organization: Laboratory Columbia Analytica Service - Rechister Přoject Number/Name NY 00 1492, 0469, 0002 Lab ID = Air 1746 603 Date/Time Sampled ⋖ corr storn Stados Rezonti S = Soliti □ In Person Matrix = Liquid; Special Instructions/Remarks: **G** ARCADIS Sampler(s)/Affiliation Sample ID/Location 上の一つ Delivery Method: Relinquished by: _ GN-20D 180522B Project Location_ Project Manager Relinquished by: Sample Matrix: Received by: Received by:

Remarks  S  S  ANALYSIS / METHOD / SIZE  Remarks  Total No. of Boxtlesy  anization:  ANALYSIS / METHOD / SIZE  Remarks  Total No. of Boxtlesy  Total No. of Boxtlesy  ANALYSIS / METHOD / SIZE  Seal Internation:  Date   1   Time   Seal Internation:  ANALYSES A KETHOD  A KET		rabolatoly lash older would be inci-			ļ ē
Labin Mongo and Market	Project Number/Name <u>ANACAP42.0469. o</u>	1	ANALYSIS / METHOD / SIZE		
	Project Location DCTNHWEL NY Laboratory Columbon Andryzor				
Date Time   Date Time   NS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Project Manager <u>/ シート・レート・レート・トート・</u> Sampler(s)/Affiliation <i>Gulb 中代やの</i> 国	1 /50 mg			
26-09	Matrix			/ Remarks	Total
26-09 "" 3 Solid: " A Air  L = Liguid: \$ = Solid: A = Air  Dy: A W — Organization: AACADDS Date 5.126.09 Time 5.00 Containers.  Dy: Organization: Date 7 1 Time Solid: Ves No onsidemarks: (ED 64-75 MED) 400.00	3				3
L = Liquid; S = Solid; A = Air   Date		3			151
1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  1 - Liquid; S = Solid; A = Air  2 - Liquid; S = Solid; A = Air  2 - Liquid; S = Solid; A = Air  2 - Liquid; S = Solid; A = Air  2 - Liquid; S = Solid; A = Air  2 - Liquid; S = Solid; A = Air  2 - Liquid; S = Solid; A = Air  2 - Liquid; S = Solid; A = Air  2 - Liquid; S = Solid; A = Air  2 - Liquid; S = Air  3 - Liquid; A = Air  4 - Liquid; A = Air  4 - Liquid; A = Air  4 - Liquid; A = Air  5 - Liquid; A = Air  6 - Liquid; A = Air  6 - Liquid; A = Air  7 - Liquid; A = Air  8 - Liquid; A = Air  8 - Liquid; A = Air  9 - Liquid; A = Air  1 -					
L = Liquic; S = Solid; A = Air  L = Liquic; S = Solid; A = Air  Description: At CADES Date 5.26 Of Time 5.00 Seal into Containers Date 1 Time 5.00 Seal into Seal into Organization: Date 1 Time Seal Into Organ					
L = Liquid; S = Solid; A = Air  L = Liquid; S = Solid; A = Air  Organization: #74C7DS3					
L = Liquid; S = Solid; A = Air  by: A W — Organization: A74CADDS Date 5.26 Ø1 Time 5.0 Ø Soli Inte Organization: Date 7.1 Time 7.0 Ø Soli Inte Organization: Date 7.1 West					
L = Liguid; S = Solid; A = Air  by: 大利					
L = Liquid; S = Solid; A = Air  L = Liquid; S = Solid; A = Air  Date					
L = Liguid; S = Solid; A = Air  L = Liguid; S = Solid; A = Air  Date					
L = Liguid;       S = Solid;       A = Air       Total No. of Bottles/Containers         by:       A = Air       Total No. of Bottles/Containers       Seal Interestion:         by:       Organization:       Date       Ime       Seal Interestion:         by:       Organization:       Date       Ime       Seal Interestion:         cons/Remarks:       Constrainers       Yes No					
L = Liguid; S = Solid; A = Air  by: A W — Organization: A CADES Date 5 126 OF Time 5 e S   Seal Internation: Date 1   Time   Seal Internation: Date   Time   Time   Seal Internation: Date   Time   Time   Test No Ons/Remarks: Date   Time   Time   Test No Ons/Remarks: Date   Time   Time   Test No Ons/Remarks: Date   Time   Test No Ons/Remarks: Date   Time   Time   Test No Ons/Remarks: Date   Time   Time   Test No Ons/Remarks: Date   Test					
L = Liguid; S = Solid; A = Air  Date 5/26/OF Time 5:00 Seal Interport  Date 5/26/OF Time 5:00 Seal Interport  Organization:  O					
L = Liguid;         S = Solid;         A = Air         Total No. of Bottles/Containers           by:					
Companization:   ATCADES   Date   5.26.09   Time   Seal Internation:   ATCADES   Date   7.26.09   Seal Internation:   Time   Seal Internation:   Seal Internation:   Date   1.26.09   Seal Internation:   Seal Internation:   Seal Internation:   Seal Internation:   Time   Seal Internation:   Seal Internatio		Air		Total No. of Bottles/ Containers	9
Organization:   Pate	1		5 26	5.00	ntact?
Seal Internation: Date	Keceived by:	Organization:			o W
REPORT TO MERES A K	Relinquished by: Received by:	Organization: Organization:	Date / /		ntact? o N/A
1	7	$  _{\partial}$			
		1			



Project Northop Grumman	Project No	NYONI	492.04	co 9, om	2
Site Location Bethpage, NY	<del></del>	•		5-09	
Well No. BPOL I-/ Replicate No	. <u>MA</u>	Weathe	r	cloudy	GONF
Sampling Personnel Pat Prezzeki / Summy Xu Sampling Tin	ne: Begin	1528		End	1531
Purge Data	Field Parameter	<b>'</b> S			
Measuring Point (describe)	Color	Cololes	Colorless	Colales	oolalan
Sounded Well Depth (ft bmp) 24/	Odor	now	Hore	porce	mark
Depth to Water (ft bmp)	Appearance	clear.	dear	Clear	o Cear
Depth to Packer (ft bmp) /69					•
Water Column in Well (ft) 7≥		1	1V	2V	3V .
Casing Diameter 4"(0.65)	pH (s.u.)	5,35	5.30	6.26	5.61
Gallons in Well 46. 8	Conductivity				<u>.</u>
Gallons Purged × 3	<del>(mS/om)</del> or				
Prior to Sampling /40	(µmhos/cm)	34.6	92.5.	92.2	921
Pump Intake		,	1		•
Setting (ft bmp)	Temperature (°C	15.6	12.9	12.9	<b>13.0</b>
Packer Pressure (psi) $(169-27.13)$ $\times 0.43+50 = 1$	111 psz.				
Pumping Rate (gpm)	DO (mg/L)				
Evacuation Method pedictet submortle purpleader	ORP (mV)				
Sampling Method 3 well volume	Turbidity (NTU)				8.2
Purge Time Begin / Co   End 1529	Time	J:01	15:11	15:16	15:24
·	DTW (ft bmp)	27.63.	27.65	27.66	27.38
Remarks: 11585 I ourloss				•	I pumpy
Parameter Container  See Co C	No.			Preservative	
DID Poading	-				
PID Reading					
Well Casing Volumes  Gal./Ft. $1^{1/4}$ " = 0.06 2" = 0.16 3" = 0.37 ( $1^{1/2}$ " = 0.09 $2 \cdot \frac{1}{2}$ " = 0.26 $3 \cdot \frac{1}{2}$ " = 0.50	4" = 0.65 6" = 1.47	•			· · · · · · · · · · · · · · · · · · ·



Project Northop Grumnon	1	TN1492.0409	7. ous 2
Site Location Bethave, H		Date	-6-09
Well No. Prov 1-2 Replica	te No. MS/MIST .	Weather	Rain: 80/st
Sampling Personnel Pat Prozeski / Sumy Xu	ng Time: Begin <u>ル</u>	126	End 12:29
Purge Data	Field Parameters		
Measuring Point (describe)		when Colvers	colorers colores
Sounded Well Depth (ft bmp) 28.43	Odor <u>M</u>	me poul	ned even
Depth to Water (ft bmp) 335 L	AppearanceC	lear clear.	e ber c bor-
Depth to Packer (ft bmp) 294	_		,
Water Column in Well (ft) 4 /		1 10	2V 3V
Casing Diameter 4" (0.65)	pH (s.u.) <u></u>	64 5.74	5.41 5.19
Gallons in Well 26.65	Conductivity		
Gallons Purged	<del>(mS/cm) or</del>		
Prior to Sampling 80	(Jimhos/cm) (S	5.5 60.5	61.8 63.7
Pump Intake			
Setting (ft bmp)	Temperature (°C)	40 13.4	11.9 11.9
Packer Pressure (psi) (294-28,42)42,43+10=	. [2/07].		
Pumping Rate (gpm)	DO (mg/L)		
Evacuation Method	ORP (mV)		
Sampling Method dedicted submersible gur	pack Turbidity (NTU)		- 4.6
Purge Time Begin End 12:2	6 Time <u>1</u>	2:12 12:1].	12:20 12.25
		8.42 30.54	3052 29,32
Remarks:	12 x.43 +50 - 170	roundedup	purpig rate la
Parameter Container	No.		Preservative
		-	
PID Reading	·	-	
Well Casing Volumes  Gal./Ft. $1^{1/4}$ = 0.06 2" = 0.16 3" = 0.37 $1^{1/2}$ " = 0.09 2-½" = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47		



Project Northop Grumman	_ Project No	NY 00149	12.0409.	00W2	
Site Location Bettpage, NT		Date	8-	6- O J	
Well No. 3pow 1-3 Replicate No.	RZ7080609	Weath	er 80aF	cloudy	/s/whier
	•			/ /	,
Sampling Personnel Part Browneki Sampling Tir	ne: Begin	Z Post	9	End	1357
Purge Data	Field Parameter	s		12914	light
Measuring Point (describe)	Color	Colorlass	Colalecs	Jethy.	howing
Sounded Well Depth (ff bmp) 419	Odor	nore	INSLE	None.	mure
Depth to Water (ft bmp) 28, 29	Appearance	Cear	clear	twhich	tubid.
Depth to Packer (ft bmp) 344					•
Water Column in Well (ft)		<u> </u>	1V	2V	3V
Casing Diameter $4''(0.65)$	pH (s.u.)	4.48	454	本与	4.60
Gallons in Well 48.75	Conductivity				
Gallons Purged メう	(mS/cm)_or			1	
Prior to Sampling 146, 25	(µmhos/cm)	79.7	1225	117.4	109.9
Pump Intake	·	,	,		
Setting (ft bmp)	Temperature (°C	145	度 121	11.0-	11.6.
Packer Pressure (psi) $(344-29.29) \times 0.43+50=18$	I ps1				
Pumping Rate (gpm)	DO (mg/L)			<u></u>	
Evacuation Method dedicated submarcible pumploste	ORP (mV)				
Sampling Method dec 3 well volume	`Turbidity (NTU)				380
Purge Time Begin 13:28 End 13:15-2	Time	13:28	13:37	13:44	13:52
	DTW (ft bmp)	30,44.	3044.	30.18.	27.98
Remarks: Missing screw plug				•	Pet lower
Remarks: Missig soven plug					
85I-344-28,29 X	·43+50 - 1	186			
Parameter Container	No.			Preservative	
(ee COC	-				
			•		
PID Reading				•	
123	<del>P=0.65</del> 6" = 1.47				
2 72 - 0.00	U 1577				



Project Northrop G	umman OV2	Project No	NY0014	92.0409	7,0002	
Site Location Best	yrage, HY			8-6	ي اور	
Well No. BPOD 3-	Replicate N	lo. Ala	Weath	er	Jump	1957
<i>U</i> 1	/ ₄ . `Y.				0	<i>,</i> ,
Sampling Personnel Pat Pres	sampling T	îme: Begin	10:43		End	10:44
Purge Data		Field Paramete	rs			
Measuring Point (describe)	Toc	Color	colorles	colator		derless
Sounded Well Depth (ft bmp)	516	Odor	slight	Slight	slight	slight
Depth to Water (ft bmp)	25.75	Appearance	clear	(ber	cler	clear.
Depth to Packer (ft bmp)	414					•
Water Column in Well (ft)	102.		1	1V	2V	3V
Casing Diameter	4"(0.65)	pH (s.u.) 488	1 1 1 X	4.29	4.31	433
Gallons in Well	66.3	Conductivity	1	,		
Gallons Purged	Y <del>'</del> 7	(mS/cm) or				
Prior to Sampling	188.9	(µmhos/cm)	) III by	x. 38.6	918	89.3
Pump Intake			11/.1			·
Setting (ft bmp)		Temperature (°C	) 140.	12.4	12.10	12.0
Packer Pressure (psi) (414-	25.75)x0.43+10+67=2	LOPSI.	,			
Pumping Rate (gpm)		DO (mg/L)				
Evacuation Method	pedrated submosphe gury/park	ORP (mV)				
Sampling Method	3 well volume	Turbidity (NTU)				3, K.
Purge Time Begin	THE CKEND 10242	Time	12:05	10:17.	10:27	10:42
	10:05 AM	DTW (ft bmp)				
Remarks:	I = 414-25.75	× 42450 ==	220 0	undedin	,	
incinarios.	(aub) (0TU)	X.1 3770				· · · · · · · · · · · · · · · · · · ·
	Togeth .				·	<del></del>
Parameter	Container	No.			Preservative	
PID Reading	<u> </u>				,	
and the second s	olumes 0.16 3" = 0.37 " = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				



Project Northrop. (	Trumman ovz	Project No/	1/00149	92,07609	or y	
Site Location Bethpu	RNY		Date	8-	5-09	
Well No. BPOU	3-2- Replicate !	10. <u>4 A</u>	Weath	er S	ency /	901=
					0/	
Sampling Personnel Pat Rez	nski /Sunmy Xta Sampling ?	Гіme: Begin 🔏	130 5-X 57	<u> </u>	End _	
Purge Data		Field Parameters				
Measuring Point (describe)	. 70C	Color		o (or lea	3	<del>}</del>
Sounded Well Depth (ft bmp)	647	Odor	····	Slight		<u> </u>
Depth to Water (ft bmp)	26.75	Appearance		clear ·-		<del>/</del>
Depth to Packer (ft bmp)	<u>6</u> v2					•
Water Column in Well (ft)	144		1 .	1V	2V	3V
Casing Diameter	4'(0.6t)	pH (s.u.)	656.	f.22	81.2	1.07
Gallons in Well	93.6	Conductivity		_		, 
Gallons Purged	′×>	( <del>mS/cा</del> ग) or				
Prior to Sampling	280.	(µmhos/cm) ¹⁾	122.9	100.6	73.1	60.7
Pump Intake			′			
Setting (ft bmp)		Temperature (°C)	18.7	16,6	148	143
Packer Pressure (psi)	255			_		
Pumping Rate (gpm)		DO (mg/L)				
Evacuation Method Dedicas	led Submarsible Jun	P ORP (mV)				<b>,</b>
Sampling Method #	3 well volume	Turbidity (NTU)			-	من
Purge Time Begin	<u> / らいっ</u> End	Time				
		DTW (ft bmp)		27.22	27.22	26.88
50	13 F5 - 26,75×	UR +50-2	55007	<u>-</u>	•	
	0TW X.43 +50=					
- Parisa	V 1 W X 1 7 1 7 0 = 1					
Parameter See COC '	Container	No.			Preservative	•
PID Reading					,	
	olumes 0.16 3" = 0.37 " = 0.26 3-½" = 0.50	<u>4" = 0.65</u> 6" = 1.47				



Page _		of_	 _
	د انځو		

Project $\mathcal{N} - \mathcal{G}_{I}$	rumman OU2	_ Project No M	1400149	20409,0	000 2_	
Site Location	Bethpage NY		Date	91	7/09	
Well No. Blow 4	Replicate No	oNA	Weath	ier de	26-	80°P
Sampling Personnel Preusk	! / Williams Sampling Tir	me: Begin <u>1</u>	2139	·	- End	12:135
Purge Data		Field Parameters		\		
Measuring Point (describe)	toc com	Color Colo	Non	colorlan	Colorlan	colorlas
Sounded Well Depth (ft bmp)	652 692	Odor	love	None	Norse	None
Depth to Water (ft bmp)	27.29	Appearance	Bon	don	an	(lea
Depth to Packer (ft bmp)	503 652		}			•
Water Column in Well (ft)	149 40		1 .	1V	2V:	3V
Casing Diameter	4" (0.65) = "(0.16)	pH (s.u.)	7.35	4,91	4.98	5,12
Gallons in Well	96,85 64	Conductivity	_	-		
Gallons Purged	x3 x3 (9,2	(m <del>S/cm)</del> or			<u> </u>	
Prior to Sampling	290 309 (290+19	(1,2) (umhos/cm) 1)	159.6	77.5	554	45.9
Pump Intake						,
Setting (ft bmp)		Temperature (°C)	2014	12.2	12.3	12.6
Packer Pressure (psi)	<u>255</u>					
Pumping Rate (gpm)		DO (mg/L)				
Evacuation Method 04	dicted Submersille pumplache	ORP (mV)				.,
Sampling Method	3 well volume	Turbidity (NTU)			***************************************	8.4
Purge Time Begin	10,35 End 12,33	Time	10:35	10:58	11:17	12/33
	An	DTW (ft bmp)	<del>جستنسی</del> ،	26,44	26.19	25.05
Remarks:			,			pump rate
<del> </del>	•			, ,,		
Parameter See (OC	Container	No.			Preservative	<b>3</b>
-						
PID Reading						
4 = 4	0.16 3" = 0.37 "= 0.26 3-½" = 0.50	, 4" = 0.65 6" = 1.47				



Project N-G	rummon UUZ	Project No.	NYOO	1492.040	9,00002	
Site Location	Bethow NY		Date	g	17/09	
Well No. BP	OL 4-2 Replicate N	o. NA	— Weath	ner Brury	clean	90°F
				10/207		
Sampling Personnel Vacar	sti / Williams Sampling Ti	ime: Begin	1535		End	1537
Purge Data		Field Paramete	rs	\		
Measuring Point (describe)	Toc	Color (	dorben	- Nove	colorlan	Colydan
Sounded Well Depth (ft bmp)	764	Odor	None	NONE	Nove	None
Depth to Water (ft bmp)	25.19	Appearance	clar	class	don	Clean
Depth to Packer (ft bmp)	503			}	}	
Water Column in Well (ft)	261		1 .	1V	2V	3V
Casing Diameter	4" (o.65)	pH (s.u.)	4,27	4.35	4,45	4,47
Gallons in Well	169.65	Conductivity				
Gallons Purged	*3	(mS/cm) or	•			
Prior to Sampling	509	(fumhos/cm)	1) 79.9	89.7	80.0	73,3
Pump Intake			,			;
Setting (ft bmp)		Temperature (°C	) 16.9	14.4	13,1	13,9
Packer Pressure (psi)	255			Ì		
Pumping Rate (gpm)		DO (mg/L)	~~~~	·		
Evacuation Method	Dedicated pactor/purp	ORP (mV)		,		
Sampling Method	3 well volone	Turbidity (NTU)				3.7
Purge Time Begir	12: 16 End 1535	Time	12:46	1423	15/1	1535
	<del>(</del>	DTW (ft bmp)	26.78	23,84	23.78	23.74
	ma omia v la	-c- n-			,	pump rate
Remarks: $NI = $	503-25,19 x,43		<u> </u>		· · · · · · · · · · · · · · · · · · ·	lower
•	Carametre every 1	TUSAI				
Parameter	Container	No.		·	Preservative	•
Cer Coc		***************************************				
PID Reading						
Well Casing \ <b>Gal./Ft.</b> 1 ^{1/4} " = 0.06 2" =	/olumes = 0.16 3" = 0.37	4" = 0.65				
4	$5'' = 0.26$ $3-\frac{1}{2}'' = 0.50$	4" = 0.65 6" = 1.47				



			V -6	comman C	162					
Project	14 64 11	492.0409.0		Site Location		page NY		Well ID	GM-	13D
Project Numbe	r 10011	9/1/09	000-	Sampled By	<u> 720   11  </u>	page it i	rorski,	Williams		
Date Sampling Time		1633		Recorded By			P,	rzorki		
Neather			of	Coded Replica	te No.	MS/MSD				
14041101				·		···				
nstrument ide Water Quality f			Lee .	calibation	log	Serial #			·····	
Carlum Allataria		Q,	rc	Purge I	Method		Dedreto	F Bladder 1	Low Flor	J
Casing Materia Casing Diamet			44	-	Interval (ft bm)	o) Top		2	Bottom 21	2
Sounded Depti			210	Pump l	ntake Depth (ft	bmp)				
Depth to Water			43.71	- Purge '	Time	Start_	1212	<u>o</u>	Finish <u>Cee</u>	kelow
•			1	Field Parameter	Measurements	During Purging	9			·····
Time	Minutes Elasped	Flow Rate (mUmin)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
12/20	0	330	_	24.5	6.05	317	(ol	2.55		
12:25	5	1		23.7	6.04	335	120	1.10		Y3.72
12:30	10		,	22,3	5.58	340	136	0.76		
12:35	15			C	smacess	or sty	ped w	okin		
		Wa	try to	CON	posso	resoi	2nd	Compen	~ Not	chating
1610		330	-	23,9	5.84	127.8	178	2.37		
1615				23,3	5.75	129,8	183	1.48		43.74
1620		<i>y</i>		22,3	5,71	129.8	189	0.96		
1625				2/10	5.71	130.3	195	0.57		43,74
(630			_	20.7	5.67	127.6	194	0.52	450	
										<u> </u>
Collected Sari	nale Condition	<u> </u>	Color_Colo	Non	Odor	None		Appearance_	alan	
Parameter	ipie Condition		Container		_	No.			Preservative	
	see coc	<u></u>			_		······································	<del></del>		
		<b>-</b> -			<del>-</del> -			<del>-</del> 		
PID Reading	Om	M	<b></b>							
Comments		Ren	parced	2nd G	varan	corners	o NO	transa	- Gell	1
		<b>"</b> "	Say	rle taka	# 16	corpors 33				
				, ,						



Project Notable-Glum Man Project No. Nyou 1492.0400 Site Location Bethpage, N Date 8-1400 Weather Lux		
	_	/86°F
Sampling Personnel Gangwilliams Sunmy Sampling Time: Begin 7500 6220	End	1 600 / 602
Purge Data Field Parameters		
Measuring Point (describe) TQ Color Colors Colors		
Sounded Well Depth (ft bmp) 80.00 Odor work work	how	
Depth to Water (ft bmp) 4241 Appearance of ordy	Clour	clen.
Depth to Packer (ft bmp)		
Water Column in Well (ft) 37.59 1 1V	2V	3V
Casing Diameter 4" (0.65) pH (s.u.) 5.94 7.25.	6.35	6.05
Gallons in Well 24.43 Conductivity		
Gallons Purged (mS/cm) or		
Prior to Sampling 275 GAC (µmhos/cm) 1/6.5 107.2	108.4	109.6
Pump Intake		
Setting (ft bmp) 75 Temperature (°C) 18.4. 16.2	16/.	16.8
Packer Pressure (psi)		
Pumping Rate (gpm) DO (mg/L)		:
Evacuation Method Redi - often ORP (mV)		
Sampling Method Turbidity (NTU)	6.0	
Purge Time Begin /7262 End 16 220 Time /7262 16201	16 Vo	16:20.
DTW (ff bmp)		
Remarks:		÷
Remarks:		
		*
Parameter Container No.	Preservativ	/e .
PID Reading		•
Well Casing Volumes  Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0,37 4" = 0.65  1 ^{1/2} " = 0.09 2-½" = 0.26 3-½" = 0.50 6" = 1.47		



Project N-G	omma our	Project No	NYOUI	192.0409	00002_	
Site Location	thouse ory		_ Date		8/27	09
Well No. <u>GM-</u>	I <u>5</u> 「Replicate No	0. NA	Weath	er (	loa t	80F
Sampling Personnel Pre	zorski Sampling Ti	me: Begin	230		End	1834
Purge Data		Field Parameters	1	,	l \	
Measuring Point (describe)	TOC	Color	oden	Coloden	Colidon	Colorless
Sounded Well Depth (ft bmp)	1.05	Odor	NEFE	Nors	NONE	None
Depth to Water (ft bmp)	42.59	Appearance	dean	dea	Clan	clan
Depth to Packer (ft bmp)	94		/			
Water Column in Well (ft)				1V	/ 2V	3V
Casing Diameter	4" (0.65)	pH (s.u.)	7.58	5.92	5,89	5,52
Gallons in Well	7.15	Conductivity				
Gallons Purged	₹3	(mS/cm) or				
Prior to Sampling	22	(µmhos/cm) 1)	327	1317	117,4	108,5
Pump Intake				. ( )		
Setting (ft bmp)		Temperature (°C	) <u>17.7</u>	16.3	15.9	16,9
Packer Pressure (psi)	75	A /				
Pumping Rate (gpm) Anglan I	150 ml/mm / mx 1738 m	m DO (mg/L)			17 4	
Evacuation Method	pedicated Bladder lgater	ORP (mV) Contain	res-	12	1/2 \$	<u>8/12</u>
Sampling Method	3 well volume	Turbidity (NTU)				<u> </u>
Purge Time Begi	n 1719 End 1828	Time	1719	7743	1805	1828
		DTW (ft bmp)	42,36	141,71	4613	40,25
Remarks: Purcea	with Garage Wallacia	and costallar k	La lors	ned prints	sandin.	
Tremains.	94	- 42,59 X.	43 +50	=psI	= 75 100	nledgo
Well 19	with Grammer wellwize 94 running.		y = 5	ad contain	nan	
Parameter	Container	No.			Preservative	
Sector				<del></del>		
				<del>-</del>		
PID Reading	20-					
• • • • • • • • • • • • • • • • • • • •	Volumes = 0.16	4" = 0.65 6" = 1.47				



	•	Northrof	, <u> </u>	· In .	B (1 ~	•				
Project	W 002	<del></del>		mman	0U-2	thouge		W ##B	AN-	-1.tD
Project Numb	er N 100)	-111.09	, 10000	Site Location	<u>pe</u>	W 1/2	$\frac{N}{2}$	Well ID	(X/91)	74 5.
Date		16-10-		Sampled By		Sing	y Ku	anny x	9	
Sampling Time	hun?	d /86°	<u>~</u>	Recorded By Coded Replica	•	A/A	7 am	· · · · · · · · · · · · · · · · · · ·	****	
Weather	1 Minn			·			······			
Instrument Ide	entification		n							•
Water Quality	Meter(s)	इंटर (	alibrat	zon bog		_ Serial i	#			
Casing Materia	al	pro	0	Zon hog	Method		Dodles	aloal a c	6 3/496	Les pur
Casing Diame			211		n Interval (ft bm		332	Red 2-"9	Bottom 3	42
Sounded Dept		34		_	Intake Depth (f		33)	7		·····
Depth to Wate	r (ft bmp)	44.	84.	Purge	Time	Start	33) 14	10	Finish	(=10.
				Field Parameter	· Measurement	s During Purgin	• •		,	
Time	Minutes Elasped	Flow Rate (mL/mIn)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
14:10	<del> </del>			28,9	t. >6	70.6	201	7.00.		44.84
4:15	4		<u>:</u>	27.7	5,22	84.3	204	6.26	• • • • • • • • • • • • • • • • • • • •	
A20	10			24.6	5.05	9/13	22/	3.38.		44.89
14:25	1.5			228	4.95	934	228	239		7
14:30	<i>70</i>			12,3	4.90	93.9	×35	4.96		44.89.
1445	X			22.0	4.90	943	239	5.19.		,
14:40	30			21.9	4.89	94.4	243	6.46.		4489
14:45	32			21.9	4.91	943	245	17.02		<u>.</u>
14:50	40			3/19	4.90	94.1	248	16.80.	_	44.89
14:55	45		,	21.8	4.96	93,8	243	18,53		,
17,200	20	·		21.8	491	94,2	246	23.28	,	44.89
1505	15			21.8	4.91	94.1	249	21.604		/
15:10	60°		· · · · · · · · · · · · · · · · · · ·	21.9	4.91	94.0	249	26.63		4682
							<u>, , , , , , , , , , , , , , , , , , , </u>		:	
Collected Sam	ple Condition		Color <u>(&amp;/</u>	orless	Odor_	porce		Appearance	clean	<del>.</del>
Parameter 122	00 C		Container			No.			Preservative	
<u></u>						•	•			
PID Reading										
Comments	₹ <b>%</b>	Do met	er no	of Aunet	lanking.	duo :	to Ligh	tenb.		
•		,		T.	0			T		
•										
						· · · · · · · · · · · · · · · · · · ·				
1) Circle one u	nit type									
-y -nois one u										

G:\TECHNICL\WOLFERT\Technical Forms\2006\lowflowsampforms.xls - Sheet1



Project Project Numbe		1274204C			Δ	ethpace	<u> </u>	MAILIN	6 m	150 -		
roject Numbe Date	· lone	8-14-09		Sampled By		EW XX		AAGII 1D	- 110	100-		
Sampling Time		13:40	<del></del>	Recorded By								
Weather hund /86°			6° €									
veauter	p.u.	·m / 6	<del></del>	Ooded Replica		P 0814	19 / N	15/MS	$\mathcal{D}$ .			
nstrument idei	ntification	· '/	( ) // ₂ /	, .	Л		·			•		
Vater Quality N	fieter(s)	Lee	(o-l'1/s	nother 7	Kr./L	_ Serial	<b>#</b>	<del></del>				
Casing Material Casing Diameter Sounded Depth (ft bmp)		PV	<u>c.</u>	Purge	Method	lethod Dealrand			el bladder.			
		556		Screen	Screen Interval (ft bmp) Top <u>よう</u>							
				Pump l	Pump Intake Depth (ft t		(t bmp) <u> </u>					
epth to Water	(ft bmp)	41.	47.58 Purge Time			Start	1214	LO Finish 13:40				
,		,		Field Parameter	Measurement	s During Purgin	g		<del>,</del>	- <b>,</b>		
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.) <	Conductivity (umhos dr m3/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)		
7:40.				27.1	502	101.2	118	6.25		47.18		
2:45				247.	5,12	69.0.	142	4.65				
2:50				23.6	5.11	66.7.	169	2.14		47.58		
2:05				23,4	£08	66.5	188	18 <del>3</del> .				
3:00				23.3	5112.	66. K	192	3,10.		47.58		
かの				23,2	5,10	66.6	195	4,39				
13:10				23.4	5112	66,6	194	5,79				
13:5		<u></u>		200 230	5.12	65.9	198	5.94		27.		
35≫				23.0	5,12	659	201	6,34		47.58		
3:15			·	23,0	5.14	657.	202.	6.30				
13:30				22,7	5,14	65.2.	206	625		47.50		
13:35				22.6	2112	650	2/2	6.22				
13:60.				22,6	1.13	65,0	214	6.19	1.8	42.18		
					-		·····					
llected Samp	le Condition		Color_ <i>_Co_(</i>	orles	Odor_	none	<del>-</del>	Appearance_	oleer	<b>.</b>		
rameter	3C		Container			No.			Preservative			
		-						•				
D Reading		-		<del> </del>	·			•				
omments												
<del></del>		,										
				•								



Project		ORTHROP		And						A
Project Numb		xx1442.040		Site Location		THPALL ,	Ny	Well ID	Con-[]	<b>DI</b>
Date		8-12-00	<b>]</b>	Sampled By	G	2.60	Gary	WellID UT//iam William	<u>-\$</u>	····
Sampling Tim	e	١٤١٥ عدد/	<u> </u>	Recorded By		<u>ξω</u>	Gany	Willian	<u></u> 3.	
Weather	_0(	XYLOAST	83°	Coded Replic	ate No.	MA	/			
Instrument Ide	entification									
Water Quality	Meter(s)			······································		_ Serial f	ļ			
Casing Material		PUC		Purge Method		dedicated		bladder.		
Casing Diame	ter		4"	Scree	ı interval (ft bm	ір) Тор	100 110	)	Bottom	<u>20</u>
Sounded Dept	h (ft bmp)	12	<u>ي</u>	Pump	Intake Depth (fi	t bmp)	110	<del> </del>		
Depth to Wate	r (ft bmp)	434	6	Purge	Time	Start	12:	35	Finish/	:220 pm
·			,	Fleid Paramete	r Measurement	s During Purgin	g			
Time	Minutes Elasped	Flow Rate (m⊔/mln)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
12:35				26.0	5.68	648	173	10.25		43.46
12:40			-	24.9	5,77	622	153	8.19		
12:45				248	5.74	624	148	8,83		
12:50				24,5	5.8/	618	144	8,92		
12:55			<del></del>	241	5.79	614	157	9,05		43,48
100	·			23.9	632	616	127	9.08		
lios				23.6	6.36	620	121	938		
110				23.5	6.36	620	118	9.83	<b>.</b>	
1:15				23.3	6,39	623	111	9,78		43,49
1:20				22,9	6.4/	623	95	9.86	3,3	
125										
180							· · · · · · · · · · · · · · · · · · ·			
/3 <u>X</u>									***************************************	
			^	0					~ f for a	
Collected Sam Parameter			Color Color Container	<u> </u>	Odor	No.		Appearance_C	Preservative	
See	wc	~ ~								
	Δ.,	•						- -		
PID Reading	RADINER	36-								
Comments	·· · · · · · · · · · · · · · · · · · ·				······································	· · · · · · · · · · · · · · · · · · ·	<del></del>			
-										
-								····	<del></del>	
-		<del></del>	·····							



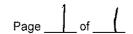
Project	NO	RTHROP-6	SRUMMA	J						
Project Numb	or NY	001497.6	9000.POPC	ZSite Location Sampled By		BETHPAU	ENY	Well ID レンバルム イーレンババル	6m-1	G
Date		8-12-0	99	Sampled By		မော့	Gary	1 W71/1a	my	
Sampling Time	ر	1:45 P	m	Recorded By		6ω	Gan	1 13:111	aus.	
Weather	Pa	DVY T	<u>S°</u>	Coded Replic	ate No.	K/A		, , , , , , , , , , , , , , , , , , , ,		
Instrument Ide	ntification	•								
Water Quality	Meter(s)		<del></del>			Serial a				
Casing Materi	al	PV		Purge	Method		<u>ded?</u>	extecl	bladd Bottom	er.
Casing Diame	er	4		Scree	n Interval (ft bi	тр) Тор	278	<u> </u>	Bottom	298
Sounded Dept	h (ft bmp)	29	8	Pump	Intake Depth (	(ft bmp)	288	<u>}</u>		
Depth to Wate	r (ft bmp)	46.0	10	_ Purge	Time	Start	1:45	pm	Finish	2:45 pr
				Field Paramete	r Measuremen	ts During Purgin	g			
Time	Minutes Elasped	Flow Rate (mL/mln)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1:45				24.0	6.56	184.7	147	10.90		46.90
1:50				22.8	6.56	186,9	135	9,23		
1:55				22.4	6.56	1733	147	10.43		
2:00		!		224	6.58	172.9	141	9.20		
2:05				22.3	6.57	1733	138	9,94		
2:10				22:2	6.64	173.7	144	10.18		
2115				22.2	6,65	173.5	143	9,28		46,89
2:20				22,1	6.63	173,8	137	10,83		
2:25				22.1	6,64	173.8	137	10,33		
2:30				219	6,69	174.0	149	10:55		
2:35	·			267	6.71	173,9	P86'	10:43		
2:40				21.7	6.71	173.8	187	10144		
2.45		-		21.3	6,71	173.4	186	10,35	2.7	46.90
Collected Sam Parameter			Color_Cou	LUESS.	Odor <u>.</u>	No.		Appearance_4	C(GA/C Preservative	
		• -			-					
PID Reading	P. 85	n!	_		_			-		
Comments				···						
	·····									
•					<del></del>			wert.		
•				········						<del></del>



Project	Gruman OU2	Project No. No Pool	192.0409	. 6000 2	
Site Location	Bethpac NY	Date		8/24/	109
Well No	Replicate N	lo. <u>NA</u> Weatl	her	clean	85°F
Sampling Personnel V(2	orsti Sampling Ti	ime: Begin <u>140 7</u>	···	End	1412
Purge Data		Field Parameters			
Measuring Point (describe)	Toc	Color Coloden	wlodes	Colodon	adalan
Sounded Well Depth (ft bmp)	105	Odor None	work	None-	None
Depth to Water (ft bmp)	39.96	Appearance class	does	asa	cla
Depth to Packer (ft bmp)	94		(		
Water Column in Well (ft)		1	1V	\ _{2V}	3V
Casing Diameter	4" (0.65)	pH (s.u.) 6.63	5.92	5.62	5.57
Gallons in Well	7.15	Conductivity			
Gallons Purged	× 3	(mS/em) or			r
Prior to Sampling	22	(jumhos/om) 1) 355	140.1	131.8	125,6
Pump Intake					
Setting (ft bmp)		Temperature (°C) 21.6	18,7	18,2	18,3
Packer Pressure (psi)	80 Rounders				
Pumping Rate (gpm)	880 ml/m, 9 Form/mm	DO (mg/L)			
Evacuation Method	pediated pump/packen	OBD (IIIV) cartoframe	\$ 1/2	120	# 1/2
Sampling Method	3 wall volume	Turbidity (NTU)		r	4.8
Purge Time Begin	n 12:46 End / 1/05	Time 12:46	1323	1342	1905
	bu	DTW (ft bmp)	38.74	38.74	38:79
Remarks:	94-	39.96 X.43 +50 -	75 05	·I	
At 1319	1 1500 ml/mm . Rot	39.96 X. 43 +50 -	diz.		
Parameter See Coc	Container	No.	/yen	Preservative	-
			<u>.</u>		
PID Reading Oggm			-		
470	/olumes = 0.16	4" = 0.65 6" = 1.47			



		Northro		W-1 10W G1		•	y Log				
Project			1	mman	ou-		<u>_</u>		<u> </u>	1/7 -	
Project Numb	er _∭	14001497	<u>2.6409</u> .000	Site Locatio	n <u>2</u>	ethpage	NE	Well	0 6M-1	( &D	
Date (8-1:				Sampled By			111ams	<del></del>			
Sampling Tim	е	1:40 p	<u> </u>	Recorded By Grany 07/12ans							
Weather			<del></del>	Coded Repli	icate No.	<u> </u>			:		
Instrument Ide	entification										
Water Quality	Meter(s)	See	calibr	afin.	sheet	Serial	#	*******			
Casing Material Casing Diameter		PV C. 4" \ 300		Purge Method			Dedico	Dedicated bladder.			
				Screen Interval (ft bmp)		np) Top	29	0	Bottom 300		
Sounded Dept	h (ft bmp)	<u> </u>	90	Pum	p Intake Depth (		291	-			
Depth to Water	r (ft bmp)	42	.60.	Purg	e Time	Star	t <u> </u>	0 0 pm	pm Finish 5240 p		
				Field Paramete	er Measuremen	ts During Purgi		,		,	
Time	Minutes		Volume	Temp	pH	Conductivity (umhos or	ORP	DO	Turbidity	Depth to	
	Elasped	(mL/mIn)	Purged	(°C)	(s.u.)	mS/cm) 1)	(mV)	(mg/L)	(NTU)	Water (ft bmp)	
4:40		450		24,4	6.49	140.9	165	7.09		42.60	
4.45				23,3	5.94	1423	154	7.28			
4.50				22./	5.74	1437	13	9111			
455				220	5,73	1438	154	9,50		+2.62	
5:00				206	5,65	144.0	153	2.64			
5/85				21,3	5.63	1442	165	10,10			
5100				21.3	5,57	144,3	170	18:34			
3:15				21.3	5,57	144,4	164	10:24		25	
5100				21.3	5.57	144.3	162	10,30			
5:25				213	5.57	144.4	163	10:23			
5:33		·		21.3	5,57	1444	163	10.57			
5:35		·		213	5.55	1442	163	10.57	3,0	4262	
5:40				21,3	5,55	144.2	163	10.53	V		
								1000			
ollected Samp	le Conditio	n	Color 60 201	રાહ્ક્ડ	Odor_	150015		Appearance_7	~L&>41	I	
arameter	20 CO	C	Container			No.			Preservative		
		<u> </u>						-		<u></u>	
		<del>_</del>		· · · · · · · · · · · · · · · · · · ·	<del>.</del>						
D Reading			- `				•				
omments			·		•					<u>:</u> :	
	··								· · · · · · · · · · · · · · · · · · ·		
			<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>				<del>*************************************</del>	······································	<del></del>	<u></u>	
		······································	·····								
Circle one uni	it type										





Project N-Gran	aranoc2	_ Project No	NYO	014920404	1,00002	
Site Location Bethpa	,		Date		8/28/0	9
Well No.	20 <u>T</u> Replicate No	. NA	Weath		# 7	10F
•				L	igt Rain	
Sampling Personnel R20	rski Sampling Tin	ne: Begin	1341		End	1345
Purge Data		Field Parameters	s			_
Measuring Point (describe)	Toc	Color Col	odon	coloran	Colorlan	colorlan
Sounded Well Depth (ft bmp)	105	Odor	NONE	None	NONE	Nople
Depth to Water (ft bmp)	34.75	Appearance	dec	clan	Open	don
Depth to Packer (ft bmp)	94			/ \	j	
Water Column in Well (ft)	11		1	10	2V	3V
Casing Diameter	4" (0.65)	pH (s.u.)	9,39 1	9,10	10.81	11.03
Gallons in Well	7.15	Conductivity				
Gallons Purged	<b>×</b> 3	(mS/em) or				
Prior to Sampling	22.	(umhos/czh) 1)	349	157.1	110.0	106,4
Pump Intake						
Setting (ft bmp)		Temperature (°C)	16.1	14.4	14.1	13,8
Packer Pressure (psi)	80 Roundedup	1 6 Chart of 1325				
Pumping Rate (gpm)	920 M/m / 1120 Mhon /200	DO (mg/L)				
Evacuation Method	Dedicated Bladder/ packs	SEN Container		\$ 1/2	1/2 /	12
Sampling Method ,	3 well volume	Turbidity (NTU)				620
Purge Time Begin	12:11 End 1340	Time	12:11	12:47	1311	1348
		DTW (ft bmp)	34.18	34.18	33,94	33,94
Remarks:	SI= 94-34,75x	.43+50 =7G				
Dergekur	the well-wood control	box Roter Lo	weed prio	n to same	1/2	
	1 = 5	gd container	<b>y</b>			
Parameter	Container	No.			Preservative	
Ce COC						
PID Reading Rain, 1	Humedty					
- ***	0.16 3" = 0.37	4"= 0.65				
$1^{1/2\mu} = 0.09 \qquad 2-\frac{1}{2}$	" = 0.26 3-1/2" = 0.50	6" = 1.47				



		ı
Page	of	igspace

Project	-Gryma OUZ	Project No	NYOULY	92.0409	, .	
Site Location	Bothpage NY	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Date	Marian Marian Company of the Company	28/09	
Well No. <u>GM-2</u>	LOD Replicate I	No. <u>NA</u>	Weath	ner Overast	70°F	
Sampling Personnel ?	ezonti Sampling	Time: Begin_	1700	-	End	1704
Purge Data		Field Paramet	ers		Coladers	coludaes
Measuring Point (describe)	Toc	Color C	olorless	Coloniess		
Sounded Well Depth (ft bmp)	226	Odor	NONR	None	Nume	None
Depth to Water (ft bmp)	36.65	Appearance	clase	clan	clean	clan
Depth to Packer (ft bmp)	215				/	
Water Column in Well (ft)			I	1V	2V	3V
Casing Diameter	4 ( (0.65)	pH (s.u.)	10,22	9.16	8.49	7,94
Gallons in Well	7.15	Conductivity				
Gallons Purged	×3	(mS/cm) or	<del></del>			
Prior to Sampling	23	(µmhos/cm	1 926	91,5	90.3	89,7
Pump Intake						
Setting (ft bmp)		Temperature (°	C) 14.6	14.5	14,2	14.1
Packer Pressure (psi)	130	5 gal costa	Trans	17		1.
Pumping Rate (gpm)	1 Lder/min	DO (mg/L)		1 /2	1/2 \$	2
Evacuation Method	Ordinal Bladder pucter	ORP (mV)				
Sampling Method	3 well volume	Turbidity (NTU)	)			120
Purge Time Be	egin 1525 End 1700	Time	1525	1556	1628	1700
	•	DTW (ft bmp)	34,99	32.81	27,30	23.69
Remarks:	I - 215-36.65	X. 43 +50=	130 raws	ted up.		
Oursed w	sh wellward antal by	rox Rote Co	wed pro	on to sary	ding.	
N2 Gas halding steady.		Contrasion	·	•		
Parameter '	Container	No.			Preservative	e :
De Coc				<u>.</u>		
				-		
PID Reading Thum	ridity					
- m	gVolumes 2" = 0.16 3" = 0.37 2-½" = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				



Project	Northrop	Grum.	man	Project No. 🖊	1/0014	92.54	09, ow )	<u>.                                    </u>
Site Location	Bethja	ege, N	?		Date	3-0	9-09	,
Well No.	GM- 215	H : $I$	Replicate No	oNA	- Weath	ner	9-09 11-t. 9	00 °F
Sampling Personne	, Gaywill	Trans/5	Sampling Ti	me: Begin /	424	_	End ,	y: fo
Purge Data				Field Parameter	s			
Measuring Point (de	escribe)	TOC		Color	brown	Colorles	Cololean	color-lace
Sounded Well Depti	h (ft bmp)	. 67	····	Odor	more	100010	pora.	mo
Depth to Water (ft b	mp)	34.29		Appearance	turbid	Clar-	e Con	clar
Depth to Packer (ft I	bmp)	·						
Water Column in W	ell' (ft)	32.71	`			1V	2V	3V
Casing Diameter		2"(	. 165	pH (s.u.)	8,52	6.91	6.49	6,50
Gallons in Well		<u> </u>		Conductivity	_	,		
Gallons Purged	-	хЭ		(mS/cm) or				
Prior to Sa	ampling	16.		(µmhos/cm) 1)	315.	96.4.	83.7.	78.6.
Pump Intake								
Setting (ft	bmp)	B5		Temperature (°C)	24.6	20.0	19.7	19.6
Packer Pressure (ps	si).	***************************************			,			
oumping Rate (gpm	) Q=1_	+=16 1	U= 5.	DO (mg/L)				:
Evacuation Method	Ro	dr-floo		ORP (mV)				
Sampling Method	3	$\omega \psi$		Turbidity (NTU)				15
Purge Time		4:33 End	14:48	Time		i,		
				DTW (ft bmp)	14:33	14:38	14:43	19:48
Remarks:			·		······································			
بسنه								•
Parameter CS	>c .	Conta	iiner	No.			Preservative	,
·								
ID Reading								
ial./Ft. 1 ^{1/4} " = 0.06	/ell Casing Volu 3 2" = 0.1		0.37	4" = 0.65				
1 ^{1/2} H = 0.09	2-1/2" =	0.26 3-1/2" =	0.50	6" = 1.47	,			<del></del>



Project NORTHROP-BRUMMAN)	Project No. N	400140	12.0409	28000	
Site Location BETHPAGE NY		Date	8-130	}	
Well No. GM-2II Replicate No	. NA	Weath	er	DUERC4S	T5°
Sampling Personnel Gw Gany Sampling Tin	ne: Begin			End	
Purge Data	Field Parameters	6			
Measuring Point (describe) 10 Screen	Color	Colorles	colonless	adales	Colorley
Sounded Well Depth (ft bmp)	Odor .	none	none	pone	none
Depth to Water (ft bmp) 35.10	Appearance	clear	clean	Clear	a laar.
Depth to Packer (ft bmp)					
Water Column in Well (ft) 97.00 12.00	0		1V	2V	. 3V
Casing Diameter 4(0.65)	pH (s.u.)	676	8.58	8.87	9,32
Gallons in Well 7.8	Conductivity				
Gallons Purged	(mS/cm) or				
Prior to Sampling 22.5	(µmhos/cm) 1)	176.5	128.7	1254	1217
Pump Intake		- ^			
Setting (ft bmp) 135	Temperature (°C)	193	18,2	18.8	19,2
Packer Pressure (psi)					
Pumping Rate (gpm)	DO (mg/L)				
Evacuation Method dechroated bladder/300 helv	ORP (mV)				
Sampling Method	Turbidity (NTU)				< <u></u> <b>▶</b> 20
Purge Time Begin 2:05 End	Time				
	DTW (ft bmp)				
Remarks: 178-35-92×.43	+75=0	GD PS	7		
5 CAL PAIL		10, -			
Parameter Container	No.			Preservative	:
See COC	<u> </u>			<u></u>	
			•		
PID Reading					
Well Casing Volumes	49 0.05				
<b>Gal./Ft.</b> $1^{1/4}$ = 0.06 2" = 0.16 3" = 0.37 $1^{1/2}$ = 0.09 2-½" = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				



Project	No	RTIROP-	6RUMIN	1An)						
Project Numb	er Nyo		î.00002	Site Location	B	ETHPARE	114	Well IC	6M	-21D
Date		8-12-19		Sampled By		GW	Gan	1 William	~	
Sampling Tim	<del></del>	4:50 F		Recorded By		<u>GW</u>	Gang	W///2a	mz	
Weather	_/5	90NY 7	15°	Coded Replic	ate No.	MI	<u>,                                    </u>			
Instrument Ide										
Water Quality	Meter(s)		<u> </u>			Serial	#			
Casing Materi	al	Pv		Purge	Method		<u> </u>			
Casing Diame		4"		Scree	n Interval (ft	bmp) To _l	' <del></del>		Bottom	288.
Sounded Dept		288	<del></del>		Intake Depth	(ft bmp)	28			
Depth to Wate	er (ft bmp)	40.7	<u> </u>	Purge		Star		<u> </u>	Finish	4:50 P
ſ	<u> </u>	·	r	Field Paramete	r Measureme	nts During Purgl		<del></del>	,	<del></del>
Time	Minutes Elasped	Flow Rate (m⊔min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) ¹⁾	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
3:50				22.5	632	- 12/2	180	10.25		40.76
3:55				21.7	6.09	1229	179	8.08		
4:00				21,2	6.01	124.4	177	7,63		
4:05				21.0	6,13	125.5	176	7.61		
4:10	111111111111111111111111111111111111111			20.9	6,10	1268	175	7,62		40.86
4:15				70.8	6,10	128.9	227	7,65		1-00
4:20				208	5.45	129.0	218	フェフ		
4.25				20.8	5,46	1290	217	771	<u> </u>	<del> </del>
4:30				2018	5.41	1791	214	7,56		-
4:35				20.8	5.3	179.5	211	7,73		
4:40				20,7	5,36	1295	201	7.02		40.77
4.45				2016	5,32	- 129.7	200	7.66	2.4	1011
4,50				2010			200	7700	<u> </u>	
Collected Sam	ple Condition	<i>I</i> .	Color_CDL	DRUSS S	Odo	Nowy	1	Appearance	CIÓNU	<u> </u>
Parameter (	ee 000		Container			No.	<del></del>	Appearance	Preservative	<del></del>
	ee a				•			_		
		<del>-</del>						<del>-</del> -		
PID Reading										
Comments										
-										
				······································			•			
_										
1) Circle one u	nit type									



Project	N	brth reb	G	runman						
Project Num	berN\w <u>149</u> 8-	2.040%	00502	Site Location	Bet	hpage,	NY	Well	io GM->	53772
Date	8-	1809		Sampled By	Gan	11/10/11	ans /	Sunn	y Xu	<u> </u>
Sampling Tir	ne	1370		Recorded By		Si	inin	Xu	<del>/                                    </del>	
Weather	Het.	91°F		Coded Replica	ate No	/A .	· J			~
Instrument lo	·	1								
Water Quality		S	ee Caft	hyat on	109	Serial:	#			
		PV				_	*******	٥ د .	11.100	
Casing Mater			7 ;	Purge	Method		oled11 +00	Charl	b(edela_	f
Casing Diam Sounded Dea		(~ >	) ; 	_ Screer	i Interval (ft bm Intake Depth (fi	(p) Top	-10	) ·	Bottom	1 20
Depth to Wat			24				1271		Finish /	37/0
•	•	1-1-	1	Fleld Parameter				******	FIII311/_	<u>3~(0.</u>
	Minutes	Flow Boto		7		Conductivity	Ī		1	Depth to
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	rmS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water (ft bmp)
12:10.		450		28.7.	5138	66.8	/23	6.23		47.28.
12:18	7	1.		24.1	5.79.	65.2	127	4.94.		
12120.	lo			23,1	5.67	64.5	126	488		47.28
12:78	15			22.5	<b>」、よう、</b>	63.9	128	498		1
12230	7.5			22.2	1,17	63.7	128	5.03		4-), 2)
12.35	77			22.0.	5.58.	63.5	133	5.12.		7-
12:40	30			21.7.	6.00	63.2	132	5.18.		47.27
12145	15			21.7	6.01.	63.2	136.	17.18.		<del>                                     </del>
12150	φo			21.2.	6.05	63.0	135	5.28.	<del></del>	4).38
12155	2,9			2/0"	6.08	62.9	132.	J.≥7.		47.30.
13200	lo			20.9	6.10	629	130	(-,30.		
1305	7,7			90.6	6.14	62.9	127	1.38		
1320	60.	4		20.7	6.18	63.0.	127	\$44		
		· '	<del></del>	/	7 0		12/	<b>3</b> 577		
	<u> </u>		م رسر	<b> </b>					1	]:
Collected Sam	ple Condition	(	Color ( c/c	orles	Odor	hore.	<del></del>	Appearance_	clear.	***************************************
Parameter ∫ee	asc.	(	Container			No.			Preservative	
								_		
		-	· · · · · · · · · · · · · · · · · · ·		-			•		
PID Reading							•			
Comments					•					
								····		·····
						······································				
1) Circle one u	init type						***************************************			



Project		Nonthine	D Gr	Un man	062				C .1	211-
Project Numbe	r XYOO	1692,0409	, coass	Site Location	Beth	page, N	<u>Y.</u>	Well ID	<u>GM-</u>	· 29 D
Date		8/3/	09	Sampled By	Da	Prezz	xx) /5	unny Xi	1	
Sampling Time	•	1708		Recorded By		Sunny	Xil			
Weather	Sùn	m >6	]=	Coded Replica	ate No	NA				
Instrument Ide	ntification	1	1	ı i 1	<b>,</b>					
Water Quality I	Meter(s)	Se	u call	vatron le	T	. Serial #	#			<del></del>
Casing Materia	1	ste	el	0	Method		dedic	atel.	- blade	eler/Low Pl
Casing Diamet	er		211	Screen	ı Interval (ft bm	р) Тор	30	9	Bottom	319
Sounded Depti	ı (ft bmp)		319	Pump	Intake Depth (ff	bmp)				
Depth to Water	(ft bmp)	,2.4	L/	Purge	Time	Start	1600	)\$ 	Finish	1.7005
				Field Parameter	Measurement	During Purgin	g			•
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or ms/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1600	0	350	-	22.5	644	76.4	33	えび	(	12.41.
16:05	7		_	4.7	6.68	79.0.	-2	3,21.		
16-10	10			21.1	7.45.	84.3	-46	2.38.		12,23
16:15	15			20.9	7.97	89,3	-58	>.07.		
16:20	<i>&gt;</i> 0			195	8.49	96.1	-74	1.12		12.41.
16:25	X			18.4	8.78	98.1.	-114	0.42.		
16:30	30			n.7.	9.30	98.0	-177.	0.36		12.2-8
16:35	75			17.2	9.87.	95,6	-213	0.22		
16:40	40			17.5	10.10	98.0	-234	0.20		12,27
1645	7.4			17.1	10.24	102.0	-2 Ks.	0.21		
1600	80		******	17.3	10,20	111,2.	-229.	0129		12.27.
16:55	72_			17.2	10.17	#73	-212.	0.33.		
17:00	<i>₽</i> ,	V	_	17.1	10.14	1185	-197	0.37		12,42
705	65			19.0	9,89	119,8	-148	0.35	9,8	
Collected Sam	ole Condition		Color_ No	ne	Odor	5/2947		Appearance_	Clea	<u>.</u>
Parameter _			Container			No.			Preservative	
Lee	(&	-		<del></del>	_			_		
		- -			<del>.</del>			<del>-</del>		
PID Reading	ORA	Δ	~							
Comments	ΟØ									
- Jimmonto										
•										
•										· · · · · · · · · · · · · · · · · · ·
•										

1) Circle one unit type

# ARCADIS Infrastructure, environment, facilities

Low-Flow	/ Grou	ındwater	Samo	lina	Loa

		North		rumma		いるmpility いユー	y Log			
Project	V.10			· · · · · · · · · · · · · · · · · · ·		<del> </del>	<del></del>		GM-	3402
Project Number	er Na/	492.54 CA	131 (09	Site Location	- (2.1	rge, NY		Well IC Sunne		-102
Date Sampling Time		10	30 ,	Sampled By Recorded By	Pa	t Berne		sunny	<u> </u>	<del></del>
Weather		unm	~ 10 C	Coded Replica	ate No		7 700			
***************************************		)	<del>-/0  =</del>	ooded respires		3			/	
instrument ide	entification	C	11	1						
Water Quality	Meter(s)		a callo	to 1g		_ Serial i				
Casing Materia	al		steel	Purge	Method		mu-al	edicate	od bla	dole/Lowflor
Casing Diame	ter		411	Screer	ı Interval (ft bm	р) Тор	510		Bottom	520
Sounded Dept	h (ft bmp)		520	Pump	Intake Depth (f	t bmp)				
Depth to Wate	r (ft bmp)		<del>1.30.</del>	_ Purge	Time	Start	14:30	<del>,</del>	Finish	f:30.
				Field Parameter	· Measurement	s During Purgin	ng		•	
Time	Minutes	Flow Ra		Temp	pН	Conductivity (umhos or	ORP	DO	Turbidity	Depth to Water
	Elasped	(mL/mir	) Purged	(°C)	(s.u.)	_m <del>S/cm)</del> 1)	(mV)	(mg/L)	(NTU)	(ft bmp)
14:30	0	3/0		24.9	5.47	80.1	102.	1.91.		
14:25	<u>(</u> -			22.9	5.70.	73.7	44	1.46.		
14:48	10			21.9	5.86	71.5	12	0.73		14.29.
14:45	15			20./	6.02	70.1	-17	0.48		
14:10	20			19,2	6.12	68.9	-34	0.42		14,20,
14:55	<b>7</b> \$			18.2	6.13	68.2	-45	0:39		
1500	30			18.5	6.28	67.7	-f2	0,40.		14.19
15:55	沙			18,5	6.27	67.5	-11	0.39		
15ito	ψo			18.6	6.80	66.8	-62	0.38		14.27
15:15	45			19.5	6.45	66.5	-13.	0.43		
15:20	60			197	6.49	69.3	-24	0.95		14.27
15:75	tt			19.9	6.43	72.0	<del>-2</del> /	1.52.		
,5:30.	B			19.4	6.39	71.9	-19	1.64.	<50	14.27
15135	65.	J.		-			,			
Collected Sam	ple Condition		Colorn	one	Odor	Slight	-	Appearance	Cloar.	•
Parameter			Container			No.			Preservative	_
See	<u>(6</u> <								•	
						·		•		
BID Booding	0 0 0	_						•	***	<u></u>
PID Reading	- V GG	<u> </u>	<del></del>							
Comments										
-									***************************************	
				***************************************						<del></del>



Project	N-Grammon ga	Project No.	N40014	192.040	9,0000	2_
Site Location	Bethpace NY		Date	•	8/27/09	
Well No.	M-35D2 Replic	ate No. <u>Rp 08</u> 270	<b>?</b> Weath	ier	clean	80°F
Sampling Personnel	rezorstí samp	ling Time: Begin_	1512	•	End	1521
Purge Data		Field Paramete	ers		ĺ	
Measuring Point (describe)	Toc	Color	dudoss	Colordon	Colodan	Codordon
Sounded Well Depth (ft bmp)	<u> </u>	Odor	NONT	None	None	None
Depth to Water (ft bmp)	38.31	Appearance	clan	lean	Joan	clare
Depth to Packer (ft bmp)	507	<del>}</del>	1			
Water Column in Well (ft)	23		t	1V	2V	3V
Casing Diameter	4" (0.65)	) pH (s.u.)	7.84	8,05	7,54	8.05
Gallons in Well	14.99	Conductivity				
Gallons Purged	XS	(mS/cm) or				<u></u> -
Prior to Sampling	45	(µmhos/cm)	1) 158.5	178.8	121.2	117.6
Pump Intake						_
Setting (ft bmp)		Temperature (°0	c) 15,8	15.4	15,3	170
Packer Pressure (psi)	255	A451.1				
Pumping Rate (gpm)	1430 ml/min 1	1490 DO (mg/L)				
Evacuation Method	retraded pumploat	3 ORP STOPPENT		111	110	# # #
Sampling Method	3 will volume	Turbidity (NTU)				L20
Purge Time Be	gin 1307 End 150	<u>0</u> Time	1307	1350	1431	1510
	•	DTW (ft bmp)	38.40	38,36	38,32	38,33
Remarks:		507-78,31	x. 43 +	50= 25	5 recorded	'. W
		1 = 5 gal conta	Te/ne			<del></del>
	Solrt sample in	hollinge wit	District	CHIMU	oc Villet	Med),
Parameter	Container	Ourged i	with Granima	wellwa	של בילולים איי Preservative	IX. Rite LOWE
See coc				<i>.</i>		- 1
	_ /					
PID Reading Off.	<u>~</u>					
5.471	"= 0.16 3" = 0.37	4" ≥ 0.65				
1 - 0.09 2.	$-\frac{1}{2}$ " = 0.26	0 6" = 1.47				



Project		N-600	mm	002					_	
Project Numbe	or Mygoly	192.0409.001		Site Location	Beth	poze,M		Well ID	GM-	38D
Date	· · · · · · · ·	913/	29	Sampled By		/ /	re Nerce	rt/		
Sampling Time	•	lan 8	52- 00F	Recorded By			20-ski			
Weather		XON DO	<u>0 1 </u>	Coded Replica	ate No.					
Instrument ide	ntification		_	11 1	1.					•
Water Quality I	Meter(s)		Sec.	Colibati	on los	Serial #	<u> </u>	?		······
Casing Materia	ıl		PVC	Purge	Method	,	Dedicated		Low Plo	
Casing Diamet			<u>44</u> 340	<del></del>	Interval (ft bm		32,	2 1	Bottom	340 .
Sounded Depti		3:	,, ,	<del></del>	Intake Depth (ft	•	10.0	<del></del>		250
Depth to Water	(It omp)		***************************************	Purge		Start .	12:50	<u>)                                    </u>	Finish	350 <u>.</u>
· · · · · · · · · · · · · · · · · · ·	<del></del>		T	Field Parameter	1	Conductivity		1		Depth to
Time	Minutes Elasped	Flow Rate (mL/mIn)	Volume Purged	Temp (°C)	pH (s.u.)	(umhas or ms/em) "	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water (ft bmp)
12'150	0	320	<i>/</i>	18.4	6.96	12412	39	3,25	1	
12:55	5		<i>-</i> -	17.3	6.64	124,4	23	1002	ļ	37,59
1300	10	330		16.4	6-45	120.4	((	0.34		
1305	15	İ		163	6.42	120,2	19	0,35		37.57
1310	20	1	<i>~</i>	16,2	6.24	111,8	27	0,30		
1315	25	330	_	15.8	6,22	1010	<i>5</i> 8	0,24		37,57
1320	30	1		15.9	5.67	97.7	78	6,29		
1325	35		_	15,8	5.46	95.4	91	0.31		37.57
1330	40			15.8	534	94,2	100	0,32		
1335	<u> 4</u> 5		_	15.8	5,23	93./	108	0,31		3757
1340	50			15.6	5.17	90,4	117	0/3/		
1345	<u>55</u>			15.6	5.13	89,2	12/	Or32		
1350	<b>6</b> 0	J		15.8	5.13	88.9	122	0,32	4,7	3757
Collected Sam			Color Ch	e Dana	Odor_	Nove			.00	
Parameter ~			Container	<u> </u>	Odor	No.		Appearance	Preservative	<del></del>
ل	ee coc									
•	···									
PID Reading	0 0	pro			. 19	. 4		-		
Comments	* (/		Cold	samle	w.h B.	Stan	1 de	Orthet		
			3/1.		CHIA	Yo me	Amber 1	Ild flet	-Hr( 1	resevel 1
		. 1			<del>- (-   1) -   -   -   -   -   -   -   -   -   - </del>					<del></del>
•										



Project	<b>~</b>	1- Comm	na our						C40	00-
Project Number	Novi	1-60mm	100-2	Site Location	Bethpy	a, N	<del>/)</del> .	Well ID_	GM-3	<u> </u>
Date		9/3/09	1	Sampled By			Prezoni	ζ. ₁ '		
Sampling Time			17	Recorded By		KV	nort,			
Weather		Cen 8	09	Coded Replicat	e No.	NA	<del></del>			
Instrument Ider Water Quality N		Cee	cal bat	ra luf	**	Serial#	(			
•			<u>-сонолна</u> ГС				and cated	Sladde	/ Low Fla	W
Casing Materia		<u> </u>	yu	Purge N	netriou Interval (ft bmp		V75		Bottom 49	75
Casing Diamete Sounded Depth			195	-	ntake Depth (ft	· -				
Depth to Water		ų,	9.95	- Purge 1		Start_	1405		Finish 1.	505
•				Field Parameter	Measurements		)			
Time	Minutes Elasped	Flow Rate (m⊔min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or m5/om) 11	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1405	0	320		20,7	5,4/	118.4	109	8,50		
1410	5			18.6	6.04	1347	74	5,27	1	40,92
1415	10			18.1	6.17	- 135,0	72	5,32		
1420	15			17,7	6,27	133,9	70	557		40.90
1425	20			TA.S	636	132,5	69	577		
1430	25			17,4	6.46	127./	7-3	5.76		40,91
1435	30			17.4	6.45	125,2	73	5.55		
1440	35			17.3	6.45	120.9	78	5.44		40,91
1445	40			17.3	6.34	117,4	89	5,23		
1450	45			17.3	6,37	117,3	91	5.34		40,91
1455	50			1713	6.25	118.9	105	5.02		
1500	55			17,3	623	120,6	103	4.78		40.93
1505	(o.t.	<i>\mathcal{J}</i>		17,3	6.22	122.5	102	4,52	620	
					<u> </u>	000		<u> </u>	.6	
Collected Sam	ple Condition		Color Ca	labor	Odor_	None		Appearance_	Preservative	<del></del>
Parameter See	coc	_	Container		<del></del>	No.		_		
		_			-			<b>_</b>		
PID Reading	() On	<b></b> <b>~</b> ¬			-			-		
			<u> </u>	H cons	habs	Lettor.	a Weste	Dishe	e f	
Comments			P'	· j sampe	CHIM	Youl Am	Ja Usa	h filler	1-HILM	esened)
		·				(****				



Infrastructure, environment, facilities

Project	No	RTHROP.	GRUMA	MAN Site Location Bethrage, NT Well ID 6M-39A (B								
Project Numbe	r 1/00/	492.0409	0002		Beth	page, 1	V I	Well ID	6M-35	A (G/		
Date	· <u> </u>	-11-09'	·····	Sampled By	Go		ams					
Sampling Time		3 = 20 pm	<u> </u>	Recorded By	<u> </u>	ram will	jams	···				
Weather	·			Coded Replica	ate No.	/NA	<del></del>					
instrument ide	ntification			÷								
Water Quality I	Vieter(s)					Serial #				^		
Casing Materia	ıl	pv	<u> </u>	Purge	Method			icarfeel	blada Bottom	ler.		
Casing Diamet	er	4		Scree	n Interval (ft br	пр) Тор	262	-	Bottom	282		
Sounded Dept	h (ft bmp)	2-8		Pump	Intake Depth (f	t bmp)	272	<u> </u>				
Depth to Wate	r (ft bmp)	360	<u> </u>	_ Purge	Time	Start	2:20	pm	Finish	3:20 pm		
				Field Paramete	r Measurement	s During Purgin	9		T			
Time	Minutes	Flow Rate	Volume	Temp	pН	Conductivity (umhos or	ORP	DO	Turbidity	Depth to Water		
Time	Elasped	(mL/min)	Purged	(°C)	(s.u.)	mS/cm) 1)	(mV)	(mg/L)	(NTU)	(ft bmp)		
2:20				26,7	5.57	118.0	206	17,36		36,35		
2:25				22,3	5,48	1196	555	11.90				
7,130			-	216	5.48	119,5	225	11,98				
2:35				21.5	651	119.8	224	12,69		36,35		
2:40				21.4	5,50	119,6	226	12.53				
2:45				21,3	5.50	1202	228_	12,27				
2:50				21,3	5.50	120.2	229	12.26				
2:58				21,2	-5.50	120,5	230	2.38				
3:00			:	242	5.48	120,8	23/	12.55	,			
3:05				21,2	548	121.0	233	1284		36.36		
3:10			-	21,2	5,49	121.0	234	12.52	1			
3:15				212	5.49	121.7	Z3Z_	12,67				
3:70				242	5,49	1219	234	12.44	4,5	36,3		
					<u> </u>				0.0544			
Collected San	ple Condition		Color Col	હત્ટાહિંગ ડ	Odor	DONE	<del></del>	Appearance_	CWY1			
Parameter See	WC		Container			No.		_	Preservative			
		- -			<del></del>			-		<del>, , , , , , , , , , , , , , , , , , , </del>		
PID Reading		_			<del></del>			-		<del></del>		
1 10 Reading			<del>.</del>									
Comments										**************************************		
		*****						···				



Infrastructi	ure, environ	ment, facilit	ties							
	٨ ٤ م.	millar			undwater	Sampling	Log			
Project		RTHROP-				1011		144-1115	GM 3	390B
Project Numbe	r NYO	01492.04	09.00002		_2	27 47 40	EN 1	Well ID	<u> prc -</u>	2000
Date		4/-09	<del></del>	Sampled By		5w				······
Sampling Time		4:35 PM	\ 	Recorded By		<u> </u>		······		
Weather	80	MCAST	<u>25°</u>	Coded Replica	ite No	<u> </u>				
nstrument lde	ntification					0				
Water Quality	Meter(s)					_ Serial #				
Casing Materia	al	70	<u> </u>		Method		<i>š</i> 10			^
Casing Diame	ter		_!!		n Interval (ft bm				3ottom 42	<i>, , , , , , , , , ,</i>
Sounded Dept	h (ft bmp)		2	<del>-</del>	Intake Depth (fi		415			4235 pm.
Depth to Wate	r (ft bmp)	3910	<u> </u>	_ Purge	Time	Start	3:35	)m	Finish	Tras pri
				Field Paramete	r Measurement	s During Purgin	g	1		Depth to
Time	Minutes Elasped	Flow Rate (m⊔/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water (ft bmp)
3:35				23.5	5.29	1/23	243	11.88		39,20
3:40				21,7	5.30	118.7	242	11.24		
3:45				21.9	5.33	118:2	243	12,19		
3:50				21.0	5.23	1187	256	12.36		
3:55				260	5.21	IRIZ_	268	17.22		39.32
4:00				20.8	5,20	119.4	264	11,93		
4:05				20.8	5,18	119,7	263	12.46		
4:10				20.9	5,20	119.3	265	1255	1	
4:15				20.9	5,20	1196	265	12,30		
4:20				20.9	5.20	119.4	267	12.60		39,23
4:25				2018	5,18	119,5	267	12.21		
4:30				20,9	5.20	119.4	266	12.54		
4:35		,		209	5.20	119.7	267	12,52	7.7	39,24
0.11.4.4.0	t - Constition		Color_CDU	DN 1525	Odor	Nowis		Appearance_	CLEM	<u> </u>
Parameter	nple Condition		Container		ouot,	No.			Preservative	
<u>Ce</u>	e cx	<del>-</del>						•••		
		 			<del></del>			-		
PID Reading	RATIONE	NG	_							-
Comments			·····	·······		<u></u>	······································			

¹⁾ Circle one unit type



Project	N	DATHAM	- ORUM	MAN					,		
Project Numbe	r Nu	601492.0	40A-0002	Site Location	Berl	hpage.	NY	Well ID	6m-	73p	
Date		3-11-09	<del></del>	Sampled By	6	£0 0	Gary	W11/7asa	à í		
Sampling Time		2/0 pr		Recorded By	G	$\omega$	Gary	67/17ce	uj.		
Weather	Ci	ovsy B	80	Coded Replica	ate No.	MA					
nstrument Ide	ntification										
Water Quality I	Meter(s)					_ Serial #	~~~			·····	
Casing Materia	ai	PVC	-	Purge	Method		Ded10 40 40	refeel !	bladde Bottom_	ir.	
Casing Diamet	er	4	<i>"</i>	Screen	ı Interval (ft bm	р) Тор	40	1	Bottom	411	
Sounded Dept	h (ft bmp)	41	<u> </u>	Pump	intake Depth (fi	t bmp)	40	<u>6</u>	<u> </u>	<u> </u>	
Depth to Water	r (ft bmp)	415	1	Purge	Time	Start		pm	Finish	1210 pm.	
				Field Parameter	r Measurement	<del></del>	g	•	,		,
Time	Minutes Elasped	Flow Rate (m⊔min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	
12:10				266	5,03	130,4	238	9:02		41.18	Ś
12:15				26.5	504	130,4	240	9,28			
12:20				25.3	5,01	15045	243	956			
12:25				246	5,04	15ms	248	1023			
(2:30				246	5.07	.15	254	10.83			
12:35				247	504	. Bas	7.52	@b.6	2	41.56	
12:40				247	5.07	0.15	255	10.68	,		
12:45				248	5,07	0.15	256	10159		-	
12:50				24.9	5.07	0.15	257	1018	:	41,59	
12:55			<u> </u>	249	518	0.15	259	10.81			
1,00				24.7	5.04	1349	265	11:42			
1:05			<del> </del>	24,2	5,05	135,2	259	10,72			
1:10				247	5,06		262		3,2	41.65	
<i>V</i>											
Collected Sam	ple Condition	<del></del>	color Colo	okuess	Odor_	NONE		Appearance_	CUMA		'
Parameter Lee	1.57		Container			No.			Preservative		
ree	wc				<b></b>	<del></del>	<del></del>	-		<del></del>	
		•			- -			<u>.</u>			-
PID Reading			_								
Comments											
	•										
											•



Project Project Numbe	or N 100140	12,0409	of-GRUM	Site Location	_&	THPAGE		Well ID	GM-	730-2
Date		11-09		Sampled By		(Fix)				
Sampling Time		//: <u>វ</u>		Recorded By		······································				
Weather			##-L	Coded Replica	ate No.		<del></del>			
Instrument Ide	ntification									
Water Quality	Meter(s)					_ Serial #		. ^		
Casing Materia	al	PVC		Purge	Method		aledi	ated 2	bladole Bottom	2~.
Casing Diamet		4"		_	ı interval (ft bm			<u> </u>	Bottom	77.5
Sounded Dept		<u>tt</u> :		-	Intake Depth (f			<u>-</u>	-	11.5 %
Depth to Wate	r (ft bmp)	40.		_ Purge		Start		······	Finish	11:35
	· · · · · · · · · · · · · · · · · · ·	<del></del>	<del>Ţ</del>	Field Parameter	r Measurement	s During Purgin	g	T	1	T
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 13	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
10:35		450		26.0	491		209	8.60		40.67
10:40				24.9	4,91		204	8.35		
10:15		,	-	24.8	4.67	155,8	204	7.45		
10:50				24.5	4,59	1581	216	7.59		4053
10:53				24.3	4.57	15A6	223	8:70		
llion				246	4,52	157.7	236	9.24		
11:05				24.5	4.52	1575	241	10,27		
(/2/0				243	4,54	157.0	247	10.83		40.66
Wels				24.1	4.53	1575	243	987	10.14	
11:20				24.0	4,59	1566	244	8.90		
11:25				23.7	4,66	157.0	247	8.08		
11:30				23.7	4,68	157,3	247	8,24		
11:35				23.7	4,17	158,3	250	8,30	3,4	40,63
Collected Sam	ple Condition		Color CDL	druess	Odor_	NDWE		Appearance	CLEAN	
Parameter See	OC	_	Container			No.			Preservative	
		-						-		
PID Reading	·	-		······································	-	<del>*</del>		_	• • • • • • • • • • • • • • • • • • • •	<del></del>
- 1D Keading			<del>-</del>							
Comments							,	· · · · · · · · · · · · · · · · · · ·		
,			<del>.</del>	<del> </del>						
			<del></del>							
			······································	· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·



Project	Ŋ	DRAHRO	-6RDA	umAw					4	A
Project Numbe	r Nusc	1492.840	9.00002	Site Location	BI	THRACK	<del>,</del>	Well ID	6M-	745
Date		3-10-0		Sampled By		Gary L		∡ <b>√</b>		1
Sampling Time		37 00 pm	\	Recorded By		Garl	Willia	ng		
Weather	***************************************			Coded Replic	ate No.	NA				
Instrument Ide	atification		. *							
Water Quality					·	_ Serial :	#			
Casing Materia	ſ	<u> </u>	C	Purge	Method		delica	rfeel b	ladoles	·.
Casing Diamet	er	4	_ '/	Scree	n Interval (ft bm	р) Тор	94	<u> </u>	Bottom	114
Sounded Depth	(ft bmp)		4	Pump	Intake Depth (ft	t bmp)		04	****	
Depth to Water	(ft bmp)	<u> </u>	65	Purge	Time	Start	<u> </u>	pm	Finish 3	szou pm
				Field Paramete	r Measurement	s During Purgin	g			
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
2:15		450		26,4	6.33	112.6	79	8.80		3765
2:20				25,6	6.54	111,6	78	8.50		
2:25				25,1	6.52	1)0,5	86	9.03		
2:30				21.6	6,63	109,6	9	10.01		
2:35				24.0	689	189	110	9.80		-
2:40				23.8	6.98	107,2	114	9,90		37.71
2:45				23.8	699	106,6	N/S	10.15		
2:50				238	7.07	1069	123	1079		37.68
2:55				23.7	7,08	106.4	iA	11.77		
3:00				23.7	7,08	106.6	119	11.69	2.8	37,68
				-				<b>4 1</b> 5 <b>X</b>		
		r·								
Collected Samp	le Condition		Color_ DL	OCUPS:	Odor	NDN		Appearance	lega	
arameter	ac		Container			No.			Preservative	
					· .			-		
ID Reading	<del> </del>		<del></del>	<del>.</del> .	,					
- Comments	<del></del>									
_		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	· · · ·			
_					·····					·····
•••	1							<del>~</del>		<del></del>
		***************************************				***************************************	<del></del>		····	



Project Numbe Date Sampling Time Veather	<u>1400)</u> -8-	THROP- 492.040 -10-09 4-10 pm	7. 00W Z	Recorded By  Gay William  Coded Replicate No.  MA				Well ID	_	-74C
nstrument Ide Vater Quality I		Cos	Caliba	nafzn	Least	Serial :	¥			
Casing Materia	• • • •				Method	-		feel bla	dolor.	
Casing Diamet		PVC 4	11	_	Interval (ft bm	р) Тор	dedico 295 300			205
Sounded Dept			-	 Pump	Intake Depth (ft	bmp)	300			
Depth to Water	(ft bmp)	42:	7.6	Purge	Time	Start	3:10	pm	Finish	4210 pm
		<b>1</b>		Field Parameter	r Measurements	<del>,</del>	g	T	T	<del>.</del>
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
340				30.3	7.04	107,1	128	15,14		42,76
3:15				28.4	7.03	1056	165	160		
31,20										
3125	····									
3:30										
3:35										
3140				25.2	7,03		216	2137	X-	
3,45				25.4	7.00		210	29.85		4280
3:50				24.8	691		210	34.75		
758				24.7	1		210	34,83		
4:00				24,5	6.89		215	35.73		
4:01				B 246	485		215	35.26		4282
				200	107		221	36,4	3,4	140
4:10				21.3	6101		2	0014	3,4	
Collected Sam	ple Condition		ColorC	BLESS	Odor	MO NO.	<u></u>	Appearance	CCAr Preservative	1
PID Reading			$\Omega_{0}$							
Comments	<u></u>	<del>(</del> ()	U Y10	BG N	of w	O RECEIPTION	CORE	dy		
			<del> </del>			····		T	·	



Project	<u> </u>	RTHROP	Chumi	MAN	<u> </u>	etherso	<del></del>		۸. ۵	400
Project Numbe			1.00000	-Site Location	<u></u>			Well ID ۱۱۰۰ کی د	6M.7	711-6
Date		0.09	<del></del>	Sampled By		ed)	'Ga			
Sampling Time	·	ist pr	1	Recorded By		<u> 500                                  </u>	Gai	4 127/12	ans	
Weather	<del> </del>			Coded Replica	ate No.	$\Delta A \cdot$		J		
Instrument Ide	ntification									
Water Quality I	Meter(s)			м		Serial i	#		,	
Casing Materia	ıl	<u> </u>	ie	Purge	Method					
Casing Diamet	er	4	, ,	Scree	ı İnterval (ft bm	ір) Тор	<u> 742</u>		Bottom	62
Sounded Depti	n (ft bmp)	<u> -6</u>	2	Pump	Intake Depth (f	t bmp)	<u> </u>	•		
Depth to Water	(ft bmp)			Purge	Time	Start	495	pm	Finish	:Ifpm.
				- Field Paramete	r Measurement	s During Purgin	•	<del>7</del>	***************************************	
	Minutes	Flow Rate	Volume	Temp	pН	Conductivity	ORP	DO	Turbidity	Depth to
Time	Elasped	(mL/min)	Purged	(°C)	(s.u.)	(umhos or mS/cm) 1)	(mV)	(mg/L)	(NTU)	Water (ft bmp)
4115				305			192			
4:30				24.6	6,94	94,5		203		
4:35				24.3	6.94	984	236	3.11		
4:40		~-		24.3	6.94	45,8	Z34	3.23		
4:45				24.1	691	95,8	232	3.48		
4:50				24,0	6.83	93,0	235	3.80		49.17
4:55				24.0	6.83	90,4	239	3.96		
5:00				240	6.78	89.4	289	3.78		
5:05				23.7	6.87	89.7	242	3.44		
5:10				23,4	6.84	29,7	252	3.85		
5:15				23.9	6,83	895	249	3.92	1.8	4936
								,		
Collected Samp	ole Condition		Color (D)	DORLESS	Odor	NONE		Appearance_	CLEMA	
Parameter			Container			No.		· · · ppoor · · · · · · · · · · · · · · · · · ·	Preservative	
	<del></del>				,			-		····
								-		
PID Reading								-	<del></del>	
Comments										
_	Rs	CALTBRA	HED OS	D. MET	હ્યું					
_					~					
_										
1) Circle one ur	nit type						<del>,</del>			ę.



Project		N-Groun	er 002				****************		<i></i>	
Project Numbe	r <u>N</u> Y	001492,0	409.00002	Site Location		chare, 1	<u>//</u>	Well ID	6M-5	15D2
Date		9/2110	9	Sampled By		Wille	sans 18	Eznoski		<u>, , ,</u>
Sampling Time		14	03	Recorded By		Prezo	nt,	**		
Weather		90°F J	en_	Coded Replica	ite No.		<u> </u>			
Instrument Ide	ntification						,			
Water Quality I	Meter(s)	<del></del>	et ca	libration	log	Serial #			,	
Casing Materia	ī	(	DVC	Purge	Method		Dedreded	Bladder	LowHow	, 
Casing Diamet	er		4"	-	ı Interval (ft bm)		<u> </u>	05_	Bottom	525
Sounded Depti	ı (ft bmp)	525	\/	- '	intake Depth (ft		1 12 10 10			
Depth to Water	(ft bmp)		<u>3.59</u>	Purge	Time	Start	1300	<del></del>	Finish	1400
			,	Field Parameter	Measurements		g		<b>,</b> ,	
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/em) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1300	0	380		28.2	5.67	68.9	498	5.70		
1305	5		-	24,9	5.2Ce	78.3	116	4,91		33,55
1310	lo			24,2	5.26	80.8	८७०	5.92	<b></b>	
1315	15			23.9	5,25	83.1	74	6.34		33.22
(320	20			235	5.18	90,9	56	5,59		
1325	25			23.5	5,20	92.5	54	5.86		33,55
1330	30			23.5	5.18	95,4	55	6.54		
1335	35		~·	23,4	5,15	96,9	57	5,72		33.55
1340	40			28,3	5.14	97.6	59	5,14		
1345	45			23,4	5,14	98.1	62	5.05		33,55
1350	50			23,4	5.06	99.6	60	5.70		
13.55	55			23,4	5.09	100,3	66	6.62	6-	33.55
1400	60			23.4	5.01	101.1	67	6.53	4.1	
								1		
Collected Sam	ple Condition		Color_ Co	olodon	Odor_	NONE		Appearance	رائ	<u> </u>
Parameter (	e coc		Container			No.			Preservative	
	<u> </u>	<del>-</del> -			<del>.</del>			- -		
					-			••		
PID Reading			-							
Comments		New	bladd	· int	alled o	on purp	2			<del></del>
				····	1270					
				<del></del>						



Project Northrop	Emmon	Project No	M/0014	92.040	1900m2	
Site Location Bethpe	y, N		_ Date _	8-	17-09	·
Well No	7 § . S Replicate No	- <u> </u>	Weathe	er FE	07 )	<u></u>
Sampling Personnel Coy Will	Parks / Sur Sampling Tin	ne: Begin	1:6749	· ·	End	16:12
Purge Data		Field Parameters	S		10 4 ( )	
Measuring Point (describe)	Toc	Color	Colodoss		Colorley	Colorles
Sounded Well Depth (ft bmp)	<b>3</b> 0	Odor	none	1550	no	nono
Depth to Water (ft bmp).	28.49	Appearance	Cloar	Cloa.	don	Cloca
Depth to Packer (ft bmp)						
Water Column in Well (ft)	31.5			1V	2V	3V
Casing Diameter	4(0.65)	pH (s.u.)	6.38	6.05	6,02	6.06.
Gallons in Well	20,55	Conductivity				
Gallons Purged	X	( <del>mS/cm) o</del> r				, _ 2
Prior to Sampling	65	(µmhos/cm) 1)	126.2.	129.0	126,/.	123,7
Pump Intake				<i>(</i> * <i>(</i> *		· • • • • • • • • • • • • • • • • • • •
Setting (ft bmp)	<u></u>	Temperature (°C	) 21.	16.5	16.6.	<u>/1./</u>
Packer Pressure (psi)					•	
Pumping Rate (gpm)	=1x5 t=41 IV=14	DO (mg/L)				
	edi-flow	ORP (mV)				
Sampling Method 3w0	1 low-flow grad	Turbidity (NTU)	7.5:	/2 /		7:2
Purge Time Begin	16207 End 16249	Time				£ 1.01
•		DTW (ft bmp)	16:07	16=21	16:35	16:49
			·			
Remarks:		,				
**************************************						
Parameter See COC	Container	No.	· Continue	, .	Preservative	•
PID Reading	,					
	/olumes = 0.16	4" = 0.65 6" = 1.47				
4						



		c 1/2	•	- IOW GIO	anawater	Gamping	Log			
Project		Conthur		whom	Dast	treac	118		C11	7 C- T
Project Number			aru L	Site Location	Ber	July 1	$\frac{N}{1}$	Well ID Swany	<u>an</u>	75-1
Date	<del></del>	17:09	<u>.</u>	Sampled By	Citin	7 5271	carry	Strong	A.4.,	
Sampling Time	e	12: 81		Recorded By		1/4	my X-	2		
Weather	. —		236	Coded Replica	ite No.	/4/1 .				
Instrument ide	entification	-, ;	70 /-							
Water Quality		<u> See</u>	Calibra	after st	004	Serial #	#			
Casing Materia	ai	Pu	/C	Purge	Method	Pe	di-ftv	w,		
Casing Diamet	ter	4	/ <u>C</u> 	Screen	interval (ft bm	р) Тор	190	)	Bottom	110
Sounded Dept	h (ft bmp)	11	0.	Pump i	ntake Depth (ft	bmp)	10	<i>D</i>	-	<u></u>
Depth to Wate	r (ft bmp)	380	77	Purge	Time	Start	15:0	ง	Finish	15:45
		_		Field Parameter	Measurements	s During Purgin	g			
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water
10.0	Liaspea		Targea			ms/cm)-11			(11.0)	(ft bmp)
1500		450		7).6	6.35.	/ State State	182	10.23		38,77
15:06	5		<u> </u>	17.6	6.11	102.3	161;	6.49.		
15:10	10			22.4	5,78	105,1	15-6	5.49		38.77
15:15	15			22.5	1.98	(05.)	158	5.99		
15:22	7√2			23.0	(199	105.5	158	6.28.		38,72
15:25	VS			22.2	F.99	106.2.	15-9	6.69		
15:30	30			21.7	6.00	107.0	160.	6.88		38,77,
26-351	)2			2/.0	6.02	106.9	161	6.75		
15:40	40			20.9	6.03	106.8	162	6.67		38,77.
15:45	4.5	V		213	6.03	126.8	164	6.72.	2.2	
					X			X		
		***************************************								,
Collected Sam	nle Condition	<u> </u>	Color Co	logless	Odor_	Mons		Appearance_	cleon	
Parameter	pro comunici		Container			No.			Preservative	
rarameter .	COC.		Container			110.			11030,174470	
								-		
***************************************								-		
PID Reading			<del>-</del>							
Comments		•			•					
•										
•										
•				<del></del>	<del></del>		<del></del>			
1) Circle one u	mit type									

# **ARCADIS**

Infrastructure, environment, facilities

	-	ı	Ļov	v-Flow Gro	oundwate	r Samplin	g Log			- 4
Project	٨	lor throp	, Gr	1/chmay	ou	- > .			GA	1-791
Project Numb	er 1/2014	92.0424	.0002	Site Location	Be	though,	74	/ Well I	D MA GIA	747
Date	_8	- 17-0	9	Sampled By	Ca	ary w	1/2ams	/ Sum	ny Xu	-40 c
Sampling Time	e	13-03	1	Recorded By		Sun	y Xú			·
Weather	H5-1	· 90°	°F	Coded Replic	ate No.	MA.				
Instrument Ide	entification									
Water Quality	Meter(s)	- 90	e (afil	breiting,	Lest	Serial				
Casing Materia	ai		UC. 4" . 0 .	Purge	Method		dod	appel	bladde Bottom /	_
Casing Diamet	ter		4"	Scree	n Interval (ft bm	р) Тор	<u> 77</u>	2	Bottom /	کہ
Sounded Dept	h (ft bmp)			Pump	Intake Depth (fi	t bmp)				
Depth to Water	r (ft bmp)	_38.	25.	Purge	Time	Start	123/	8	Finish <u>/</u> 글	103
·····	·	· ·		Field Paramete	Measurement	· · · · · · · · · · · · · · · · · · ·	ıg	~~~		
Time	Minutes	Flow Rate	Volume	Temp	Hq	Conductivity	ORP	DO	Turbidity	Depth to Water
	Elasped	(mL/min)	Purged	(°C)	(s.u.)	mS/cm) 1)	(mV)	(mg/L)	(NTU)	(ft bmp)
18:18.		450		24	5.75	73.2	169	26.		38.35
12:34.	5			21.5	5.34.	69.5	164			
12:28	10			19.8.	t.39	68.2.	165			38.27.
度:33	12			17.8	(.39	68.4	172			
12:38	20			19,8.	t. 37	68.6	192			38,2A,
12:43	K			19.7	5.37	68.0.	194			
12748	३०			19.4	5,39	67.5	196			38,28
12:53	35			19.6	5.39	67.4	201			
12158	40			181	35R	67.3	204	-		38.37.
1303	45	$\bigvee$		18.1	5.36	676	208		4.9	
-							V		1	
					-					
					···········					
Collected Samp	ale Condition		Color_ Col	lar Ceus	Odor	none		Appearance	- laan	
Parameter			Container		_	No.		whheel suce	Preservative	
Coe	COC		-		-			_		
	<u> </u>				•			-		· · · · · · · · · · · · · · · · · · ·
PID Reading	·				•			-		· · · · · · · · · · · · · · · · · · ·
			-		_					
Comments _		<del></del>	<del></del>		· · · · · · · · · · · · · · · · · · ·					
_							,		· · · · · · · · · · · · · · · · · · ·	<del></del>
_						······································				
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Project	λ	Conthrop	Enem	v-riow Gr man	Junuwate	ι σαιπριπί	g Log			
Project Number	er N no issue	12.0×29.		Site Location	Reth	page, 1	47.	li HaW.	, GM.	-79 D.
Date	- 77 <u>- 77-</u>	17-09		Sampled By	6	Jany 1-)	1/1000			
Sampling Time	e A		02/2	Recorded By		Cui	11 16		eny X	
Weather		14:20	<del></del>	Coded Replic	ata No		my Xu	····		<del></del>
· · · · · · · · · · · · · · · · · · ·		<u> </u>	<del></del>	Coded Replic	ate NO.	- /V/T				
Instrument Ide	ntification	,								
Water Quality	Meter(s)	See	catibro	from sto	rot	_ Serial	#	·		
Casing Materia	ai		puc	Purge	Method		Posterior	-Hon-oli	edicate.	bladde
Casing Diamet	ter		40°	Screen	n Interval (ft bm	р) Тор	28	>	Bottom	290
Sounded Dept	h (ft bmp)	2	90	Pump	Intake Depth (f	t bmp)	285	<del></del>		
Depth to Water	r (ft bmp)	39.8	38.	Purge	Time	Start	1377	ت	Finish /	ديد د ٧
				Field Parameter	r Measurement	s During Purgin	ıg	<del></del>	***************************************	
<b>T</b> !	Minutes	Flow Rate	Volume	Temp	рН	Conductivity	ORP	ро	Turbidity	Depth to
Time	Elasped	(mL/min)	Purged	(°C)	(s.u.)	mS/cm) 1)	(mV)	(mg/L)	(NTU)	Water (ft bmp)
13:20.		450		26.3	5.88	78.6	176	7.42		39.88
13:25	ŗ			25.8	5,42	75.5	192	6.3K.		
13:30	1.5			25,5	5, 35.	736	205	\$17.		39,83
13:35	15			203	5,27	72,3.	216	413		//-
13:40	20			25.2	5,75	7/.7	722	3.97		39.84.
13:45	25			24.8	5,23	70.4.	227	409		
13:50	30			24.8	5/22	70,0	೨೪೦	431		39,84.
13:55	35			24.6	522	69.5	234	4.54		
14:00	40			24.4	6,20 -	69.2	<u> 236.</u>	4.76		39.84.
14:05	14			243	5,20.	68.7	<b>≥</b> 36	4.86		
14:10	12			241	(,20.	68.3	239	4.80.		39,82
14:45	T		ľ	23.7	5,20.	67.9	241	4.88		
14,20.	60.	V		234	£.20	67.5	243	4.91	<i>₹.)</i>	39.82
						<b>U</b> / ( –				7.0
ollected Samp	le Condition		Color /2/0	rless	Odor	hore		Appearance (	cloar	<u> </u>
arameter			Container			No.			74	
<u> </u>	00C		Volitainei			NO.			Preservative	
ID Reading					•					*** * * * * * * * * * * * * * * * * * *
omments			•							
									·····	
	· · · · · · · · · · · · · · · · · · ·									
_										
Circle one un	iit type									



Project N-Grum	mon 042	Project No	N	001492,0	409.60002	<u></u>
Site Location Beth	accord		Date _	8/	3169	
Well No. MW-	Replicate N	o. <u>NA</u>	Weathe	er Pa	thy cloudy	- 76°F
Sampling Personnel X	Prezorti Sampling Ti	ime: Begin /	8113		End	18:11
Purge Data		Field Parameters	į			
Measuring Point (describe) Sounded Well Depth (ft bmp)	<u>Toc</u> 58	Color Co	None	Colodon	Colorless	Colaley
Depth to Water (ft bmp)	42.02	Appearance	Dea	clear.	clear	c.lor.
Depth to Packer (ft bmp) Water Column in Well (ft)	15.98	,	1	1v 8.8%	<b>2V</b>	3V
Casing Diameter Gallons in Well Gallons Purged	10.4 X3	Conductivity (m&rcm) or	9,22	10 2.X	8.56.	8.30
Prior to Sampling	32	(µmhos/em) 1)	LOUL	700%	/02.0	104,9
Pump Intake Setting (ft bmp)	Mrd-screen	Temperature (°C)	15.4	15.1	15.	<u>/J./</u>
Packer Pressure (psi)						
Pumping Rate (gpm)  Evacuation Method	Redollow Purp	DO (mg/L) ORP (mV)				
Sampling Method	3 well volume	Turbidity (NTU)	<6.	< (-0	8,2	5:1
Purge Time Begi	n 1455 End 18:13	Time  DTW (ft bmp)  + = 3216	1755	<u> [80]</u>	1807	1813
Remarks:	7 - 2		7 V =	<u> </u>		
Parameter Sec Coc	Container	No.			Preservative	
PID Reading Opp	^					
	Volumes = 0.16	6" = 1.47				

# **ARCADIS**

Infrastructure, environment, facilities

Page ____ of ___

Project Nathrop	Grumman 24-2	Project No.	NY 00 1492.	0409,000	72-	
Site Location HY00	1492.0409.0002	3ethpozeNY	_ Date		8/31/	<del></del>
Well No. MW-3		. <u>NA</u>	Weath	er (	Partly cloudy	76°F
Sampling Personnel Prepost	Sampling Tir	ne: Begin	1859		End	1902
Purge Data		Field Parameter		,		<i>-</i> :
Measuring Point (describe)	Toc	Color C	olulon	colum	Colorles	(0/2/02
Sounded Well Depth (ft bmp)	59	Odor	None	Nind	hore	hone
Depth to Water (ft bmp)	12.02	Appearance	Oan	Jan	clem	clear
Depth to Packer (ft bmp)						
Water Column in Well (ft)	yth 16.98		l	1V	2V	3V
Casing Diameter	y11 (0,65)	pH (s.u.)	701	7.14	7.15	7.10
Gallons in Well		Conductivity			L. Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Con	
Gallons Purged	×3	(mS/cm) or				. , ,
Prior to Sampling	33	(µmhos/cm) 1	17/7	1721/	1,70.0	167.5
Pump Intake						,
Setting (ft bmp)	Mid screen	Temperature (°C	1415	14,3	14.3	14.3
Packer Pressure (psi)						
Pumping Rate (gpm)	2	DO (mg/L)				
Evacuation Method	Red How Pump	ORP (mV)				
Sampling Method	3 well volume	Turbidity (NTU)		10	13	10
Purge Time Begin	1841 End 18:59	Time	1841	1847	- 1853	1859
	(	DTW (ft bmp)				
Remarks:	0=2 t	=16.5	10=	6		
Parameter See COC	Container	No.			Preservative	<b>&gt;</b>
	400000000000000000000000000000000000000					
PID Reading Oppor			MV-	26F		
Well Casing Vo <b>Gal./Ft.</b> $1^{1/4}$ = 0.06 2" = $1^{1/2}$ = 0.09 2- $\frac{1}{2}$ "		4" = 0.65 6" = 1.47				



Project V-G	umman OUZ	Project No		14001492	2,0409,00	500 2
Site Location Reth	ere NY		Date		8/25/00	1
Well No.	-03 Replicate No	o. NA	Weath	ner	Partly cloud	y 350/-
Sampling Personnel <b>ReZor</b>	Sampling Ti	me: Begin <u>/ /</u>	125	_ 	End /	1/28
Purge Data		Field Parameters	at 1	Light	Logh	Light
Measuring Point (describe)	TOC		Som	BOWN	Brown	
Sounded Well Depth (ft bmp)	64	0001 7	SENR	None	NONE	Slight
Depth to Water (ft bmp)	53,27	Appearance +	rpsy	turbid	torke	Tropid
Depth to Packer (ft bmp)				}		
Water Column in Well (ft)	10,73	_		1V	2V	3V
Casing Diameter	211 (0,16)	pH (s.u.)	-60	6.51	6.59	G.54
Gallons in Well	1,72	Conductivity				
Gallons Purged	¥3	(mS/cm) or				-
Prior to Sampling	<u> </u>	(µmhos/cm) 1)	446	339	309	192,0
Pump Intake	•		•			Parameter and
Setting (ft bmp)	Aprox 5'-6' of bottom	Temperature (°C)	18.5	16.3	15.5	15,3
Packer Pressure (psi)						
Pumping Rate (gpm)	<u>~ .75</u>	DO (mg/L)				
Evacuation Method	Rediston Pump	ORP (mV)		_		
Sampling Method	3 well volume	Turbidity (NTU)				200
Purge Time Begir	1414 End 1428	Time	1414	1418	1421	1423
	( / /	DTW (ft bmp)				
D	Con to 1	I man wh				
Remarks:	Garamoter baced of	A boots con	mc_			
				V		
Parameter See Coc	Container	No.			Preservative	•
J. C.O.				-		
		<del></del>		_	<del></del>	·· ··
PID Reading						
	/ <u>olumes</u> 0.16 3" = 0.37	4" = 0.65	•			
$1^{1/2n} = 0.09 \qquad 2-\frac{1}{2}$	" = 0.26 3-1/2" = 0.50	6" = 1.47				



GATECHNICL\WOLFERT\Technical Forms\2006\lowflowsampforms.xls - Sheet1

		. 1		v-riow Gro	unuwate	r Sampinių	j Log			
Project			-Grummo	W 002					u.f.	211-
Project Number	er	14001493.0409		Site Location	<u></u> £	ethpose,	MY W	Well ID	11/1/2	24工
Date		81257	54	Sampled By		- 9/	rezortiko Prezo	Williams		
Sampling Time			53	Recorded By			W120	st.		
Weather	40	itly cloudy	850F	Coded Replica	ate No	NA				
Instrument Ide	ntification	•								
Water Quality	Meter(s)		ee calib	vation log Serial#			8 Bottom 158			
Casing Materia	al	R	rc	_ Purge	Method		Lowflo	w / Redi	flow Pur	×2
Casing Diamet	ter		40	Screer	ı Interval (ft bm	ір) Тор	148	3	Bottom [	58
Sounded Dept	h (ft bmp)		158	Pump	Intake Depth (f	t bmp)	15	3		
Depth to Water	r (ft bmp)	5	2.83	Purge	Time	Start	1566	<u> </u>	Finish	551
				Field Parameter	Measurement		g	·		ş
Time	Minutes Elasped		Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/em) 11	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
1506	0	1000		21,6	6.00	347	174	610		
15 00	5	1000		19,0	5,75	343	185	5.48		M-sope Strek
1516	10	570	,	19.0	5,59	337	201	4.98		
1521	15	570		19,2	5,59	336	204	4.01		52.56
152Ce	20			212	5.55	194.8	208	4,72		
1531	25			216	5.58	191,4	214	4.90		52.62
1536	30		,	21.0	5.58	1893	217	4,79		
154/	35			20,7	5.56	185,3	221	4.75		52.62
1546	40			20.8	5.54	181.6	222	436		<u></u>
1551	45			21.1	5.54	180.2	225	4,45	9,5	52,63
Collected Sam	ole Conditio	on	color Colo	Non	Odor	NON		Appearance_	Dear	
Parameter	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Container	· · · · · · · · · · · · · · · · · · ·		No.	<del></del>		Preservative	<del></del>
<u> </u>	ee co	<u></u>	***							
PID Reading				-						
	(	ey-ci-i	-							
Comments						<b></b>				<del></del>
•	·····			····						
-							***		··· ··· · · · · · · · · · · · · · · ·	·
-										
1) Circle one u	nit type					ut Í -				
CATECULIO W	MOI EEDTITachail	na) Easmei 2006i Ioudians am	forms vin Charle		é	3/25/09				



Project N-	Grama OUL	Project No. <u>NYo</u>	01492,040	9.00002	
Site Location	BethpageNY	Dat	te <u>4/2</u>	4/09	
Well No.	Replicate N	√ <i>A</i> We	ather	clean	850F
Sampling Personnel Willa	ns Pronsti Sampling T	Fime: Begin 174	3	End	1746
Purge Data		Field Parameters			
Measuring Point (describe) Sounded Well Depth (ft bmp) Depth to Water (ft bmp)	Toc 59 46,50	Color Colorles Odor Nove Appearance Class	Colchen None Clea	idular None Obon	Nave Con
Depth to Packer (ft bmp) Water Column in Well (ft)	12.5	<u> </u>	1V	2V	3V
Casing Diameter Gallons in Well Gallons Purged	<u>44(0.65)</u> <u>8,125</u> *3	pH (s.u.) 5.4// Conductivity (pp8/cm) or	5.37	5,36	5,36
Prior to Sampling Pump Intake	25	(µmhos/cm) 1) 94,8		84.8	83.5 16-0
Setting (ft bmp) Packer Pressure (psi)	= 9 off bottom	Temperature (°C) 18,2	16,3	16.	10-0
Pumping Rate (gpm)  Evacuation Method  Sampling Method	Red How Pung Busell volume	DO (mg/L) ORP (mV) Turbidity (NTU)			a 2.1 5.7
Purge Time Be		Time 715	1724	1733	1742
Remarks:	9=1 +=2	5 lv=9			
Parameter See COC	Container	No.		Preservative	)
PID Reading O	pr		<del></del>		
17)	Volumes ' = 0.16 3" = 0.37 ½" = 0.26 3-½" = 0.50	4" £ 0.65 6" = 1.47			



Project		N-(	ommon	002		1			, 1	<i>11</i>
Project Number	NY00.	1492.0409.		Site Location		ethpree, N	14	Well ID	<u> HN-</u>	401
Date		8/24/0	09_	Sampled By		MESOUR	: LWilldan	5		
Sampling Time		1650	3	Recorded By		Prezon	<u> </u>			
Weather	_cle	an 85°	<u> </u>	Coded Replica	te No.	-NA				
Instrument lder	ntification			1 1	ſ					
Water Quality N	fleter(s)	کک	cu cal	bation i	of	Serial #		<u> </u>	1	
Casing Materia	١ .	<u>P</u> '	ıC	Purge f		, <u>.</u>		an Purps	Lastler	<u>/</u>
Casing Diamete	er .		<u> </u>	-	Interval (ft bmp		10	Ø !	Bottom]	18
Sounded Depth	(ft bmp)	·····	118		ntake Depth (ft	•	<u>,                                    </u>	11.3		650
Depth to Water	(ft bmp)		16,34	Purge `		Start_	1297 1967	-1552 Le	Finish	<u>. 457</u>
····			F	ield Parameter	Measurements	During Purging	1 1 1			Depth to
Time	Minutes Elasped	Flow Rate (m⊔/min)	Volume Purged	Temp (°C)	pH (s.u.)	(umhoe or ms/em) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water (ft bmp)
1550		•	,	set	rste					
1555	3	1200	_	16r7	5.85	119.0	131	7.87		
1600	8			165	5.49	119,2	141	8,35		46,38
1605	13	1200		16.5	5.40	120,4	152	8,35		
[610	18	`		16.9	5.36	120,9	159	8.10		46,37
1615	23	496		17.3	5.34	121,0	172	8.23		
(620	28	1		19.0	5.34	122,0	180	7.89		46,37
1625	33			18.8	5,34	121,5	186	7,35		
[630	38			18.8	5,35	121,3	190	7.25		46.35
1635	43		y	19.0	5,33	121,2	193	7,20		
1640	Yô			(8.8)	5.33	120,7	197	7.05		46,35
1645	53			19.8	5,33	120.9	201	707	1/	
1650	58	1		18.8	5.32	120,6	202	7,04	4,2_	Y6.35
				<b>)</b>					1/2	
Collected Sam	ple Condition		Color Col	den	Odor_	NOW		Appearance	Cloa	<u> </u>
Parameter ( 0	e COC		Container			No.			Preservative	
					-			_		
		-			-					
PID Reading			_							
Comments										



Project	outhrop	Grumma	n our	Project No.	NY 60,1K9	2.0409.w	. 2 .	
Site Location		ethpage	, NY.		Date	8	20 -09	-
Well No.`	HN-47	<u>s</u> ' '	, Replicate No	. <u>NA</u>	Weath		+ 90	) <i>[</i> -
Sampling Personn	el Gany w				16:09		End	16=10.
Purge Data	<i>)</i>	/		Field Paramete	ers		***	
Measuring Point (d	escribe)	70e		Color	alalers	Wolsten	Colarlen	Colorles
Sounded Well Dep	th (ft bmp)	60.	·	Odor	none	hore	nov.	none
Depth to Water (ft i	omp)	48.81	<u>5.</u>	Appearance	Clan	clan	clear	elon
Depth to Packer (ft	bmp)							
Water Column in W	/ell (ft)	11.14	······································			1V	2V	3V
Casing Diameter		4"1	(0.65)	pH (s.u.)	9-33	8.11	6.77!	6.18
Gallons in Well		$\frac{7^{2}}{2}$		Conductivity	ļ		`	
Gallons Purged		^ フ	ı	-(mS/cm) or				
Prior to S	Sampling	21.6	-	(µmhos/cm)	1 453	421	413.	410.
Pump Intake							/	
Setting (f	t bmp)			Temperature (°C	c) <u>19 1  </u>	16.8.	16.8	16.3
Packer Pressure (p								
Pumping Rate (gpm	Q=1	f=21 1	$\nu = 7$	DO (mg/L)				:
Evacuation Method	,			ORP (mV)				
Sampling Method				Turbidity (NTU)				`
Purge Time	Begin	14:47 End	· · · · · · · · · · · · · · · · · · ·	Time	14:4/	11:14	16:01	16:09
				DTW (ft bmp)	76		· · · · · · · · · · · · · · · · · · ·	
Remarks:	•					•		
_					······································			
<u>-</u>			,					•
Parameter See CO	<i>C</i> .	Cont	ainer	No.		-	Preservative	
		•		*******		_		
PID Reading				,				
Sal./Ft. $1^{1/4}$ = 0.0 $1^{1/2}$ = 0.0		).16 3" =		4" = 0.65 6" = 1.47				
	~	<b>-</b>		_ ,,,,		·····		



Infrastructure, environment, facilities

				-Flow Gro	undwater	Sampling	Log			
Project	·	Northro 692.040	b A	ruppan	ناق	(-2				
Project Numbe	r 1/100/9	492 040	9. cres 2	Site Location	Ber	hpage,	NY	Well ID	HN-2	42 I
Date	· (१) · · · · · · · · · · · · · · · · · · ·	20,009	<i>4</i>	Sampled By	Gan	Juxilia Som	ins /	Swany X	در	
Sampling Time		15:30		Recorded By		Sup	uy Xu			
Weather	<i>√</i>	37 0	70°F	Coded Replica		x(A).	7			
1100	<i>p</i>	<del></del>	<u>famoroson</u>	·						
Instrument Ide	ntification		1 /s/m	4121	/ _r ,					
Water Quality I	Meter(s)			Hlon Sh	eet.	Serial #		- *		
Casing Materia	ŧ <b>l</b>	P	VC	Purge	Method		Red)-	flow.		
Casing Diamet	er	4	-11	Screen	Interval (ft bmp	р) Тор	100	<u>'</u>	Bottom	110
Sounded Depti	n (ft bmp)	/10	, د د	Pump	Intake Depth (ft	<b>ե</b> տք)			***************************************	
Depth to Water	(ft bmp)	<u>48.11</u>		Purge	Time	Start	14:1	~	Finish /	:30
			į	Field Parameter	Measurements	During Purgin	g			
	Minutes	Flow Rate	Volume	Temp	рН	Conductivity	ORP	DO	Turbidity	Depth to Water
Time	Elasped	(mL/min)	Purged	(°C)	(s.u.)	tumhos or m3/cm) 1)	(mV)	(mg/L)	(NTU)	(ft bmp)
14:45		450		18-6	12.33	492.	42.	6.24.		48.11
14:10	5	1		17.9	12.37	456	86.	1:35		
Hist	lp			18,/	12.37	426	-119	1.26		48,20
(\$200-	15			19,3.	12.35	568	-155.	Lol.		
18:05°	240			19.3	12.35	5-66	-162	4.48.		48.24
ş	2/5			19.2	12.35	<i>t-63</i>	-161	4.84		
15:10	3 0				1 '	•	, ,	5.34		48.24
15:15	30	<u> </u>		18.8.	12.37	166	-160.			48.20
15:20.	35			19.0	12.37	+65	-158	5,17:		
15:75	<b>V</b> o			19.3	12,35	565	-156.	\$.06		48.21
15:30	45	4		193	12,35	565	-/15.	5.04.		
				, , , , , , , , ,		•				
		·								
Collected Sam	ple Condition		Color Colo	rles	Odor_	nona	· .	Appearance_	cloar.	
Parameter			Container			No.			Preservative	
<u>See</u>	<u> </u>	_			<u>.</u>			_		
		•			-			-		
	······································	-			-			-		
PID Reading			-							
Comments										
	<u>, , , , , , , , , , , , , , , , , , , </u>		****							
				***************************************						
,										

¹⁾ Circle one unit type



Project Northop Enumas Site Location Bethpage, NY	_ Project No	NY 00/8	192,0x0	1,0002	
Site Location Bethpage, NT				- 09	
Well No. PLT   MW - 0 4 Replicate No	·_NA	Weath			r°F
Sampling Personnel Gay Willer Sury Sampling Tin	ne: Begin	16252		End	16153.
Purge Data	Field Paramete				•
Measuring Point (describe)	Color	bown.		6/2/08	C3/5- Ce
Sounded Well Depth (ft bmp)	Odor	aspa.		nove.	hone
Depth to Water (ft bmp) 41, 68	Appearance	(wb) d	Clean	clear	clear.
Depth to Packer (ft bmp)	•				
Water Column in Well (ft) 14,82		1	10	2V	3V
Casing Diameter 2 (0.16)	pH (s.u.)	5.74	6.0	6,01	6.08
Gallons in Well 2.4	Conductivity		•		
Gallons Purged X3	(mS/cm) or		1 17	<del>// /</del> /	
Prior to Sampling 7. 2.	(pmhos/cm)	1,74812	163.9	106,4	1661
Pump Intake 49 ft			,	,	,
Setting (ft bmp) Q=1 +=7 1V=2.5	Temperature (°C	18.7	15.7	14.6	149
Packer Pressure (psi)					
Pumping Rate (gpm)	DO (mg/L)				
Evacuation Method Radi - flr	ORP (mV)				
Sampling Method 3 WV / 100-flow grab.	Turbidity (NTU)	> > >		10.3	dir o
Purge Time Begin $6:\sqrt{\varphi}$ End $6:\sqrt{\varphi}$	Time	16:44	16:46	16:48	16:51
	DTW (ft bmp)				·
Remarks:			-		
remans.			<del></del>	,, <u> </u>	
					•
Parameter Container	No.			Preservative	
	<u> </u>				
PID Reading					
Well Casing Volumes  Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0.37  1 ^{1/2} " = 0.09 2-½" = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				



Project Northup Grunnon	Project No.	NYOU	E92.0409	r, one z	
Site Location Pethoage, W		Date	-	19-09	
Well No. PLTIMU-OC Replicate No.	». <u>μ(Α</u>	- Weath			r of
Sampling Personnel Gry Williams / Sampling Tir	ne: Begin	15:53		End	12: LÅ
Purge Data	Field Parameters	3			
Measuring Point (describe)	Color	moren.	pour.	colorles	ables
Sounded Well Depth (ft bmp)	Odor				home
Depth to Water (ft bmp) $\rightarrow f$ 50	Appearance	furbid	tubid	clarchy	cloor
Depth to Packer (ft bmp)		• !			
Water Column in Well (ft) / 8,5			1V ·	2V	3V
Casing Diameter 2" (0.16)	pH (s.u.)	6.11	6.17	6.18	6,19
Gallons in Well 2.96	Conductivity				-
Gallons Purged	( <del>mS/cm) o</del> r				
Prior to Sampling 9	(tumhos/cm)	161.6.	158.9	160.5	126.6
Pump Intake			/		0
Setting (ft bmp) 48	Temperature (°C)	22.4	18,8.	17.0.	16.7
Packer Pressure (psi)		<b>,</b>			
Pumping Rate (gpm) $Q=3/4+212$ $10=4$	DO (mg/L)		: 		:
Evacuation Method fedi-flow	ORP (mV)				·
Sampling Method Jul / low-flu grah	Turbidity (NTU)		77000.	\$0	14
Purge Time Begin 15,41 End 15:53	Time	15:41	15:45	152.69	15:03.
	DTW (ft bmp)	$\not$			·
Damarka		•			
Remarks:					•
Parameter Container	No.		·	Preservative	
PID Reading	,			•	
Well Casing Volumes  Gal./Ft. 1 ^{1/4} " = 0.06 2" = 0.16 3" = 0.37  1 ^{1/2} " = 0.09 2-½" = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				



Project Northwy C	Mehran	Project No/	NTOUL	920809	<u> </u>	
Site Location Bet	lpape, No		Date	8-15-	-09	
Well No. PITIML	2-06 Replicate No.	NA.	Weath	er t-C	4. 9 2°	E
Sampling Personnel Gay 2	Many Sampling Tin	ne: Begin	16125		End	16226.
Purge Data		Field Parameters	<b>S</b>			
Measuring Point (describe)  Sounded Well Depth (ft bmp)  Depth to Water (ft bmp)	70e. 62 42.65.	Color Odor Appearance	burn uses herbid	Morles none clardy	rose close	honee Clan
Depth to Packer (ft bmp) Water Column in Well (ft) Casing Diameter	19.35	pH (s.u.)	6.36	1v 1.97.	2V 1.93.	3V - J.93
Gallons in Well Gallons Purged Prior to Sampling	3 × 3 9	Conductivity (mS/em) or (µmhos/cm) 1	109.6.	102.8	102.0	100.6
Pump Intake Setting (ft bmp) Packer Pressure (psi)	<u> </u>	Temperature (°C)	19.3.	17.1.	16.7	17.4
Pumping Rate (gpm)  Evacuation Method  Sampling Method	Q=1 +29 1V=3 Rod7-flow.	DO (mg/L) ORP (mV) Turbidity (NTU)		>> \range \.	h	45
Purge Time Begin	16:16 End 1825 1	·	16:16.	16.15	16:22	16:25.
Remarks:	· ·	DTW (ft bmp)				
Parameter	Container	No.			Preservative	
PID Reading				•		
	olumes 0.16	4" = 0.65 6" = 1.47	·			



Project			N-Ga	vmmar Ol	12_						
Project Number NY0014		01492.0409.0002		Site Location	6	Bothpas, NY Well ID N-106				62Y	
		8/21/0			William / Prezorst						
		1622		Recorded By	Prezonde)						
		24 90	of	Coded Replica	ded Replicate No.						
Instrument Ide	ntification		1								
Water Quality i	Meter(s)		<u>S</u>	ee calibro	tran log		Serial :	#			
Casing Material		steel 2"		Purge Method			•		ode / Cc	red flow	
Casing Diameter			211		Screen interval (ft bm		p) Top 190		) Bottom_		194
Sounded Depth (ft bmp)			NM NM		Pump Intake Depth (ft		: bmp)		<del></del>		
Depth to Water	r (ft bmp)		23.72		Purge Time		Start	151	Finish		1620
Field Parameter Measurements During Purging  Conductivity ODD TO Depth to											
Time	Minute: Elaspe		Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	(dimitios or mistern) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water (ft bmp)
1520	2		500		30.3	6.45	98,2	601	3,29		
1525	7			-	26.6	6.95	92.5	-23	1,52		35.69
1530	12		506		24,9	7,21	915	-79	0.65		
1535	17	-	500	,	25.1	736	92,3	-169	0,14		42,21
1540	22		<del> </del>		24.7	7,54	91,7	-194	0.19		
1545	7 F	<u></u>			245	7.56	91,4	-188	0.25		44.82
1550	32	_			23,9	7.57	90.7	-184	6,24		
1555	37				24,3	7.61	90,7	-178	0,26		48.95
1600	<u> </u>		***************************************		24,7	7.62	90.8	7772	0,28		
1605	47			·-··	25,4	7.63	90,8	-165	0,32		48,34
1610	52		100		25,9	7.63	90,9	763	0,26		
1615	57	_	100	··	27.1	7.13	91,6	-153	0130	1	
1620	62		100		27,7	7.64	91,7	-149	0,30	30	48-81
	<del></del>										
Collected Sample Condition Color(			Color_Cu[//	lor Culurlan		r Work		Appearance lo			
Parameter			Container		No.			Preservative			
See coc					***************************************						
										· · · · · · · · · · · · · · · · · · ·	
PID Reading		_			······································	•					
Comments	(	14	y 100	not at	1540						
Commenta		7									
· -	New tubing + screen installed.										
				5/	ou d	rawdown	onu	rell do	ring po	13e.	



Project	1/2	-thus	Erunn	len .		,	J J			- ***	
Project Numb	er NYo	1492.04		Site Location	Bet	Lpage,	HT	Well II	, N-10	162/	
Date	8-	18-00 9		Site Location Bethpage, HT Well ID N-10627 Sampled By Gray Williams / Scenery Xn							
Sampling Time /3 400				Recorded By							
Weather Hot 927			27	Coded Replicate No.							
Instrument Ide	entification										
Water Quality Meter(s)							# 2				
Casing Materi	al	<u> </u>	16.	Purge	Purge Method		-dedice	tal	bladden		
Casing Diame		4'		Screen Interval (ft bm		***************************************		<i>5</i>	Bottom 29.0		
Sounded Depth (ft bmp)		39 69 30 89		Pump Intake Depth (f			<u>283</u> 1 <u>1424</u>				
Depth to Wate	r (It bmp)				Purge Time S			2	Finish / S Ka		
	1			Field Paramete	r Measurement	S During Purgir Conductivity			T	T 5	
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	(umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	
14:40.				23.2	5.52.	78.32	1 mg	7,00.		30.09	
14,45	7			26.7	Sift	78.4.	-72	6.00			
14240	[2		·	28,0	6.78	80,9	-178	3.66		31.10.	
14:15	15			28.0.	8.07.	86.7	399.	2,49			
11,00	ho			27.3	9.76.	97.1	402	1.60.		31.16.	
11:05	VS			2),/	10.26	106.7	420.	0.73			
1510	30			27.2	10.38	109,8	433	0.48		31.29	
15115	2{	· · · · · · · · · · · · · · · · · · ·		27.2	10.76	1/2.8	437	0180			
15:20	ψo		,	27,0	10.40.	117.8	448.	0.37		31.27	
15:25	ΨT			27.0	10,26.	117.7	81	0.34.			
12:30	50	<del> </del>		26.8	10.48	113.5	-3459	0.35.		31.27.	
1\$135	1,72			27.1	10.44	115,2	-362	0.32			
15160	( la '			269	10.42	116.0.	-364.	0.34.			
				<u> </u>					<u>.</u>	j.	
Collected Sample Condition ColorC			lor les odor hour				Appearance ob-				
Parameter Se		Container		No.			Preservative				
								<del>-</del>			
PID Reading								-		······································	
Comments											
-											
_		,									
1) Circle one u	nit type										



Project Northwy	Grunnan.	Project No	Madre	12-04-9	ou V	
Site Location	though, NY		Date	8	-18-04	
Well No.  \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Replicate N	o. NA	Weath	-	lot 92	
Sampling Personnel Try a	,	ı	16252		End	16:54
Purge Data		Field Parameter	rs		<b>\$</b>	
Measuring Point (describe)	TOC	Color	brown	danks	dork	alson.
Sounded Well Depth (ft bmp)	67	Odor	strong.	chang	Many.	suild.
Depth to Water (ft bmp).	35, 98	Appearance	tubid.	57/1/4	dubid	clear.
Depth to Packer (ft bmp)			57 Hy	/ /		
Water Column in Well (ft)	21.12	-	[	1V	2V	3V
Casing Diameter	2" (o.16)	pH (s.u.)	8.56	18,72.	7.87.	7.93.
Gallons in Well	<u> </u>	Conductivity	-		<b> </b> '	į į
Gallons Purged	メラ	( <del>mS/cm)</del> or		105.6.	Ø	
Prior to Sampling	10,2	(µmhos/cm)	92.9	Q.	106.1	128.4
Pump Intake			, ,	- /		
Setting (ft bmp)	65	Temperature (°C	20.6	17.4.	17.6.	16.8
Packer Pressure (psi)						
Pumping Rate (gpm) 🛭 🔑	t= 10 10-3	DO (mg/L)		:		
Evacuation Method $oldsymbol{\mathcal{L}}$	edi-flav.	ORP (mV)				
Sampling Method →	WV /low-flow sort	Tadibidity (NTU)		>200	18.	وي .
Purge Time Begin	16 1491 End 1625	Time		:		,
		DTW (ft bmp)	16:41	16:44	16:47	16:50.
Remarks:			·	•	,	
Tettiains.			······································			
•			·····			•
Parameter See Co.C.	Container	No.			Preservative	
	· · · · · · · · · · · · · · · · · · ·	<u></u>				······································
PID Reading	· · · · · · · · · · · · · · · · · · ·					
	olumes 0.16	4" = 0.65 6" = 1.47				
	2,20 0,2 0,00	_ ,,,,	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			

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AG 05-12/01 6.7 g.v Yes No N/A Yes No N/A Seal Intact? Seal Intact? M Total No. of Bottles/ Containers CHAIN-OF-CUSTODY RECORD Page _ Remarks 124, OR Time 1820 □ Other Time Time ☐ Lab Courier ANALYSIS / METHOD / SIZE Date 🔏 Date-Date_ Date_ Laboratory Task Order No./P.O. No. **らいた**が 4ccody Lagart to Melissa Why cont sou € Common Carrier Organization: – 04 Organization:_ Organization:_ î٧١ Organization:  $\mathcal{O}_{\mathbf{1}}$ Â, Lab ID Project Number/Name N/00/192.6969, 06002 Ā Project Location forthere MY
Laboratory Columbia Andstic Service (1 SME! +91 Date/Time Sampled S 4 8/24/09 Daire Ster S = Solid;☐ In Person Matrix Special Instructions/Remarks: **G** ARCADIS Delivery Method: Sample ID/Location SON-MA Čn-18I HN-40I 78082409 Relinguished by: Relinquished by: P0458087 Project Manager_ Sample Matrix: Received by: Received by:

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Yes No N/A Yes No N/A CA Seal Intact? Seal Intact? Total No. of Bottles/ Containers SPECIFY Remarks  $\square$ Other $_{-}$ Date **8 / 2 7, 09** Time_ Time Time Time. ANALYSIS / METHOD / SIZE ☐ Lab Courier Date_ Date∟ Date. Common Carrier Report to Helissa Reind (w (4 Ø Organization: _ Organization:_ Organization:_ 2-wet 747 Organization: , ***** | N/coll92,0409,0002 Lab ID = Aïr 丛 J 1830 Date/Time Sampled 912109 ∢ Prezont. Dece Stew = Solidy ☐ In Person Matrix . L = Liguid Special Instructions/Remarks: **PA** ARCADIS Project Number/Name_ Sampler(s)/Affiliation_ Sample ID/Location Delivery Method: CA-3502 オシージ Project Manager_ FB082709 Project Location_ 78682709 Relinquished by: Relinquished by: Laboratory____ Sample Matrix: Received by: Received by:

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Yes No N/A Yes No N/A Total Seal Intact? SPECIFY Seal Intact? W 7 C Total No. of Bottles/ Containers CHAIN-OF-CUSTODY RECORD Page Remarks 1-311 01 Time_1930 □0ther Time Time Time ANALYSIS / METHOD / SIZE Lab Courier Date 🛱 Date_ Date∟ Date. Laboratory Task Order No./P.O. No. <u>No. い</u>いし to relieve ŒKCommon Carrier_ M (~ 3 Organization:_ Organization: Organization: . Organization: Lab ID Project Number/Name NY 001492.0409, 00002 = <u>Air</u> 15% L C 1813 Sampler(s)/Affiliation XV, Prezorti Date/Time Sampled 。 - % 今 813169 ব シャイントゥグ S = Soyid;🗆 ln Person Matrix " memolo = Liquid: Special Instructions/Remarks: A ARCADIS アフト・フログ Sample ID/Location Delivery Method: Project Location__ MW-16F GH-34D 64-3402 Project Manager. Relinquished by: T6083109 66083109 Relinquished by: Laboratory___ Sample Matrix: Received by: Received by:

Project Location Bethpace NV Laboratory H2A  Project Manager Recent Inflieus Sampler(s)/Affiliation Recent Inflieus Sample ID/Location Matrix Sampled Lab ID GH-38D L 9/3/69 GH-38D2 L 9/3/69

AG 05-12/0 Yes No N/A Yes No N/A Seal Intact? Seal Intact? Total No. of Bottles/ Containers CHAIN-OF-CUSTODY RECORD Page ___ Remarks □0ther 3.09 Time Time Time Time ANALYSIS / METHOD / SIZE □ Lab Courier Date 9/ Date. Date_ Date. المان (حریسیار) Laboratory Task Order No./P.O. No. FEX EX Tall Make Jall XCommon Carrier Separt to Melissa ٤ (n M m Organization:_ Organization: Organization:. Organization: ファイ メッグ・ロ Lab ID - NOO 1492, 0469,0000 A = Air いまするとのでは、 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mmの 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 1 Laboratory Columbia Analytical Services 352 イジー <u> 787</u> Sampler(s)/Affiliation Williams | Recosti Date/Time Sampled 9/3/09 Dove Stew S = Soyid;Matrix Special Instructions/Remarks: Project Number/Näme **G** ARCADIS Sample ID/Location CA-3804 Project Location___ TB090309 T Discharge Relinquished by: F BOG0309 GA 380 Relinquished by: Project Manager Received by: __ Sample Matrix: Received by:

Total Yes No N/A Yes No N/A 3 Seal Intact? Seal Intact? Total No. of Bottles/ Containers SPECIFY Sample time 1633 Page -Remarks Whale we this sangle and OAIVE HSHAS CHAIN-OF-CUSTODY RECORD □Other_ Time Time _ - Time Time ANALYSIS / METHOD / SIZE ☐ Lab Courier Date∟ Date Date_ Date_ Laboratory Task Order No./P.O. No. SPECIFY □Common Carrier ) W **(**^) Organization: 🗕 Organization: Organization:. Organization: + Melica Lab ID W/001192.04/09,00002 Sampler(s)/Affiliation (70205); / W. High = Air Date/Time Sampled ∢ 4/1/169 60/11/6 Oxy Ster S = Solite;Laboratory Columbia Aralytica ☐ In Person がと Matrix **A** ARCADIS Project Number/Name_ Special Instructions/Remarks: Sample ID/Location Project Manager_ Delivery Method: TROGOTOG Project Location_ ロローロア Relinquished by: _ Relinquished by: Received by: _ Sample Matrix: Received by:



Project Northing Crima-	042	Project No. 🖊	140019	192.04	09.600	102
Site Location Bethpage, A	14				Ler 11, 2	
Well No. BPOW 1-1	Replicate N	4o	Weat		cloudy	
Sampling Personnel Williams / Jeune	Sampling T	īme: Begin <u>//</u>	1105	<del>-</del>	End	11:08
Purge Data		Field Paramete	rs		77V	
Measuring Point (describe)	OC	Color	ele			
Sounded Well Depth (ft bmp)	2.63241	Odor	<b>D</b> a	- i		<del></del>
Wi-Litati	2, 63	Appearance	clea	J		
	69	· Appoundition				
Water Column in Well (ft)	- 77_		1	1V	2V	21/
Casing Diameter	(.65)	рН (s.u.)	5,64	4.96	492	9.92
Gallons in Well (Such ) 46. 8 1	37.8 (Lita)	) Conductivity	<u> </u>	7	1	
Gallons Purged		(mS/em) or	<u></u>	:		
Prior to Sampling	140	(µmhos/cm) 1	236	209	218	213
Pump Intake		.,			1	
Setting (ft bmp)		Temperature (°C	13.1	14,0	12.9	12.9
Packer Pressure (psi)	20	, ,	' <del>    </del>		/	
Pumping Rate (gpm)		DO (mg/L)				
Evacuation Method Jedra	hd tedillar	ORP (mV)				
Sampling Method 3 vulc		Turbidity (NTU)		<b>-</b>		~ ~ ~ ~ ~ ~
Purge Time Begin / 0138	End 17:08	Time	10:40	10:48	10557	11:0
-		DTW (ft bmp)	J	29.12		
***		(,			<u> </u>	
Remarks:						
Parameter	Container	No			Preservative	
for bem siri	you von				MC/	
PID Reading 0.0						
				•		
Well Casing Volumes <b>Gal./Ft.</b> 1 ^{1/4} " = 0.06 2" = 0.16	2" - 0 27	48 - O OF				
$\frac{1^{1/2n} = 0.09}{1^{1/2n} = 0.29} \qquad \frac{2^n = 0.76}{2^{-1/2n} = 0.26}$	3'' = 0.37 $3-\frac{1}{2}'' = 0.50$	4" = 0.65 6" = 1.47				



Project Northrop Grunna Sys. Co	Project No. N	1001492,04	09.000	20Z
Site Location Bethogoe, NY		_ Date <u>11 / 11 /</u>	09	
Well No. BPOW 1-2	Replicate No.	Weather	Londy	30-
Sampling Personnel William/Oartling	Sampling Time: Begin <u>7</u>	2: <b>7</b> 3	End	13/00
Purge Data	Field Parameters	S		
Measuring Point (describe) 70 c	Color	Aone		· · · · · · · · · · · · · · · · · · ·
Sounded Well Depth (ft bmp) 335	Odor	40~~		
Depth to Water (ft bmp)		Clear		
Depth to Packer (ft bmp) 2 99			•	
Water Column in Well (ft)		. <u>l</u> 1V	2V	3V
Casing Diameter	pH (s.u.)	4.6/ 4.73	4.67	4.65
Gallons in Well $\frac{26.65}{\times 3}$	Conductivity			
Gallons Purged	(mS/em) or	11/1 89.7	97.9	97.8
Prior to Sampling	(µmhos/cm) 1	)		
Pump Intake				
Setting (ft bmp)	Temperature (°C	13.1 14.0	14.0	13.9
Packer Pressure (psi)	» <i>S</i> -`			
Pumping Rate (gpm)	DO (mg/L)			
Evacuation Method dedirable on	ORP (mV)			<del></del>
Sampling Method 3 uslam	Turbidity (NTU)			620
Purge Time Begin/2:45 End	17:00 Time /	12:42 12:48	12:52	12:56
	DTW (ft bmp)	27.15		
		Par 4-1 dec		, d
Remarks: Stick up value :		f/-3	<del>100</del>	
a)ta II-				
	ntainer No.		Preservativ Hc/	e
PID Reading O. O				
	= 0.37 4" = 0.65			
$1^{1/2} = 0.09   2-\frac{1}{2} = 0.26   3-\frac{1}{2}$	<b>6" = 0.50 6" = 1.47</b>			



Project NORTHROP-6	RUMMAS OUZ	Project No				
Site Location BETHPA	FOE NY		Date	11-11-0	9	
Well No. BPOW1	Replicate I	No. KEP 11-11-09	<b>y</b> Weath	ner	clardy	50
	+	MS/MSD				
Sampling Personnel Williams	Oe-Hing Sampling	Time: Begin	13:41	-	End	13150
Purge Data		Field Paramete	rs			
Measuring Point (describe)	TOC	Color	<u></u>	light y	Mor/g	ree
Sounded Well Depth (ft bmp)	419	Odor		Slight	o der	
Depth to Water (ft bmp)		Appearance		murky		
Depth to Packer (ft bmp)	344					
Water Column in Well (ft)	75		1	1V	2V	3V
Casing Diameter	(0.65) 4"	pH (s.u.)	4.23	4.33	4.24	4.10
Gallons in Well	48,75	Conductivity				
Gallons Purged	Y 3	( <del>mS/cm) or</del>				
Prior to Sampling	146.25	(µmhos/cm) ¹	1) <u>239                                    </u>	180.2	161.6	155.5
Pump Intake					10 0	.~ -1
Setting (ft bmp)		Temperature (°C	13.4	13,4	13.0	12,7
Packer Pressure (psi)	185 pri					
Pumping Rate (gpm)	~ 5 gpm	DO (mg/L)				
Evacuation Method	DEDSTATED SUBPUL	ORP (mV)				
Sampling Method	3 volume	Turbidity (NTU)			·	
Purge Time Begin	17:12 End 1350	Time				
		D <del>IW (# bmp</del> )	13:14	13:20	13:27	13:40
Remarks:						
344-	32 x, 43 +5	0 = 183 F	SE			
Parameter Tww 524, 2	Container Youl Vu.	No.		-	Preservative	•
		<del> </del>		_		
		· · · · · · · · · · · · · · · · · · ·		<del>.</del>	***************************************	
PID Reading						
4.00	olumes 0.16 3" = 0.37 ' = 0.26 3-½" = 0.50	4" = 0.65 6" = 1.47				



Project <u>N1001111,0909.00002</u>	Project No.	Northwas	bunna.	· ouz	<del></del>
Site Location Bethpage, NY		Date		9/09	
	ate No	Weat	her :/	clarde	600
4					<b>.</b>
Sampling Personnel & Williams / Oer Hay Sampli	ing Time: Begin	16:00	- ,	End '	6104
Purge Data	Field Parame	eters	,		- 1
Measuring Point (describe) Toc	Color	dea	clear	clea	, che
Sounded Well Depth (ft bmp) 5/6	Odor	Yes	Yes	1/13/1	5/24/
Depth to Water (ft bmp) NA (Blockege in L	Appearance	clear	clear	clea	clee
Depth to Packer (ft bmp)		,		1	;
Water Column in Well (ft) 132 Gelon Plan	acta)		1V	2V	3V
Casing Diameter	pH (s.u.)	3.74	3.83	3.89	3.92
Gallons in Well (based - 20 fre) 66.3 Below	warded onductivity				
		r 318	195.3	182.7	180.7
Prior to Sampling 199 (3 Lo	(mS/cm) o (mS/cm) o (umhos/cn	n) ¹⁾			
Pump Intake					
Setting (ft bmp)	Temperature (	(°C) <u>/2 7</u>	14.2	13.7	13.6
Packer Pressure (psi) 220		,			
Pumping Rate (gpm)	DO (mg/L)	-			
Evacuation Method packer dedrected bladh	ORP (mV)	<b>***</b> *********************************			
Sampling Method 3 Volume	Turbidity (NTU	J)			
Purge Time Begin 15118 End 16:0	ログ Time	15118	15:30	15145	16:00
	DTW (ft bmp)	NS			
Remarks: Share N. F.	11		2		
Remarks: $\frac{54a/e}{1} \frac{1}{1}$ .	thing with	Brow	/-3-2		<del></del>
		· · · · · ·			<del></del>
Parameter Container	No.			Preservative	e
truc sure You/	VUA _	3		HC1	
					<u></u>
PID Reading					
Well Casing Volumes			<del> </del>		
Gal./Ft. $1^{1/4}$ " = 0.06 2" = 0.16 3" = 0.37 $1^{1/2}$ " = 0.09 $2 \cdot \frac{1}{2}$ " = 0.26 $3 \cdot \frac{1}{2}$ " = 0.50	4" = 0.65 6" = 1.47				
4. 6. 1					

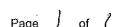


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	ma 097	_ Project No. /				20
	se NY			_11/9/		500
Well No. $BPow3$	Replicate N	0	Weath	er	c londay	
Sampling Personnel William	10e+1.49 Sampling Ti	ime: Begin <u></u>	7:55		End	17:58
Purge Data		Field Parameter	rs			
Measuring Point (describe)  Sounded Well Depth (ft bmp)  Depth to Water (ft bmp)	Toc 647 27.42	Color Odor Appearance	clear Yes clear			
Depth to Packer (ft bmp) Water Column in Well (ft) Casing Diameter	503 144 44	рН (s.u.)	<u> </u>	1v 4.65	2V 4.67	3V 7.75
Gallons in Well Gallons Purged Prior to Sampling	94	Conductivity (mS/cm) or (µmhos/cm) 1	100.6	124.3	107,/	102.9
Pump Intake  Setting (ft bmp)  Packer Pressure (psi)	254	Temperature (°C	15.7	14./	13.7	13.3
Pumping Rate (gpm)  Evacuation Method	Sedrept bladd pay					
Sampling Method  Purge Time Begin	17110 End	Turbidity (NTU) Time DTW (ft bmp)	27,55	17:27	17:43	17:57
Remarks: Share	es No fitting	n. H	BPOW	7-/		
Parameter  Two Tzy, z	Container You / VI.	No. 3		-	Preservativ	e
PID Reading				-		
* 10	/olumes = 0.16	4" = 0.65 6" = 1.47				



Project NORTHLOF-CL	UMMAN	Project No. Nyoo	40.5941	09,000	<u> ۲</u>
Site Location	-1100- 111	Date	11-10	7-0 <u>2</u>	
Well No. BPOW 4	/ // Replicate No	Weat	her <i>c</i>	londy -	<i></i>
Sampling Personnel W. Mans	loctly Sampling Tir	ne: Begin <u></u> 1号にる		End <u>(</u>	16122
Purge Data		Field Parameters			
Measuring Point (describe)	TOC		XTE3?		
Sounded Well Depth (ft bmp)	652 692	Odor <u>No</u>	-	····	
Depth to Water (ft bmp)	503 652	Appearance CU	in		
Depth to Packer (ft bmp)					
Water Column in Well (ft)	149 40	( tar	17	2V	3V
Casing Diameter	4(0.65) 2 (0.16)	pH (s.u.) 7. 76	4.58	4,63	41//
Gallons in Well	290/03 6.4x3	Conductivity			
Gallons Purged	20	(mS/cm) or	110		
Prior to Sampling	310	(µmhos/cm) ¹⁾ 7%2	113.6	75.1	77.8
Pump Intake					سے دی
Setting (ft bmp)		Temperature (°C) 149	13.7	13.7	13.5
Packer Pressure (psi)					
Pumping Rate (gpm)	7.3	DO (mg/L)	-		
Evacuation Method	Led sub pump	ORP (mV)			
Sampling Method	3 volume	Turbidity (NTU)		-	<20
Purge Time Beg	gin 15:00 End 16:22	Time $\frac{f'oc}{}$	15:30	12:33	16:22
		DTW (ft bmp)			
Remarks:					
Nemarks.	1				
<del>, , , , , , , , , , , , , , , , , , , </del>					
Parameter	Container  You / Vun	No. 3	·······	Preservativ	e
PID Reading					
Sail.	" = 0.16 3" = 0.37	4" = 0.65			
$1^{1/2n} = 0.09$ 2	$-\frac{1}{2}$ " = 0.26 3- $\frac{1}{2}$ " = 0.50	6" = 1.47			





Project Northrop Grana St. Site Location Pethpage, 1	when longo	ԱProject No. <u> </u>	140014	92.040	9.0000	2
Site Location Pethyage, 1	14 '		_ Date	11/10	109	~
Well No. BPaW 4-2	Replicate No		Weath	er	cloudy	55
Sampling Personnel W: //www./Oer #/	Sampling Tir	ne: Begin <u> 1</u>	412y		End	14526
Purge Data		Field Parameter	s		,	
Measuring Point (describe)	70C	Color	noi	ic.		
Sounded Well Depth (ft bmp)	764	Odor	404	بور		
Depth to Water (ft bmp)		Appearance	_c/ce			
Depth to Packer (ft bmp)						·
Water Column in Well (ft)	4			1V	2V	3V
Casing Diameter	90	pH (s.u.) 4	.00	3.72	3.67	3,60
Gallons in Well	70	Conductivity				
Gallons Purged		(mS/cm) or	133,0	187.8	136.6	111.3
Prior to Sampling	10	(µmhos/cm) 1	)			
Pump Intake						,,,,,
Setting (ft bmp)		Temperature (°C	16.6	14.9	15.1	151
Packer Pressure (psi)	54					
Pumping Rate (gpm)	gom	ĐO (mg/L)				
Evacuation Method dedunte	1 Stadder pay	ORP (mV)				
Sampling Method 3	" me	Turbidity (NTU)				420
Purge Time Begin 12:0J	End/4/26	Time	12:05	12:30	13100	14:24
		DTW (ft bmp)		-		
Remarks: 3:15 off						
						<del> </del>
D	Container	No			Preservative	
Parameter Two	70- (VIA	3	······································		HC/	
PID Reading	_					
Well Casing Volumes  Gal./Ft. $1^{1/4}$ = 0.06 $2$ = 0.16 $1^{1/2}$ = 0.09 $2^{-1/2}$ = 0.26	3" = 0.37 3-½" = 0.50	4" = 0.65 6" = 1.47			·····	

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Project NORTHOP-6RUMA	1AN .	Project No.	N480	1492.01	109.00	507
Site Location BENHAGE	NY		Date	11-12-	09	•
Well No. 6M-20-5	Replicate No		Weath	er	RAINE	W G-
					-	
Sampling Personnel	Sampling Time	: Begin Z	100		End	
Purge Data	F	ield Parameters	5		,	
Measuring Point (describe)	oc o	olor				
Sounded Well Depth (ft bmp)	05 0	dor				
Depth to Water (ft bmp)	ł A	ppearance				
Depth to Packer (ft bmp)	,					
Water Column in Well (ft)			1	1V	2V	3V
Casing Diameter 4.1	(D.65) pl	H (s.u.)	9.72	9,73	9.85	993
Gallons in Well	5	onductivity	,	- 1		
Gallons Purged	x 3	(mS/cm) or				
-	21.45	(µmhos/cm) 1)	1405	146.5	1482	148,1
Pump Intake						_
Setting (ft bmp)	Te	emperature (°C)	17.6	17,6	17.3	153
Packer Pressure (psi)						
Pumping Rate (gpm)	D	O (mg/L)				
Evacuation Method	0	RP (mV)				
Sampling Method		urbidity (NTU)				
Purge Time Begin		ime	14:15	1442	1457	15:35
-	D	TW (ft bmp)				
Remarks: <u>94-35 x.</u>				569n	PAROLS !!	1/2
Parameter	Container	No.			Preservative	•
		·				
PID Reading	-					
Well Casing Volumes  4. 1 ^{1/4} " = 0.06 2" = 0.16	2" - 0.27	- 0 6E				
$1^{1/4}$ " = 0.06 2" = 0.16 $1^{1/2}$ " = 0.09 2-½" = 0.26		' = 0.65 ' = 1.47		·		
ne unit type						

A	ARC	ADI	S
Infrastri	icture, envi	ronment:	facilities

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0.	***************************************		

Project NORTHROP-GR	)MMA)	Project No. <u>N</u>	40014ª	37.0409	100002	<u></u>	
Site Location BETHA	PE NA		Date	11-12	-09		
Well No. Com-20T	•	No	Weath	ier	-	···	
Sampling Personnel 6W	Sampling	Time: Begin			End		
Purge Data		Field Parameters	:				
Measuring Point (describe)	TOC	Color					
Sounded Well Depth (ft bmp)	276	Odor					
Depth to Water (ft bmp)		Appearance					
Depth to Packer (ft bmp)	215						
Water Column in Well (ft)	1		1	1V	2V	3V	
Casing Diameter	4 (0.65)	pH (s.u.)	6,28	5,69	5.57	572	
Gallons in Well	7.15	Conductivity					
Gallons Purged	× 3	(mS/cm) or					
Prior to Sampling	21.45	· (μmhos/cm) ¹⁾	130,2	119,6	WO	117.8	
Pump Intake			•				
Setting (ft bmp)		Temperature (°C)	163	15,6	(5,5	15.0	
Packer Pressure (psi)						•	
Pumping Rate (gpm)		DO (mg/L)					
Evacuation Method		ORP (mV)					
Sampling Method		Turbidity (NTU)					
Purge Time Begin	End	Time					
		DTW (ft bmp)			1:59		
						•	
Remarks:							
					Decorreti		
Parameter	Container	No.		_	rieseivau	reservative	
				<b>-</b>			
		·		-			
PID Reading							
Well Casing Vo							
Gal./Ft. $1^{1/4}$ " = 0.06 $2$ " = 0.06 $1^{1/2}$ " = 0.09 $2^{-1}/2$ "	0.16 3" = $0.37= 0.26 3-\frac{1}{2}" = 0.50$	4" = 0.65 6" = 1.47					
1 - 0.09 2-72	- U.ZO 3-72 - U.30	0 - 1.41					

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Dogo	~£ `	
Page	10	



Project NO RTHAT TO KNOWN SITE Location BETH TABLE	1	Date 11-13-09				
Well No. BANYAGE Well No.	Replicate N	No.	Date Weath	· · · · · · · · · · · · · · · · · · ·	0 1	
Well No	Nepilcale I	10	weau	iei		
Sampling Personnel	Sampling 1	rime: Begin <u>l</u>	0:00	•	End	
Purge Data		Field Parameter	s			
Measuring Point (describe)	TOC	Color			,	
Sounded Well Depth (ft bmp)	140	Odor				
Depth to Water (ft bmp)	36.26	Appearance	***************************************			
Depth to Packer (ft bmp)	129					
Water Column in Well (ft)	N		1	17	2V	3V
Casing Diameter	4 (0.65)	pH (s.u.)	7,43	8,00	8.72	Bilo
Gallons in Well	<u> </u>	Conductivity	•			
Gallons Purged	x3	(mS/cm) or				
Prior to Sampling	2h45	(µmhos/cm) 1)	143.2	139,4	137.9	127,9
Pump Intake						0 4 -
Setting (ft bmp)		Temperature (°C)	1218	16,2	16.3	16.3
Packer Pressure (psi)						
Pumping Rate (gpm)		DO (mg/L)				
Evacuation Method	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	ORP (mV)				
Sampling Method		Turbidity (NTU)	<del>,</del>			
Purge Time Begin	End	Time	10,30	1/43	11:35	12:00
		DTW (ft bmp)	<b>436.82</b>			
Remarks:						
Parameter	Container	No.			Preservative	<b>e</b>
		<del>-</del>				
		· · · · · · · · · · · · · · · · · · ·				
PID Reading						
Well Casing Volt <b>Gal./Ft.</b> $1^{1/4}$ " = 0.06 2" = 0. $1^{1/2}$ " = 0.09 2-½" =	16 3" = 0.37	4" = 0.65 6" = 1.47				; ·

age	of	



# Low-Flow Groundwater Sampling Log

Project Project Number Date Sampling Time Weather	1400 1400 14	BTHROP 1492,0409 -13-09 244 WD	<del></del>	Site Location Sampled By Recorded By Coded Replica		WPAGE A FUL	14.	Well ID_	6M-7	LID
Instrument Ider Water Quality N						Serial #		·.		
Casing Materia			-	Purge l	Method					
Casing Diamete				Screen	Interval (ft bm)	p) Top			Bottom	
Sounded Depth	ı (ft bmp) 👆	. ( ) . 61	9	_	ntake Depth (ft					
Depth to Water	(ft bmp)	41,4		_ Purge `		Start			rinish	
			····	Field Parameter		Conductivity				Depth to
Time	Minutes Elasped	Flow Rate (mL/mln)	Volume Purged	Temp (°C)	pH (s.u.)	(umhos or -m6/om) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water (ft bmp)
140				15.4	5,33	111,0	202	8,79		41.48
1:45				15,2	5.25	1118	210	9.64		4147
1:50			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	152	624	112.0	219	9.30		
1:55				157	524	1121	217	9,79		
2500				152	571	11/2.1	214	951		
2:05				150	5.7	11/23	217	9.75		4/49
				ICa.	514	1110	7.23	9.74		
2:10				100	CII	I Troco	217	12/1		
2:16				1510	2110	110		07/2		
2:20			<u> </u>	15,0	501/	1100	4.19	CIA		11/10
225	<u> </u>			1514	5.04		142	9,60		41,97
2.30		·		15/2	5.10	110	310	9.65		
2:35	·			150	5.03	1162	建	9.48		111.10
2,400			!	1512	5.07	116.5	214	9,60		41.49
Collected San Parameter	nple Condition		Color COL	QL11535	Odor	NOWE NO.		Appearance_	CUAR Preservative	
·.		···			<del>-</del>			_		
PID Reading			<del></del>							
Comments	· ·					.,,,,,		<u>, , , , , , , , , , , , , , , , , , , </u>		
		· · · · · · · · · · · · · · · · · · ·			······································					
							<del></del>			
		····							<del></del>	



Infrastructure, environment, facilities

	11	,	`.	/-riow Gro		,	Log			
Project	North	no bru	emage -	Systems	L 3-10 a	ratus	160		GM-3	2.2.00
Project Numbe	r <i>NY0<u>0</u>)49</i> 3	16/09.0	0002	Site Location	<u> PC)</u>	togge, A	<i>//</i>	Well ID	0 /1 2 2	27/2
Date	_/1/	11:45	<u></u>	Sampled By	Ja	ry Wills	oerthy	erone c	16-71-4J	
Sampling Time Weather	Car	79 4	P "	Recorded By Coded Replica		rome	UEV IM			
vveauter	2 47	199		Coded Replica	ite No					
Instrument Ide		hb	1 08	e Lan	. 1.543	On a graduid	(j2-no	(La )		
Water Quality N	Aeter(s) O@	icios prije	ord, on	P, Y13RO	, comin e			•		
Casing Materia	l .	40		Purge l			10w 410	ir Joledon	in ted	bladder_
Casing Diamete				-	Interval (ft bm		500		Bottom	
Sounded Depth	,	520 46.	<u>/</u>	_	intake Depth (ft		10:40	2	Finish	
Depth to Water	(tt pmb)	, , ,		Purge '		•			rinisii	
· 1	·	1	T	Field Parameter	· Measurements	Conductivity		1		Depth to
Time	Minutes Elasped	Flow Rate (m⊔min)	Volume Purged	Temp (°C)	pH (s.u.)	(umbos or	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water (ft bmp)
10:40	0	450		13.3	5.26		70	9.70	·	(12.0.1.2)
10:45	5	,		13.9	5.22		65	9.03		
10:50	10			14.6	5.13		50	8,29		
10:55	15			14.6	5.13	114.5	50	9.04	5.0	47.62
11:00	20			14.4	5.16	113.0	44	8.56		
11105	25			14.4	5.13	112.3	47	9.58		
11:10	30			14.3	5-15	112.1	49	8.95		
11:15	35			14.2	5.17	111.8	45	9.00		
11:20	40			14.1	5.19	1/1.4	49	9,02	4.8	47.66
11:25	45			13,7	5.20	111.4	41	9.21		
11:30	50			13.5	5.22	111.4	43	9,20		
11:35	55		-	13.5	5,21	111-1	39	9.21		
11:40	60	V		13.4	5-21	111.4	38	9.22		
Collected Sam	ple Condition		Color h	ne	Odor	none		Appearance	char	<del></del>
Parameter TVO C			Container 40 1	wa		No.			Preservative HC/	
			*******		<del>.</del>			<del>-</del> 		
					•	h		_		···, ··· · · · · · · · · · · · · · · ·
PID Reading	(	0,0	_							
Comments		······································			*					
		· · · · · · · · · · · · · · · · · · ·								<del></del>
			•••							
		····						·······		



Infrastructure, environment, facilities

Low	/-Flo	W	Groundwa	iter	Sampling	Log
		,		1		

Project Project Number	Nos	throp G.	umman &	Systems ,	Copyate.	, 042				
Project Number	NY0014	12.0409	00002	Site Location	Bel	hoage N William Jerome	<u>y</u> .	Well ID_	GM-3	9 <u>D</u>
Date	11	15/09		Sampled By	Gary	willian	4 Jen	ome Oe	r Hing	
Sampling Time		2:10		Recorded By	/	Jerome	Oer Hi	ng		
Weather	clo	15/09 2:10 4dy 50	. 0	Coded Replicat	te No. <u>RE</u>	P11050	9	•		
Instrument Ider							-	×		
Water Quality N	leter(s) oa	Han pH,	and ORP,	YJI DO I	barrith Li	<i>Lo</i> Serlal #	(gray	ian)		<del></del>
Casing Materia	l ,	5 tec.	/	Purge I	Method	-	10 m f/s 309 314	~ / blac	de (ded	rated)
Casing Diamete	er			Screen	Interval (ft bmp	o) Top	309	E	Sottom	
Sounded Depth	(ft bmp) 👆	319		Pump I	ntake Depth (ft	bmp) .	317	<del>-</del>		
Depth to Water	(ft bmp)	12.8		Purge 1		Start	11:05	<del> </del>	Finish 12	
r		·	F	ield Parameter	Measurements	Conductivity	9		1	Depth to
Time	Minutes Elasped	Flow Rate (m⊔min)	Volume Purged	Temp (°C)	pH (s.u.)	(umhos or	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water (ft bmp)
11:05	0	400	***************************************	15.2	7.32	2.41	150	8-24		
11:10	5	i		15.2	7,34	235	120	5.78		
11:15	10			15.3	7,35	240	110	2.80		13.02
11:20	15			15.7	7.72	238	-57	1.63		·
11:25	20			15.9	7.77		-145	1.07	6.8	···
11:30	25			15.9	7.79	ļ	-146	1.10		
11135	30			15.9	7.83	1		1.07		13.01
11:40	35			16.2	7.90	234	-169	1.05		
11:45	40			16.1	7.91	234	-172	1.01		
11:50	45			15-9	9.13	<del>                                     </del>	-203			
11755	50			15.9	9.14		-205	<del></del>		
12500	55		_	16.0	9.11	<del></del>	-205		8.0	
12105	60			16.1	9.11	229	-204	1.15		
12110	65	Ψ		16.1	9.10	226	-209	1.11		
Collected Sam	ple Condition		color ele	'ar	Odor_	none		Appearance_	chear	
Parameter TVOC			Container 40 ~ /	VOA	<b></b>	No. 3		<del></del>	Preservative HC/	
		<del></del>			_			-	,	
PID Reading	0.	0			<b></b>			_		
		······································	·							
Comments	<del></del>									

¹⁾ Circle one unit type



Infrastructure, environment, facilities

## Low-Flow Groundwater Sampling Log

Duningt	No. H	no lon		stems (	marks	. 04	>			
Project Project Numbe		1492.096			Bell	page		Well ID	GM-3	3402
Date		5/09	<u> </u>	Sampled By	Gar	Will. 20	ms + Jer	vme Oc	~1/14	
Sampling Time	<del></del>	3:32		Recorded By	Jé.	one C	Dentling		7	
Weather		thy cloud	50	Coded Replica			······			
Instrument ide				. 4						
Water Quality I	Neter(s)	ehh-	co 2,01	RR YIEP	of Land L			van		
Casing Materia	1	S+	re l	Purge I	Method	,	low flow	-, b/ <dd< td=""><td>e (407</td><td>dedrahd 20</td></dd<>	e (407	dedrahd 20
Casing Diamet	er			Screen	Interval (ft bmp	) Top	510	E	کر Bottom	<u> </u>
Sounded Depti	ı (ft bmp) 👆	<i>5</i> 2	.0	Pump I	ntake Depth (ft		515			
Depth to Water	(ft bmp)	14.5		Purge 1		•	1212,	<u> </u>	Finish 13	2 3 5
	··	· · · · · · · · · · · · · · · · · · ·		Field Parameter	Measurements		9 ,	· · · · · · · · · · · · · · · · · · ·		Depth to
Time	Minutes Elasped	Flow Rate (mL/mln)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or m6/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water (ft bmp)
12125	0	350		14.9	8.12	164.2	-130	3.82		
12:30	5			14.8	8.27	165.4	-/33	3.34		
12:35	10			14.8	A. 33		<u> </u>	2.86		
12.40	15			15.9	8,02	137,6	-156	1.60		
12:45	20			16.6	7.79	126.2	-166	1.07		
12:50	25			16.3	7,60	120,2	-/72	0-63	7.8	14.56
12:55	30			16.1	7.58	120.0	-170	0.62		
13:00	35			15.8	7.54	119.3	-1.68	0.81		
13:05	40			15.7	7.54	118,9	-164	0.59		
13:10	とブ			15.7	7,52	118.6	-162	0.60		
1315	50			15.6	7.53			0.65		
1320	55			15.7	7.24	115.7	-150	0,64		
132J	,60	8/		15.8	7.22	117.8	-151	0.83	6-5	
			,						/	
Collected Sam	ple Condition		Color	4c	Odor_	bou	<del>=</del>	Appearance	clear	<del></del>
Parameter			Container	1 LOA		No. 3			Preservative $\mu$ C /	
		-		. ,	•			<u>.</u>		
<u>`,</u>	· · · · · ·	-		· · · · · · · · · · · · · · · · · · ·	-			-		·
PID Reading	······································		_							
Comments										
		·								<del></del>
					<u> </u>	······				
		····	<del></del>							





## Water Sampling Log

Project N	Mayrof-6K	WMMAN	Project No	14 BO (	446.04	04.000	38.5
Site Location	BETHPAD	ليح		Date	11-16	0-09	
Well No.	GM-35	D-7 Replicate I	No	Weath	er		
			· ,	30			
Sampling Personn	el GW	Sampling ²	Time: Begin 2	). 169 <u> </u>		End	
Purge Data		`	Field Parameters	;			
Measuring Point (c	describe)	TOC	Color		ONWYS	>	
Sounded Well Dep	oth (ft bmp)	530	Odor	SU	E64T		<u>.</u>
Depth to Water (fit	bmp)		Appearance	<del>N</del>	CLERA	<u>(                                    </u>	
Depth to Packer (f	t bmp)	507			·		
Water Column in V	Well (ft)	23		1	1V	2V	3V
Casing Diameter		44(0.65)	рН (s.u.)	6.0	5,00	5.29	5.45
Gallons in Well		1495	Conductivity				
Gallons Purged		x 3	(mS/cm) or				
Prior to	Sampling _	45.	(µmhos/cm) 1)	1931	136.3	137.7	1348
Pump Intake				122	17.0	100	
Setting (	(ft bmp)		Temperature (°C)	100	1 1.0	15.9	15:4
Packer Pressure (	psi)						
Pumping Rate (gp	om) _		DO (mg/L)				
Evacuation Metho	d		ORP (mV)		,		
Sampling Method	_		Turbidity (NTU)			ļ.,	
Purge Time	Begin_	2\$5 End 5110	Time	2:45	3:51	4135	5:03
			DTW (ft bmp)				
Remarks:	Miller	(5 GA1	PATIS	RO	ZAKEO M	Jz Cycs	NOTER
	507 -		250 PSI	BOSEH	T RIPRIA	UMENT	PARTS
				FOR	PETOUR	mor /	COOLEM.
Parameter	•	Container	No.			Preservativ	e
					_		
					<del>-</del>	<u> </u>	
PID Reading							
	Well Casing Vo	lumes				<u> </u>	
Gal./Ft. $1^{1/4}$ = 0	).06 2" = 0	0.16 3" = 0.37	4" = 0.65				
$1^{1/2n} = 0$	).U9 2-½"	= 0.26 3-1/2" = 0.50	6" = 1.47				



Infrastructu	ıre, environ	ment, facili	ties							
	•		Low	-Flow Gro	undwater	Sampling	Log			
Project Project Numbe Date		00 610 492,040		Site Location Sampled By	Co-port Bet Ga	hogy N	<u>y</u>	Well ID_	GM-	7502
Sampling Time		1350		Recorded By	1		DerHitz			
Weather .	wildy	, pally s.	490	Coded Replicat					-	
instrument ider Water Quality N		hton ph	cord o	RP YJIO	De la the	レンス。Serial #	(Over	Van)		
Casing Materia	ı	PVL		Purge f	Method	_	10m fl	ow/ dec	lacked	bladder
Casing Diamet		44		•	Interval (ft bmp	o) Top	503	- / 	lottom	25
Sounded Depti	ı (ft bmp) 🛶	52	<u>-</u>	Pump I	ntake Depth (ft	bmp)	12586			<u></u> 31 <i>Tエ</i>
Depth to Water	(ft bmp)	<b>33.</b> d	<del>ک</del> ــــ	Purge	lime .	Start	16376		Finish/	3 7 7 7
· · · · · ·		T		ield Parameter	Measurements	During Purging	g			Depth to
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	(umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Water (ft bmp)
12:50	0	400		135	J. 28	1.24.1	107	15.88		
12155	5			13.1	5.18	126.3	118	13,74		33.84
13:00	10			13./	4.99	132.3	125	10.90		
13:05	15			13.4	4.94	136.7	170	9.30		
13:10	20			13.4	7.95	137,2	131	9,47		
13:15	25			13.5	4.96	138.1	139	9.89		
13520	3.0			13.1	4.90	1373	140	9.68		
1375	35			13.2	4.97	136-6	146	9.31		
13:30	40			13.2	4.98	136.7	149	9.39		
13135	45			13.3	4.92	136.4	156	9.29	3.9	
13:40	TO			13.2	4.97	136.8	156	9.44		33.86
13:45	アケ		-	13,1	4.98	136.2	150	9.68		
1350	60	*		13.0	4.95	136.7	160	9.62		
Collected Sam	unia Canditian		Color N 2	<u></u>	Odor_	none		Appearance_	clear	
Parameter			Container	VUA	-	No.			Preservative	
		<del>-</del>			<del>-</del>			<b></b>		
PID Reading		- 0.0	-					_		

¹⁾ Circle one unit type



Infrastructu	re, environ	ment, facilit	ies							
•	ì		Low	-Flow Gro	undwater	Sampling	Log			
Project	No- H	up Gra	mar So	skus C	Comparet.	n 04	<u> </u>		C. M	107
Project Number	NY0014	92.0409	00002	Site Location	rette	oge n	<u> </u>	Well ID_	<u> </u>	
Date	_1/_	15/09	····	Sampled By	<u>Va</u>	y willia	ns se	rose ve	11-3-	
Sampling Time		7		Recorded By		one c	er Hing			<u>-</u>
Veather	por	Hy Suny	0 6.	Coded Replica	te No.					
nstrument ider		(L).	1 00	ם צודים	has to	k 2005erial#	(grey	· ivas)		
		,		Purge I			instance of		Prdizah	ed Blada
Casing Material		18		•	Interval (ft bmp	 (c) Top	170	- <i>(</i> -	ottom /	ed Blado 80
Casing Diameto Sounded Depth		18	0	-	ntake Depth (ft	· -	175	-		
Depth to Water		38.		- Purge		Start_	14:5	5	Finish	
·				Field Parameter	Measurements	During Purging	l			
Time	Minutes Elasped	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
161.75	0	400	Purged	14.6	6,10	mS/cm) 11 7 4.8	10	9.85	11	(1. 5.1.1)
15:00	<del>- 5</del>	)		14.6	6.00		. 11	8-57		38.95
15:05	10			14.9	5.95	796	15	7.90		
15:10	15			15.1	5.88	90.7	22	10,22		
15:15	20			15.2	5.88	95.6	30	10,80		
15:20	25			15.2	5.83	100.2	31	9.87		
15:25				15-1	7.81	1035	31	9.44	7.0	38.95
15:30	35			15.1	5.81	105.1	32	9.27		
15:35	40			15.0	5.66	116.8	41	11.22		
15:40	45		20	15.1	5.64	119.0	42	9.49		
15:45	50			75.1	5.72	120.5	43	9.46		
			-							
Collected Sam	ple Condition	<del>.l</del>	Color hio.	~e	Odor_	nom		Appearance	clear	·
Parameter			Container 40'm			No.			Preservative	
+100					<del>-</del>			_		
·		- ·			_			<b></b>	· · · · · · · · · · · · · · · · · · ·	<del></del>
PID Reading		0.0								
Comments	· ·									

1) Circle one unit type



Infrastructure, environment, facilities

## Low-Flow Groundwater Sampling Log

Project	NorT	throp 6	MANGE	Lysky	Corpora	the of	<u> </u>		(-M-	790
Project Number	NYOO	1492.040	200002	Site Location			<u>vy</u>	Well ID	GM-	111/
Date	<u> 17 -</u>	15/09	·	Sampled By	1	y willow			4.11.20	
Sampling Time		7:00	~	Recorded By	4 -	eropue -	Oe H.	<u></u>	······································	<u> </u>
Veather	clon	dy 5	<i>D.</i>	Coded Replicat	e No	5 JUSP				
nstrument iden	tification	,						. ~		
Nater Quality M	eter(s) oah	to pH a	id, ORP,	YJ.I P.O.	Indilants.	2/20 Serial#	(On	· y Var)		
		PVC		Purge N				/ de dre	and I	b/adda-
Casing Material Casing Diamete		47		•	Interval (ft bmp	) Top	280	<i>,</i>	Bottom2	90
Sounded Depth	•	290	······	•	ntake Depth (ft		285		·	
Depth to Water		40.		Purge 1	[Ime	Start_	16:0	0	Finish	7:05
. •	•		1	Field Parameter	Measurements	During Purging	j			
Time	Minutes Elasped	Flow Rate (m⊔min)	Volume Purged	Temp (°C)	рН (s.u.)	Conductivity (umhos or mS/cm) 1)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)
16:00	0	400		14.8	5.87		52	15.47		
16:05	3	700		14.8	<b>5</b> .73	86.8	سر-ر	12.06		
				14.6	برسر بر	1022	62	10.70	7.0	
16:10	10			14.4	5.53		64	8.01		
16115	15			14.3	5.47	1151	69	6,16		
16:20	<u>νο</u>			<u> </u>						40.20
16:25	25			14.2	5.46	117.3		5.91	6+8	1,0,00
16:30	30			14.2	5.45	120.6	75	1.87	040	
16:35	3 ブ			14,2	5.39	123.6	80	6.20		
16:40	40			14-1	5.39	124.9	8.9	7.35		
16:45	45			14.1	5.37	126.5		7.10		
16:50	50			14.1	5.38	126-6		7.00	5.0	
16:50 16:55	<i>J.</i> ナ			14.1	5,38	127.6	105	7.85		
17:00	\$60			14.1	5,35	127.6	109	7.81		40.08
17:05	65			14.1	5.34	1225	108	7.79		
Collected Sam	nla Condition	<u> </u>	Color non	· ·	Odor_	nime		Appearance_	clear	
Parameter	pie Condition		Container			No.			Preservative	
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<u>0000</u> 2		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		(		M	8				, —	y			Ai-		Organization: — Organization: —	Organization: — Organization: —	Report	人   Description
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Project Number/Name $\overline{M/oo}/9/92$ , $\overline{O/9}/92.05$ 2.	Project Location Bethooge WY	<b>~</b> 3	iliation $\mathcal{E}_{k,\ell}$	Location Matrix		202	7 70.									ר = וווּשְׁתוּמיׁ	by:Ucranc	by:	ions/Remarks:	
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Yes No N/A Yes No N/A Total Seal Intact? Seal Intact? Total No. of Bottles/ Reportused 19 Page __ Remarks CHAIN-OF-CUSTODY RECORD □0ther Time Time Time 0 JAN STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT STANDANT MALYSIS / METHOD / SIZE Lab Courier 150 Date 🔏 Date Date Date BAAS DOZ Laboratory Task Order No./P.O. No. Steres グラッグ ACommon Carrier 4 W) œ,  $\omega_{\omega}$ M W  $\omega$ Organization: Sm M M Organization: Organization: 3 Órganization: Lab ID 1 = Air Project Number/Name/小かり行ん。つての名。在 Sampler(s)/Affiliation ) : MCUIT Ext / Size 0550 3601 133 8511 11/5/B 0515 3150 SE 8 , V 3 Laboratory Wunder Amacifican * Date/Time Project Manager (ALLO SDA Grave Sampled ∢ = Solid; Project Location Serviped AV ☐ In Person A ARCADIS 22(5) Matrix PERE = Liguid Special Instructions/Remarks: Sample ID/Location Mer 62611 MSD Delivery Method: アダイが かっつ Rep 110909 TON BLANK Relinguished by: Relinguished by: るとにん 921 10 るなれだけ Well 17 アントラグ 40EGC 18 96 EFF Received by: Sample Matrix: Received by: シェング 20.64 Sect 14.21

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