# Closure Monitoring Plan

# Final Data Summary Report

Operable Unit No. 2
Kentucky Avenue
Wellfield Site
Horseheads, New York

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Appendix A: Field Forms (On Compact Disk)
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# 1. INTRODUCTION

On behalf of CBS Corporation (CBS), Woodard & Curran Inc. has prepared this Final Data Summary Report (DSR) related to Operable Unit No. 2 (OU-2) at the Kentucky Avenue Wellfield Site (the Site) located in Horseheads, New York (Figure 1). This Final DSR was prepared in accordance with the Revised Closure Monitoring Plan (CMP) (Cummings/Riter, Consultants, Inc., 2014[1]), which was subsequently approved by the U.S. Environmental Protection Agency (USEPA) during a conference call on March 20, 2014. The Revised CMP summarized soil remediation completed in Operable Unit No. 3 (OU-3), trichloroethene (TCE) concentration trends in groundwater, and the configuration of the current groundwater plume. In addition, the CMP demonstrated that the remedial objectives for the barrier well treatment system (BWTS) have been met as established in the Administrative Order for Remedial Design and Remedial Action, Index No. II Comprehensive Environmental Response, Compensation, Liability Act 10219 (Order), and discontinuation of the operation of the BWTS was proposed. The installation of four monitoring wells (MW-15S, MW-15D, MW-16S, and MW-16D) along the downgradient property boundary, a post-shutdown quarterly groundwater monitoring program, and performance criteria for the groundwater monitoring program were also prescribed in the Revised CMP. Operation of the BWTS was discontinued in April 2014, and the quarterly CMP monitoring program was then implemented. The CMP monitoring program provided in the USEPA-approved Revised CMP included up to eight quarterly monitoring events at select monitoring well locations following the suspension of the BWTS.

Various remedial activities have been completed under OU-3 since the start-up of the BWTS and have included the Former Runoff Basin (FRB) and Disposal Area F at the Site. Because the BWTS is only designed to collect groundwater at the downgradient property boundary, these remedial efforts have been considered successful in reducing volatile organic compounds (VOC) impacts and, more particularly, TCE in Site groundwater.

Analytical data indicate that remedial actions have effectively reduced concentrations of VOCs on Site and at the downgradient limit of the Site. Recent groundwater flow patterns were consistent with historical patterns and are representative of conditions without the influences from the pumping of the barrier wells.

This Final DSR summarizes data collected during the complete quarterly CMP monitoring period and presents conclusions of the CMP monitoring program based on the eight quarterly monitoring events since the shutdown of the BWTS.

Section 2 of this Final DSR provides a summary of the field activities associated with the post barrier well shutdown groundwater monitoring program, and Section 3 summarizes the results for the post barrier well shutdown groundwater monitoring program. Section 4 presents conclusions of the CMP monitoring program.

[1] Cummings/Riter Consultants, Inc., 2014, "Revised Closure Monitoring Plan, Operable Unit No. 2, Kentucky Avenue Wellfield Site, Horseheads, New York," January 7.

# 2. FIELD ACTIVITIES SUMMARY

Water level monitoring, and groundwater sampling and analysis have been performed in association with the implementation of the CMP, and are summarized in the following sections.

## 2.1 WATER LEVEL MONITORING

Groundwater levels for Site monitoring wells indicated in Table 1 and shown on Figure 2 were measured as part of quarterly CMP monitoring events. The depth-to-groundwater was referenced to the surveyed elevation of the polyvinyl chloride (PVC) casing. The resulting groundwater elevations are summarized in Table 2. Figures 3 and 4 are potentiometric surface maps for the shallow and deep portions of the Newtown Creek Aquifer, respectively, using water level elevations measured during the February 2016 quarterly sampling event. Based on the groundwater elevation data collected during the most recent water level monitoring event (February 2016), groundwater flow at the Site is consistent with historical data, which depicts the groundwater flow in both portions of the aquifer to be to the east-southeast. Recent groundwater flow patterns are also consistent with those observed during system shutdown (Table 2), which were also completed at a time during which the barrier wells were not in operation. In general, the water levels as depicted are consistent across the period.

## 2.2 POST BARRIER WELL SHUTDOWN GROUNDWATER SAMPLING AND ANALYSIS

For the eight quarterly CMP monitoring events, groundwater samples were collected in July and October 2014, January, April, August, and November 2015, and in February and May 2016 from the monitoring wells identified in Table 1. The monitoring wells were purged and sampled using either dedicated or portable QED Environmental Systems Well Wizard® low-flow, positive-displacement, bladder pumps. Purging and sampling were completed using low-flow techniques. The water level in the well being sampled was monitored during purging, and the purge rate was maintained less than 500 milliliters per minute to minimize drawdown in the well. The following geochemical parameters were measured and recorded every five minutes during purging by field personnel using a water quality meter with an airtight flow-through cell:

- temperature
- pH
- specific conductance
- oxidation-reduction potential
- dissolved oxygen
- turbidity

Purging was considered complete once the wells stabilized (i.e., three consecutive readings within 10 percent for each geochemical field parameter). Groundwater samples were then collected by filling the required sample containers from the pump discharge.

Groundwater samples were analyzed for select VOCs using USEPA Method 8260B by Eurofins Lancaster Laboratories of Lancaster, Pennsylvania. In addition, quality assurance/quality control samples, including one blind duplicate and one trip blank, were collected and submitted to the analytical laboratory during each sampling event. Groundwater sample containers were appropriately labeled and placed into coolers containing ice. Groundwater samples were shipped to the laboratory via overnight courier at the completion of each monitoring event. Proper documentation was completed, including well purging forms and water sample collection forms, and are included in Appendix A for the eight quarterly CMP monitoring events. Purge water generated was collected and contained onsite in a 55-gallon drum stored in the BWTS building for subsequent characterization and disposal.

# 3. SUMMARY OF FINDINGS

This section summarizes the results of the groundwater sampling and laboratory analysis conducted for post-shutdown monitoring.

In accordance with the Revised CMP, the average groundwater flux at the downgradient property boundary was assessed following each of the CMP sampling events. The average TCE concentration in groundwater samples collected from Monitoring Wells MW-15S, MW-15D, MW-16S, and MW-16D was less than the USEPA drinking water maximum contaminant level (MCL) during the shutdown-monitoring period. The average TCE concentration was 2.47 micrograms per liter (µg/l) over the course of the entire period. Furthermore, the concentration of TCE in these monitoring wells was stable or decreasing during the monitoring period. The May 2016 sampling event marks the ninth consecutive quarter, including the baseline sampling event (April 2014), that the average TCE concentration in groundwater samples collected from Monitoring Wells MW-15S, MW-15D, MW-16S, and MW-16D was less than the MCL.

Barrier Wells BW-1 and BW-2 were last sampled in April 2014 immediately prior to discontinuation of the operation of the BWTS. It is noted that TCE concentrations at Barrier Well BW-1 were below the MCL of 5.0 µg/l from 2004 through the April 2014 sampling event, and TCE concentrations at Barrier Well BW-2 steadily decreased from a high of 17.5 µg/l in 2001 to a low of 7.0 µg/l in April 2014.

## 3.1 POST BARRIER WELL SHUTDOWN GROUNDWATER MONITORING

Groundwater from 14 monitoring wells (Figure 2) was sampled for the quarterly CMP monitoring program, and samples from these wells were analyzed for select VOCs including the following:

- *cis*-1,2-dichloroethene (DCE)
- *trans*-1,2-DCE
- TCE
- 1,1,1-trichloroethane (TCA)
- vinyl chloride

As described in this Final DSR, results from the quarterly CMP groundwater monitoring program indicate that VOC concentrations at the Site are either stable or decreasing while the BWTS was not in operation. Analytical data for the eight quarterly CMP monitoring events are presented in Table 3. Laboratory data packages are provided in Appendix B for the eight quarterly CMP monitoring events. The results for the monitoring events are summarized below.

During the eight quarterly CMP monitoring events that were completed following suspension of the BWTS (July 2014 through May 2016), each VOC analyzed, with the exception of *trans*-1,2-DCE and vinyl chloride, was detected above laboratory reporting limits in at least one sample collected (Table 3). The only parameter with detected concentrations exceeding its respective MCL was TCE. TCE was the most prevalent VOC detected and exceeded the MCL of 5.0 µg/l in samples collected from eight monitoring wells (MW-8D, MW-9D, MW-9S, MW-10S, MW-16S, CW-3D, CW-3S, and MW-113D) during at least one sample event. Figures 5 and 6 show the TCE concentrations detected in monitoring wells in the shallow and deep portions of the Newtown Creek Aquifer, respectively, from the eighth quarterly sampling event (May 2016).

Including the recently completed May 2016 quarterly CMP monitoring event, the average TCE concentration in groundwater samples collected from Monitoring Wells MW-15S, MW-15D, MW-16S, and MW-16D, which are located

along the downgradient property boundary, has remained below 5.0 µg/l for eight consecutive quarters since operation of the BWTS was discontinued. The average TCE concentration in groundwater samples collected from these four monitoring wells while the BWTS was still in operation (April 2014) was 2.9 µg/l. Following the suspension of the BWTS, average TCE concentrations for groundwater samples collected from Monitoring Wells MW-15S, MW-15D, MW-16S, and MW-16D were 3.5 µg/l in July 2014, 2.75 µg/l in October 2014, 2.5 µg/l in January 2015, 2.8 µg/l in April 2015, 2.3 µg/l in August 2015, 2.1 µg/l in November 2015, 2.0 µg/l in February 2016, and 2.0 µg/l in May 2016.

It is noted that a significant decreasing trend in the TCE concentration at Monitoring Well MW-10S was exhibited from 53 µg/l reported for the last sampling event (December 2013) prior to discontinuation of operation of the BWTS to 8 µg/l reported for the recently completed May 2016 quarterly event. Some variability has been observed in TCE concentrations reported at Monitoring Well MW-8D in 2016. The TCE concentration increased from 5 µg/l in the July 2014 quarterly CMP event to 14 µg/l in the May 2016 event, but overall since 1998, TCE concentrations have exhibited a decreasing trend at this well.

In addition, TCE concentrations detected in samples collected from Monitoring Wells MW-7S and MW-7D, which are located near the downgradient property boundary and north of the Monitoring Wells MW-15 and MW-16 series wells (Figure 2), following the BWTS shutdown are comparable to those present while the BWTS was in operation. Concentrations of TCE at these two wells continue to remain below the MCL.

These findings demonstrate that the remedial activities performed in Disposal Area F and the FRB have effectively reduced sources of VOCs, particularly TCE, in groundwater. The parameters established and agreed upon in the USEPA-approved Revised CMP have been satisfied. Groundwater VOC concentrations as observed in MW-7S, MW-7D, MW-15S, MW-15D, MW-16S, and MW-16D at the downgradient property line demonstrate that groundwater at the downgradient eastern site boundary are below MCLs.

# 4. CONCLUSIONS

Groundwater leaving the Site is below MCLs at the downgradient property line based on VOC groundwater analytical results from the eight quarterly CMP monitoring events at Monitoring Wells MW-7S, MW-7D, MW-15S, MW-15D, MW-16S and MW-16D. Additionally, TCE concentrations in downgradient monitoring wells offsite (CW-3S, CW-3D, and MW-113D) remain unchanged with operation of the BWTS discontinued (Table 3). The preceding conditions demonstrate that groundwater quality at the downgradient property boundary is achieving MCLs during non-pumping conditions, and groundwater quality downgradient of the Site during non-pumping conditions is consistent or improved when compared to conditions while the BWTS was in operation.

The primary contaminant associated with the Site is TCE. However, it should be noted the post-shutdown concentrations of the other select chlorinated VOCs (*cis*-1,2-DCE, *trans*-1,2-DCE, and vinyl chloride) in the CMP monitoring program were also consistent with those during pumping conditions. These three chlorinated VOCs were not detected above laboratory reporting limits in the majority of pumping and post-shutdown sampling events. Note that 1,1,1-TCA was not analyzed for during pumping conditions.

In accordance with the Revised CMP, in order for groundwater remediation to be deemed complete, the average TCE concentrations of groundwater samples collected from Monitoring Wells MW-15S, MW-15D, MW-16S, and MW-16D must be below the MCL of 5.0 µg/l for four consecutive quarters following the suspension of the BWTS. The average TCE concentration in groundwater samples collected from these four monitoring wells has remained well below 5.0 µg/l for the eight consecutive quarters since operation of the BWTS was discontinued. In addition, Monitoring Wells MW-7S, MW-7D, MW-15S, MW-15D, and MW-16D located at the downgradient property boundary have been below MCLs for all eight consecutive quarters. Monitoring Well MW-16S has been at or below MCLs for the last five consecutive quarters.

Through the completion of the eight quarterly CMP groundwater monitoring events, it has been demonstrated that the change in groundwater quality since operation of the BWTS was discontinued has remained stable or improved and the parameters established and agreed upon in the USEPA-approved Revised CMP have been satisfied.

# TABLES

**Table 1: Closure Monitoring Plan Groundwater Monitoring Wells**

**Table 2: Groundwater Elevations**

**Table 3: Groundwater Analytical Results**

**TABLE 1**
**CLOSURE MONITORING PLAN**
**GROUNDWATER MONITORING WELLS**
**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**
**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**
**HORSEHEADS, NEW YORK**

| Well No. | Function |
|---|---|
| CW-3D | Monitoring point downgradient of Barrier Wells. |
| CW-3S | Monitoring point downgradient of Barrier Wells. |
| MW-7D | Monitoring point near the downgradient property boundary. |
| MW-7S | Monitoring point near the downgradient property boundary. |
| MW-8D | Monitoring point near Barrier Wells. |
| MW-8S | Monitoring point near Barrier Wells. |
| MW-9D | Monitoring point upgradient of Barrier Wells. |
| MW-9S | Monitoring point upgradient of Barrier Wells. |
| MW10S | Monitoring point downgradient of trichloroethylene source area (Disposal Area F). |
| MW-15D | Monitoring point near downgradient property boundary. |
| MW-15S | Monitoring point near downgradient property boundary. |
| MW-16D | Monitoring point near downgradient property boundary. |
| MW-16S | Monitoring point near downgradient property boundary. |
| MW-113D | Downgradient monitoring point downgradient of Barrier Wells. |

**TABLE 2**

**GROUNDWATER ELEVATIONS**

**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**

**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**

**HORSEHEADS, NEW YORK**

| Well ID | Top of Riser Elevation (feet MSL)[a] | 12/10/1996 Groundwater Elevation (feet MSL) | 3/17/1997 Groundwater Elevation (feet MSL) | 10/20/1997 Groundwater Elevation (feet MSL) | 1/6/1998 Groundwater Elevation (feet MSL) | 1/15/1998 Groundwater Elevation (feet MSL) | 2/16/1998 Groundwater Elevation (feet MSL) | 3/26/1998 Groundwater Elevation (feet MSL) | 4/20/1998 Groundwater Elevation (feet MSL) |
|---|---|---|---|---|---|---|---|---|---|
| CW-3S | 901.97 | 895.39 | 892.99 | 884.92 | 887.53 | 890.45 | 890.45 | 893.14 | 894.81 |
| CW-3D | 901.29 | 894.80 | 892.34 | 884.97 | NA[b] | NA | 890.39 | 893.00 | 893.62 |
| CW-7S | 901.23 | 890.04[c] | 888.66 | 884.78 | NA | NA | NA | NA | 889.78 |
| CW-7D | 901.48 | 890.13[c] | 888.80 | 884.52 | NA | NA | NA | NA | 889.72 |
| CW-9D | 893.42 | NA | 881.92 | 880.21 | NA | NA | NA | NA | 884.04 |
| MW-1S | 911.90 | NA | NA | 894.77 | 898.05 | 900.66 | 899.59 | 902.55 | 903.11 |
| MW-1D | 911.84 | NA | NA | 894.54 | 897.94 | 900.60 | 899.51 | 902.49 | 903.14 |
| MW-2D | 909.88 | NA | NA | 893.94 | 897.90 | 900.42 | 899.55 | 902.62 | 903.46 |
| MW-5S | 907.33 | NA | NA | 890.29 | 894.96 | 897.08 | 897.35 | 899.61 | 900.41 |
| MW-5D | 906.79 | NA | NA | NA | NA | 897.09 | 896.28 | 899.59 | 900.37 |
| MW-6S | 905.68 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7S | 904.35 | 897.11 | 894.57 | <887.65 | 890.07 | 893.36 | 893.46 | 895.79 | 896.20 |
| MW-7D | 904.73 | 897.19 | 894.73 | 886.51 | 889.18 | 893.49 | 893.59 | 895.88 | 896.32 |
| MW-8S | 907.67 | NA | NA | 884.00 | 886.94 | 891.29 | 891.28 | 895.26 | 895.67 |
| MW-8D | 907.54 | NA | NA | 881.49 | 886.30 | 890.79 | 890.92 | 894.79 | 895.47 |
| MW-9S | 912.35 | NA | NA | 889.63 | 892.87 | 896.46 | 895.93 | 898.80 | 899.47 |
| MW-9D | 912.31 | NA | NA | 889.41 | 892.75 | 896.23 | 895.72 | 898.69 | 899.28 |
| MW-10S | 909.16 | NA | NA | 891.79 | 894.94 | 898.03 | 897.31 | 900.02 | 900.52 |
| MW-11S | 907.50 | NA | NA | 890.38 | 893.69 | 896.49 | 896.12 | 901.91 | 899.38 |
| MW-11D | 906.06 | NA | NA | 890.95 | 895.61 | 898.16 | 897.67 | 900.47 | 900.96 |
| MW-13S | 911.53 | NA | NA | NA | 897.88 | 900.41 | 899.48 | 902.44 | 902.91 |
| MW-15S | NI[d] | NI | NI | NI | NI | NI | NI | NI | NI |
| MW-15D | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| MW-16S | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| MW-16D | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| MW-100S | 913.46 | 893.20 | 891.14 | 885.61 | 887.53 | 889.81 | 889.95 | 891.90 | 892.31 |
| MW-100D | 912.67 | 892.99 | 890.97 | 885.52 | 887.56 | 889.74 | 889.82 | 891.76 | 892.21 |
| MW-101S | 896.22 | 890.07 | 888.77 | 884.97 | NA | NA | NA | NA | 889.93 |
| MW-101I | 895.19 | 889.92 | 888.57 | 884.76 | NA | NA | NA | NA | 889.79 |
| MW-103D | 896.12 | NA | NA | 878.35 | NA | NA | NA | NA | 885.62 |
| MW-105D | 899.91 | 889.39 | 888.01 | 884.17 | NA | NA | NA | NA | 888.96 |
| MW-106D | 893.63 | 881.39 | 878.45 | 874.95 | NA | NA | NA | NA | 879.26 |
| MW-107D | 898.22 | 877.00 | 874.33 | 870.82 | NA | NA | NA | NA | 875.14 |
| MW-108D | 896.11 | 885.11 | 882.66 | 877.85 | NA | NA | NA | NA | 883.83 |
| MW-109D | 892.73 | 879.12 | 876.31 | 871.46 | NA | NA | NA | NA | 882.42 |
| MW-111S | 907.16 | 898.34[e] | 895.46 | 887.21 | 890.42 | 894.15 | 893.45 | 896.45 | 897.15 |
| MW-111I | 907.02 | 898.17[c] | 895.14 | 886.77 | 892.03 | 895.15 | 893.37 | 896.27 | 896.92 |
| MW-111D | 906.65 | 898.52[c] | 895.58 | 887.42 | 891.35 | 894.55 | 893.83 | 896.97 | 897.78 |
| MW-112S | 896.79 | 887.37 | 886.04 | 882.69 | NA | NA | NA | NA | 886.66 |
| MW-113D | 898.11 | NA | NA | 884.83 | NA | NA | NA | NA | 892.53 |
| OW-1 | 905.71 | NA | NA | NA | NA | NA | NA | NA | NA |
| P-1 | 903.32 | NA | NA | NA | NA | NA | NA | NA | NA |
| P-2 | 900.31 | NA | NA | NA | NA | NA | NA | NA | NA |
| P-3 | 899.73 | NA | NA | NA | NA | NA | NA | NA | NA |
| SW-3 | 904.91 | NA | NA | NA | 890.53 | 893.72 | 893.74 | 895.30 | 895.92[f] |
| SW-4 | 906.49 | NA | NA | NA | 895.12 | 897.84 | 897.29 | 900.24 | 900.27 |
| SW-5 | 905.42 | NA | NA | NA | 887.66 | 892.14 | 892.21 | 894.86 | 894.90[f] |
| SW-6 | 904.37 | NA | NA | NA | NA | 892.32 | 892.55 | 893.32 | 895.65 |
| SW-7 | 906.22 | NA | NA | NA | 888.55[g] | 890.87 | 890.90 | 894.00 | 894.74 |
| BW-1 | 906.07 | NA | NA | 878.72 | NA | 889.09 | 889.27 | 892.25 | 894.02 |
| BW-2 | 906.78 | NA | NA | 879.88 | NA | 884.33 | 885.03 | 892.28 | 893.76 |

**TABLE 2**

**GROUNDWATER ELEVATIONS**

**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**

**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**

**HORSEHEADS, NEW YORK**

| Well ID | Top of Riser Elevation (feet MSL)[a] | 5/27/1998 Groundwater Elevation (feet MSL) | 6/24/1998 Groundwater Elevation (feet MSL) | 10/19/1998 Groundwater Elevation (feet MSL) | 4/26/1999 Groundwater Elevation (feet MSL) | 10/25/1999 Groundwater Elevation (feet MSL) | 5/1/2000 Groundwater Elevation (feet MSL) | 10/16/2000 Groundwater Elevation (feet MSL) | 4/16/2001 Groundwater Elevation (feet MSL) |
|---|---|---|---|---|---|---|---|---|---|
| CW-3S | 901.97 | 894.12 | 891.33 | 888.12 | 891.34 | 886.47 | 892.69 | 888.49 | 891.70 |
| CW-3D | 901.29 | 893.00 | 891.17 | 888.03 | 891.21 | 885.40 | 892.55 | 888.37 | 891.59 |
| CW-7S | 901.23 | NA | NA | 885.51 | 887.84 | 883.33 | 888.42 | 884.80 | 887.80 |
| CW-7D | 901.48 | NA | NA | 885.39 | 887.81 | 883.30 | 888.49 | 885.06 | 887.81 |
| CW-9D | 893.42 | NA | NA | 879.54 | 880.73 | 875.82 | 881.02 | 874.81 | 880.65 |
| MW-1S | 911.90 | 902.00 | 900.02 | 897.34 | 900.29 | 895.92 | 901.82 | 897.55 | 901.49 |
| MW-1D | 911.84 | 901.94 | 899.92 | 897.26 | 900.23 | 895.76 | 901.78 | 897.12 | 901.41 |
| MW-2D | 909.88 | 901.85 | 900.49 | 897.23 | 900.17 | 895.79 | 901.71 | 897.53 | 901.31 |
| MW-5S | 907.33 | 899.02 | 897.31 | 894.62 | 897.30 | 893.10 | 898.52 | 895.06 | 898.43 |
| MW-5D | 906.79 | 899.00 | 897.30 | 894.57 | 897.28 | 893.13 | 898.53 | 895.03 | 897.33 |
| MW-6S | 905.68 | 896.47 | 895.22 | 891.87 | 894.85 | 890.49 | 896.16 | 892.57 | 895.39 |
| MW-7S | 904.35 | 895.65 | 894.06 | 890.69 | 894.00 | 889.37 | 895.35 | 891.50 | 894.52 |
| MW-7D | 904.73 | 895.81 | 894.15 | 890.81 | 894.10 | 889.50 | 895.46 | 891.63 | 894.63 |
| MW-8S | 907.67 | 894.90 | 892.58 | 888.68 | 892.49 | 886.46 | 894.60 | 889.10 | 893.35 |
| MW-8D | 907.54 | 894.72 | 892.45 | 888.47 | 892.37 | 886.04 | 894.55 | 889.12 | 893.30 |
| MW-9S | 912.35 | 898.50 | 896.56 | 893.33 | 896.60 | 891.83 | 898.17 | 893.75 | 897.41 |
| MW-9D | 912.31 | 898.35 | 896.41 | 893.12 | 896.47 | 891.72 | 897.99 | 893.58 | 897.29 |
| MW-10S | 909.16 | 899.21 | 897.65 | 894.78 | 898.95 | 893.18 | 899.35 | 895.18 | 898.81 |
| MW-11S | 907.50 | 898.51 | 896.69 | 893.82 | 896.66 | 892.60 | 898.10 | 894.29 | 898.92 |
| MW-11D | 906.06 | 900.03 | 898.23 | 895.31 | 898.39 | 893.91 | 899.75 | 895.81 | 899.15 |
| MW-13S | 911.53 | 901.74 | 899.94 | 897.24 | 900.12 | DRY | 901.64 | 897.49 | 901.28 |
| MW-15S | NI[d] | NI | NI | NI | NI | NI | NI | NI | NI |
| MW-15D | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| MW-16S | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| MW-16D | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| MW-100S | 913.46 | 891.92 | 890.60 | 887.86 | 890.48 | 886.51 | 891.56 | 888.26 | 890.64 |
| MW-100D | 912.67 | 891.71 | 890.41 | 887.72 | 890.33 | 886.40 | 891.35 | 888.14 | 890.47 |
| MW-101S | 896.22 | NA | NA | 885.61 | 887.97 | 883.40 | 888.48 | 885.12 | 887.90 |
| MW-101I | 895.19 | NA | NA | 885.46 | 887.79 | 883.17 | 888.31 | 884.95 | 887.70 |
| MW-103D | 896.12 | NA | NA | 878.82 | 882.41 | 876.79 | 883.60 | 876.66 | 882.62 |
| MW-105D | 899.91 | NA | NA | 885.20 | 887.31 | 883.62 | 887.98 | 885.12 | 887.36 |
| MW-106D | 893.63 | NA | NA | 874.77 | 877.91 | 874.38 | 878.94 | 874.38 | 878.03 |
| MW-107D | 898.22 | NA | NA | 869.60 | 873.64 | 869.49 | 875.04 | 869.46 | 874.13 |
| MW-108D | 896.11 | NA | NA | 878.30 | 882.08 | 876.34 | 883.16 | 876.20 | 882.20 |
| MW-109D | 892.73 | NA | NA | 870.36 | 875.83 | 865.51 | 877.13 | 869.36 | 876.20[h] |
| MW-111S | 907.16 | 896.35 | 894.28 | 890.88 | 894.42 | 889.39 | 896.00 | 891.36 | 895.51 |
| MW-111I | 907.02 | 896.14 | 893.91 | 890.52 | 894.30 | 888.99 | 895.81 | 891.09 | 894.90 |
| MW-111D | 906.65 | 896.50 | 894.32 | 890.92 | 894.83 | 889.30 | 896.33 | 891.36 | 895.07 |
| MW-112S | 896.79 | NA | NA | 882.94 | 885.04 | 881.03 | 885.71 | 882.31 | 885.11 |
| MW-113D | 898.11 | 891.49 | 890.30 | 887.32 | 890.27 | 885.58 | 891.46 | 887.50 | 890.50 |
| OW-1 | 905.71 | 896.13 | 894.53 | NA | 894.51 | 890.28 | 895.91 | 892.41 | 895.20 |
| P-1 | 903.32 | 893.57 | 891.93 | NA | 891.84 | DRY | 893.12 | 893.10 | 892.17 |
| P-2 | 900.31 | 893.66 | 892.06 | NA | 891.96 | DRY | 893.26 | NA | 892.31 |
| P-3 | 899.73 | 893.91 | 892.38 | NA | 892.27 | DRY | 893.47 | 885.00 | 892.63 |
| SW-3 | 904.91 | 895.20[f] | 893.58[f] | 890.88[f] | 893.59[f] | 889.77 | 895.42 | 891.86 | 894.74 |
| SW-4 | 906.49 | 900.17 | 898.37 | 894.85 | 897.83 | 893.51 | 899.85 | 895.93 | 898.73 |
| SW-5 | 905.42 | 894.75 | 893.00 | 889.27[f] | 892.93 | 888.03 | 894.39 | 890.18 | 893.46 |
| SW-6 | 904.37 | 894.79 | 893.5 | 889.66 | 892.96 | 888.37 | NA | 890.71 | NA |
| SW-7 | 906.22 | 893.95 | 891.91 | 888.32 | 891.85 | 886.62 | 893.54 | 888.82 | 892.47 |
| BW-1 | 906.07 | 893.16 | 890.98 | 888.76 | 890.77 | 882.47 | 892.77 | 886.79 | 891.47 |
| BW-2 | 906.78 | 892.83 | 889.66 | 888.98 | 892.40 | 879.18 | 893.18 | 885.48 | 891.28 |

**TABLE 2**

**GROUNDWATER ELEVATIONS**

**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**

**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**

**HORSEHEADS, NEW YORK**

| Well ID | Top of Riser Elevation (feet MSL)[a] | 10/15/2001 Groundwater Elevation (feet MSL) | 4/9/2002 Groundwater Elevation (feet MSL) | 10/13/2002 Groundwater Elevation (feet MSL) | 4/14/2003 Groundwater Elevation (feet MSL) | 10/28/2003 Groundwater Elevation (feet MSL) | 7/6/2004 Groundwater Elevation (feet MSL) | 7/15/2005 Groundwater Elevation (feet MSL) | 7/31/2006 Groundwater Elevation (feet MSL) |
|---|---|---|---|---|---|---|---|---|---|
| CW-3S | 901.97 | 886.77 | 888.94 | 886.47 | 896.03 | 889.74 | 890.67 | 889.77 | 891.31 |
| CW-3D | 901.29 | 886.70 | 888.86 | 886.46 | 892.97 | 889.71 | 890.77 | 889.78 | 891.29 |
| CW-7S | 901.23 | DRY | 885.81 | 883.44 | 888.65 | 886.56 | 886.72 | 886.07 | 887.93 |
| CW-7D | 901.48 | 883.60 | 885.78 | 883.57 | 888.71 | 886.56 | 887.21 | 886.10 | 887.89 |
| CW-9D | 893.42 | 874.28 | 878.95 | 876.34 | 881.63 | 878.24 | 877.75[i] | 876.27 | NA |
| MW-1S | 911.90 | 896.58 | 898.57 | 896.70 | 902.80 | 898.85 | 900.00 | 899.43 | 900.75 |
| MW-1D | 911.84 | 896.49 | 898.48 | 896.60 | 902.75 | 898.78 | 899.92 | 899.01 | 900.37 |
| MW-2D | 909.88 | 896.48 | 898.40 | 896.58 | 902.85 | 898.79 | 899.92 | 899.11 | 900.49 |
| MW-5S | 907.33 | 893.61 | 896.08 | 894.04 | 899.98 | 896.64 | 897.58 | 896.81 | 897.37 |
| MW-5D | 906.79 | 893.63 | 895.02 | 892.90 | 898.89 | 895.62 | 896.52 | 895.75 | 897.38 |
| MW-6S | 905.68 | 890.89 | 892.87 | 890.07 | 896.79 | 893.66 | 894.66 | 893.80 | 894.93 |
| MW-7S | 904.35 | 889.75 | 891.78 | 889.18 | 898.77 | 892.40 | 893.70 | 892.79 | 894.35 |
| MW-7D | 904.73 | 889.98 | 891.82 | 889.30 | 895.91 | 890.57 | 893.95 | 892.93 | 894.48 |
| MW-8S | 907.67 | 886.92 | DRY | 886.34 | 894.92 | 890.40 | 892.09 | 890.69 | 892.29 |
| MW-8D | 907.54 | 887.06 | DRY | 885.24 | 894.84 | 890.33 | 891.91 | 890.73 | 892.14 |
| MW-9S | 912.35 | 892.20 | 894.47 | 892.13 | 898.99 | 895.02 | 896.23 | 895.28 | 896.13 |
| MW-9D | 912.31 | 892.25 | 894.31 | 891.96 | 898.79 | 894.82 | 896.08 | 895.12 | 896.35 |
| MW-10S | 909.16 | 893.91 | 896.15 | 893.78 | 900.21 | 896.38 | 897.71 | 896.67 | 897.69 |
| MW-11S | 907.50 | 895.11 | 896.75 | 894.91 | 900.85 | 894.65 | 898.44 | 897.66 | 898.46 |
| MW-11D | 906.06 | 894.56 | 896.42 | 894.36 | 900.51 | 894.77 | 898.06 | 897.24 | 897.95 |
| MW-13S | 911.53 | 896.51 | 895.59 | 896.58 | 903.66 | 898.74 | 899.86 | 899.05 | 900.41 |
| MW-15S | NI[d] | NI | NI | NI | NI | NI | NI | NI | NI |
| MW-15D | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| MW-16S | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| MW-16D | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| MW-100S | 913.46 | 886.77 | 888.48 | 886.66 | 891.56 | 887.46 | 890.22 | 889.30 | 890.61 |
| MW-100D | 912.67 | 886.65 | 888.42 | 886.53 | 891.70 | 889.21 | 890.00 | 889.19 | 890.52 |
| MW-101S | 896.22 | 883.71 | 886.72 | 883.60 | 888.71 | 884.88 | 886.71 | 886.12 | 888.05 |
| MW-101I | 895.19 | 883.51 | 884.77 | 883.47 | 888.56 | 885.47 | 886.62 | 885.97 | 887.59 |
| MW-103D | 896.12 | 875.12 | 882.98 | 877.04 | 883.51 | 880.76 | 878.97[i] | 877.70 | 880.73 |
| MW-105D | 899.91 | 881.93 | 885.76 | 884.03 | 888.25 | 886.39 | 886.52 | 886.08 | 887.36 |
| MW-106D | 893.63 | 873.78 | 876.70 | 874.44 | 879.13 | 876.13 | 875.46[i] | 874.86 | 876.71 |
| MW-107D | 898.22 | 869.04 | 882.47 | 869.38 | 875.35 | 871.77 | 871.39 | 870.37 | 872.16 |
| MW-108D | 896.11 | 874.66 | 879.81 | 876.62 | 883.12 | 880.42 | 878.76 | 877.05 | 880.26 |
| MW-109D | 892.73 | 868.56 | 874.48 | 870.94[j] | 877.22 | 873.74 | 870.84[i] | 869.57 | 871.86 |
| MW-111S | 907.16 | 889.79 | 892.17 | 889.46[k] | 896.62 | 892.69 | 893.81 | 892.85 | 894.30 |
| MW-111I | 907.02 | 889.36 | 891.80 | 889.14 | 896.38 | 892.30 | 893.53 | 892.59 | 894.03 |
| MW-111D | 906.65 | 889.65 | 892.51 | 889.64 | 897.07 | 892.93 | 893.90 | 892.90 | 894.43 |
| MW-112S | 896.79 | 881.11 | 883.29 | 881.32 | 885.91 | 881.80 | 883.62[i] | 883.15 | 885.14 |
| MW-113D | 898.11 | 885.39 | 888.10 | 885.69 | 891.62 | 885.64 | 889.50 | 888.76 | 890.21 |
| OW-1 | 905.71 | 890.67 | 892.64 | 889.93 | 896.50 | NA | 894.46 | 893.65 | 894.81 |
| P-1 | 903.32 | 887.51 | DRY | 887.39 | 893.47 | 890.08 | 891.37 | 890.40 | 891.82 |
| P-2 | 900.31 | NA | DRY | DRY | 893.66 | NA | 888.50 | 890.67 | 891.96 |
| P-3 | 899.73 | 886.38 | 889.57 | 885.81 | 893.83 | 890.76 | 892.24 | NA | NA |
| SW-3 | 904.91 | 890.11 | 892.10 | 889.13 | 895.91 | 892.99 | 893.95 | 893.12 | 894.32 |
| SW-4 | 906.49 | 895.10 | 896.64 | 894.71 | 900.86 | 896.46 | 898.17 | 899.95 | 900.64 |
| SW-5 | 905.42 | 888.41 | 890.47[f] | 887.77 | 894.88 | 891.37 | 892.86 | 891.57 | 893.14 |
| SW-6 | 904.37 | 889.80 | NA | NA | 894.58 | NA | NA | NA | NA |
| SW-7 | 906.22 | 886.99 | 889.25 | 886.75 | 894.08 | 890.11 | 889.84 | 890.33 | 892.62 |
| BW-1 | 906.07 | 882.32 | 886.87 | 882.24 | 892.87 | 885.34 | 889.24 | 887.89 | 890.62 |
| BW-2 | 906.78 | 886.43 | 885.88 | 880.08 | 892.56 | 886.21 | 888.71 | 886.26 | 887.26 |

**TABLE 2**

**GROUNDWATER ELEVATIONS**

**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**

**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**

**HORSEHEADS, NEW YORK**

| Well ID | Top of Riser Elevation (feet MSL)[a] | 7/23/2007 Groundwater Elevation (feet MSL) | 7/7/2008 Groundwater Elevation (feet MSL) | 7/6/2009 Groundwater Elevation (feet MSL) | 6/14/2010 Groundwater Elevation (feet MSL) | 9/2/2011 Groundwater Elevation (feet MSL) | 7/23/2012 Groundwater Elevation (feet MSL) | 12/16/2013 Groundwater Elevation (feet MSL) | 7/14/2014 Groundwater Elevation (feet MSL) | 8/3/2015 Groundwater Elevation (feet MSL) | 2/23/2016 Groundwater Elevation (feet MSL) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CW-3S | 901.97 | 889.43 | 890.90 | 889.61 | 890.24 | 889.87 | 889.72 | 888.48 | 892.04 | 891.12 | 891.50 |
| CW-3D | 901.29 | 889.42 | 890.87 | 889.60 | 890.24 | 889.88 | 889.70 | 888.50 | 892.02 | 891.05 | 891.69 |
| CW-7S | 901.23 | 886.97 | 886.62 | 886.15 | 887.02 | 886.92 | 887.02 | 885.90 | 887.31 | 886.41 | 887.40 |
| CW-7D | 901.48 | 886.82 | 886.66 | 886.14 | 886.99 | 886.84 | 886.88 | 885.87 | 887.34 | 886.46 | 887.40 |
| CW-9D | 893.42 | 876.48 | 877.23 | 877.95 | 879.54 | 880.47 | 880.51 | 879.73 | NA | 875.19 | 878.88 |
| MW-1S | 911.90 | 898.44 | 899.45 | 898.37 | 899.07 | 898.62 | 898.04 | 897.33 | 899.68 | 898.42 | 899.35 |
| MW-1D | 911.84 | 898.24 | 899.13 | 898.23 | 898.94 | 897.52 | 897.91 | 897.17 | 899.61 | 898.38 | 899.33 |
| MW-2D | 909.88 | 898.43 | 899.23 | 898.33 | 899.13 | 898.68 | 899.00 | 898.10 | NA | 898.50 | 899.13 |
| MW-5S | 907.33 | 895.71 | 896.64 | 895.89 | 896.48 | 896.58 | 895.58 | 894.53 | 897.28 | 895.93 | 897.36 |
| MW-5D | 906.79 | 895.66 | 896.64 | 895.84 | 896.47 | 895.55 | 895.54 | 894.48 | 897.26 | 896.29 | 896.34 |
| MW-6S | 905.68 | 893.18 | 894.46 | 893.43 | 894.01 | 893.52 | 893.17 | 891.97 | 895.16 | 894.06 | 894.70 |
| MW-7S | 904.35 | 892.15 | 893.77 | 892.48 | 892.85 | 892.65 | 892.30 | 891.02 | 894.68 | 894.19 | 894.23 |
| MW-7D | 904.73 | 892.28 | 893.91 | 892.61 | 893.23 | 892.81 | 892.43 | 891.15 | 894.80 | 893.84 | 894.33 |
| MW-8S | 907.67 | 889.86 | 892.67 | 890.61 | 891.30 | 890.82 | 890.44 | 889.09 | 894.47 | 893.36 | 894.02 |
| MW-8D | 907.54 | 889.41 | 892.64 | 889.68 | 890.74 | 890.34 | 889.82 | 888.27 | 894.59 | 893.32 | 891.01 |
| MW-9S | 912.35 | 894.35 | 895.96 | 894.54 | 895.24 | 894.84 | 894.47 | 893.17 | 896.94 | 895.78 | 896.41 |
| MW-9D | 912.31 | 894.38 | 895.75 | 894.55 | 895.27 | 894.96 | 894.29 | 893.21 | 896.74 | 895.57 | 896.22 |
| MW-10S | 909.16 | 895.89 | 896.94 | 896.03 | 896.74 | 896.26 | 895.71 | 894.76 | 897.67 | 896.50 | 897.25 |
| MW-11S | 907.50 | 897.99 | 897.49 | 896.55 | 897.15 | 896.72 | 896.26 | 895.88 | 898.80 | 897.75 | 897.85 |
| MW-11D | 906.06 | 894.93 | 897.58 | 896.67 | 897.35 | 896.88 | 896.33 | 895.37 | 898.22 | 897.17 | 897.76 |
| MW-13S | 911.53 | 898.88 | 899.13 | 898.28 | 898.78 | 898.55 | 897.96 | 897.15 | 899.54 | 898.35 | 897.01 |
| MW-15S | NI[d] | NI | NI | NI | NI | NI | NI | NI | 894.17 | 892.72 | 893.66 |
| MW-15D | NI | NI | NI | NI | NI | NI | NI | NI | 894.21 | 893.12 | 893.71 |
| MW-16S | NI | NI | NI | NI | NI | NI | NI | NI | 894.03 | 892.78 | 893.21 |
| MW-16D | NI | NI | NI | NI | NI | NI | NI | NI | 894.04 | 892.96 | 893.54 |
| MW-100S | 913.46 | 889.17 | 890.21 | 889.44 | 889.70 | 889.36 | 889.33 | 888.27 | 890.61 | 889.90 | 890.44 |
| MW-100D | 912.67 | 889.07 | 890.04 | 889.33 | 889.60 | 889.24 | 889.21 | 888.15 | 890.44 | NA | NA |
| MW-101S | 896.22 | 887.16 | 886.66 | 886.18 | 887.12 | 887.05 | 887.58 | 886.02 | 887.33 | 886.37 | 886.91 |
| MW-101I | 895.19 | 887.01 | 886.52 | 886.02 | 886.94 | 886.94 | 887.39 | 885.87 | 887.20 | 886.57 | 887.04 |
| MW-103D | 896.12 | 882.91 | 882.77 | 882.67 | 884.09 | 883.64 | 883.48 | NA | 884.12 | 882.27 | 883.66 |
| MW-105D | 899.91 | 886.33 | 886.43 | 886.06 | 886.64 | 886.39 | 886.71 | 885.60 | 886.94 | 886.34 | 887.11 |
| MW-106D | 893.63 | 875.23 | 874.44 | 874.62 | 875.75 | 874.79 | 875.27 | 876.03 | 874.65 | 874.45 | 875.69 |
| MW-107D | 898.22 | 869.99 | ---[l] | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-108D | 896.11 | 877.40 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-109D | 892.73 | 869.60 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-111S | 907.16 | 892.11 | 893.82 | 892.41 | 893.09 | 892.56 | 892.18 | NA | NA | NA | NA |
| MW-111I | 907.02 | 891.87 | 893.57 | 892.19 | 892.83 | 892.35 | 891.94 | NA | 894.88 | 893.68 | 894.18 |
| MW-111D | 906.65 | 892.21 | 893.84 | 892.53 | 893.24 | 892.68 | 892.27 | NA | 895.15 | 893.85 | 894.89 |
| MW-112S | 896.79 | 883.69 | 883.64 | 883.40 | 884.38 | 884.24 | 884.52 | 885.48 | 886.35 | 883.35 | 884.54 |
| MW-113D | 898.11 | 888.58 | 889.62 | 888.55 | 889.44 | 888.88 | 888.87 | 887.61 | 890.48 | 889.43 | 889.82 |
| OW-1 | 905.71 | 893.24 | 894.38 | 893.29 | 893.89 | 893.44 | 892.74 | 891.82 | 895.06 | 894.11 | 894.38 |
| P-1 | 903.32 | 889.76 | 891.49 | 890.09 | 890.49 | 890.34 | 890.01 | NA | 890.39 | 891.51 | 892.00 |
| P-2 | 900.31 | 890.11 | 891.77 | 890.39 | 890.82 | 890.66 | 891.66 | NA | 892.20 | 891.74 | 892.23 |
| P-3 | 899.73 | 890.26 | 892.02 | 890.59 | 890.96 | 890.78 | 890.46 | NA | 890.94 | 891.97 | 892.43 |
| SW-3 | 904.91 | --[m] | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SW-4 | 906.49 | NA | 896.99 | 896.16 | 896.84 | 896.39 | 896.44 | NA | NA | NA | NA |
| SW-5 | 905.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SW-6 | 904.37 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SW-7 | 906.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| BW-1 | 906.07 | 889.97 | 889.94 | 886.76 | 887.66 | 888.12[n] | 888.12[n] | 888.12[n] | 893.77 | 892.64 | 893.28 |
| BW-2 | 906.78 | 893.06 | 890.67 | 883.68 | 883.40 | 885.92[n] | 885.92[n] | 885.92[n] | 893.99 | 892.83 | 893.72 |

**TABLE 2**
**GROUNDWATER ELEVATIONS**
**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**
**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**
**HORSEHEADS, NEW YORK**

**Notes:**

[a] Feet MSL indicates measurement in feet above mean sea level.

[b] NA indicates measurement not obtained.

[c] Water level obtained on December 11, 1996.

[d] NI indicates monitoring wells were not installed until March 2014

[e] Water level obtained on December 12, 1996.

[f] Production well pump on at time of water level measurement.

[g] Water level obtained on January 7, 1998.

[h] Water level obtained on April 18, 2001.

[i] Water level obtained on July 7, 2004.

[j] Water level obtained on October 15, 2002.

[k] Water level obtained on October 16, 2002.

[l] --- denotes that well was decommissioned in June 2008.

[m] -- denotes that well was decommissioned in May 2007.

[n] Water level not obtained in 2011, 2012, and 2013. The water level provided represents the average measurement over the previous three events (2008 - 2010).

**TABLE 3**
**GROUNDWATER ANALYTICAL RESULTS (µg/l)[a]**
**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**
**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**
**HORSEHEADS, NEW YORK**

| Well ID<br>Sample Date | Benzene | Chloroethane | 1,1-DCE | cis-1, 2-DCE | trans-1, 2-DCE | TCE | Vinyl Chloride | 1,1,1-TCA |
|---|---|---|---|---|---|---|---|---|
| MW-7D | | | | | | | | |
| Dec-96 | <1.0 [b] | <1.0 | <1.0 | <1.0 | <1.0 | < 1 | <1.0 | NA |
| Mar-97 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2 | <1.0 | NA |
| Oct-98 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | <1.0 | NA |
| Mar-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.8 | <1.0 | NA |
| Oct-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.2 | <1.0 | NA |
| May-00 | < 1.0 / < 1.0 [c] | < 1.0 / < 1.0 | < 1.0 / < 1.0 | < 1.0 / < 1.0 | < 1.0 / < 1.0 | 1.9 / 1.9 | < 1.0 / < 1.0 | NA |
| Oct-00 | < 5.0 | <10 | < 5.0 | < 2.5 | < 2.5 | < 5 | <10 | NA |
| Apr-01 | < 5.0 | < 10 | < 5.0 | < 5.0 | < 5.0 | 2 J[d] | < 10 | NA |
| Oct-01 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | 1.6 J | <10 | NA |
| Apr-02 | < 1 | < 2 | < 1 | < 1 | < 1 | 2.2 | < 2 | NA |
| Oct-02 | < 1.0 | < 2.0 | < 1.0 | < 1.0 | < 1.0 | 1.2 | < 2.0 | NA |
| Apr-03 | <1.0 / < 1.0 | < 2.0 / < 2.0 | < 1.0 / < 1.0 | < 1.0 / < 1.0 | < 1.0 / < 1.0 | 1.3 / 1.1 | < 2.0 / < 2.0 | NA |
| Oct-03 | < 1.0 | NA [e] | NA | 0.78 J | < 1.0 | 3.5 J | < 2.0 | NA |
| Jul-04 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 2 J | < 1.0 | NA |
| Jul-05 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 1 J | < 1.0 | NA |
| Aug-06 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 2 J | < 1.0 | NA |
| Jul-07 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 2 J | < 1.0 | NA |
| Jul-08 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 2 J | < 1.0 | NA |
| Jul-09 | NA | NA | NA | < 0.8 | < 0.8 | 2 J | < 1 | NA |
| Jun-10 | NA | NA | NA | < 0.8 | < 0.8 | 3 J | < 1 | NA |
| Sep-11 | NA | NA | NA | < 0.8 | < 0.8 | 1 J | < 1 | NA |
| Jul-12 | NA | NA | NA | < 0.1 | < 0.1 | 1.2 | < 0.1 | NA |
| Dec-13 | NA | NA | NA | < 0.8 | < 0.8 | 2 J | < 1 | NA |
| Apr-14 | NA | NA | NA | < 0.5 | < 0.5 | 2.0 | < 0.5 | 1 |
| Jul-14 | NA | NA | NA | < 0.5 | < 0.5 | 1.0 | < 0.5 | 1 |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 1.0 | < 0.5 | 0.8 J |
| Jan-15 | NA | NA | NA | < 0.5 | < 0.5 | 1 J | < 0.5 | 1 J |
| Apr-15 | NA | NA | NA | < 0.5 | < 0.5 | 0.9 J | < 0.5 | 1 |
| Aug-15 | NA | NA | NA | < 0.5 | < 0.5 | 0.8 J | < 0.5 | 1 |
| Nov-15 | NA | NA | NA | < 0.5 | < 0.5 | 0.8 J | < 0.5 | 1 J |
| Feb-16 | NA | NA | NA | < 0.5 | < 0.5 | 0.7 J | < 0.5 | 0.9 J |
| May-16 | NA | NA | NA | < 0.5 | < 0.5 | 0.7 J | < 0.5 | 1 |
| MW-7S | | | | | | | | |
| Dec-96 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 15 | <1.0 | NA |
| Mar-97 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 12 | <1.0 | NA |
| Oct-98 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 7 | <1.0 | NA |
| Mar-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 7.5 | <1.0 | NA |
| Oct-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 7.2 | <1.0 | NA |
| May-00 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 6.3 | < 1.0 | NA |
| Oct-00 | < 5.0 | <10 | < 5.0 | < 2.5 | < 2.5 | 4.9 J | <10 | NA |
| Apr-01 | < 5.0 | < 10 | < 5.0 | < 5.0 | < 5.0 | 5.4 | < 10 | NA |
| Oct-01 | <5.0 | <10 | <5.0 | <5.0 | <5.0 | 3.7 J | <10 | NA |
| Apr-02 | < 1 / < 1 | < 2 / < 2 | < 1 / < 1 | < 1 / < 1 | < 1 / < 1 | 4.1/ 3.4 | < 2 / < 2 | NA |
| Oct-02 | < 1.0 | < 2.0 | < 1.0 | < 1.0 | < 1.0 | 3.9 | < 2.0 | NA |
| Apr-03 | < 1.0 | < 2.0 | < 1.0 | < 1.0 | < 1.0 | 2.4 | < 2.0 | NA |
| Oct-03 | < 1 / < 1 | NA / NA | NA / NA | < 1 / < 1 | < 1 / < 1 | 4.5 / 2.9 | < 2 / < 2 | NA |
| Jul-04 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 4 J | < 1.0 | NA |
| Jul-05 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 3 J | < 1.0 | NA |
| Aug-06 | < 0.5 / < 0.5 | NA / NA | NA / NA | < 0.8 / < 0.8 | < 0.8 / < 0.8 | 3 J / 3.0 J | < 1.0 / < 1.0 | NA |
| Jul-07 | < 0.5 / < 0.5 | NA / NA | NA / NA | < 0.8 / < 0.8 | < 0.8 / < 0.8 | 3 J / 3.0 J | < 1.0 / < 1.0 | NA |
| Jul-08 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 3 J | < 1.0 | NA |
| Jul-09 | NA | NA | NA | < 0.8 | < 0.8 | 3 J | < 1 | NA |
| Jun-10 | NA | NA | NA | < 0.8 | < 0.8 | 3 J | < 1 | NA |
| Sep-11 | NA | NA | NA | < 0.8 | < 0.8 | 3 J | < 1 | NA |
| Jul-12 | NA | NA | NA | 0.1 J | < 0.1 | 2.9 | < 0.1 | NA |
| Dec-13 | NA | NA | NA | < 0.8 | < 0.8 | 3 J | < 1 | NA |
| Apr-14 | NA | NA | NA | < 0.5 | < 0.5 | 3.0 | < 0.5 | < 0.5 |
| Jul-14 | NA | NA | NA | < 0.5 | < 0.5 | 4.0 | < 0.5 | 0.6 J |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 3.0 | < 0.5 | 0.6 J |
| Jan-15 | NA | NA | NA | < 0.5 | < 0.5 | 3.0 | < 0.5 | 0.7 J |
| Apr-15 | NA | NA | NA | < 0.5 | < 0.5 | 3.0 | < 0.5 | 0.6 J |
| Aug-15 | NA | NA | NA | < 0.5 | < 0.5 | 3.0 | < 0.5 | 0.7 J |
| Nov-15 | NA | NA | NA | < 0.5 | < 0.5 | 3.0 | < 0.5 | 0.6 J |
| Feb-16 | NA | NA | NA | < 0.5 | < 0.5 | 3.0 | < 0.5 | 0.6 J |
| May-16 | NA | NA | NA | < 0.5 | < 0.5 | 4.0 | < 0.5 | 0.6 J |

**TABLE 3**
**GROUNDWATER ANALYTICAL RESULTS (µg/l)[a]**
**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**
**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**
**HORSEHEADS, NEW YORK**

| Well ID<br>Sample Date | Benzene | Chloroethane | 1,1-DCE | cis-1, 2-DCE | trans-1, 2-DCE | TCE | Vinyl Chloride | 1,1,1-TCA |
|---|---|---|---|---|---|---|---|---|
| MW-8D | | | | | | | | |
| Oct-98 | <1.0 | <1.0 | <1.0 | 2.3 | <1.0 | 23.4 | <1.0 | NA |
| Mar-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 12.7 | <1.0 | NA |
| Oct-99 | <1.0/<1.0 | <1.0/<1.0 | <1.0/<1.0 | 2.7/2.9 | <1.0/<1.0 | 30.6 / 30.9 | <1.0/<1.0 | NA |
| May-00 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 9.1 | < 1.0 | NA |
| Oct-00 | < 1.0 | < 1.0 | < 1.0 | 1.1 | < 1.0 | 10.3 | < 1.0 | NA |
| Apr-01 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 6.9 | <1.0 | NA |
| Oct-01 | < 1.0 | < 1.0 | < 1.0 | 2.1 | < 1.0 | 16 | < 1.0 | NA |
| Apr-02 | < 1 | < 2 | < 1 | 2 J | < 1 | 14 | < 1 | NA |
| Oct-02 | < 0.5 | < 1.0 | < 0.8 | 2 J | < 0.8 | 19 | < 1.0 | NA |
| Apr-03 | < 0.5 / < 0.5 | < 1.0 / < 1.0 | < 0.8 / < 0.8 | < 0.8 / < 0.8 | < 0.8 / < 0.8 | 5.0 / 5.0 | < 1.0 / < 1.0 | NA |
| Oct-03 | < 0.5 | NA | NA | 1 J | < 0.8 | 8 | < 1.0 | NA |
| Jul-04 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 7 | < 1.0 | NA |
| Jul-05 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 6 | < 1.0 | NA |
| Aug-06 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 5 J | < 1.0 | NA |
| Jul-07 | < 0.5 | NA | NA | 1 J | < 0.8 | 7 | < 1.0 | NA |
| Jul-08 | < 0.5 / < 0.5 | NA / NA | NA / NA | < 0.8 / < 0.8 | < 0.8 / < 0.8 | < 2.0 / < 2.0 | < 1.0 / < 1.0 | NA |
| Jul-09 | NA | NA | NA | < 0.8 | < 0.8 | 5 | < 1 | NA |
| Jun-10 | NA | NA | NA | < 0.8 | < 0.8 | 5 J | < 1 | NA |
| Sep-11 | NA | NA | NA | < 0.8 | < 0.8 | 3 J | < 1 | NA |
| Jul-12 | NA | NA | NA | 0.7 | < 0.1 | 4.9 | < 0.1 | NA |
| Dec-13 | NA | NA | NA | 0.9 J | < 0.8 | 5 | < 1 | NA |
| Apr-14 | NA | NA | NA | < 0.5 | < 0.5 | 2 | < 0.5 | 1 |
| Jul-14 | NA | NA | NA | < 0.5 | < 0.5 | 5 | < 0.5 | 2 |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 5 | < 0.5 | 2 |
| Jan-15 | NA | NA | NA | < 0.5 | < 0.5 | 5 | < 0.5 | < 0.5 |
| Apr-15 | NA | NA | NA | 0.6 J | < 0.5 | 8 | < 0.5 | 2 |
| Aug-15 | NA | NA | NA | 0.7 J | < 0.5 | 9 | < 0.5 | 2 |
| Nov-15 | NA | NA | NA | 0.6 J / 0.6 J | < 0.5 / < 0.5 | 10 / 10 | < 0.5 / < 0.5 | 2 / 2 |
| Feb-16 | NA | NA | NA | 0.5 J | < 0.5 | 11 | < 0.5 | 2 |
| May-16 | NA | NA | NA | 0.9 J / 0.9 J | < 0.5 / < 0.5 | 14 / 14 | < 0.5 / < 0.5 | 2 / 2 |
| MW-8S | | | | | | | | |
| Oct-98 | <1.0 | <1.0 | <1.0 | 0.6 J | <1.0 | 21.4 | <1.0 | NA |
| Mar-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 21.4 | <1.0 | NA |
| Oct-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 15.4 | <1.0 | NA |
| May-00 | < 1.0 | < 1.0 | < 1.0 | 0.8 J | < 1.0 | 25.3 | < 1.0 | NA |
| Oct-00 | < 1.0 | < 1.0 | < 1.0 | 0.7 J | < 1.0 | 21.2 | < 1.0 | NA |
| Apr-01 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 14.9 | <1.0 | NA |
| Oct-01 | < 1.0 | < 1.0 | < 1.0 | 0.64 J | < 1.0 | 15 | < 1.0 | NA |
| Apr-02 | < 1 | < 2 | < 1 | < 1 | < 1 | 21 | < 1 | NA |
| Oct-02 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 15 | < 1.0 | NA |
| Apr-03 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 13 | < 1.0 | NA |
| Oct-03 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 17 | < 1.0 | NA |
| Jul-04 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 16 | < 1.0 | NA |
| Jul-05 | < 0.5 / < 0.5 | NA / NA | NA / NA | < 0.8 / < 0.8 | < 0.8 / < 0.8 | 9.0 / 10.0 | < 1.0 / < 1.0 | NA |
| Aug-06 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 11 | < 1.0 | NA |
| Jul-07 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 9 | < 1.0 | NA |
| Jul-08 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 13 | < 1.0 | NA |
| Jul-09 | NA | NA | NA | < 0.8 | < 0.8 | 16 | < 1 | NA |
| Jun-10 | NA | NA | NA | < 0.8 | < 0.8 | 17 | < 1 | NA |
| Sep-11 | NA | NA | NA | < 0.8 | < 0.8 | 15 | < 1 | NA |
| Jul-12 | NA | NA | NA | 0.4 J | < 0.1 | 12 | < 0.1 | NA |
| Dec-13 | NA | NA | NA | < 0.8 | < 0.8 | 16 | < 1 | NA |
| Apr-14 | NA | NA | NA | < 0.5 | < 0.5 | 15 | < 0.5 | 1 |
| Jul-14 | NA | NA | NA | < 0.5 | < 0.5 | 4 | < 0.5 | 2 |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 2 | < 0.5 | 1 |
| Jan-15 | NA | NA | NA | < 0.5 | < 0.5 | 2 | < 0.5 | 1 |
| Apr-15 | NA | NA | NA | < 0.5 | < 0.5 | 3 | < 0.5 | 2 |
| Aug-15 | NA | NA | NA | < 0.5 | < 0.5 | 2 | < 0.5 | 1 |
| Nov-15 | NA | NA | NA | < 0.5 | < 0.5 | 3 | < 0.5 | 1 |
| Feb-16 | NA | NA | NA | < 0.5 | < 0.5 | 3 | < 0.5 | 1 |
| May-16 | NA | NA | NA | <0.5 | < 0.5 | 3 | < 0.5 | 2 |

**TABLE 3**
**GROUNDWATER ANALYTICAL RESULTS (µg/l)[(a)]**
**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**
**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**
**HORSEHEADS, NEW YORK**

| Well ID<br>Sample Date | Benzene | Chloroethane | 1,1-DCE | cis-1, 2-DCE | trans-1, 2-DCE | TCE | Vinyl Chloride | 1,1,1-TCA |
|---|---|---|---|---|---|---|---|---|
| MW-9D | | | | | | | | |
| Oct-98 | <1.0 | <1.0 | 0.3 J | 1.1 | <1.0 | 31.7 | <1.0 | NA |
| Mar-99 | <1.0 | <1.0 | <1.0 | 1.1 | <1.0 | 34 | <1.0 | NA |
| Oct-99 | <1.0 | <1.0 | <1.0 | 1.6 | <1.0 | 31.7 | <1.0 | NA |
| May-00 | < 1.0 | < 1.0 | < 1.0 | 1.4 | < 1.0 | 30.6 | < 1.0 | NA |
| Oct-00 | < 1.0 | < 1.0 | 1.4 | 1.4 | < 1.0 | 25.9 | < 1.0 | NA |
| Apr-01 | <1.0/<1.0 | <1.0/<1.0 | <1.0/<1.0 | 1.1/1.1 | <1.0/<1.0 | 20.7 / 20.1 | <1.0/<1.0 | NA |
| Oct-01 | < 1.0 | < 1.0 | < 1.0 | 1.6 | < 1.0 | 22 | < 1.0 | NA |
| Apr-02 | < 1 | < 2 | < 1 | < 1 | < 1 | 25 | < 1 | NA |
| Oct-02 | < 0.5 / < 0.5 | < 1.0 / < 1.0 | < 0.8 / < 0.8 | 1 J / 1 J | < 0.8 / < 0.8 | 26 / 26 | < 1.0 / < 1.0 | NA |
| Apr-03 | < 0.5 | < 1.0 | < 0.8 | 1 J | < 0.8 | 25 | < 1.0 | NA |
| Oct-03 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 10 | < 1.0 | NA |
| Jul-04 | < 0.5 | NA | NA | 1 J | < 0.8 | 30 | < 1.0 | NA |
| Jul-05 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 22 | < 1.0 | NA |
| Aug-06 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 21 | < 1.0 | NA |
| Jul-07 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 20 | < 1.0 | NA |
| Jul-08 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 18 | < 1.0 | NA |
| Jul-09 | NA | NA | NA | < 0.8 | < 0.8 | 18 | < 1 | NA |
| Jun-10 | NA | NA | NA | < 0.8 | < 0.8 | 18 | < 1 | NA |
| Sep-11 | NA | NA | NA | < 0.8 | < 0.8 | 17 | < 1 | NA |
| Jul-12 | NA | NA | NA | 0.7 | < 0.1 | 18 | < 0.1 | NA |
| Dec-13 | NA | NA | NA | < 0.8 | < 0.8 | 18 | < 1 | NA |
| Apr-14 | NA | NA | NA | 0.6 J | < 0.5 | 17 | < 0.5 | 2 |
| Jul-14 | NA | NA | NA | 0.7 J | < 0.5 | 17 | < 0.5 | 3 |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 15 | < 0.5 | 2 |
| Jan-15 | NA | NA | NA | 0.9 J | < 0.5 | 18 | < 0.5 | 2 |
| Apr-15 | NA | NA | NA | 0.7 J | < 0.5 | 17 | < 0.5 | 2 |
| Aug-15 | NA | NA | NA | 0.6 J | < 0.5 | 15 | < 0.5 | 2 |
| Nov-15 | NA | NA | NA | 0.9 J | < 0.5 | 17 | < 0.5 | 2 |
| Feb-16 | NA | NA | NA | <0.5 | < 0.5 | 15 | < 0.5 | 2 |
| May-16 | NA | NA | NA | 0.6 J | < 0.5 | 15 | < 0.5 | 2 |
| MW-9S | | | | | | | | |
| Oct-98 | <1.0 | <1.0 | <1.0 | 0.7 J | <1.0 | 28.1 | <1.0 | NA |
| Mar-99 | <1.0/<1.0 | <1.0/<1.0 | <1.0/<1.0 | <1.0/<1.0 | <1.0 / <1.0 | 29.7 / 27.7 | <1.0/<1.0 | NA |
| Oct-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 9.8 | <1.0 | NA |
| May-00 | < 1.0 / < 1.0 | < 1.0 / < 1.0 | < 1.0 / < 1.0 | 0.8 / 0.9 J | < 1.0 / < 1.0 | 28 / 27.9 | < 1.0 / < 1.0 | NA |
| Oct-00 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 15.2 | < 1.0 | NA |
| Apr-01 | <1.0 | <1.0 | <1.0 | 1.4 | <1.0 | 16.7 | <1.0 | NA |
| Oct-01 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 8.9 | < 1.0 | NA |
| Apr-02 | < 1 | < 2 | < 1 | 1 J | < 1 | 24 | < 1 | NA |
| Oct-02 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 12 | < 1.0 | NA |
| Apr-03 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 17 | < 1.0 | NA |
| Oct-03 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 13 | < 1.0 | NA |
| Jul-04 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 16 | < 1.0 | NA |
| Jul-05 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 11 | < 1.0 | NA |
| Aug-06 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 12 | < 1.0 | NA |
| Jul-07 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 11 | < 1.0 | NA |
| Jul-08 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 8 | < 1.0 | NA |
| Jul-09 | NA | NA | NA | < 0.8 | < 0.8 | 8 | < 1 | NA |
| Jun-10 | NA | NA | NA | < 0.8 | < 0.8 | 7 | < 1 | NA |
| Sep-11 | NA | NA | NA | < 0.8 | < 0.8 | 7 | < 1 | NA |
| Jul-12 | NA | NA | NA | 0.2 J | < 0.1 | 8.0 | < 0.1 | NA |
| Dec-13 | NA | NA | NA | < 0.8 | < 0.8 | 8 | < 1 | NA |
| Apr-14 | NA | NA | NA | < 0.5 | < 0.5 | 4 | < 0.5 | 0.7 J |
| Jul-14 | NA | NA | NA | < 0.5 | < 0.5 | 6 | < 0.5 | 1 |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 5 | < 0.5 | 2 |
| Jan-15 | NA | NA | NA | < 0.5 | < 0.5 | 6 | < 0.5 | 2 |
| Apr-15 | NA | NA | NA | < 0.5 | < 0.5 | 7 | < 0.5 | 1 |
| Aug-15 | NA | NA | NA | < 0.5 | < 0.5 | 7 | < 0.5 | 2 |
| Nov-15 | NA | NA | NA | < 0.5 | < 0.5 | 5 | < 0.5 | 2 |
| Feb-16 | NA | NA | NA | < 0.5 | < 0.5 | 6 | < 0.5 | 1 |
| May-16 | NA | NA | NA | <0.5 | < 0.5 | 7 | < 0.5 | 1 |

**TABLE 3**
**GROUNDWATER ANALYTICAL RESULTS (µg/l)[a]**
**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**
**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**
**HORSEHEADS, NEW YORK**

| Well ID<br>Sample Date | Benzene | Chloroethane | 1,1-DCE | cis-1, 2-DCE | trans-1, 2-DCE | TCE | Vinyl Chloride | 1,1,1-TCA |
|---|---|---|---|---|---|---|---|---|
| MW-10S | | | | | | | | |
| Oct-98 | <1.0 | <1.0 | 0.3 J | 7.2 | <1.0 | 404 D [f] | <1.0 | NA |
| Mar-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 58.2 | <1.0 | NA |
| Oct-99 | <1.0 | <1.0 | <1.0 | 11.9 | <1.0 | 445.9 D | <1.0 | NA |
| May-00 | < 1.0 | < 1.0 | < 1.0 | 0.8 J | < 1.0 | 50.3 | < 1.0 | NA |
| Oct-00 | < 1.0 | < 1.0 | < 1.0 | 3.2 | < 1.0 | 247 D | < 1.0 | NA |
| Apr-01 | <1.0 | <1.0 | <1.0 | 2.4 | <1.0 | 67.0 | <1.0 | NA |
| Oct-01 | < 1.0 | < 1.0 | < 1.0 | 4.5 | < 1.0 | 150 | < 1.0 | NA |
| Apr-02 | < 1 | < 2 | < 1 | 7.0 | < 1 | 310 | < 1 | NA |
| Oct-02 | < 0.5 | < 1.0 | < 0.8 | 4 J | < 0.8 | 280 | < 1.0 | NA |
| Apr-03 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 34 | < 1.0 | NA |
| Oct-03 | < 0.5 | NA | NA | 1 J | < 0.8 | 64 | < 1.0 | NA |
| Jul-04 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 23 | < 1.0 | NA |
| Jul-05 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 23 | < 1.0 | NA |
| Aug-06 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 13 | < 1.0 | NA |
| Jul-07 | < 0.5 | NA | NA | 3 J | < 0.8 | 56 | < 1.0 | NA |
| Jul-08 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 16 | < 1.0 | NA |
| Jul-09 | NA | NA | NA | 3 J | < 0.8 | 62 | < 1 | NA |
| Jun-10 | NA | NA | NA | 1 J | < 0.8 | 74 | < 1 | NA |
| Sep-11 | NA | NA | NA | 1 J | < 0.8 | 24 | < 1 | NA |
| Jul-12 | NA | NA | NA | 3.3 | < 0.1 | 35 | < 0.1 | NA |
| Dec-13 | NA / NA | NA / NA | NA / NA | 5 / 5 | < 0.8 / < 0.8 | 53 / 53 | < 1 / < 1 | NA |
| Apr-14 | NA | NA | NA | 3.0 | < 0.5 | 27 | < 0.5 | 2 |
| Jul-14 | NA | NA | NA | 0.7 J | < 0.5 | 10 | < 0.5 | 2 |
| Oct-14 | NA | NA | NA | 3.0 | < 0.5 | 19 | < 0.5 | 2 |
| Jan-15 | NA | NA | NA | 7.0 | < 0.5 | 51 | < 0.5 | 2 |
| Apr-15 | NA | NA | NA | 14.0 | < 0.5 | 66 | < 0.5 | 2 |
| Aug-15 | NA / NA | NA / NA | NA / NA | 1 / 1 | < 0.5 / < 0.5 | 17 / 19 | < 0.5 / < 0.5 | 2 / 2 |
| Nov-15 | NA | NA | NA | 8.0 | < 0.5 | 54 | < 0.5 | 2 |
| Feb-16 | NA | NA | NA | 0.8 J | < 0.5 | 12 | < 0.5 | 1 |
| May-16 | NA | NA | NA | < 0.5 | < 0.5 | 8 | < 0.5 | 2 |
| MW-15D | | | | | | | | |
| Apr-14 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 0.9 J |
| Jul-14 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 |
| Jan-15 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 |
| Apr-15 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 |
| Aug-15 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 |
| Nov-15 | NA | NA | NA | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Feb-16 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 |
| May-16 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 |
| MW-15S | | | | | | | | |
| Apr-14 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 |
| Jul-14 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 0.9 J |
| Jan-15 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 |
| Apr-15 | NA | NA | NA | < 0.5 | < 0.5 | 2 | < 0.5 | 1 |
| Aug-15 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 |
| Nov-15 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 J |
| Feb-16 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 J |
| May-16 | NA | NA | NA | < 0.5 | < 0.5 | 1 | < 0.5 | 1 |
| MW-16D | | | | | | | | |
| Apr-14 | NA | NA | NA | 1 | < 0.5 | 0.7 | < 0.5 | < 0.5 |
| Jul-14 | NA | NA | NA | < 0.5 | < 0.5 | 2.0 | < 0.5 | 2 |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 2 | < 0.5 | 1 |
| Jan-15 | NA | NA | NA | < 0.5 | < 0.5 | 2 | < 0.5 | 2 |
| Apr-15 | NA / NA | NA / NA | NA / NA | < 0.5 / < 0.5 | < 0.5 / < 0.5 | 3 / 3 | < 0.5 / < 0.5 | 2 / 2 |
| Aug-15 | NA | NA | NA | < 0.5 | < 0.5 | 3 | < 0.5 | 2 |
| Nov-15 | NA | NA | NA | < 0.5 | < 0.5 | 3 | < 0.5 | 2 |
| Feb-16 | NA | NA | NA | < 0.5 | < 0.5 | 3 | < 0.5 | 2 |
| May-16 | NA | NA | NA | < 0.5 | < 0.5 | 3 | < 0.5 | 2 |
| MW-16S | | | | | | | | |
| Apr-14 | NA | NA | NA | < 0.5 / < 0.5 | < 0.5 / < 0.5 | 9 | < 0.5 / < 0.5 | 1 / 1 |
| Jul-14 | NA | NA | NA | < 0.5 | < 0.5 | 10 | < 0.5 | 1 |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 7 | < 0.5 | 1 |
| Jan-15 | NA | NA | NA | < 0.5 | < 0.5 | 6 | < 0.5 | 1 |
| Apr-15 | NA | NA | NA | < 0.5 | < 0.5 | 5 | < 0.5 | 1 |
| Aug-15 | NA | NA | NA | < 0.5 | < 0.5 | 4 | < 0.5 | 1 |
| Nov-15 | NA | NA | NA | < 0.5 | < 0.5 | 4 | < 0.5 | 1 J |
| Feb-16 | NA | NA | NA | < 0.5 | < 0.5 | 3 | < 0.5 | 1 |
| May-16 | NA | NA | NA | < 0.5 | < 0.5 | 3 | < 0.5 | 0.9 J |

**TABLE 3**
**GROUNDWATER ANALYTICAL RESULTS (µg/l)[a]**
**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**
**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**
**HORSEHEADS, NEW YORK**

| Well ID<br>Sample Date | Benzene | Chloroethane | 1,1-DCE | cis-1, 2-DCE | trans-1, 2-DCE | TCE | Vinyl Chloride | 1,1,1-TCA |
|---|---|---|---|---|---|---|---|---|
| CW-3D | | | | | | | | |
| Dec-96 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 29 | <1.0 | NA |
| Mar-97 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 24 | <1.0 | NA |
| Oct-98 | <1.0 | <1.0 | <1.0 | 1 J | <1.0 | 17 | <1.0 | NA |
| Mar-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 18 | <1.0 | NA |
| Oct-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 17 | <1.0 | NA |
| May-00 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 15 | < 1.0 | NA |
| Oct-00 | < 1.0 / < 1.0 | < 1.0 / < 1.0 | < 1.0 / < 1.0 | 0.7J / 0.7J | < 1.0 / < 1.0 | 15.8 / 15.0 | < 1.0 / < 1.0 | NA |
| Apr-01 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 12.3 | <1.0 | NA |
| Oct-01 | < 1.0 | < 1.0 | < 1.0 | 0.61 J | < 1.0 | 14 | < 1.0 | NA |
| Apr-02 | < 1 / < 1 | < 2 / < 2 | < 1 / < 1 | < 1 / < 1 | < 1 / < 1 | 15 / 15 | < 1 / < 1 | NA |
| Oct-02 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 15 | < 1.0 | NA |
| Apr-03 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 12 | < 1.0 | NA |
| Oct-03 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 14 | < 1.0 | NA |
| Jul-04 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 8 | < 1.0 | NA |
| Jul-05 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 11 | < 1.0 | NA |
| Aug-06 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 11 | < 1.0 | NA |
| Jul-07 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 9 | < 1.0 | NA |
| Jul-08 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 8 | < 1.0 | NA |
| Jul-09 | NA | NA | NA | < 0.8 | < 0.8 | 9 | < 1 | NA |
| Jun-10 | NA | NA | NA | < 0.8 | < 0.8 | 10 | < 1 | NA |
| Sep-11 | NA | NA | NA | < 0.8 | < 0.8 | 8 | < 1 | NA |
| Jul-12 | NA | NA | NA | 0.2 J | < 0.1 | 9.2 | < 0.1 | NA |
| Dec-13 | NA | NA | NA | < 0.8 | < 0.8 | 9 | < 1 | NA |
| Apr-14 | NA | NA | NA | < 0.5 | < 0.5 | 8 | < 0.5 | 1 |
| Jul-14 | NA | NA | NA | < 0.5 | < 0.5 | 8 | < 0.5 | 1 |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 9 | < 0.5 | 1 |
| Jan-15 | NA | NA | NA | < 0.5 | < 0.5 | 10 | < 0.5 | 1 |
| Apr-15 | NA | NA | NA | < 0.5 | < 0.5 | 10 | < 0.5 | 1 |
| Aug-15 | NA | NA | NA | < 0.5 | < 0.5 | 10 | < 0.5 | 1 |
| Nov-15 | NA | NA | NA | < 0.5 | < 0.5 | 10 | < 0.5 | 1 |
| Feb-16 | NA | NA | NA | < 0.5 | < 0.5 | 10 | < 0.5 | 1 |
| May-16 | NA | NA | NA | < 0.5 | < 0.5 | 10 | < 0.5 | 1 |
| CW-3S | | | | | | | | |
| Dec-96 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 20 | <1.0 | NA |
| Mar-97 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 17 | <1.0 | NA |
| Oct-98 | <1.0 | <1.0 | <1.0 | 1 J | <1.0 | 14 | <1.0 | NA |
| Mar-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 11.9 | <1.0 | NA |
| Oct-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 14.5 | <1.0 | NA |
| May-00 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 10.7 | < 1.0 | NA |
| Oct-00 | < 1.0 | < 1.0 | < 1.0 | 0.6J | < 1.0 | 10.8 | < 1.0 | NA |
| Apr-01 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 8.5 | <1.0 | NA |
| Oct-01 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 9.7 | < 1.0 | NA |
| Apr-02 | < 1 | < 2 | < 1 | < 1 | < 1 | 9 | < 1 | NA |
| Oct-02 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 10 | < 1.0 | NA |
| Apr-03 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 7 | < 1.0 | NA |
| Oct-03 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 9 | < 1.0 | NA |
| Jul-04 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 12 | < 1.0 | NA |
| Jul-05 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 6 | < 1.0 | NA |
| Aug-06 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 7 | < 1.0 | NA |
| Jul-07 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 6 | < 1.0 | NA |
| Jul-08 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 5 | < 1.0 | NA |
| Jul-09 | NA | NA | NA | < 0.8 | < 0.8 | 6 | < 1 | NA |
| Jun-10 | NA | NA | NA | < 0.8 | < 0.8 | 6 | < 1 | NA |
| Sep-11 | NA | NA | NA | < 0.8 | < 0.8 | 6 | < 1 | NA |
| Jul-12 | NA | NA | NA | < 0.1 | < 0.1 | 5.7 | < 0.1 | NA |
| Dec-13 | NA | NA | NA | < 0.8 | < 0.8 | 6 | < 1 | NA |
| Apr-14 | NA | NA | NA | < 0.5 | < 0.5 | 5 | < 0.5 | 1 J |
| Jul-14 | NA | NA | NA | < 0.5 | < 0.5 | 5 | < 0.5 | 1 |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 6 | < 0.5 | 1 |
| Jan-15 | NA | NA | NA | < 0.5 / < 0.5 | < 0.5 / < 0.5 | 8 / 8 | < 0.5 / < 0.5 | 1 / 1 |
| Apr-15 | NA | NA | NA | < 0.5 | < 0.5 | 8 | < 0.5 | 1 |
| Aug-15 | NA | NA | NA | < 0.5 | < 0.5 | 7 | < 0.5 | 1 |
| Nov-15 | NA | NA | NA | < 0.5 | < 0.5 | 9 | < 0.5 | 1 |
| Feb-16 | NA | NA | NA | < 0.5 / < 0.5 | < 0.5 / < 0.5 | 8 / 8 | < 0.5 / < 0.5 | 1 / 1 |
| May-16 | NA | NA | NA | < 0.5 | < 0.5 | 7 | < 0.5 | 1 |

**TABLE 3**
**GROUNDWATER ANALYTICAL RESULTS (µg/l)[a]**
**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**
**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**
**HORSEHEADS, NEW YORK**

| Well ID<br>Sample Date | Benzene | Chloroethane | 1,1-DCE | cis-1, 2-DCE | trans-1, 2-DCE | TCE | Vinyl Chloride | 1,1,1-TCA |
|---|---|---|---|---|---|---|---|---|
| MW-113D | | | | | | | | |
| Oct-98 | <1.0 | <1.0 | <1.0 | 1 | <1.0 | 44 | <1.0 | NA |
| Mar-99 | <1.0 | <1.0 | <1.0 | 0.7 J | <1.0 | 33.7 | <1.0 | NA |
| Oct-99 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 48.8 | <1.0 | NA |
| May-00 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 43.2 | < 1.0 | NA |
| Oct-00 | < 1.0 | < 1.0 | < 1.0 | 1.0J | < 1.0 | 35.2 | < 1.0 | NA |
| Apr-01 | <1.0 | <1.0 | <1.0 | 0.9J | <1.0 | 34 | <1.0 | NA |
| Oct-01 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 9.8 | < 1.0 | NA |
| Apr-02 | < 1 | < 2 | < 1 | < 1 | < 1 | 41 | < 1 | NA |
| Oct-02 | < 0.5 | < 1.0 | < 0.8 | 0.9 J | < 0.8 | 42 | < 1.0 | NA |
| Apr-03 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 37 | < 1.0 | NA |
| Oct-03 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 38 | < 1.0 | NA |
| Jul-04 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 37 | < 1.0 | NA |
| Jul-05 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 32 | < 1.0 | NA |
| Aug-06 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 32 | < 1.0 | NA |
| Jul-07 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 28 | < 1.0 | NA |
| Jul-08 | < 0.5 / < 0.5 | NA / NA | NA / NA | < 0.8 / < 0.8 | < 0.8 / < 0.8 | 25 / 25 | < 1.0 / < 1.0 | NA |
| Jul-09 | NA | NA | NA | < 0.8 | < 0.8 | 25 | < 1 | NA |
| Jun-10 | NA | NA | NA | < 0.8 | < 0.8 | 25 | < 1 | NA |
| Sep-11 | NA | NA | NA | < 0.8 | < 0.8 | 20 | < 1 | NA |
| Jul-12 | NA | NA | NA | 0.4 J | < 0.1 | 23 | < 0.1 | NA |
| Dec-13 | NA | NA | NA | < 0.8 | < 0.8 | 23 | < 1 | NA |
| Apr-14 | NA | NA | NA | < 0.5 | < 0.5 | 20 | < 0.5 | 0.7 J |
| Jul-14 | NA | NA | NA | < 0.5 | < 0.5 | 22 | < 0.5 | 0.8 J |
| Oct-14 | NA | NA | NA | < 0.5 | < 0.5 | 19 | < 0.5 | 0.6 J |
| Jan-15 | NA | NA | NA | < 0.5 | < 0.5 | 20 | < 0.5 | 0.7 J |
| Apr-15 | NA | NA | NA | < 0.5 | < 0.5 | 20 | < 0.5 | 0.8 J |
| Aug-15 | NA | NA | NA | < 0.5 | < 0.5 | 21 | < 0.5 | 0.8 J |
| Nov-15 | NA | NA | NA | < 0.5 | < 0.5 | 20 | < 0.5 | 0.7 J |
| Feb-16 | NA | NA | NA | < 0.5 | < 0.5 | 18 | < 0.5 | 0.6 J |
| May-16 | NA | NA | NA | < 0.5 | < 0.5 | 20 | < 0.5 | 0.7 J |
| BW-1 | | | | | | | | |
| Apr-01 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 5.6 | <1.0 | NA |
| Oct-01 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 5.7 | < 1.0 | NA |
| Apr-02 | < 1.0 | < 2.0 | < 1.0 | < 1.0 | < 1.0 | 6 | < 1.0 | NA |
| Oct-02 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 6 | < 1.0 | NA |
| Apr-03 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 5 J | < 1.0 | NA |
| Oct-03 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 6 | < 1.0 | NA |
| Jul-04 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 5 | < 1.0 | NA |
| Jul-05 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 4 J | < 1.0 | NA |
| Aug-06 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 3 J | < 1.0 | NA |
| Jul-07 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 3 J | < 1.0 | NA |
| Jul-08 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 3 J | < 1.0 | NA |
| Jul-09 | NA | NA | NA | < 0.8 | < 0.8 | 4 J | < 1 | NA |
| Jun-10 | NA | NA | NA | < 0.8 | < 0.8 | 4 J | < 1 | NA |
| Sep-11 | NA | NA | NA | < 0.8 | < 0.8 | 3 J | < 1 | NA |
| Jul-12 | NA | NA | NA | < 0.1 | < 0.1 | 3.0 | < 0.1 | NA |
| Dec-13 | NA | NA | NA | < 0.8 | < 0.8 | 4 J | < 1 | NA |
| Apr-14 | NA | NA | NA | < 0.8 | < 0.8 | 4 J | < 1 | NA |
| BW-2 | | | | | | | | |
| Apr-01 | <1.0 | <1.0 | <1.0 | 0.5 J | <1.0 | 17.5 | <1.0 | NA |
| Oct-01 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 19 | < 1.0 | NA |
| Apr-02 | <1.0 | < 2.0 | <1.0 | <1.0 | <1.0 | 18 | <1.0 | NA |
| Oct-02 | < 0.5 | < 1.0 | < 0.8 | <0.8 | < 0.8 | 17 | < 1.0 | NA |
| Apr-03 | < 0.5 | < 1.0 | < 0.8 | < 0.8 | < 0.8 | 14 | < 1.0 | NA |
| Oct-03 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 17 | < 1.0 | NA |
| Jul-04 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 16 | < 1.0 | NA |
| Jul-05 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 8 | < 1.0 | NA |
| Aug-06 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 8 | < 1.0 | NA |
| Jul-07 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 10 | < 1.0 | NA |
| Jul-08 | < 0.5 | NA | NA | < 0.8 | < 0.8 | 7 | < 1.0 | NA |
| Jul-09 | NA | NA | NA | < 0.8 | < 0.8 | 7 | < 1 | NA |
| Jun-10 | NA | NA | NA | < 0.8 | < 0.8 | 9 | < 1 | NA |
| Sep-11 | NA | NA | NA | < 0.8 | < 0.8 | 10 | < 1 | NA |
| Jul-12 | NA | NA | NA | 0.3 J | < 0.1 | 7.9 | < 0.1 | NA |
| Dec-13 | NA | NA | NA | < 0.8 | < 0.8 | 7 | < 1 | NA |
| Apr-14 | NA | NA | NA | < 0.8 | < 0.8 | 7 | < 1 | NA |

**TABLE 3**

**GROUNDWATER ANALYTICAL RESULTS (µg/l)[a]**

**FORMER WESTINGHOUSE ELECTRIC CORPORATION FACILITY**

**KENTUCKY AVENUE WELLFIELD SUPERFUND SITE**

**HORSEHEADS, NEW YORK**

**Notes:**

[a] µg/l is micrograms per liter or parts per billion (ppb).

[b] "< x" indicates value is below quantitation limit, x.

[c] --/-- indicates a duplicate sample was collected at specified well.

[d] "J" represents a value that is estimated and is below the quantitation limit.

[e] "NA" indicates that the compound has not been analyzed.

[f] "D" indicates that the compound was found in an analysis at a secondary dilution factor.

# FIGURES

**Figure 1: Site Location Map**

**Figure 2: Well Location Map**

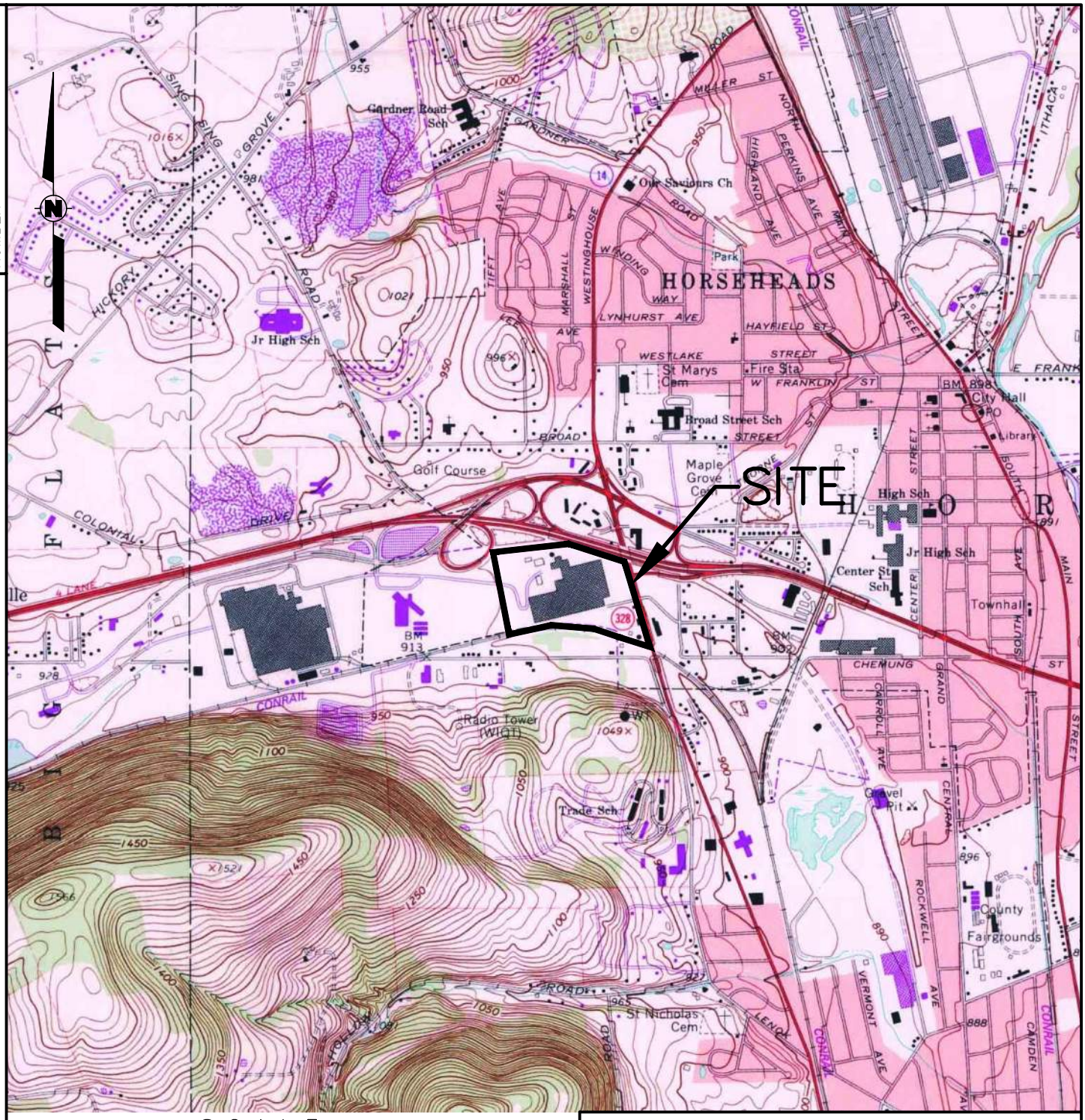
**Figure 3: Potentiometric Surface Map - Shallow Portion of Newtown Creek Aquifer - February 23, 2016**

**Figure 4: Potentiometric Surface Map - Deep Portion of Newtown Creek Aquifer – February 23, 2016**

**Figure 5: TCE Concentrations - Shallow Portion of Newtown Creek Aquifer – May 2016**

**Figure 6: TCE Concentrations - Deep Portion of Newtown Creek Aquifer – May 2016**

DRAWING NUMBER 96206A1




SCALE

0 2000 4000 FEET

REFERENCE
USGS 7.5-MIN TOPOGRAPHIC QUADRANGLE
HORSEHEADS, NEW YORK, DATED 1969
PHOTO REVISED 1978
SCALE 1:24000.




QUADRANGLE LOCATION

# FIGURE 1

## SITE LOCATION MAP

KENTUCKY AVENUE WELLFIELD SITE – OU2
HORSEHEADS, NEW YORK

PREPARED FOR
VIACOM INC.
PITTSBURGH, PENNSYLVANIA

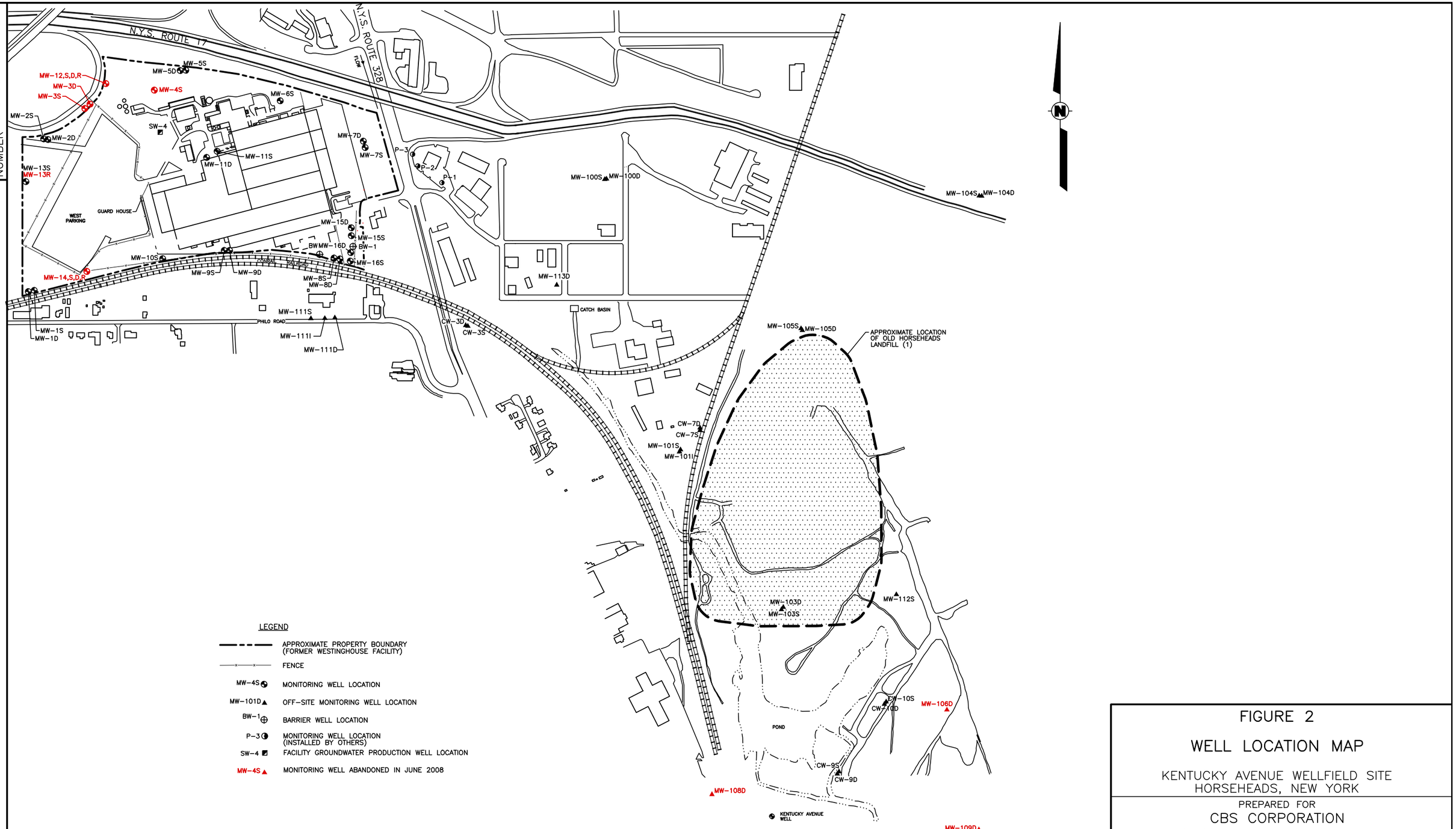
WOODARD &CURRAN
300 Penn Center Blvd.
Suite 800
Pittsburgh, PA 15235
(412) 241-4500
Fax: (412) 241-7500

DRAWING NUMBER 96206A1

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |

| | | | |
|---|---|---|---|
| DRAWN BY: | T.N. Fitzroy | DATE: | 9-21-05 |
| CHECKED BY: | C.R. Kuzmkowski | DATE: | 9-21-05 |
| APPROVED BY: | D.E. Spicuzza | DATE: | 9-21-05 |

DRAWING NUMBER 96206B115




LEGEND

- APPROXIMATE PROPERTY BOUNDARY (FORMER WESTINGHOUSE FACILITY)
- FENCE
- MW-4S — MONITORING WELL LOCATION
- MW-101D — OFF-SITE MONITORING WELL LOCATION
- BW-1 — BARRIER WELL LOCATION
- P-3 — MONITORING WELL LOCATION (INSTALLED BY OTHERS)
- SW-4 — FACILITY GROUNDWATER PRODUCTION WELL LOCATION
- MW-4S — MONITORING WELL ABANDONED IN JUNE 2008

SCALE

400 0 400 800 FEET

REFERENCE:

BASE MAP PROVIDED BY PHILLIP ENVIRONMENTAL, DRAWING NUMBER 427100BV, TITLED "STUDY AREA BASE MAP", DATED 8-31-95.

PLOT SCALE: 1=600

# FIGURE 2

## WELL LOCATION MAP

KENTUCKY AVENUE WELLFIELD SITE
HORSEHEADS, NEW YORK

PREPARED FOR
CBS CORPORATION
PITTSBURGH, PENNSYLVANIA

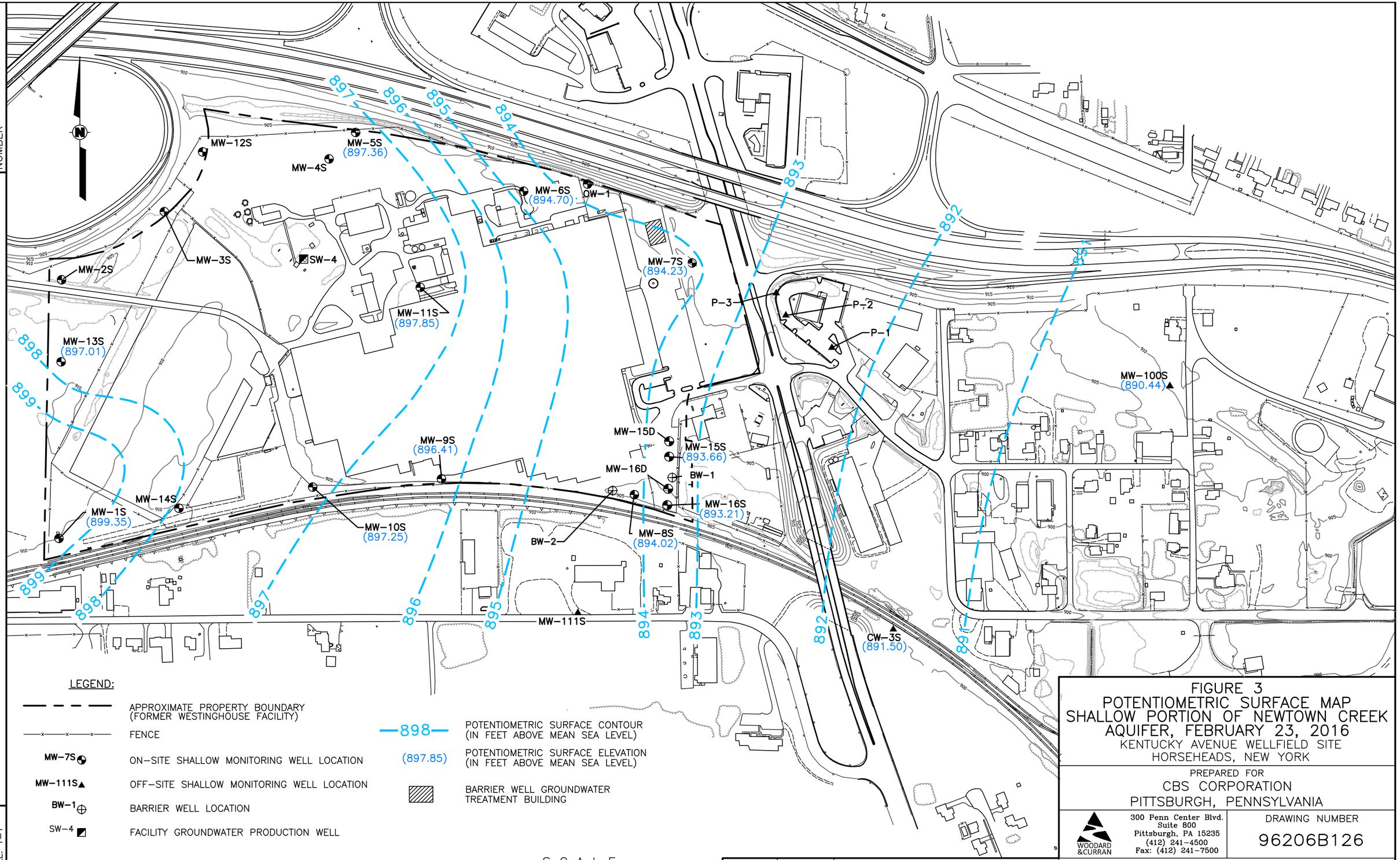

WOODARD &CURRAN
300 Penn Center Blvd.
Suite 800
Pittsburgh, PA 15235
(412) 241-4500
Fax: (412) 241-7500


DRAWING NUMBER 96206B115

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |

DRAWN BY: *B.J. SIMMONS* DATE: *08-14-14*
CHECKED BY: *J. J. Pytlak* DATE: *11-14-14*
APPROVED BY: *D.E. SPICUZZA* DATE: *11-14-14*

DRAWING NUMBER 96206B126




LEGEND:

- APPROXIMATE PROPERTY BOUNDARY (FORMER WESTINGHOUSE FACILITY)
- FENCE
- MW-7S — ON-SITE SHALLOW MONITORING WELL LOCATION
- MW-111S — OFF-SITE SHALLOW MONITORING WELL LOCATION
- BW-1 — BARRIER WELL LOCATION
- SW-4 — FACILITY GROUNDWATER PRODUCTION WELL
- —898— POTENTIOMETRIC SURFACE CONTOUR (IN FEET ABOVE MEAN SEA LEVEL)
- (897.85) POTENTIOMETRIC SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL)
- BARRIER WELL GROUNDWATER TREATMENT BUILDING

SCALE
0 300 600 FEET

PLOT SCALE: 1=1

# FIGURE 3
# POTENTIOMETRIC SURFACE MAP SHALLOW PORTION OF NEWTOWN CREEK AQUIFER, FEBRUARY 23, 2016

KENTUCKY AVENUE WELLFIELD SITE
HORSEHEADS, NEW YORK

PREPARED FOR
CBS CORPORATION
PITTSBURGH, PENNSYLVANIA


WOODARD &CURRAN
300 Penn Center Blvd.
Suite 800
Pittsburgh, PA 15235
(412) 241-4500
Fax: (412) 241-7500


DRAWING NUMBER 96206B126

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |

DRAWN BY: *B.J. SIMMONS* DATE: *06-08-16*
CHECKED BY: *J.J. PYTLAK* DATE: – – –
APPROVED BY: *D.E. SPICUZZA* DATE: – – –

DRAWING NUMBER 96206B127

MW-5D (896.34)
MW-2D (899.13)
SW-4 (NA)
MW-11D (897.76)
(894.38)
MW-7D (894.33)
MW-9D (896.22)
MW-15D (893.71)
MW-16D (893.54)
BW-1
MW-1D (899.33)
BW-2
MW-8D (891.01)
MW-111D (894.89)
MW-100D (NA)
MW-113D (889.82)
CW-3D (891.69)

LEGEND:

| | |
|---|---|
| APPROXIMATE PROPERTY BOUNDARY (FORMER WESTINGHOUSE FACILITY) | |
| FENCE | |
| MW-14D | ON-SITE DEEP MONITORING WELL LOCATION |
| MW-111S | OFF-SITE DEEP MONITORING WELL LOCATION |
| BW-1 | BARRIER WELL LOCATION |
| SW-4 | FACILITY GROUNDWATER PRODUCTION WELL LOCATION |
| 895 | POTENTIOMETRIC SURFACE CONTOUR (IN FEET ABOVE MEAN SEA LEVEL) |
| (897.76) | POTENTIOMETRIC SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL) |
| (NA) | INDICATES MEASUREMENT NOT OBTAINED |
| | BARRIER WELL GROUNDWATER TREATMENT BUILDING |

SCALE
0 300 600 FEET

PLOT SCALE: 1=1

# FIGURE 4
# POTENTIOMETRIC SURFACE MAP DEEPER PORTION OF NEWTOWN CREEK AQUIFER, FEBRUARY 23, 2016
KENTUCKY AVENUE WELLFIELD SITE
HORSEHEADS, NEW YORK

PREPARED FOR
CBS CORPORATION
PITTSBURGH, PENNSYLVANIA

WOODARD &CURRAN
300 Penn Center Blvd.
Suite 800
Pittsburgh, PA 15235
(412) 241-4500
Fax: (412) 241-7500

DRAWING NUMBER 96206B127

| REVISION | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |

DRAWN BY: *B.J. SIMMONS* DATE: *06-08-16*
CHECKED BY: *J.J. PYTLAK* DATE: – – –
APPROVED BY: *D.E. SPICUZZA* DATE: – – –

DRAWING NUMBER 96206E58




LEGEND:

- APPROXIMATE PROPERTY BOUNDARY (FORMER WESTINGHOUSE FACILITY)
- FENCE
- MW-7S (4) — ON-SITE SHALLOW MONITORING WELL LOCATION WITH TCE CONCENTRATION IN µg/l (MAY 2016)
- CW-3S (7) — OFF-SITE SHALLOW MONITORING WELL LOCATION WITH TCE CONCENTRATION IN µg/l (MAY 2016)
- SW-4 — FACILITY GROUNDWATER PRODUCTION WELL LOCATION

NOTES:

1. "X / X" INDICATES A DUPLICATE SAMPLE WAS COLLECTED AT THIS LOCATION

SCALE
300 0 300 600 FEET

| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| | | | |
| | | | |
| | | | |


WOODARD &CURRAN
300 Penn Center Blvd.
Suite 800
Pittsburgh, PA 15235
(412) 241-4600
Fax: (412) 241-7500


# FIGURE 5
## TCE CONCENTRATIONS SHALLOW PORTION OF NEWTOWN CREEK AQUIFER, MAY 2016

KENTUCKY AVENUE WELLFIELD SITE
HORSEHEADS, NEW YORK

PREPARED FOR
CBS CORPORATION
PITTSBURGH, PENNSYLVANIA

| SIZE | SCALE | REV. | DRAWING NUMBER |
|---|---|---|---|
| E | 1" = 300' | | 96206E58 |

| | | |
|---|---|---|
| DRAWN BY: | B.J. SIMMONS | DATE: 06-06-16 |
| CHECKED BY: | J.J. Pytlak | DATE: 06-06-16 |
| APPROVED BY: | D.E. SPICUZZA | DATE: 06-06-16 |

PLOT SCALE: 1=1

DRAWING NUMBER 96206E57




**LEGEND:**

- APPROXIMATE PROPERTY BOUNDARY (FORMER WESTINGHOUSE FACILITY)
- FENCE
- MW-9D 15 — ON-SITE DEEP MONITORING WELL LOCATION WITH TCE CONCENTRATION IN µg/l (MAY 2016)
- MW-113D▲ 20 — OFF-SITE DEEP MONITORING WELL LOCATION WITH TCE CONCENTRATION IN µg/l (MAY 2016)
- SW-4 — FACILITY GROUNDWATER PRODUCTION WELL LOCATION

**NOTES:**

1. "X / X" INDICATES A DUPLICATE SAMPLE WAS COLLECTED AT THIS LOCATION

SCALE
300 0 300 600 FEET

| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
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WOODARD &CURRAN
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Pittsburgh, PA 15235
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Fax: (412) 241-7500


# FIGURE 6

## TCE CONCENTRATIONS DEEPER PORTION OF NEWTOWN CREEK AQUIFER, MAY 2016

KENTUCKY AVENUE WELLFIELD SITE
HORSEHEADS, NEW YORK

PREPARED FOR
CBS CORPORATION
PITTSBURGH, PENNSYLVANIA

| SIZE | SCALE | REV. | DRAWING NUMBER |
|---|---|---|---|
| E | 1" = 300' | X | 96206E59 |

| | | |
|---|---|---|
| DRAWN BY: | B.J. SIMMONS | DATE: 06-06-16 |
| CHECKED BY: | J.J. PYTLAK | DATE: 06-06-16 |
| APPROVED BY: | D.E. SPICUZZA | DATE: 06-06-16 |

PLOT SCALE: 1=1

# APPENDIX A: FIELD FORMS (ON COMPACT DISK)

# Well Purging Records

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 13.26 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 36.00 ft TOR |
| **DATE:** | 7/14/14 | **FEET OF WATER IN LINE:** | 22.74 feet |
| **WELL I.D.:** | MW-105D | **VOLUME OF WATER IN LINE:** | 0.11 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 13.62 | 7.03 | 1.206 | 13.55 | 2.94 | 21.0 | 126 |
| 5 | 13.64 | 7.29 | 1.201 | 12.49 | 2.07 | 20.1 | 110 |
| 10 | 13.78 | 7.50 | 1.203 | 12.91 | 1.45 | 45.7 | 89 |
| 15 | 13.61 | 7.57 | 1.203 | 13.27 | 1.22 | 34.6 | 77 |
| 20 | 13.55 | 7.61 | 1.203 | 13.82 | 1.06 | 18.0 | 62 |
| 25 | 13.54 | 7.63 | 1.199 | 13.57 | 1.04 | 34.8 | 41 |
| 30 | 13.55 | 7.62 | 1.204 | 14.00 | 0.95 | 51.6 | 13 |
| 35 | 13.55 | 7.63 | 1.194 | 13.50 | 0.87 | 53.3 | -10 |
| 40 | 13.55 | 7.62 | 1.193 | 13.44 | 0.91 | 49.3 | -14 |
| 45 | 13.55 | 7.62 | 1.197 | 13.60 | 0.86 | 48.1 | -20 |
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**PURGE START TIME:** 16.40 **PURGE END TIME:** 17.25 **TOTAL VOLUME PURGED:** ~ 2.47 **gal**

**APPROXIMATE PURGE RATE:** 325 **ml/min** **PURGED/SAMPLED BY:** MNC

**WEATHER CONDITIONS:** Hot / cloudy

**COMMENTS:** The Flow Rate was Reduced to 175 ml/min After 10 minutes of Purging To Minimize Drawdown.

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 14.34 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 57.00 ft TOR |
| **DATE:** | 7 / 14 / 14 | **FEET OF WATER IN LINE:** | 42.66 feet |
| **WELL I.D.:** | MW-70 | **VOLUME OF WATER IN LINE:** | 0.21 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 14.36 | 7.55 | 0.914 | 12.06 | 6.62 | 69.2 | 96 |
| 5 | 14.36 | 7.54 | 0.913 | 12.04 | 6.96 | 112 | 86 |
| 10 | 14.36 | 7.65 | 0.902 | 11.97 | 7.15 | 47.5 | 86 |
| 15 | 14.36 | 7.68 | 0.903 | 11.96 | 7.12 | 37.6 | 87 |
| 20 | 14.36 | 7.69 | 0.903 | 11.85 | 7.21 | 44.2 | 88 |
| 25 | 14.36 | 7.70 | 0.904 | 12.22 | 6.88 | 46.4 | 89 |
| 30 | 14.36 | 7.70 | 0.907 | 12.15 | 6.87 | 48.7 | 90 |
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**PURGE START TIME:** 15:45 **PURGE END TIME:** 16:15 **TOTAL VOLUME PURGED:** ~ 3.17 **gal**

**APPROXIMATE PURGE RATE:** 400 **ml/min** **PURGED/SAMPLED BY:** MJL

**WEATHER CONDITIONS:** Hot / Cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 14.30 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 25.80 ft TOR |
| **DATE:** | 7/14/14 | **FEET OF WATER IN LINE:** | 11.50 feet |
| **WELL I.D.:** | CW-7S | **VOLUME OF WATER IN LINE:** | 0.06 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 14.30 | 6.96 | 2.54 | 13.10 | 4.70 | 6.8 | 102 |
| 5 | 14.30 | 7.19 | 2.65 | 12.16 | 5.10 | 0.9 | 58 |
| 10 | 14.30 | 7.25 | 2.60 | 12.50 | 4.94 | 0.0 | 56 |
| 15 | 14.30 | 7.25 | 2.58 | 11.69 | 5.29 | 0.0 | 66 |
| 20 | 14.30 | 7.17 | 2.61 | 11.91 | 5.09 | 0.0 | 80 |
| 25 | 14.30 | 7.13 | 2.64 | 12.44 | 4.31 | 0.0 | 87 |
| 30 | 14.30 | 7.13 | 2.64 | 12.38 | 4.40 | 0.0 | 85 |
| 35 | 14.30 | 7.15 | 2.66 | 12.53 | 4.09 | 0.0 | 87 |
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**PURGE START TIME:** 15:00 **PURGE END TIME:** 15:35 **TOTAL VOLUME PURGED:** ~ 3.47 gal

**APPROXIMATE PURGE RATE:** 376 ml/min **PURGED/SAMPLED BY:** MM

**WEATHER CONDITIONS:** Hot / Humid

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 9.37 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 16.00 ft TOR |
| **DATE:** | 7/14/14 | **FEET OF WATER IN LINE:** | 6.63 feet |
| **WELL I.D.:** | MW-101S | **VOLUME OF WATER IN LINE:** | 0.03 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 9.43 | 6.65 | 2.23 | 13.04 | 3.82 | 179 | 57 |
| 5 | 9.45 | 7.25 | 2.37 | 12.91 | 1.77 | 44.2 | -10 |
| 10 | 9.45 | 7.29 | 2.35 | 12.31 | 1.84 | 33.1 | -12 |
| 15 | 9.45 | 7.36 | 2.41 | 12.55 | 1.90 | 24.5 | -9 |
| 20 | 9.45 | 7.44 | 2.43 | 12.19 | 2.18 | 10.2 | 2 |
| 25 | 9.45 | 7.46 | 2.44 | 12.23 | 2.35 | 2.9 | 10 |
| 30 | 9.45 | 7.49 | 2.44 | 12.29 | 2.41 | 3.7 | 13 |
| 35 | 9.45 | 7.49 | 2.45 | 12.29 | 2.32 | 0.4 | 17 |
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**PURGE START TIME:** 14:10 **PURGE END TIME:** 14:45 **TOTAL VOLUME PURGED:** ~ 4.14 **gal**

**APPROXIMATE PURGE RATE:** 450 **ml/min** **PURGED/SAMPLED BY:** MAL

**WEATHER CONDITIONS:** Hot / Sunny

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 8.19 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 31.00 ft TOR |
| **DATE:** | 7/14/14 | **FEET OF WATER IN LINE:** | 22.81 feet |
| **WELL I.D.:** | MW-101I | **VOLUME OF WATER IN LINE:** | 0.11 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 8.35 | 6.41 | 2.03 | 13.06 | 3.08 | 295 | 48 |
| 5 | 8.35 | 6.74 | 2.12 | 12.50 | 2.48 | 222 | -7 |
| 10 | 8.35 | 7.05 | 2.05 | 12.48 | 1.82 | 127 | -4 |
| 15 | 8.35 | 6.81 | 2.00 | 12.86 | 1.61 | 145 | 35 |
| 20 | 8.35 | 6.31 | 1.90 | 12.79 | 1.56 | 140 | 58 |
| 25 | 8.35 | 6.06 | 1.88 | 12.34 | 1.51 | 128 | 109 |
| 30 | 8.35 | 6.00 | 1.84 | 12.10 | 1.48 | 115 | 130 |
| 35 | 8.35 | 5.88 | 1.82 | 12.27 | 1.45 | 113 | 131 |
| 40 | 8.35 | 5.86 | 1.80 | 12.27 | 1.40 | 110 | 137 |
| 45 | 8.35 | 5.84 | 1.82 | 12.23 | 1.40 | 109 | 134 |
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**PURGE START TIME:** 13:20 **PURGE END TIME:** 14:05 **TOTAL VOLUME PURGED:** ~ 4.76 **gal**

**APPROXIMATE PURGE RATE:** 400 **ml/min** **PURGED/SAMPLED BY:** MAL

**WEATHER CONDITIONS:** Hot / Cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 15.99 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 24.80 ft TOR |
| **DATE:** | 7/15/14 | **FEET OF WATER IN LINE:** | 8.81 feet |
| **WELL I.D.:** | MW-9S | **VOLUME OF WATER IN LINE:** | 0.04 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 16.03 | 7.70 | 1.004 | 12.41 | 7.45 | 787 | 125 |
| 5 | 16.03 | 7.89 | 0.990 | 13.31 | 6.42 | 370 | 104 |
| 10 | 16.03 | 7.99 | 0.993 | 12.13 | 6.62 | 99.6 | 100 |
| 15 | 16.03 | 8.03 | 0.994 | 12.51 | 6.72 | 40.9 | 92 |
| 20 | 16.03 | 8.06 | 0.992 | 12.55 | 6.74 | 25.7 | 85 |
| 25 | 16.03 | 8.07 | 0.998 | 12.60 | 6.89 | 14.6 | 83 |
| 30 | 16.03 | 8.07 | 0.996 | 12.58 | 6.85 | 9.5 | 82 |
| 35 | 16.03 | 8.08 | 0.999 | 12.44 | 6.76 | 9.2 | 82 |
| 40 | 16.03 | 8.09 | 0.994 | 12.35 | 6.93 | 6.3 | 82 |
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**PURGE START TIME:** 14:15 **PURGE END TIME:** 14:55 **TOTAL VOLUME PURGED:** ~ 3.70 **gal**

**APPROXIMATE PURGE RATE:** 350 **ml/min** **PURGED/SAMPLED BY:** MAC

**WEATHER CONDITIONS:** Warm / Partly cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 15.50 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 41.40 ft TOR |
| **DATE:** | 7/18/14 | **FEET OF WATER IN LINE:** | 25.80 feet |
| **WELL I.D.:** | MW-9D | **VOLUME OF WATER IN LINE:** | 0.13 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 15.51 | 7.77 | 0.944 | 12.67 | 5.46 | 57.6 | 124 |
| 5 | 15.51 | 7.68 | 0.940 | 12.78 | 5.16 | 12.4 | 104 |
| 10 | 15.51 | 8.02 | 0.938 | 12.99 | 5.01 | 5.0 | 101 |
| 15 | 15.51 | 8.04 | 0.937 | 13.01 | 5.05 | 1.4 | 101 |
| 20 | 15.51 | 8.07 | 0.940 | 12.95 | 4.83 | 0.0 | 100 |
| 25 | 15.51 | 8.08 | 0.937 | 12.95 | 4.82 | 0.0 | 99 |
| 30 | 15.51 | 8.07 | 0.941 | 13.57 | 4.70 | 0.0 | 99 |
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**PURGE START TIME:** 15:30 **PURGE END TIME:** 16:00 **TOTAL VOLUME PURGED:** ~ 3.77 **gal**

**APPROXIMATE PURGE RATE:** 425 **ml/min** **PURGED/SAMPLED BY:** MAL

**WEATHER CONDITIONS:** Warm / cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 11.75 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 19.50 ft TOR |
| **DATE:** | 7/15/14 | **FEET OF WATER IN LINE:** | 7.75 feet |
| **WELL I.D.:** | MW-10S | **VOLUME OF WATER IN LINE:** | 0.04 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 11.75 | 7.67 | 0.976 | 13.46 | 5.65 | 284 | 114 |
| 5 | 11.75 | 7.76 | 0.973 | 13.40 | 5.13 | 93.1 | 104 |
| 10 | 11.75 | 7.84 | 0.972 | 13.42 | 4.84 | 24.2 | 102 |
| 15 | 11.75 | 7.85 | 0.979 | 13.41 | 4.65 | 16.0 | 100 |
| 20 | 11.75 | 7.86 | 0.979 | 13.39 | 4.71 | 9.8 | 97 |
| 25 | 11.75 | 7.86 | 0.977 | 13.55 | 4.57 | 7.1 | 97 |
| 30 | 11.75 | 7.86 | 0.979 | 13.54 | 4.40 | 6.8 | 97 |
| 35 | 11.75 | 7.84 | 0.972 | 13.73 | 4.46 | 4.2 | 98 |
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**PURGE START TIME:** 14:30 **PURGE END TIME:** 15:05 **TOTAL VOLUME PURGED:** ~ 3.01 **gal**

**APPROXIMATE PURGE RATE:** 325 **ml/min** **PURGED/SAMPLED BY:** Mac

**WEATHER CONDITIONS:** Warm / rainy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 10.57 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 28.55 ft TOR |
| **DATE:** | 7/16/14 | **FEET OF WATER IN LINE:** | 17.98 feet |
| **WELL I.D.:** | EW-35 | **VOLUME OF WATER IN LINE:** | 0.09 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 10.60 | 7.64 | 0.897 | 11.33 | 7.20 | 9.1 | 107 |
| 5 | 10.60 | 7.81 | 0.904 | 11.49 | 7.13 | 3.6 | 94 |
| 10 | 10.60 | 7.94 | 0.901 | 11.39 | 7.05 | 0.0 | 90 |
| 15 | 10.60 | 7.99 | 0.905 | 11.45 | 6.93 | 0.0 | 89 |
| 20 | 10.60 | 8.02 | 0.901 | 11.39 | 7.01 | 0.0 | 87 |
| 25 | 10.60 | 8.03 | 0.906 | 11.27 | 6.96 | 0.0 | 87 |
| 30 | 10.60 | 8.03 | 0.903 | 11.29 | 7.00 | 0.0 | 86 |
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**PURGE START TIME:** 12:50 **PURGE END TIME:** 13:20 **TOTAL VOLUME PURGED:** ~ 2.77 **gal**

**APPROXIMATE PURGE RATE:** 350 **ml/min** **PURGED/SAMPLED BY:** MAL

**WEATHER CONDITIONS:** Warm / Partly Cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 10.70 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 48.00 ft TOR |
| **DATE:** | 7/15/14 | **FEET OF WATER IN LINE:** | 37.30 feet |
| **WELL I.D.:** | CW-3D | **VOLUME OF WATER IN LINE:** | 0.19 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 10.70 | 7.32 | 0.887 | 12.41 | 6.69 | 59.7 | 120 |
| 5 | 10.70 | 7.67 | 0.914 | 11.91 | 6.77 | 19.6 | 34 |
| 10 | 10.70 | 7.84 | 0.904 | 11.64 | 6.93 | 11.5 | 36 |
| 15 | 10.70 | 7.92 | 0.905 | 11.72 | 6.74 | 7.8 | 46 |
| 20 | 10.70 | 7.95 | 0.906 | 12.17 | 6.67 | 4.3 | 55 |
| 25 | 10.70 | 8.00 | 0.895 | 12.06 | 6.55 | 2.9 | 56 |
| 30 | 10.70 | 8.00 | 0.905 | 11.81 | 6.77 | 1.2 | 60 |
| 35 | 10.70 | 8.01 | 0.901 | 11.66 | 6.77 | 4.3 | 62 |
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**PURGE START TIME:** 12:00 **PURGE END TIME:** 12:35 **TOTAL VOLUME PURGED:** ~ 3.24 gal

**APPROXIMATE PURGE RATE:** 350 ml/min **PURGED/SAMPLED BY:** _____

**WEATHER CONDITIONS:** Warm / Rainy

**COMMENTS:** _____

f52/corp

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 9.95 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 20.70 ft TOR |
| **DATE:** | 7/15/14 | **FEET OF WATER IN LINE:** | 10.75 feet |
| **WELL I.D.:** | MW-75 | **VOLUME OF WATER IN LINE:** | 0.05 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 9.96 | 7.54 | 1.304 | 14.45 | 7.09 | 14.3 | 102 |
| 5 | 9.96 | 7.61 | 1.314 | 14.55 | 7.03 | 6.2 | 100 |
| 10 | 9.96 | 7.69 | 1.317 | 14.46 | 6.82 | 0.0 | 102 |
| 15 | 9.96 | 7.71 | 1.315 | 14.40 | 6.65 | 0.0 | 103 |
| 20 | 9.96 | 7.72 | 1.324 | 14.65 | 6.56 | 0.0 | 104 |
| 25 | 9.96 | 7.72 | 1.325 | 14.64 | 6.53 | 0.0 | 104 |
| 30 | 9.96 | 7.74 | 1.322 | 14.47 | 6.77 | 0.0 | 105 |
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**PURGE START TIME:** 10:50 **PURGE END TIME:** 11:20 **TOTAL VOLUME PURGED:** ~ 3.17 **gal**

**APPROXIMATE PURGE RATE:** 400 **ml/min** **PURGED/SAMPLED BY:** Mac

**WEATHER CONDITIONS:** Warm / Rainy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 10.21 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 57.00 ft TOR |
| **DATE:** | 7/18/14 | **FEET OF WATER IN LINE:** | 46.79 feet |
| **WELL I.D.:** | MW-70 | **VOLUME OF WATER IN LINE:** | 0.23 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 10.21 | 7.06 | 1.191 | 14.20 | 6.08 | 4.4 | 93 |
| 5 | 10.21 | 7.49 | 1.183 | 13.77 | 6.06 | 2.4 | 53 |
| 10 | 10.21 | 7.60 | 1.177 | 14.00 | 5.64 | 0.0 | 72 |
| 15 | 10.21 | 7.68 | 1.187 | 13.74 | 5.75 | 0.0 | 68 |
| 20 | 10.21 | 7.72 | 1.181 | 13.97 | 5.51 | 0.0 | 65 |
| 25 | 10.21 | 7.74 | 1.185 | 13.64 | 5.70 | 0.0 | 61 |
| 30 | 10.21 | 7.74 | 1.191 | 13.95 | 5.55 | 0.0 | 58 |
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**PURGE START TIME:** 10:05 **PURGE END TIME:** 10:35 **TOTAL VOLUME PURGED:** ~ 2.77 gal

**APPROXIMATE PURGE RATE:** 350 ml/min **PURGED/SAMPLED BY:** MAL

**WEATHER CONDITIONS:** WARM / RAINY

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 7.62 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 95.00 ft TOR |
| **DATE:** | 7/15/14 | **FEET OF WATER IN LINE:** | 87.38 feet |
| **WELL I.D.:** | MW-113D | **VOLUME OF WATER IN LINE:** | 0.44 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 8.10 | 7.33 | 1.126 | 13.67 | 7.56 | 25.1 | 124 |
| 5 | 8.10 | 7.41 | 1.144 | 13.81 | 6.70 | 14.4 | 105 |
| 10 | 8.10 | 7.56 | 1.144 | 13.51 | 6.40 | 11.3 | 86 |
| 15 | 8.10 | 7.66 | 1.139 | 13.50 | 6.27 | 8.4 | 78 |
| 20 | 8.10 | 7.70 | 1.144 | 13.46 | 6.24 | 5.8 | 81 |
| 25 | 8.10 | 7.73 | 1.146 | 13.54 | 6.20 | 4.7 | 84 |
| 30 | 8.10 | 7.73 | 1.145 | 13.36 | 6.29 | 4.1 | 85 |
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**PURGE START TIME:** 9:00 **PURGE END TIME:** 9:30 **TOTAL VOLUME PURGED:** ~ 3.17 **gal**

**APPROXIMATE PURGE RATE:** 400 **ml/min** **PURGED/SAMPLED BY:** MAL

**WEATHER CONDITIONS:** Warm / Cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 22.56 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 59.00 ft TOR |
| **DATE:** | 7/15/14 | **FEET OF WATER IN LINE:** | 36.45 feet |
| **WELL I.D.:** | MW-100D | **VOLUME OF WATER IN LINE:** | 0.18 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 22.56 | 7.15 | 1.124 | 14.21 | 4.52 | 87.5 | 161 |
| 5 | 22.56 | 7.20 | 1.093 | 14.25 | 3.16 | 246 | 137 |
| 10 | 22.56 | 7.40 | 1.083 | 14.16 | 2.56 | 199 | 101 |
| 15 | 22.56 | 7.54 | 1.084 | 14.34 | 2.27 | 151 | 68 |
| 20 | 22.56 | 7.61 | 1.077 | 14.16 | 2.26 | 107 | 10 |
| 25 | 22.56 | 7.64 | 1.077 | 14.24 | 2.13 | 92.3 | 4 |
| 30 | 22.56 | 7.65 | 1.074 | 14.24 | 2.19 | 74.5 | 6 |
| 35 | 22.56 | 7.67 | 1.076 | 14.27 | 2.16 | 51.5 | 6 |
| 40 | 22.56 | 7.64 | 1.075 | 14.31 | 2.14 | 49.6 | 8 |
| 45 | 22.56 | 7.68 | 1.074 | 14.36 | 2.14 | 47.9 | 7 |
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**PURGE START TIME:** 8:00 **PURGE END TIME:** 8:45 **TOTAL VOLUME PURGED:** ~ 1.75 **gal**

**APPROXIMATE PURGE RATE:** 150 **ml/min** **PURGED/SAMPLED BY:** MC

**WEATHER CONDITIONS:** warm / cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 13.40 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 24.35 ft TOR |
| **DATE:** | 7/16/14 | **FEET OF WATER IN LINE:** | 10.95 feet |
| **WELL I.D.:** | MW-85 | **VOLUME OF WATER IN LINE:** | 0.05 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 13.42 | 7.60 | 0.954 | 13.69 | 7.10 | 38.2 | 94 |
| 5 | 13.42 | 7.80 | 1.019 | 13.35 | 6.43 | 2.2 | 84 |
| 10 | 13.42 | 7.91 | 1.016 | 13.49 | 6.07 | 0.0 | 83 |
| 15 | 13.42 | 7.99 | 1.019 | 13.35 | 6.15 | 0.0 | 83 |
| 20 | 13.42 | 8.02 | 1.020 | 13.38 | 6.17 | 0.0 | 85 |
| 25 | 13.42 | 8.02 | 1.024 | 13.27 | 6.20 | 0.0 | 86 |
| 30 | 13.42 | 8.02 | 1.022 | 13.30 | 6.16 | 0.0 | 87 |
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**PURGE START TIME:** 14:45 **PURGE END TIME:** 15:15 **TOTAL VOLUME PURGED:** ~ 3.17 **gal**

**APPROXIMATE PURGE RATE:** 400 **ml/min** **PURGED/SAMPLED BY:** MAC

**WEATHER CONDITIONS:** Warm/Sunny

**COMMENTS:** Strong Solvent odor in the air due to Recent Replacement Work at Plant.

f52/corp

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 13.15 ~~15.15~~ ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 49.00 ft TOR |
| **DATE:** | 7 / 16 / 14 | **FEET OF WATER IN LINE:** | 35.85 feet |
| **WELL I.D.:** | MW-8D | **VOLUME OF WATER IN LINE:** | 0.18 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 13.16 | 7.99 | 0.943 | 13.75 | 5.07 | 2.51 | 117 |
| 5 | 13.15 | 7.99 | 0.923 | 13.65 | 4.21 | 13.5 | 97 |
| 10 | 13.15 | 8.05 | 0.917 | 13.58 | 4.05 | 33.9 | 64 |
| 15 | 13.15 | 8.05 | 0.917 | 13.56 | 4.15 | 11.6 | 44 |
| 20 | 13.15 | 8.05 | 0.914 | 13.49 | 4.11 | 2.6 | 32 |
| 25 | 13.15 | 8.04 | 0.919 | 13.44 | 3.95 | 0.0 | 29 |
| 30 | 13.15 | 8.03 | 0.921 | 13.46 | 4.10 | 0.0 | 29 |
| 35 | 13.15 | 8.03 | 0.916 | 13.47 | 4.09 | 0.0 | 30 |
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**PURGE START TIME:** 14:00 **PURGE END TIME:** 14:35 **TOTAL VOLUME PURGED:** ~ 3.24 **gal**

**APPROXIMATE PURGE RATE:** 350 **ml/min** **PURGED/SAMPLED BY:** MLC

**WEATHER CONDITIONS:** Warm / Sunny

**COMMENTS:** Strong Solvent odor in the air due to nearby Rock Removal at Plant.

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 1/4 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 11.71 ft TOR |
| **SAMPLING DEVICE:** | Portable Bladder Pump | **DEPTH TO PUMP:** | 51.00 ft TOR |
| **DATE:** | 7/16/14 | **FEET OF WATER IN LINE:** | 39.29 feet |
| **WELL I.D.:** | MW-15D | **VOLUME OF WATER IN LINE:** | 0.09 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 11.71 | 7.62 | 1.036 | 14.51 | 7.26 | <1000 | 124 |
| 5 | 11.71 | 7.88 | 1.036 | 13.50 | 4.30 | <1000 | 122 |
| 10 | 11.71 | 7.90 | 1.039 | 13.45 | 4.13 | 860 | 121 |
| 15 | 11.71 | 7.90 | 1.042 | 13.41 | 4.25 | 539 | 121 |
| 20 | 11.71 | 7.89 | 1.045 | 13.43 | 4.47 | 268 | 120 |
| 25 | 11.71 | 7.89 | 1.045 | 13.45 | 4.49 | 204 | 120 |
| 30 | 11.71 | 7.89 | 1.046 | 13.49 | 4.56 | 127 | 119 |
| 35 | 11.71 | 7.89 | 1.050 | 13.46 | 4.61 | 98.7 | 118 |
| 40 | 11.71 | 7.88 | 1.052 | 13.62 | 4.64 | 71.7 | 117 |
| 45 | 11.71 | 7.88 | 1.054 | 13.53 | 4.70 | 52.9 | 116 |
| 50 | 11.71 | 7.88 | 1.057 | 13.52 | 4.72 | 42.7 | 115 |
| 55 | 11.71 | 7.88 | 1.058 | 13.54 | 4.72 | 40.8 | 115 |
| 60 | 11.71 | 7.88 | 1.057 | 13.54 | 4.71 | 39.1 | 115 |
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**PURGE START TIME:** 8:35 **PURGE END TIME:** 9:35 **TOTAL VOLUME PURGED:** ~ 3.17 **gal**

**APPROXIMATE PURGE RATE:** 200 **ml/min** **PURGED/SAMPLED BY:** mac

**WEATHER CONDITIONS:** Warm / Sunny

**COMMENTS:**

f52/corp

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 1/4 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 11.87 ft TOR |
| **SAMPLING DEVICE:** | Portable Bladder Pump | **DEPTH TO PUMP:** | 22.00 ft TOR |
| **DATE:** | 7/14/14 | **FEET OF WATER IN LINE:** | 10.13 feet |
| **WELL I.D.:** | MW-15S | **VOLUME OF WATER IN LINE:** | 0.02 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 11.87 | 8.05 | 1.054 | 15.04 | 7.29 | <1000 | 101 |
| 5 | 11.87 | 7.03 | 1.052 | 14.78 | 7.11 | <1000 | 103 |
| 10 | 11.87 | 7.98 | 1.056 | 14.63 | 6.98 | <1000 | 107 |
| 15 | 11.87 | 7.95 | 1.059 | 14.69 | 6.86 | <1000 | 109 |
| 20 | 11.87 | 7.93 | 1.092 | 14.71 | 6.80 | 695 | 112 |
| 25 | 11.87 | 7.92 | 1.094 | 14.76 | 6.81 | 462 | 114 |
| 30 | 11.87 | 7.91 | 1.095 | 14.86 | 6.76 | 310 | 116 |
| 35 | 11.87 | 7.90 | 1.099 | 15.02 | 6.72 | 217 | 117 |
| 40 | 11.87 | 7.90 | 1.097 | 14.92 | 6.74 | 213 | 116 |
| 45 | 11.87 | 7.90 | 1.100 | 14.86 | 6.76 | 201 | 115 |
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**PURGE START TIME:** 14:00 **PURGE END TIME:** 14:45 **TOTAL VOLUME PURGED:** ~ 2.38 **gal**

**APPROXIMATE PURGE RATE:** 200 **ml/min** **PURGED/SAMPLED BY:** MM

**WEATHER CONDITIONS:** Warm / Sunny

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 1/4 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 10.74 ft TOR |
| **SAMPLING DEVICE:** | Portable Bladder Pump | **DEPTH TO PUMP:** | 52.00 ft TOR |
| **DATE:** | 7 / 12 / 14 | **FEET OF WATER IN LINE:** | 41.26 feet |
| **WELL I.D.:** | MW-160 | **VOLUME OF WATER IN LINE:** | 0.09 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 10.74 | 8.29 | 0.972 | 16.47 | 7.33 | <1000 | 99 |
| 5 | 10.74 | 8.15 | 0.974 | 15.16 | 6.07 | <1000 | 102 |
| 10 | 10.74 | 8.07 | 0.977 | 14.84 | 5.62 | 956 | 105 |
| 15 | 10.74 | 8.02 | 0.980 | 14.93 | 5.35 | 592 | 106 |
| 20 | 10.74 | 8.00 | 0.980 | 15.00 | 5.12 | 370 | 107 |
| 25 | 10.74 | 7.98 | 0.984 | 14.88 | 5.06 | 245 | 107 |
| 30 | 10.74 | 7.97 | 0.984 | 14.97 | 4.97 | 196 | 107 |
| 35 | 10.74 | 7.97 | 0.988 | 14.97 | 4.91 | 154 | 106 |
| 40 | 10.74 | 7.96 | 0.987 | 15.09 | 4.85 | 111 | 106 |
| 45 | 10.74 | 7.95 | 0.987 | 15.06 | 4.81 | 96.5 | 105 |
| 50 | 10.74 | 7.95 | 0.986 | 15.02 | 4.79 | 92.2 | 105 |
| 55 | 10.74 | 7.95 | 0.991 | 15.04 | 4.77 | 89.2 | 105 |
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**PURGE START TIME:** 11:15 **PURGE END TIME:** 12:10 **TOTAL VOLUME PURGED:** ~ 2.91 **gal**

**APPROXIMATE PURGE RATE:** 200 **ml/min** **PURGED/SAMPLED BY:** MAC

**WEATHER CONDITIONS:** Warm / Sunny

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 1/4 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 10.44 ft TOR |
| **SAMPLING DEVICE:** | Portable Bladder Pump | **DEPTH TO PUMP:** | 22.00 ft TOR |
| **DATE:** | 7 / 16 / 14 | **FEET OF WATER IN LINE:** | 11.56 feet |
| **WELL I.D.:** | MW-16S | **VOLUME OF WATER IN LINE:** | 0.03 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 10.44 | 8.30 | 1.023 | 15.13 | 7.35 | 628 | 94 |
| 5 | 10.44 | 8.11 | 1.036 | 16.20 | 6.95 | 228 | 99 |
| 10 | 10.44 | 8.07 | 1.036 | 15.60 | 6.56 | 167 | 100 |
| 15 | 10.44 | 8.03 | 1.039 | 16.24 | 6.73 | 102 | 101 |
| 20 | 10.44 | 8.00 | 1.042 | 16.05 | 6.70 | 64.3 | 103 |
| 25 | 10.44 | 7.97 | 1.045 | 16.09 | 6.65 | 45.4 | 105 |
| 30 | 10.44 | 7.96 | 1.045 | 15.91 | 6.64 | 32.8 | 106 |
| 35 | 10.44 | 7.95 | 1.047 | 16.12 | 6.61 | 13.3 | 107 |
| 40 | 10.44 | 7.95 | 1.048 | 16.05 | 6.60 | 12.1 | 107 |
| 45 | 10.44 | 7.95 | 1.049 | 16.20 | 6.58 | 12.0 | 107 |
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**PURGE START TIME:** 12:30 **PURGE END TIME:** 13:15 **TOTAL VOLUME PURGED:** ~ 2.35 gal

**APPROXIMATE PURGE RATE:** 200 ml/min **PURGED/SAMPLED BY:** MW

**WEATHER CONDITIONS:** Warm / Sunny

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 1/4 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 13.45 ft TOR |
| **SAMPLING DEVICE:** | Portable Bladder Pump | **DEPTH TO PUMP:** | 22.00 ft TOR |
| **DATE:** | 10 / 8 / 14 | **FEET OF WATER IN LINE:** | 8.55 feet |
| **WELL I.D.:** | MW-15S | **VOLUME OF WATER IN LINE:** | 0.02 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 13.45 | 7.36 | 0.852 | 16.26 | 6.85 | >1000 | 164 |
| 5 | 13.45 | 7.33 | 0.861 | 15.22 | 5.93 | >1000 | 165 |
| 10 | 13.45 | 7.34 | 0.859 | 14.55 | 5.79 | >1000 | 165 |
| 15 | 13.45 | 7.34 | 0.862 | 14.47 | 5.72 | >1000 | 167 |
| 20 | 13.45 | 7.34 | 0.864 | 14.57 | 5.66 | 997 | 169 |
| 25 | 13.45 | 7.34 | 0.864 | 14.42 | 5.60 | 645 | 171 |
| 30 | 13.45 | 7.34 | 0.864 | 14.13 | 5.61 | 421 | 172 |
| 35 | 13.45 | 7.34 | 0.864 | 14.05 | 5.56 | 258 | 174 |
| 40 | 13.45 | 7.33 | 0.862 | 14.04 | 5.55 | 195 | 175 |
| 45 | 13.45 | 7.33 | 0.866 | 14.02 | 5.58 | 187 | 175 |
| 50 | 13.45 | 7.33 | 0.870 | 14.05 | 5.53 | 182 | 175 |
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**PURGE START TIME:** 14:30 **PURGE END TIME:** 15:40 **TOTAL VOLUME PURGED:** ~ 2.64 **gal**

**APPROXIMATE PURGE RATE:** 200 **ml/min** **PURGED/SAMPLED BY:** MAL

**WEATHER CONDITIONS:** Cool / Partly Cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 1/4 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 12.35 ft TOR |
| **SAMPLING DEVICE:** | Portable Bladder Pump | **DEPTH TO PUMP:** | 52.00 ft TOR |
| **DATE:** | 10 / 8 / 14 | **FEET OF WATER IN LINE:** | 39.65 feet |
| **WELL I.D.:** | MW-16D | **VOLUME OF WATER IN LINE:** | 0.09 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 12.37 | 7.39 | 0.776 | 16.52 | 5.06 | 135 | 143 |
| 5 | 12.37 | 7.38 | 0.782 | 15.16 | 3.50 | 72.4 | 162 |
| 10 | 12.37 | 7.38 | 0.782 | 14.76 | 3.41 | 99.6 | 162 |
| 15 | 12.37 | 7.37 | 0.783 | 14.58 | 3.62 | 102 | 162 |
| 20 | 12.37 | 7.36 | 0.787 | 14.70 | 3.74 | 73.9 | 161 |
| 25 | 12.37 | 7.36 | 0.784 | 14.62 | 3.71 | 68.1 | 161 |
| 30 | 12.37 | 7.36 | 0.788 | 14.53 | 3.71 | 51.2 | 160 |
| 35 | 12.37 | 7.36 | 0.786 | 14.35 | 3.81 | 49.5 | 161 |
| 40 | 12.37 | 7.36 | 0.785 | 14.51 | 3.79 | 51.9 | 161 |
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**PURGE START TIME:** 13:40 **PURGE END TIME:** 14:20 **TOTAL VOLUME PURGED:** ~ 2.11 **gal**

**APPROXIMATE PURGE RATE:** 200 **ml/min** **PURGED/SAMPLED BY:** MAC

**WEATHER CONDITIONS:** Warm / mostly Sunny

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 14.65 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 49.00 ft TOR |
| **DATE:** | 10 / 8 / 14 | **FEET OF WATER IN LINE:** | 34.32 feet |
| **WELL I.D.:** | MW-8D | **VOLUME OF WATER IN LINE:** | 0.17 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 14.65 | 6.57 | 0.731 | 13.09 | 5.03 | 153 | 132 |
| 5 | 14.65 | 7.32 | 0.741 | 13.03 | 4.07 | 32.1 | 76 |
| 10 | 14.65 | 7.36 | 0.741 | 13.03 | 3.86 | 17.4 | 71 |
| 15 | 14.65 | 7.36 | 0.741 | 13.04 | 3.90 | 8.6 | 72 |
| 20 | 14.65 | 7.36 | 0.742 | 13.03 | 3.70 | 6.2 | 74 |
| 25 | 14.65 | 7.36 | 0.740 | 13.05 | 3.69 | 6.1 | 76 |
| 30 | 14.65 | 7.35 | 0.740 | 13.06 | 3.65 | 6.0 | 75 |
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**PURGE START TIME:** 10:05 **PURGE END TIME:** 10:35 **TOTAL VOLUME PURGED:** ~ 3.33 **gal**

**APPROXIMATE PURGE RATE:** 425 **ml/min** **PURGED/SAMPLED BY:** MLC

**WEATHER CONDITIONS:** Cool / Partly Sunny

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 14.79 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 24.36 ft TOR |
| **DATE:** | 10 / 8 / 14 | **FEET OF WATER IN LINE:** | 9.56 feet |
| **WELL I.D.:** | MW-85 | **VOLUME OF WATER IN LINE:** | 0.05 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 14.79 | 7.02 | 0.803 | 14.04 | 6.79 | 13.6 | 132 |
| 5 | 14.79 | 7.35 | 0.807 | 14.09 | 6.40 | 1.9 | 125 |
| 10 | 14.79 | 7.36 | 0.809 | 14.15 | 6.00 | 1.7 | 129 |
| 15 | 14.79 | 7.35 | 0.808 | 14.12 | 6.30 | 1.9 | 131 |
| 20 | 14.79 | 7.35 | 0.810 | 14.29 | 5.87 | 1.2 | 132 |
| 25 | 14.79 | 7.35 | 0.810 | 14.30 | 5.82 | 0.9 | 134 |
| 30 | 14.79 | 7.35 | 0.811 | 14.24 | 6.06 | 0.6 | 136 |
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**PURGE START TIME:** 10:55 **PURGE END TIME:** 11:25 **TOTAL VOLUME PURGED:** ~ 3.1 **gal**

**APPROXIMATE PURGE RATE:** 400 **ml/min** **PURGED/SAMPLED BY:** MAC

**WEATHER CONDITIONS:** Cool / Partly Sunny

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 17.70 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 24.80 ft TOR |
| **DATE:** | 10 / 8 / 14 | **FEET OF WATER IN LINE:** | 7.10 feet |
| **WELL I.D.:** | MW-95 | **VOLUME OF WATER IN LINE:** | 0.04 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 17.76 | 6.97 | 0.772 | 12.83 | 6.22 | 982 | 171 |
| 5 | 17.76 | 7.26 | 0.772 | 12.76 | 5.30 | 671 | 141 |
| 10 | 17.76 | 7.31 | 0.772 | 12.88 | 5.40 | 143 | 93 |
| 15 | 17.76 | 7.32 | 0.766 | 12.85 | 4.76 | 26.5 | 56 |
| 20 | 17.76 | 7.33 | 0.766 | 12.88 | 4.40 | 25.5 | 55 |
| 25 | 17.76 | 7.31 | 0.765 | 12.84 | 4.35 | 25.7 | 65 |
| 30 | 17.76 | 7.31 | 0.766 | 12.89 | 4.45 | 23.6 | 53 |
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**PURGE START TIME:** 9:05 **PURGE END TIME:** 9:40 **TOTAL VOLUME PURGED:** ~2.77 **gal**

**APPROXIMATE PURGE RATE:** 350 **ml/min** **PURGED/SAMPLED BY:** MAC

**WEATHER CONDITIONS:** Cool / Partly Cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 17.49 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 41.60 ft TOR |
| **DATE:** | 10 / 8 / 14 | **FEET OF WATER IN LINE:** | 24.11 feet |
| **WELL I.D.:** | MW-9D | **VOLUME OF WATER IN LINE:** | 0.12 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 17.52 | 6.80 | 0.764 | 12.14 | 6.15 | 27.4 | 142 |
| 5 | 17.52 | 7.21 | 0.774 | 12.07 | 5.37 | 18.9 | 141 |
| 10 | 17.52 | 7.36 | 0.759 | 12.06 | 4.58 | 3.1 | 144 |
| 15 | 17.52 | 7.38 | 0.750 | 12.01 | 4.40 | 1.6 | 147 |
| 20 | 17.52 | 7.38 | 0.744 | 12.03 | 4.02 | 1.2 | 150 |
| 25 | 17.52 | 7.38 | 0.740 | 12.05 | 4.13 | 0.9 | 150 |
| 30 | 17.52 | 7.39 | 0.736 | 12.05 | 4.04 | 1.2 | 152 |
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**PURGE START TIME:** 8:20 **PURGE END TIME:** 8:50 **TOTAL VOLUME PURGED:** ~ ~~4.25~~ 3.17 **gal**

**APPROXIMATE PURGE RATE:** 400 **ml/min** **PURGED/SAMPLED BY:** MAL

**WEATHER CONDITIONS:** Cool / mostly cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 1/4 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 12.07 ft TOR |
| **SAMPLING DEVICE:** | Portable Bladder Pump | **DEPTH TO PUMP:** | 22.00 ft TOR |
| **DATE:** | 10 / 8 / 14 | **FEET OF WATER IN LINE:** | 9.93 feet |
| **WELL I.D.:** | MW-165 | **VOLUME OF WATER IN LINE:** | 0.02 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 12.07 | 7.39 | 0.825 | 15.77 | 6.51 | 490 | 158 |
| 5 | 12.07 | 7.33 | 0.845 | 14.59 | 6.12 | 416 | 156 |
| 10 | 12.07 | 7.32 | 0.856 | 15.46 | 5.98 | 242 | 157 |
| 15 | 12.07 | 7.32 | 0.852 | 15.50 | 5.85 | 180 | 158 |
| 20 | 12.07 | 7.33 | 0.853 | 14.91 | 5.89 | 131 | 159 |
| 25 | 12.07 | 7.34 | 0.856 | 15.16 | 5.83 | 96 | 160 |
| 30 | 12.07 | 7.34 | 0.855 | 14.65 | 5.79 | 72.5 | 161 |
| 35 | 12.07 | 7.34 | 0.855 | 14.76 | 5.80 | 67.8 | 161 |
| 40 | 12.07 | 7.34 | 0.860 | 15.16 | 5.77 | 44.5 | 161 |
| 45 | 12.07 | 7.34 | 0.860 | 14.53 | 5.78 | 29.4 | 161 |
| 50 | 12.07 | 7.34 | 0.860 | 14.42 | 5.77 | 31.2 | 162 |
| 55 | 12.07 | 7.34 | 0.860 | 14.29 | 5.82 | 32.1 | 162 |
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**PURGE START TIME:** 12.20 **PURGE END TIME:** 13.15 **TOTAL VOLUME PURGED:** ~ 2.91 **gal**

**APPROXIMATE PURGE RATE:** 200 **ml/min** **PURGED/SAMPLED BY:** Mac

**WEATHER CONDITIONS:** Cool / Partly Sunny

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 1/4 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 13.27 ft TOR |
| **SAMPLING DEVICE:** | Portable Bladder Pump | **DEPTH TO PUMP:** | 51.00 ft TOR |
| **DATE:** | 10 / 5 / 14 | **FEET OF WATER IN LINE:** | 37.73 feet |
| **WELL I.D.:** | MW-15D | **VOLUME OF WATER IN LINE:** | 0.09 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 13.27 | 7.40 | 0.832 | 15.93 | 4.55 | 651 | 173 |
| 5 | 13.27 | 7.36 | 0.841 | 15.15 | 3.03 | 675 | 172 |
| 10 | 13.27 | 7.35 | 0.847 | 15.27 | 3.25 | 459 | 171 |
| 15 | 13.27 | 7.34 | 0.847 | 14.75 | 3.53 | 330 | 170 |
| 20 | 13.27 | 7.34 | 0.851 | 14.92 | 3.74 | 195 | 170 |
| 25 | 13.27 | 7.34 | 0.852 | 15.12 | 3.75 | 176 | 170 |
| 30 | 13.27 | 7.34 | 0.851 | 14.52 | 3.56 | 127 | 170 |
| 35 | 13.27 | 7.33 | 0.856 | 14.69 | 3.97 | 87 | 169 |
| 40 | 13.27 | 7.33 | 0.849 | 14.75 | 3.92 | 85 | 169 |
| 45 | 13.27 | 7.33 | 0.851 | 14.99 | 3.96 | 93 | 169 |
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**PURGE START TIME:** 14:00 **PURGE END TIME:** 14:45 **TOTAL VOLUME PURGED:** ~ 2.35 **gal**

**APPROXIMATE PURGE RATE:** 200 **ml/min** **PURGED/SAMPLED BY:** MAC

**WEATHER CONDITIONS:** Cool / Partly Cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 9.40 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 95.50 ft TOR |
| **DATE:** | 10/7/14 | **FEET OF WATER IN LINE:** | 86.10 feet |
| **WELL I.D.:** | MW-113D | **VOLUME OF WATER IN LINE:** | 0.43 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 9.40 | 6.70 | 1.302 | 13.80 | 7.06 | 8.1 | 140 |
| 5 | 9.40 | 6.86 | 1.244 | 13.74 | 6.75 | 9.8 | 143 |
| 10 | 9.40 | 7.01 | 1.183 | 13.94 | 6.35 | 10.7 | 142 |
| 15 | 9.40 | 7.03 | 1.169 | 14.04 | 6.26 | 8.6 | 142 |
| 20 | 9.40 | 7.04 | 1.120 | 14.25 | 5.97 | 6.0 | 133 |
| 25 | 9.40 | 7.04 | 1.115 | 14.30 | 5.94 | 5.8 | 131 |
| 30 | 9.40 | 7.05 | 1.115 | 14.09 | 5.91 | 5.3 | 126 |
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**PURGE START TIME:** 13:10 **PURGE END TIME:** 13:40 **TOTAL VOLUME PURGED:** ~ 2.3 **gal**

**APPROXIMATE PURGE RATE:** 300 **ml/min** **PURGED/SAMPLED BY:** MAL

**WEATHER CONDITIONS:** Cool / Partly Cloudy

**COMMENTS:**

f52/corp

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 12.06 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 48.00 ~~12.06~~ ft TOR |
| **DATE:** | 10 / 21 / 14 | **FEET OF WATER IN LINE:** | 35.94 feet |
| **WELL I.D.:** | CW-30 | **VOLUME OF WATER IN LINE:** | 0.18 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 12.11 | 6.20 | 0.841 | 12.74 | 5.93 | 126 | 154 |
| 5 | 12.11 | 7.07 | 0.815 | 12.61 | 5.53 | 94.3 | 34 |
| 10 | 12.11 | 7.20 | 0.804 | 12.51 | 5.67 | 16.0 | 42 |
| 15 | 12.11 | 7.23 | 0.790 | 12.55 | 5.54 | 14.3 | 57 |
| 20 | 12.11 | 7.25 | 0.780 | 12.52 | 5.57 | 5.7 | 73 |
| 25 | 12.11 | 7.26 | 0.775 | 12.58 | 5.48 | 2.5 | 78 |
| 30 | 12.11 | 7.27 | 0.770 | 12.65 | 5.32 | 2.0 | 82 |
| 35 | 12.11 | 7.26 | 0.769 | 12.41 | 5.27 | 1.6 | 84 |
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**PURGE START TIME:** 14:05 **PURGE END TIME:** 14:40 **TOTAL VOLUME PURGED:** ~ 3.47 **gal**

**APPROXIMATE PURGE RATE:** 375 **ml/min** **PURGED/SAMPLED BY:** MAC

**WEATHER CONDITIONS:** Cool / cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 11.98 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 28.55 ft TOR |
| **DATE:** | 10/7/14 | **FEET OF WATER IN LINE:** | 16.57 feet |
| **WELL I.D.:** | CW-35 | **VOLUME OF WATER IN LINE:** | 0.08 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 11.98 | 6.82 | 0.767 | 12.87 | 6.50 | 7.5 | 122 |
| 5 | 11.98 | 7.20 | 0.760 | 12.77 | 6.15 | 7.2 | 115 |
| 10 | 11.98 | 7.23 | 0.750 | 12.78 | 5.99 | 6.9 | 118 |
| 15 | 11.98 | 7.23 | 0.752 | 12.79 | 5.69 | 6.9 | 116 |
| 20 | 11.98 | 7.22 | 0.742 | 12.75 | 5.56 | 7.3 | 119 |
| 25 | 11.98 | 7.22 | 0.740 | 12.74 | 5.47 | 7.0 | 119 |
| 30 | 11.98 | 7.22 | 0.742 | 12.66 | 5.54 | 6.7 | 119 |
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**PURGE START TIME:** 14:45 **PURGE END TIME:** 15:15 **TOTAL VOLUME PURGED:** ~ 3.17 **gal**

**APPROXIMATE PURGE RATE:** 400 **ml/min** **PURGED/SAMPLED BY:** mac

**WEATHER CONDITIONS:** Warm / Partly Sunny

**COMMENTS:**

f52/corp

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 13.42 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 19.50 ft TOR |
| **DATE:** | 10 / 7 / 14 | **FEET OF WATER IN LINE:** | 6.08 feet |
| **WELL I.D.:** | MW-105 | **VOLUME OF WATER IN LINE:** | 0.03 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 13.42 | 6.91 | 0.769 | 14.37 | 5.14 | 185 | 136 |
| 5 | 13.42 | 6.97 | 0.767 | 14.40 | 4.75 | 45.1 | 131 |
| 10 | 13.42 | 6.99 | 0.766 | 14.38 | 4.77 | 14.7 | 130 |
| 15 | 13.42 | 6.99 | 0.760 | 14.44 | 4.42 | 9.9 | 131 |
| 20 | 13.42 | 6.99 | 0.761 | 14.56 | 4.45 | 7.7 | 132 |
| 25 | 13.42 | 6.99 | 0.756 | 14.38 | 4.60 | 6.4 | 132 |
| 30 | 13.42 | 6.99 | 0.754 | 14.38 | 4.56 | 6.0 | 131 |
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**PURGE START TIME:** 15.40 **PURGE END TIME:** 16.10 **TOTAL VOLUME PURGED:** ~2.77 gal

**APPROXIMATE PURGE RATE:** 350 ml/min **PURGED/SAMPLED BY:** MAC

**WEATHER CONDITIONS:** Warm / Partly Cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 11.30 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 20.70 ft TOR |
| **DATE:** | 10 / 7 / 14 | **FEET OF WATER IN LINE:** | 9.40 feet |
| **WELL I.D.:** | MW-7S | **VOLUME OF WATER IN LINE:** | 0.05 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 11.30 | 6.74 | 0.859 | 13.70 | 5.50 | 7.6 | 151 |
| 5 | 11.30 | 7.10 | 0.878 | 13.47 | 5.77 | 1.9 | 147 |
| 10 | 11.30 | 7.11 | 0.878 | 13.45 | 5.55 | 0.5 | 145 |
| 15 | 11.30 | 7.11 | 0.880 | 13.55 | 5.30 | 0.5 | 149 |
| 20 | 11.30 | 7.11 | 0.880 | 13.50 | 5.37 | 0.6 | 149 |
| 25 | 11.30 | 7.10 | 0.880 | 13.44 | 5.54 | 0.0 | 149 |
| 30 | 11.30 | 7.10 | 0.883 | 13.44 | 5.60 | 0.0 | 145 |
| 35 | 11.30 | 7.11 | 0.882 | 13.46 | 5.56 | 0.0 | 149 |
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**PURGE START TIME:** 16:40 **PURGE END TIME:** 17:15 **TOTAL VOLUME PURGED:** ~ 3.70 **gal**

**APPROXIMATE PURGE RATE:** 400 **ml/min** **PURGED/SAMPLED BY:** MAC

**WEATHER CONDITIONS:** Warm / Partly Cloudy

**COMMENTS:**

CUMMINGS RITER CONSULTANTS, INC.

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **SITE:** | CBS–Horseheads, NY | **TUBING DIAMETER:** | 3/8 inches |
| **PROJECT NO.:** | 96206 | **DEPTH TO WATER:** | 11.55 ft TOR |
| **SAMPLING DEVICE:** | Dedicated Bladder Pump | **DEPTH TO PUMP:** | 57.00 ft TOR |
| **DATE:** | 10 / 7 / 14 | **FEET OF WATER IN LINE:** | 45.45 feet |
| **WELL I.D.:** | MW-7D | **VOLUME OF WATER IN LINE:** | 0.23 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| ELAPSED TIME (min) | DEPTH TO WATER (ft TOR) | pH (s.u.) | SPECIFIC CONDUCTANCE (mS/cm) | TEMPER-ATURE (°C) | DISSOLVED OXYGEN (ppm) | TURBIDITY (NTU) | REDOX (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 11.55 | 5.94 | 0.593 | ~~13.49~~ 13.42 | 4.65 | 1.5 | 178 |
| 5 | 11.55 | 6.75 | 0.878 | 13.29 | 4.90 | 6.1 | 149 |
| 10 | 11.55 | 7.01 | 0.870 | 13.33 | 4.83 | 1.9 | 105 |
| 15 | 11.55 | 7.05 | 0.870 | 13.22 | 4.85 | 2.0 | 86 |
| 20 | 11.55 | 7.06 | 0.871 | 13.20 | 4.82 | 1.0 | 77 |
| 25 | 11.55 | 7.06 | 0.869 | 13.37 | 4.78 | 1.6 | 68 |
| 30 | 11.55 | 7.06 | 0.873 | 13.15 | 4.68 | 1.7 | 66 |
| 35 | 11.55 | 7.06 | 0.872 | 13.24 | 4.82 | 1.8 | 65 |
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**PURGE START TIME:** 17:25 **PURGE END TIME:** 18:00 **TOTAL VOLUME PURGED:** ~ 3.47 gal

**APPROXIMATE PURGE RATE:** 375 ml/min **PURGED/SAMPLED BY:** MAL

**WEATHER CONDITIONS:** Cool / Partly Cloudy

**COMMENTS:**

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 15.90 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 49.00 ft TOR |
| **Date:** | 1/22/15 | **Feet of Water in Line:** | 33.10 feet |
| **Well I.D.:** | MW-8D | **Volume of Water in Line:** | 0.17 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 15.90 | 8.21 | 1.158 | 11.47 | 5.05 | 361 | 160 |
| 5 | 15.90 | 8.13 | 1.176 | 12.09 | 4.32 | 220 | 144 |
| 10 | 15.90 | 8.15 | 1.169 | 12.11 | 3.87 | 75.1 | 128 |
| 15 | 15.90 | 8.20 | 1.169 | 11.86 | 3.93 | 33.2 | 120 |
| 20 | 15.90 | 8.20 | 1.174 | 11.94 | 3.89 | 12.1 | 110 |
| 25 | 15.90 | 8.15 | 1.169 | 11.83 | 3.78 | 7.8 | 105 |
| 30 | 15.90 | 8.19 | 1.150 | 11.80 | 3.86 | 7.6 | 102 |
| 35 | 15.90 | 8.17 | 1.166 | 11.25 | 3.77 | 6.6 | 100 |
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Purge Start Time: 8:20 Purge End Time: 8:55 Total Volume Purged: ~ 4.62 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / cloudy

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 15.90 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 24.35 ft TOR |
| **Date:** | 1/22/15 | **Feet of Water in Line:** | 8.45 feet |
| **Well I.D.:** | MW-85 | **Volume of Water in Line:** | 0.04 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 15.90 | 7.94 | 1.247 | 11.12 | 8.06 | 30.5 | 127 |
| 5 | 15.90 | 8.01 | 1.275 | 11.11 | 7.41 | 14.4 | 116 |
| 10 | 15.90 | 8.13 | 1.253 | 11.67 | 7.16 | 4.7 | 115 |
| 15 | 15.90 | 8.20 | 1.272 | 10.75 | 7.13 | 2.7 | 116 |
| 20 | 15.90 | 8.22 | 1.273 | 11.77 | 7.10 | 1.3 | 116 |
| 25 | 15.90 | 8.24 | 1.282 | 11.64 | 6.96 | 1.0 | 120 |
| 30 | 15.90 | 8.25 | 1.274 | 11.80 | 6.84 | 0.5 | 121 |
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Purge Start Time: 9:15 Purge End Time: 9:45 Total Volume Purged: ~3.57 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / Cloudy

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.40 ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 51.00 ft TOR |
| **Date:** | 1/21/15 | **Feet of Water in Line:** | 36.60 feet |
| **Well I.D.:** | MW-15D | **Volume of Water in Line:** | 0.08 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 14.40 | F 51 | 1.299 | 7.47 | 6.52 | 426 | 117 |
| 5 | 14.40 | F 40 | 1.293 | 9.36 | 4.75 | 632 | 123 |
| 10 | 14.40 | F 32 | 1.297 | 9.57 | 4.30 | 531 | 127 |
| 15 | 14.40 | F 23 | 1.296 | 10.29 | 4.21 | 340 | 130 |
| 20 | 14.40 | F 23 | 1.305 | 9.41 | 4.30 | 203 | 132 |
| 25 | 14.40 | F 17 | 1.297 | 10.48 | 4.15 | 190 | 133 |
| 30 | 14.40 | F 15 | 1.300 | 10.46 | 4.25 | 127 | 134 |
| 35 | 14.40 | F 14 | 1.302 | 10.30 | 4.30 | 132 | 135 |
| 40 | 14.40 | F 13 | 1.304 | 10.41 | 4.33 | 121 | 135 |
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Purge Start Time: 16:00 Purge End Time: 16.40 Total Volume Purged: ~ 2.11 gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold/Snowy/Cloudy

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 inches |
| Project No.: | 96206 | Depth to Water: | 12.94 ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 48.00 ft TOR |
| Date: | 1/20/15 | Feet of Water in Line: | 35.06 feet |
| Well I.D.: | EW-30 | Volume of Water in Line: | 0.15 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 12.94 | 6.59 | 0.932 | 11.23 | 6.64 | 217 | 141 |
| 5 | 12.94 | 6.28 | 0.940 | 11.60 | 6.67 | 36.2 | 59 |
| 10 | 12.94 | 6.27 | 0.939 | 11.96 | 6.15 | 0.0 | 13 |
| 15 | 12.94 | 6.27 | 0.936 | 11.93 | 6.79 | 0.0 | 24 |
| 20 | 12.94 | 6.27 | 0.940 | 12.00 | 6.76 | 0.0 | 23 |
| 25 | 12.94 | 6.26 | 0.940 | 11.87 | 6.71 | 0.0 | 37 |
| 30 | 12.94 | 6.27 | 0.948 | 11.42 | 6.69 | 0.0 | 44 |
| 35 | 12.94 | 6.26 | 0.944 | 11.55 | 6.62 | 0.0 | 49 |
| 40 | 12.94 | 6.26 | 0.940 | 11.65 | 6.56 | 0.0 | 54 |
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Purge Start Time: 13:55 Purge End Time: 14:35 Total Volume Purged: ~ 5.02 gal

Approximate Purge Rate: 475 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / Snowy

Comments: _____

_____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 12.84 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 28.55 | ft TOR |
| **Date:** | 1/20/16 | **Feet of Water in Line:** | 15.71 | feet |
| **Well I.D.:** | CW-35 | **Volume of Water in Line:** | 0.08 | gallons |
| | | **(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)** | | |

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 12.84 | 6.03 | 0.947 | 11.11 | 7.83 | 0.0 | 103 |
| 5 | 12.84 | 6.05 | 0.946 | 11.83 | 7.71 | 0.0 | 96 |
| 10 | 12.84 | 6.18 | 0.951 | 11.87 | 7.51 | 0.0 | 95 |
| 15 | 12.84 | 6.20 | 0.948 | 11.90 | 7.30 | 0.0 | 94 |
| 20 | 12.84 | 6.22 | 0.948 | 11.91 | 7.49 | 0.0 | 95 |
| 25 | 12.84 | 6.22 | 0.951 | 11.90 | 7.40 | 0.0 | 95 |
| 30 | 12.84 | 6.23 | 0.945 | 11.92 | 7.43 | 0.0 | 95 |
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Purge Start Time: 14:50 Purge End Time: 15:20 Total Volume Purged: ~ 3.96 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / Cloudy

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 | inches |
| Project No.: | 96206 | Depth to Water: | 12.30 | ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 20.70 | ft TOR |
| Date: | 1/20/16 | Feet of Water in Line: | 8.40 | feet |
| Well I.D.: | MW-7S | Volume of Water in Line: | 0.04 | gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 12.30 | 5.95 | 1.219 | 11.52 | 8.43 | 22.7 | 127 |
| 5 | 12.30 | 5.99 | 1.221 | 11.79 | 7.77 | 16.4 | 115 |
| 10 | 12.30 | 6.11 | 1.218 | 12.03 | 7.94 | 0.0 | 115 |
| 15 | 12.30 | 6.14 | 1.230 | 11.84 | 7.76 | 0.0 | 119 |
| 20 | 12.30 | 6.14 | 1.248 | 11.84 | 7.52 | 0.0 | 121 |
| 25 | 12.30 | 6.15 | 1.249 | 11.93 | 7.57 | 0.0 | 123 |
| 30 | 12.30 | 6.16 | 1.250 | 11.96 | 7.63 | 0.0 | 123 |
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Purge Start Time: 15:45 Purge End Time: 16:15 Total Volume Purged: ~ 3.76 gal

Approximate Purge Rate: 475 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / cloudy

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 12.60 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 57.00 ft TOR |
| **Date:** | 1/20/15 | **Feet of Water in Line:** | 44.40 feet |
| **Well I.D.:** | MW-7D | **Volume of Water in Line:** | 0.22 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 12.60 | 5.63 | 1.299 | 10.99 | 6.00 | 11.7 | 153 |
| 5 | 12.60 | 5.66 | 1.294 | 11.53 | 6.47 | 15.9 | 120 |
| 10 | 12.60 | 5.92 | 1.284 | 11.16 | 6.03 | 0.0 | 50 |
| 15 | 12.60 | 6.02 | 1.273 | 11.45 | 6.06 | 0.0 | 23 |
| 20 | 12.60 | 6.06 | 1.254 | 11.26 | 6.05 | 0.0 | 13 |
| 25 | 12.60 | 6.09 | 1.266 | 10.65 | 6.01 | 0.0 | 9 |
| 30 | 12.60 | 6.10 | 1.261 | 11.30 | 5.95 | 0.0 | F |
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Purge Start Time: 16:35 Purge End Time: 17:05 Total Volume Purged: ~ 3.57 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / snowy

Comments: _____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 | inches |
| Project No.: | 96206 | Depth to Water: | 15.60 | ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 41.60 | ft TOR |
| Date: | 1/21/15 | Feet of Water in Line: | 23.00 | feet |
| Well I.D.: | MW-90 | Volume of Water in Line: | 0.12 | gallons |
| | | (0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing) | | |

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 15.60 | 8.04 | 1.109 | 11.53 | 7.03 | 36.7 | 136 |
| 5 | 15.60 | 8.05 | 1.106 | 11.70 | 5.35 | 20.6 | 127 |
| 10 | 15.60 | 8.15 | 1.103 | 11.89 | 5.33 | 4.8 | 124 |
| 15 | 15.60 | 8.18 | 1.105 | 11.97 | 6.51 | 3.2 | 124 |
| 20 | 15.60 | 8.19 | 1.096 | 11.22 | 5.99 | 3.2 | 124 |
| 25 | 15.60 | 8.19 | 1.095 | 11.95 | 5.54 | 1.9 | 124 |
| 30 | 15.60 | 8.19 | 1.104 | 12.01 | 5.90 | 1.6 | 125 |
| 35 | 15.60 | 8.19 | 1.109 | 11.85 | 5.82 | 1.4 | 126 |
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Purge Start Time: 10:30 Purge End Time: 11:05 Total Volume Purged: ~ 4.14 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / Cloudy

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/4 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.50 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 19.50 ft TOR |
| **Date:** | 1/21/15 | **Feet of Water in Line:** | 5.00 feet |
| **Well I.D.:** | MW-105 | **Volume of Water in Line:** | 0.03 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 14.50 | 8.28 | 1.076 | 9.46 | 7.94 | 959 | 113 |
| 5 | 14.50 | 8.19 | 1.075 | 9.67 | 6.22 | 76.0 | 109 |
| 10 | 14.50 | 8.17 | 1.081 | 10.05 | 6.11 | 24.2 | 111 |
| 15 | 14.50 | 8.17 | 1.075 | 9.81 | 6.03 | 15.8 | 113 |
| 20 | 14.50 | 8.14 | 1.082 | 9.82 | 6.05 | 12.2 | 115 |
| 25 | 14.50 | 8.14 | 1.076 | 10.44 | 6.03 | 9.1 | 117 |
| 30 | 14.50 | 8.12 | 1.073 | 9.74 | 5.99 | 8.9 | 115 |
| 35 | 14.50 | 8.12 | 1.073 | 10.42 | 6.15 | 8.1 | 119 |
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Purge Start Time: 9:30 Purge End Time: 10:05 Total Volume Purged: ~ 3.70 gal

Approximate Purge Rate: 400 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / cloudy

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 inches |
| Project No.: | 96206 | Depth to Water: | 10.15 ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 95.50 ft TOR |
| Date: | 1 / 3~~1~~ / 15 | Feet of Water in Line: | 85.35 feet |
| Well I.D.: | MW-113D | Volume of Water in Line: | 0.43 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 10.15 | 8.05 | 1.261 | 10.99 | 7.11 | 14.8 | 183 |
| 5 | 10.15 | 7.93 | 1.255 | 11.18 | 6.82 | 11.6 | 160 |
| 10 | 10.15 | 7.97 | 1.272 | 11.04 | 6.82 | 9.7 | 135 |
| 15 | 10.15 | 7.99 | 1.273 | 11.03 | 6.69 | 8.9 | 120 |
| 20 | 10.15 | 8.01 | 1.275 | 10.87 | 6.35 | 8.5 | 90 |
| 25 | 10.15 | 8.02 | 1.262 | 10.89 | 6.66 | 8.2 | 83 |
| 30 | 10.15 | 8.02 | 1.278 | 10.84 | 6.04 | 8.8 | 80 |
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Purge Start Time: 8:35 Purge End Time: 9:05 Total Volume Purged: ~ 3.57 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / Partly Cloudy

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.56 ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 22.00 ft TOR |
| **Date:** | 1/21/15 | **Feet of Water in Line:** | 7.44 feet |
| **Well I.D.:** | MW-15S | **Volume of Water in Line:** | 0.02 gallons |
| | | (0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing) | |

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 14.56 | 5.56 | 1.311 | 8.44 | 9.47 | >1000 | 121 |
| 5 | 14.56 | 5.48 | 1.294 | 9.65 | 7.50 | >1000 | 125 |
| 10 | 14.56 | 5.30 | 1.298 | 10.50 | 6.06 | >1000 | 129 |
| 15 | 14.56 | 5.25 | 1.306 | 10.59 | 5.84 | >1000 | 131 |
| 20 | 14.56 | 5.20 | 1.310 | 10.53 | 5.75 | >1000 | 132 |
| 25 | 14.56 | 5.19 | 1.313 | 10.69 | 5.70 | 642 | 134 |
| 30 | 14.56 | 5.16 | 1.312 | 10.96 | 5.66 | 524 | 135 |
| 35 | 14.56 | 5.15 | 1.309 | 11.07 | 5.65 | 321 | 136 |
| 40 | 14.56 | 5.14 | 1.314 | 11.06 | 5.66 | 317 | 137 |
| 45 | 14.56 | 5.13 | 1.315 | 11.04 | 5.65 | 308 | 138 |
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Purge Start Time: 15:00 Purge End Time: 15:45 Total Volume Purged: ~ 238 gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: MAL

Weather Conditions: Cool / cloudy

Comments: _____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 1/4 | inches |
| Project No.: | 96206 | Depth to Water: | 13.48 | ft TOR |
| Sampling Device: | Portable Bladder Pump | Depth to Pump: | 52.00 | ft TOR |
| Date: | 1/21/16 | Feet of Water in Line: | 38.60 | feet |
| Well I.D.: | MW-160 | Volume of Water in Line: | 0.09 | gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 13.40 | 6.46 | 1.147 | 9.31 | 7.56 | 725 | 125 |
| 5 | 13.40 | 6.27 | 1.142 | 10.95 | 3.36 | 549 | 129 |
| 10 | 13.40 | 6.23 | 1.147 | 10.57 | 3.32 | 400 | 129 |
| 15 | 13.40 | 6.20 | 1.192 | 10.55 | 3.47 | 266 | 126 |
| 20 | 13.40 | 6.19 | 1.199 | 10.50 | 3.57 | 195 | 127 |
| 25 | 13.40 | 6.16 | 1.145 | 10.64 | 3.65 | 119 | 127 |
| 30 | 13.40 | 6.17 | 1.159 | 10.52 | 3.68 | 113 | 126 |
| 35 | 13.40 | 6.17 | 1.196 | 10.55 | 3.66 | 114 | 126 |
| 40 | 13.40 | 6.16 | 1.198 | 10.70 | 3.58 | 105 | 125 |
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Purge Start Time: 13:55 Purge End Time: 14:35 Total Volume Purged: ~2.11 gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / Clear

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | ¼ inches |
| Project No.: | 96206 | Depth to Water: | 13.20 ft TOR |
| Sampling Device: | Portable Bladder Pump | Depth to Pump: | 22.00 ft TOR |
| Date: | 1/21/15 | Feet of Water in Line: | 8.80 feet |
| Well I.D.: | MW-16S | Volume of Water in Line: | 0.02 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 13.20 | 8.60 | 1.260 | 8.34 | 8.57 | >1000 | 113 |
| 5 | 13.20 | 8.45 | 1.266 | 9.80 | 6.98 | >1000 | 119 |
| 10 | 13.20 | 8.30 | 1.271 | 10.83 | 6.04 | >1000 | 125 |
| 15 | 13.20 | 8.23 | 1.275 | 10.99 | 5.86 | 824 | 127 |
| 20 | 13.20 | 8.20 | 1.277 | 10.88 | 5.83 | 509 | 126 |
| 25 | 13.20 | 8.16 | 1.289 | 11.12 | 5.76 | 246 | 130 |
| 30 | 13.20 | 8.17 | 1.287 | 11.00 | 5.78 | 189 | 131 |
| 35 | 13.20 | 8.16 | 1.289 | 11.10 | 5.73 | 175 | 131 |
| 40 | 13.20 | 8.15 | 1.292 | 10.99 | 5.74 | 167 | 131 |
| 45 | 13.20 | 8.14 | 1.295 | 11.18 | 5.73 | 160 | 132 |
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Purge Start Time: 12:45 Purge End Time: 13:30 Total Volume Purged: ~ 2.38 gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / Cloudy

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 inches |
| Project No.: | 96206 | Depth to Water: | 15.52 ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 24.80 ft TOR |
| Date: | 1/21/15 | Feet of Water in Line: | 5.94 feet |
| Well I.D.: | MW-95 | Volume of Water in Line: | 0.03 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 15.52 | 7.92 | 1.129 | 10.76 | 7.57 | >1000 | 135 |
| 5 | 15.52 | 7.95 | 1.125 | 11.33 | 7.04 | >1000 | 132 |
| 10 | 15.52 | 8.03 | 1.125 | 12.45 | 6.44 | >1000 | 130 |
| 15 | 15.52 | 8.05 | 1.130 | 12.56 | 5.97 | 721 | 130 |
| 20 | 15.52 | 8.07 | 1.134 | 12.46 | 5.56 | 295 | 129 |
| 25 | 15.52 | 8.09 | 1.140 | 12.59 | 6.15 | 142 | 129 |
| 30 | 15.52 | 8.07 | 1.139 | 12.54 | 6.45 | 0.0 | 125 |
| 35 | 15.52 | 8.07 | 1.152 | 12.60 | 6.32 | 0.0 | 127 |
| 40 | 15.52 | 8.05 | 1.153 | 12.60 | 6.63 | 0.0 | 126 |
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Purge Start Time: 11:25 Purge End Time: 12:05 Total Volume Purged: ~ 2.64 gal

Approximate Purge Rate: 250 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / Cloudy

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 inches |
| Project No.: | 96206 | Depth to Water: | 14.51 ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 49.00 ft TOR |
| Date: | 4 / 9 / 15 | Feet of Water in Line: | 34.49 feet |
| Well I.D.: | MW-50 | Volume of Water in Line: | 0.17 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 14.51 | 6.45 | 1.105 | 11.56 | 5.46 | 310 | 146 |
| 5 | 14.51 | 6.94 | 1.096 | 12.12 | 3.55 | 336 | 110 |
| 10 | 14.51 | 7.22 | 1.102 | 12.21 | 3.48 | 60.5 | 84 |
| 15 | 14.51 | 7.24 | 1.104 | 12.15 | 3.68 | 9.1 | 72 |
| 20 | 14.51 | 7.22 | 1.103 | 12.19 | 3.73 | 0.0 | <5 |
| 25 | 14.51 | 7.23 | 1.105 | 12.07 | 3.62 | 0.0 | <3 |
| 30 | 14.51 | 7.23 | 1.105 | 12.16 | 3.74 | 0.0 | <3 |
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Purge Start Time: 7:45 Purge End Time: 8:15 Total Volume Purged: ~ 3.57 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By: MAL

Weather Conditions: Cool / Cloudy

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/4 inches |
| Project No.: | 96206 | Depth to Water: | 14.60 ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 24.35 ft TOR |
| Date: | 4 / 9 / 15 | Feet of Water in Line: | 9.75' feet |
| Well I.D.: | MW-8S | Volume of Water in Line: | 0.05 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 14.60 | 6.56 | 1.243 | 11.02 | 7.10 | 18.9 | 120 |
| 5 | 14.60 | 7.25 | 1.235 | 11.19 | 6.91 | 0.0 | 99 |
| 10 | 14.60 | 7.29 | 1.237 | 11.05 | 6.77 | 0.0 | 102 |
| 15 | 14.60 | 7.29 | 1.239 | 11.27 | 6.95 | 0.0 | 105 |
| 20 | 14.60 | 7.29 | 1.237 | 10.97 | 6.84 | 0.0 | 106 |
| 25 | 14.60 | 7.30 | 1.242 | 11.19 | 6.91 | 0.0 | 109 |
| 30 | 14.60 | 7.25 | 1.241 | 11.25 | 6.92 | 0.0 | 111 |
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Purge Start Time: 8:30 Purge End Time: 9:00 Total Volume Purged: ~ 3.17 gal

Approximate Purge Rate: 400 ml/min Purged/Sampled By: MAL

Weather Conditions: Cool / cloudy

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 | inches |
| Project No.: | 96206 | Depth to Water: | 9.20 | ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 95.50 | ft TOR |
| Date: | 4 / 8 / 15 | Feet of Water in Line: | 86.30 | feet |
| Well I.D.: | MW-113D | Volume of Water in Line: | 0.43 | gallons |
| | | (0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing) | | |

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 9.21 | 6.45 | 1.450 | 11.32 | 6.14 | 52.7 | 171 |
| 5 | 9.21 | 7.15 | 1.450 | 11.54 | 5.61 | 29.9 | 154 |
| 10 | 9.21 | 7.17 | 1.430 | 11.22 | 5.23 | 52.3 | 137 |
| 15 | 9.21 | 7.16 | 1.436 | 11.33 | 4.99 | 24.2 | 125 |
| 20 | 9.21 | 7.16 | 1.442 | 11.52 | 4.89 | 7.2 | 109 |
| 25 | 9.21 | 7.15 | 1.442 | 11.10 | 4.91 | 3.9 | 105 |
| 30 | 9.21 | 7.15 | 1.447 | 11.84 | 5.21 | 6.0 | 102 |
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Purge Start Time: 5:10 Purge End Time: 5:40 Total Volume Purged: ~ 3.76 gal

Approximate Purge Rate: 425 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / rain

Comments: _____

_____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 inches |
| Project No.: | 96206 | Depth to Water: | 17.30 ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 41.60 ft TOR |
| Date: | 4/8/15 | Feet of Water in Line: | 24.30 feet |
| Well I.D.: | MW-9D | Volume of Water in Line: | 0.12 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 17.30 | 6.82 | 1.114 | 11.52 | 5.41 | 31.3 | 120 |
| 5 | 17.30 | 7.15 | 1.111 | 11.62 | 6.02 | 21.6 | 115 |
| 10 | 17.30 | 7.29 | 1.111 | 11.82 | 5.35 | 0.0 | 112 |
| 15 | 17.30 | 7.29 | 1.110 | 11.65 | 5.42 | 0.0 | 114 |
| 20 | 17.30 | 7.29 | 1.109 | 11.85 | 5.14 | 0.0 | 117 |
| 25 | 17.30 | 7.28 | 1.109 | 11.79 | 5.05 | 0.0 | 116 |
| 30 | 17.30 | 7.26 | 1.110 | 11.87 | 5.35 | 0.0 | 120 |
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Purge Start Time: 9:20 Purge End Time: 9:50 Total Volume Purged: ~ 3.57 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By: MAL

Weather Conditions: Cool / Steady Rain

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 inches |
| Project No.: | 96206 | Depth to Water: | 17.47 ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 24.50 ft TOR |
| Date: | 4/8/15 | Feet of Water in Line: | 7.33 feet |
| Well I.D.: | MW-95 | Volume of Water in Line: | 0.04 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 17.50 | 6.71 | 2.53 | 10.71 | 7.47 | 402 | 146 |
| 5 | 17.50 | 7.07 | 2.32 | 10.83 | 7.59 | >745 | 131 |
| 10 | 17.50 | 7.23 | 2.16 | 10.90 | 7.10 | 189 | 125 |
| 15 | 17.50 | 7.23 | 2.14 | 10.92 | 6.90 | 75.4 | 123 |
| 20 | 17.50 | 7.23 | 2.11 | 10.96 | 6.74 | 40.6 | 123 |
| 25 | 17.50 | 7.23 | 2.12 | 10.97 | 6.80 | 22.5 | 123 |
| 30 | 17.50 | 7.24 | 2.10 | 10.96 | 6.87 | 5.4 | 123 |
| 35 | 17.50 | 7.23 | 2.09 | 10.99 | 6.96 | 0.0 | 124 |
| 40 | 17.50 | 7.23 | 2.08 | 10.92 | 7.07 | 0.0 | 123 |
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Purge Start Time: 10:05 Purge End Time: 10:45 Total Volume Purged: ~ 3.70 gal

Approximate Purge Rate: 350 ml/min Purged/Sampled By: MAL

Weather Conditions: Cool / rainy

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 1/4 inches |
| Project No.: | 96206 | Depth to Water: | 11.95 ft TOR |
| Sampling Device: | Portable Bladder Pump | Depth to Pump: | 22.00 ft TOR |
| Date: | 4/8/15 | Feet of Water in Line: | 10.05 feet |
| Well I.D.: | MW-16S | Volume of Water in Line: | 0.02 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 11.95 | 7.42 | 1.326 | 9.77 | 7.24 | >1000 | 95 |
| 5 | 11.95 | 7.31 | 1.329 | 10.63 | 6.34 | >1000 | 100 |
| 10 | 11.91 | 7.26 | 1.327 | 11.44 | 6.02 | >1000 | 104 |
| 15 | 11.95 | 7.24 | 1.331 | 11.49 | 5.99 | 624 | 112 |
| 20 | 11.95 | 7.25 | 1.315 | 11.42 | 5.95 | 404 | 116 |
| 25 | 11.95 | 7.24 | 1.321 | 11.51 | 5.87 | 175 | 119 |
| 30 | 11.95 | 7.24 | 1.314 | 11.60 | 5.86 | 134 | 122 |
| 35 | 11.95 | 7.24 | 1.331 | 11.55 | 5.84 | 109 | 124 |
| 40 | 11.95 | 7.24 | 1.325 | 11.51 | 5.84 | 101 | 126 |
| 45 | 11.95 | 7.24 | 1.333 | 11.44 | 5.83 | 99.6 | 127 |
| 50 | 11.95 | 7.24 | 1.335 | 11.50 | 5.83 | 97.2 | 129 |
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Purge Start Time: 11:30 Purge End Time: 12:20 Total Volume Purged: ~ 2.64 gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold/rainy

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 1/4 inches |
| Project No.: | 96206 | Depth to Water: | 12.25 ft TOR |
| Sampling Device: | Portable Bladder Pump | Depth to Pump: | 52.00 ft TOR |
| Date: | 4/F/15 | Feet of Water in Line: | 39.75 feet |
| Well I.D.: | MW-10 | Volume of Water in Line: | 0.09 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 12.25 | 7.39 | 1.204 | 10.92 | 6.72 | >1000 | 130 |
| 5 | 12.25 | 7.27 | 1.212 | 11.53 | 4.73 | >1000 | 133 |
| 10 | 12.25 | 7.26 | 1.200 | 11.63 | 4.32 | 646 | 133 |
| 15 | 12.25 | 7.25 | 1.204 | 11.62 | 4.27 | 409 | 133 |
| 20 | 12.25 | 7.25 | 1.210 | 11.64 | 4.22 | 303 | 133 |
| 25 | 12.25 | 7.25 | 1.204 | 11.58 | 4.10 | 197 | 134 |
| 30 | 12.25 | 7.24 | 1.203 | 11.65 | 4.12 | 126 | 134 |
| 35 | 12.25 | 7.24 | 1.213 | 11.65 | 4.10 | 104 | 134 |
| 40 | 12.25 | 7.25 | 1.205 | 11.65 | 4.07 | 89.1 | 135 |
| 45 | 12.25 | 7.25 | 1.208 | 11.65 | 4.06 | 85.4 | 136 |
| 50 | 12.25 | 7.24 | 1.203 | 11.71 | 4.04 | 81.5 | 136 |
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Purge Start Time: 12:40 Purge End Time: 13:30 Total Volume Purged: ~ 2.64 gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / Rainy

Comments: _____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 1/4 | inches |
| Project No.: | 96206 | Depth to Water: | 13.34 | ft TOR |
| Sampling Device: | Portable Bladder Pump | Depth to Pump: | 22.00 | ft TOR |
| Date: | 4/8/15 | Feet of Water in Line: | 8.62 | feet |
| Well I.D.: | MW-15S | Volume of Water in Line: | 0.04 | gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 13.34 | 7.35 | 1.313 | 10.27 | 7.59 | >1000 | 145 |
| 5 | 13.34 | 7.29 | 1.345 | 10.73 | 6.90 | >1000 | 196 |
| 10 | 13.34 | 7.23 | 1.350 | 11.24 | 6.15 | >1000 | 145 |
| 15 | 13.34 | 7.23 | 1.346 | 11.36 | 5.96 | >1000 | 148 |
| 20 | 13.34 | 7.23 | 1.365 | 11.35 | 5.97 | >1000 | 146 |
| 25 | 13.34 | 7.23 | 1.361 | 11.24 | 5.96 | >1000 | 147 |
| 30 | 13.34 | 7.23 | 1.356 | 11.33 | 5.95 | >1000 | 147 |
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Purge Start Time: 14:00 Purge End Time: 14:30 Total Volume Purged: ~ 1.39 gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold / Rainy

Comments: _____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.15 ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 51.00 ft TOR |
| **Date:** | 4/21/15 | **Feet of Water in Line:** | 37.85 feet |
| **Well I.D.:** | MW-15D | **Volume of Water in Line:** | 0.09 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 13.15 | 7.54 | 1.240 | 10.65 | 7.46 | 714 | 153 |
| 5 | 13.15 | 7.30 | 1.294 | 11.51 | 4.40 | 534 | 154 |
| 10 | 13.15 | 7.27 | 1.307 | 11.47 | 4.32 | 403 | 154 |
| 15 | 13.15 | 7.27 | 1.312 | 11.47 | 4.30 | 345 | 153 |
| 20 | 13.15 | 7.26 | 1.310 | 11.53 | 4.29 | 207 | 151 |
| 25 | 13.15 | 7.26 | 1.293 | 11.48 | 4.27 | 136 | 151 |
| 30 | 13.15 | 7.24 | 1.295 | 11.64 | 4.34 | 113 | 150 |
| 35 | 13.15 | 7.24 | 1.294 | 11.64 | 4.34 | 84.1 | 150 |
| 40 | 13.15 | 7.25 | 1.294 | 11.50 | 4.36 | 72.2 | 150 |
| 45 | 13.15 | 7.23 | 1.294 | 11.47 | 4.39 | 69.6 | 150 |
| 50 | 13.15 | 7.24 | 1.306 | 11.56 | 4.42 | 66.5 | 150 |
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Purge Start Time: 14:55 Purge End Time: 15:45 Total Volume Purged: ~ 2.64 gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: MAL

Weather Conditions: Cold/rainy

Comments: _____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 | inches |
| Project No.: | 96206 | Depth to Water: | 12.00 | ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 48.00 | ft TOR |
| Date: | 4 / 7 / 15 | Feet of Water in Line: | 36.00 | feet |
| Well I.D.: | CW-3D | Volume of Water in Line: | 0.18 | gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 12.00 | 6.08 | 0.959 | 11.36 | 5.17 | 443 | 150 |
| 5 | 12.00 | 7.00 | 0.969 | 11.54 | 5.25 | 71.2 | 76 |
| 10 | 12.00 | 7.21 | 0.964 | 11.45 | 5.11 | 0.0 | 27 |
| 15 | 12.00 | 7.23 | 0.957 | 11.49 | 5.09 | 0.0 | 24 |
| 20 | 12.00 | 7.24 | 0.957 | 11.44 | 5.08 | 0.0 | 26 |
| 25 | 12.00 | 7.26 | 0.957 | 11.51 | 5.17 | 0.0 | 34 |
| 30 | 12.00 | 7.26 | 0.957 | 11.50 | 5.15 | 0.0 | 35 |
| 35 | 12.00 | 7.25 | 0.955 | 11.49 | 5.22 | 0.0 | 42 |
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Purge Start Time: 13:05 Purge End Time: 13:40 Total Volume Purged: ~ 3.70 gal

Approximate Purge Rate: 460 ml/min Purged/Sampled By: MAL

Weather Conditions: Cool / rainy

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 inches |
| Project No.: | 96206 | Depth to Water: | 11.94 ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 28.55 ft TOR |
| Date: | 4/2/15 | Feet of Water in Line: | 16.61 feet |
| Well I.D.: | CW-35 | Volume of Water in Line: | 0.08 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 11.95 | 6.43 | 0.961 | 11.19 | 6.92 | 0.0 | 94 |
| 5 | 11.95 | 7.10 | 0.961 | 11.26 | 6.39 | 0.0 | 89 |
| 10 | 11.95 | 7.24 | 0.946 | 11.35 | 6.36 | 0.0 | 86 |
| 15 | 11.95 | 7.24 | 0.952 | 11.37 | 5.99 | 0.0 | 89 |
| 20 | 11.95 | 7.24 | 0.956 | 11.29 | 5.86 | 0.0 | 90 |
| 25 | 11.95 | 7.26 | 0.952 | 11.35 | 6.01 | 0.0 | 92 |
| 30 | 11.95 | 7.27 | 0.959 | 11.34 | 5.97 | 0.0 | 94 |
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Purge Start Time: 13:50 Purge End Time: 14:20 Total Volume Purged: ~ 3.37 gal

Approximate Purge Rate: 425 ml/min Purged/Sampled By: MAL

Weather Conditions: Cool / rainy

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.03 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 19.50 | ft TOR |
| **Date:** | 4/7/15 | **Feet of Water in Line:** | 6.47 | feet |
| **Well I.D.:** | MW-105 | **Volume of Water in Line:** | 0.03 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 13.10 | 6.59 | 1.060 | 8.53 | 8.66 | 8.17 | 126 |
| 5 | 13.10 | 6.99 | 1.044 | 8.66 | 8.64 | 267 | 115 |
| 10 | 13.10 | 7.22 | 1.040 | 8.71 | 8.49 | 50.0 | 113 |
| 15 | 13.10 | 7.25 | 1.050 | 8.54 | 8.20 | 17.4 | 114 |
| 20 | 13.10 | 7.24 | 1.051 | 8.63 | 8.19 | 6.3 | 115 |
| 25 | 13.10 | 7.23 | 1.042 | 8.60 | 8.04 | 3.2 | 117 |
| 30 | 13.10 | 7.23 | 1.051 | 8.61 | 8.15 | 2.9 | 115 |
| 35 | 13.10 | 7.24 | 1.052 | 8.55 | 8.03 | 2.3 | 119 |
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Purge Start Time: 14:50 Purge End Time: 15:25 Total Volume Purged: ~ 3.24 gal

Approximate Purge Rate: 350 ml/min Purged/Sampled By: MAL

Weather Conditions: Cool/rainy

Comments: _____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 inches |
| Project No.: | 96206 | Depth to Water: | 11.43 ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 20.70 ft TOR |
| Date: | 4/7/15 | Feet of Water in Line: | 9.27 feet |
| Well I.D.: | MW-25 | Volume of Water in Line: | 0.05 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 11.43 | 6.66 | 1.383 | 11.06 | 7.53 | 19.7 | 122 |
| 5 | 11.43 | 7.14 | 1.469 | 11.39 | 7.02 | 0.0 | 115 |
| 10 | 11.43 | 7.19 | 1.454 | 11.26 | 6.88 | 0.0 | 117 |
| 15 | 11.43 | 7.20 | 1.476 | 11.27 | 6.42 | 0.0 | 119 |
| 20 | 11.43 | 7.19 | 1.456 | 11.04 | 6.41 | 0.0 | 122 |
| 25 | 11.43 | 7.19 | 1.483 | 11.27 | 6.24 | 0.0 | 124 |
| 30 | 11.43 | 7.18 | 1.464 | 11.20 | 6.38 | 0.0 | 125 |
| 35 | 11.43 | 7.19 | 1.464 | 11.22 | 6.47 | 0.0 | 126 |
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Purge Start Time: 16:10 Purge End Time: 16:45 Total Volume Purged: ~ 3.70 gal

Approximate Purge Rate: 400 ml/min Purged/Sampled By: MAL

Weather Conditions: Cool / rainy

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| Site: | CBS-Horseheads, NY | Tubing Diameter: | 3/8 inches |
| Project No.: | 96206 | Depth to Water: | 11.72 ft TOR |
| Sampling Device: | Dedicated Bladder Pump | Depth to Pump: | 57.00 ft TOR |
| Date: | 4/12/15 | Feet of Water in Line: | 45.28 feet |
| Well I.D.: | MW-7D | Volume of Water in Line: | 0.23 gallons |

(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0 | 11.72 | 7.05 | 1.392 | 11.21 | 4.57 | 31.6 | 159 |
| 5 | 11.72 | 7.11 | 1.366 | 11.28 | 5.03 | 0.0 | 71 |
| 10 | 11.72 | 7.18 | 1.364 | 11.60 | 4.84 | 0.0 | 9 |
| 15 | 11.72 | 7.19 | 1.377 | 11.83 | 4.69 | 0.0 | 13 |
| 20 | 11.72 | 7.19 | 1.384 | 11.64 | 4.50 | 0.0 | 25 |
| 25 | 11.72 | 7.19 | 1.384 | 11.57 | 4.64 | 0.0 | 30 |
| 30 | 11.72 | 7.15 | 1.377 | 11.90 | 4.71 | 0.0 | 45 |
| 35 | 11.72 | 7.16 | 1.379 | 11.86 | 4.75 | 0.0 | 48 |
| 40 | 11.72 | 7.19 | 1.380 | 11.82 | 4.71 | 0.0 | 51 |
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Purge Start Time: 13:00 Purge End Time: 13:40 Total Volume Purged: ~ 4.27 gal

Approximate Purge Rate: 400 ml/min Purged/Sampled By: MAL

Weather Conditions: Cloudy

Comments: _____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.62 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 36.0 | ft TOR |
| **Date:** | 8 14 15 | **Feet of Water in Line:** | 22.38 | feet |
| **Well I.D.:** | MW-105D | **Volume of Water in Line:** | 0.11 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 14.31 | 8.62 | 1.460 | 13.34 | 3.03 | 60.1 | 21 |
| 10 | 13.98 | 8.55 | 1.450 | 15.13 | 0.69 | 21.4 | 17 |
| 15 | 13.88 | 8.54 | 1.451 | 14.28 | 0.64 | 49.3 | 17 |
| 20 | 13.92 | 8.62 | 1.470 | 12.32 | 1.17 | 48.1 | 18 |
| 25 | 14.68 | 8.66 | 1.470 | 12.35 | 0.77 | 43.6 | 19 |
| 30 | 14.53 | 8.63 | 1.470 | 12.79 | 0.29 | 14.1 | 19 |
| 35 | 14.49 | 8.60 | 1.470 | 12.78 | 0.81 | 14.4 | 20 |
| 40 | 14.49 | 8.62 | 1.470 | 12.80 | 0.85 | 14.7 | 19 |
| 45 | 14.47 | 8.61 | 1.470 | 12.84 | 0.88 | 14.1 | 19 |
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Purge Start Time: 1520 Purge End Time: 1605 Total Volume Purged: ~4.75 gal

Approximate Purge Rate: 400 ml/min Purged/Sampled By:

Weather Conditions: Sunny, ~80°F

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 590 | ft TOR |
| **Date:** | 8/14/15 | **Feet of Water in Line:** | | feet |
| **Well I.D.:** | MW-100D | **Volume of Water in Line:** | | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | | 8.43 | 1.423 | 15.40 | 3.60 | 108 | 126 |
| 10 | | 8.44 | 1.456 | 15.20 | 2.41 | 98.8 | 124 |
| 15 | | 8.48 | 1.459 | 15.09 | 1.98 | 64.7 | 120 |
| 20 | | 8.49 | 1.456 | 14.96 | 1.47 | 43.3 | 117 |
| 25 | | 8.49 | 1.460 | 15.07 | 1.08 | 23.0 | 116 |
| 30 | | 8.48 | 1.460 | 15.10 | 0.89 | 24.2 | 115 |
| 35 | | 8.47 | 1.462 | 15.08 | 0.81 | 24.8 | 115 |
| 40 | | 8.48 | 1.460 | 15.11 | 0.78 | 23.3 | 116 |
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Purge Start Time: 1405 Purge End Time: 1445 Total Volume Purged: ~ 3.17 gal

Approximate Purge Rate: 300 ml/min Purged/Sampled By:

Weather Conditions: Cloudy, ~75° F Slight Breeze

Comments: Could not get water level tape down well, possible well damage.

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.81 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 25.8 | ft TOR |
| **Date:** | 8 14 15 | **Feet of Water in Line:** | 10.99 | feet |
| **Well I.D.:** | CW-75 | **Volume of Water in Line:** | 0.05 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 14.95 | 8.58 | 2.06 | 15.80 | 5.67 | 61.8 | 97 |
| 10 | 14.82 | 8.58 | 2.06 | 15.94 | 5.34 | 53.8 | 97 |
| 15 | 14.84 | 8.62 | 2.09 | 14.72 | 5.26 | 91.1 | 96 |
| 20 | 14.85 | 8.71 | 2.09 | 12.95 | 4.97 | 51.1 | 90 |
| 25 | 14.85 | 8.70 | 2.05 | 12.91 | 4.89 | 13.8 | 87 |
| 30 | 14.85 | 8.68 | 2.06 | 12.79 | 4.83 | 4.5 | 86 |
| 35 | 14.87 | 8.68 | 2.06 | 12.81 | 4.80 | 4.8 | 84 |
| 40 | 14.88 | 8.67 | 2.05 | 12.84 | 4.78 | 4.2 | 83 |
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Purge Start Time: 1305 Purge End Time: 1340 Total Volume Purged: ~3.17 gal

Approximate Purge Rate: 300 ml/min Purged/Sampled By:

Weather Conditions: partly cloudy, slight breeze

Comments: MS, MSD & DUP (MW-120 8/4/15) was collected at CW-75

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | ~~1/4~~ 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.97 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 520 ft TOR |
| **Date:** | 8 14 15 | **Feet of Water in Line:** | 42.03 feet |
| **Well I.D.:** | CW-7D | **Volume of Water in Line:** | 0.21 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 14.99 | 8.65 | 0.946 | 14.40 | 6.50 | 272 | 90 |
| 10 | 15.00 | 8.71 | 0.945 | 13.87 | 6.52 | 239 | 91 |
| 15 | 15.00 | 8.72 | 0.947 | 13.54 | 6.63 | 196 | 96 |
| 20 | 15.00 | 8.71 | 0.945 | 13.48 | 6.70 | 170 | 101 |
| 25 | 15.01 | 8.71 | 0.945 | 13.39 | 6.68 | 164 | 105 |
| 30 | 15.01 | 8.72 | 0.945 | 13.38 | 6.70 | 133 | 107 |
| 35 | 15.01 | 8.70 | 0.946 | 13.35 | 6.71 | 127 | 111 |
| 40 | 15.01 | 8.69 | 0.946 | 13.38 | 6.74 | 123 | 113 |
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Purge Start Time: 1120 Purge End Time: 1200 Total Volume Purged: ~ gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: KMS

Weather Conditions: _____

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 9.78 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 16.0 ft TOR |
| **Date:** | 8 14 15 | **Feet of Water in Line:** | 6.22 feet |
| **Well I.D.:** | MW-101S | **Volume of Water in Line:** | 0.03 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 9.85 | 8.52 | 3.00 | 14.20 | 0.77 | 188 | 6 |
| 10 | 9.83 | 8.55 | 2.97 | 15.01 | 1.00 | 149 | -8 |
| 15 | 9.81 | 8.52 | 2.95 | 15.88 | 1.17 | 108 | -5 |
| 20 | 9.82 | 8.51 | 2.94 | 16.00 | 1.22 | 101 | -2 |
| 25 | 9.82 | 8.53 | 2.93 | 16.05 | 1.22 | 76.2 | 3 |
| 30 | 9.82 | 8.54 | 2.93 | 15.97 | 1.26 | 74.8 | 4 |
| 35 | 9.82 | 8.52 | 2.92 | 16.02 | 1.25 | 70.1 | 6 |
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Purge Start Time: 1025 Purge End Time: 1100 Total Volume Purged: ~1.39 gal

Approximate Purge Rate: 150 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, ~75°F

Comments: _____

_____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 8.92 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 31.0 | ft TOR |
| **Date:** | 8 14 15 | **Feet of Water in Line:** | 22.08 | feet |
| **Well I.D.:** | MW-101I | **Volume of Water in Line:** | 0.11 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen mg/l (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | ~~9.00~~ 9.01 | ~~8~~.42 | 3.24 | 13.10 | 2.23 | 354 | 59 |
| 10 | ~~9.00~~ 9.06 | 8.53 | 3.23 | 13.20 | 1.83 | 197 | 15 |
| 15 | ~~9.06~~ 9.06 | 8.57 | 3.23 | 13.17 | 1.71 | 172 | 11 |
| 20 | 9.06 | 8.53 | 3.16 | 13.28 | 1.60 | 175 | 5 |
| 25 | 9.07 | 7.93 | 2.57 | 13.29 | 1.58 | 239 | 121 |
| 30 | 9.07 | 7.81 | 2.30 | 13.25 | 1.61 | 218 | 163 |
| 35 | 9.07 | 7.80 | 2.28 | 13.26 | 1.65 | 215 | 166 |
| 40 | 9.07 | 7.77 | 2.25 | 13.31 | 1.69 | 209 | 171 |
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Purge Start Time: 0930 Purge End Time: 1010 Total Volume Purged: ~2.11 gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny. ~75°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 8.92 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 31.0 | ft TOR |
| **Date:** | 8 14 15 | **Feet of Water in Line:** | 22.08 | feet |
| **Well I.D.:** | MW-101I | **Volume of Water in Line:** | 0.11 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | ~~9.00~~ 9.01 | ~~8~~.42 | 3.24 | 13.10 | 2.23 | 354 | 59 |
| 10 | ~~9.00~~ 9.06 | 8.53 | 3.23 | 13.20 | 1.85 | 197 | 15 |
| 15 | ~~9.05~~ 9.06 | 8.57 | 3.23 | 13.17 | 1.71 | 172 | 11 |
| 20 | 9.06 | 8.53 | 3.16 | 13.28 | 1.60 | 125 | 5 |
| 25 | 9.07 | 7.93 | 2.57 | 13.29 | 1.58 | 239 | 121 |
| 30 | 9.07 | 7.81 | 2.30 | 13.25 | 1.61 | 218 | 163 |
| 35 | 9.07 | 7.80 | 2.28 | 13.26 | 1.65 | 215 | 166 |
| 40 | 9.07 | 7.77 | 2.25 | 13.31 | 1.69 | 209 | 171 |
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Purge Start Time: 0930 Purge End Time: 1010 Total Volume Purged: ~2.11 gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny ~75°F

Comments:

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 9.78 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 16.0 | ft TOR |
| **Date:** | 8 14 15 | **Feet of Water in Line:** | 6.22 | feet |
| **Well I.D.:** | MW-101S | **Volume of Water in Line:** | 0.03 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 9.85 | 8.52 | 3.60 | 14.20 | 0.77 | 188 | 6 |
| 10 | 9.83 | 8.55 | 2.97 | 15.01 | 1.00 | 149 | -8 |
| 15 | 9.81 | 8.52 | 2.95 | 15.88 | 1.17 | 108 | -5 |
| 20 | 9.82 | 8.51 | 2.94 | 16.00 | 1.22 | 101 | -2 |
| 25 | 9.82 | 8.53 | 2.93 | 16.05 | 1.22 | 76.2 | 3 |
| 30 | 9.82 | 8.54 | 2.93 | 15.97 | 1.26 | 74.8 | 4 |
| 35 | 9.82 | 8.52 | 2.92 | 16.02 | 1.25 | 70.1 | 6 |
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Purge Start Time: 1025 Purge End Time: 1100 Total Volume Purged: ~1.39 gal

Approximate Purge Rate: 150 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, ~75°F

Comments: _____

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | ~~1/4~~ 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.47 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 520 | ft TOR |
| **Date:** | 8 14 15 | **Feet of Water in Line:** | 40.03 | feet |
| **Well I.D.:** | CW-7D | **Volume of Water in Line:** | 0.21 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 14.99 | 8.65 | 0.946 | 14.46 | 6.50 | 272 | 90 |
| 10 | 15.00 | 8.71 | 0.945 | 13.87 | 6.52 | 239 | 91 |
| 15 | 15.00 | 8.72 | 0.947 | 13.54 | 6.63 | 196 | 96 |
| 20 | 15.00 | 8.71 | 0.945 | 13.48 | 6.70 | 170 | 101 |
| 25 | 15.01 | 8.71 | 0.945 | 13.39 | 6.68 | 164 | 105 |
| 30 | 15.01 | 8.72 | 0.945 | 13.38 | 6.70 | 133 | 107 |
| 35 | 15.01 | 8.70 | 0.946 | 13.35 | 6.71 | 127 | 111 |
| 40 | 15.01 | 8.69 | 0.946 | 13.38 | 6.74 | 123 | 113 |
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Purge Start Time: 1120 Purge End Time: 1200 Total Volume Purged: ~ gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: KMS

Weather Conditions: _____

Comments: _____

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f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.81 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 25.8 | ft TOR |
| **Date:** | 8 14 15 | **Feet of Water in Line:** | 10.99 | feet |
| **Well I.D.:** | CW-75 | **Volume of Water in Line:** | 0.05 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 14.93 | 8.58 | 2.06 | 15.80 | 5.67 | 61.8 | 97 |
| 10 | 14.82 | 8.58 | 2.06 | 15.94 | 5.34 | 53.8 | 97 |
| 15 | 14.84 | 8.62 | 2.09 | 14.77 | 5.26 | 91.1 | 96 |
| 20 | 14.85 | 8.71 | 2.09 | 12.95 | 4.97 | 51.1 | 90 |
| 25 | 14.85 | 8.70 | 2.05 | 12.91 | 4.89 | 13.8 | 87 |
| 30 | 14.85 | 8.68 | 2.06 | 12.79 | 4.83 | 4.5 | 86 |
| 35 | 14.87 | 8.68 | 2.06 | 12.81 | 4.80 | 4.8 | 84 |
| 40 | 14.88 | 8.67 | 2.05 | 12.84 | 4.78 | 4.2 | 83 |
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Purge Start Time: 1300 Purge End Time: 1340 Total Volume Purged: ~3.17 gal

Approximate Purge Rate: 300 ml/min Purged/Sampled By:

Weather Conditions: partly cloudy, slight breeze

Comments: MS, MSD & DUP (MW-120 8/4/15) was also Sampled At CW-75

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 590 | ft TOR |
| **Date:** | 8/4/15 | **Feet of Water in Line:** | | feet |
| **Well I.D.:** | MW-100D | **Volume of Water in Line:** | | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| [illegible]5 | | 8.43 | 1.423 | 15.40 | 3.60 | 108 | 126 |
| 10 | | 8.44 | 1.456 | 15.20 | 2.41 | 98.8 | 124 |
| 15 | | 8.48 | 1.459 | 15.09 | 1.98 | 64.7 | 120 |
| 20 | | 8.49 | 1.456 | 14.96 | 1.47 | 43.3 | 117 |
| 25 | | 8.49 | 1.460 | 15.07 | 1.08 | 23.0 | 116 |
| 30 | | 8.48 | 1.460 | 15.10 | 0.89 | 24.2 | 115 |
| 35 | | 8.47 | 1.462 | 15.08 | 0.81 | 24.8 | 115 |
| 40 | | 8.48 | 1.460 | 15.11 | 0.78 | 23.8 | 116 |
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Purge Start Time: 1405 Purge End Time: 1445 Total Volume Purged: ~ 3.12 gal

Approximate Purge Rate: 300 ml/min Purged/Sampled By:

Weather Conditions: Cloudy, ~75°F Slight Breeze

Comments: Could not get water level tape down well, possible well damage.

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.62 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 36.0 | ft TOR |
| **Date:** | 8/4/15 | **Feet of Water in Line:** | 22.38 | feet |
| **Well I.D.:** | MW-105D | **Volume of Water in Line:** | 0.11 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 14.31 | 8.62 | 1.460 | 13.34 | 3.03 | 60.1 | 21 |
| 10 | 13.98 | 8.55 | 1.450 | 15.13 | 0.69 | 21.4 | 17 |
| 15 | 13.88 | 8.54 | 1.451 | 14.28 | 0.64 | 49.3 | 17 |
| 20 | 13.92 | 8.62 | 1.470 | 12.32 | 1.17 | 48.1 | 18 |
| 25 | 14.68 | 8.66 | 1.470 | 12.35 | 0.77 | 43.6 | 19 |
| 30 | 14.53 | 8.63 | 1.470 | 12.79 | 0.29 | 14.1 | 19 |
| 35 | 14.49 | 8.60 | 1.470 | 12.78 | 0.81 | 14.4 | 20 |
| 40 | 14.49 | 8.62 | 1.470 | 12.80 | 0.85 | 14.7 | 19 |
| 45 | 14.47 | 8.61 | 1.470 | 12.84 | 0.88 | 14.1 | 19 |
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Purge Start Time: 1520 Purge End Time: 1605 Total Volume Purged: ~4.75 gal

Approximate Purge Rate: 400 ml/min Purged/Sampled By:

Weather Conditions: Sunny, ~80°F

Comments:

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/16 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.93 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 57.0 | ft TOR |
| **Date:** | 8 15 15 | **Feet of Water in Line:** | 46.07 | feet |
| **Well I.D.:** | MW-7D | **Volume of Water in Line:** | 0.25 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 10.94 | 6.81 | 1.450 | 14.09 | 5.41 | 94.8 | 210 |
| 10 | 10.94 | 7.39 | 1.449 | 14.15 | 5.45 | 49.4 | 162 |
| 15 | 10.94 | 7.46 | 1.450 | 14.19 | 5.48 | 23.0 | 142 |
| 20 | 10.94 | 7.53 | 1.455 | 14.25 | 5.46 | 9.9 | 127 |
| 25 | 10.94 | 7.53 | 1.449 | 14.22 | 5.50 | 9.5 | 127 |
| 30 | 10.94 | 7.55 | 1.450 | 14.19 | 5.42 | 9.1 | 126 |
| 35 | 10.94 | 7.53 | 1.452 | 14.20 | 5.46 | 8.8 | 124 |
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Purge Start Time: 0850 Purge End Time: 0925 Total Volume Purged: ~3.23 gal

Approximate Purge Rate: 350 ml/min Purged/Sampled By: KMS

Weather Conditions: Partly cloudy ~ 74°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.65 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 26.70 | ft TOR |
| **Date:** | 8 15 15 | **Feet of Water in Line:** | 10.05 | feet |
| **Well I.D.:** | MW-75 | **Volume of Water in Line:** | 0.05 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 10.65 | 7.35 | 1.56 | 14.07 | 6.66 | 98.3 | 116 |
| 10 | 10.67 | 7.53 | 1.56 | 14.01 | 6.68 | 49.9 | 122 |
| 15 | 16.67 | 7.57 | 1.57 | 14.42 | 6.69 | 21.8 | 124 |
| 20 | 16.68 | 7.55 | 1.57 | 14.39 | 6.69 | 18.7 | 129 |
| 25 | 10.70 | 7.56 | 1.57 | 14.38 | 6.69 | 15.4 | 131 |
| 30 | 10.70 | 7.59 | 1.57 | 14.35 | 6.70 | 15.0 | 133 |
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Purge Start Time: 0940 Purge End Time: 1010 Total Volume Purged: ~3.96 gal

Approximate Purge Rate: 566 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, ~78°F

Comments: _____

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f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 8.61 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | ~~95.5~~ | ft TOR |
| **Date:** | 8/5/15 | **Feet of Water in Line:** | ~~86.89~~ | feet |
| **Well I.D.:** | MW-113D | **Volume of Water in Line:** | 0.43 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 8.61 | 7.60 | 1.438 | 13.96 | 5.97 | 156 | 199 |
| 10 | 8.65 | 7.65 | 1.437 | 13.81 | 5.89 | 105 | 188 |
| 15 | 8.66 | 7.67 | 1.434 | 13.85 | 5.84 | 70.8 | 179 |
| 20 | 8.65 | 7.71 | 1.423 | 13.64 | 5.85 | 57.3 | 145 |
| 25 | 8.65 | 7.71 | 1.422 | 13.95 | 5.82 | 45.1 | 110 |
| 30 | 8.65 | 7.69 | 1.425 | 13.84 | 5.78 | 40.9 | 83 |
| 35 | 8.65 | 7.65 | 1.426 | 13.89 | 5.77 | 37.4 | 81 |
| 40 | 8.65 | 7.64 | 1.429 | 13.92 | 5.76 | 35.6 | 81 |
| 45 | 8.65 | 7.69 | 1.431 | 13.89 | 5.76 | 33.2 | 80 |
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Purge Start Time: 1045 Purge End Time: 1130 Total Volume Purged: ~5.35 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, 280°F

Comments: _____

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

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|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.30 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 48.0 | ft TOR |
| **Date:** | 8/5/15 | **Feet of Water in Line:** | 37.7 | feet |
| **Well I.D.:** | CW-3D | **Volume of Water in Line:** | 0.18 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 10.32 | 6.99 | 0.946 | 12.13 | 10.33 | 196.7 | 148 |
| 10 | 10.32 | 7.74 | 0.935 | 11.88 | 6.33 | 104 | 28 |
| 15 | 10.32 | 7.84 | 0.940 | 11.85 | 6.38 | 46.5 | 21 |
| 20 | 10.32 | 7.84 | 0.939 | 11.93 | 6.33 | 31.0 | 29 |
| 25 | 10.32 | 7.87 | 0.943 | 12.18 | 6.28 | 25.6 | 32 |
| 30 | 10.34 | 7.88 | 0.942 | 12.22 | 6.24 | 21.3 | 35 |
| 35 | 10.34 | 7.91 | 0.940 | 12.17 | 6.21 | 20.4 | 33 |
| 40 | 10.34 | 7.88 | 0.941 | 12.11 | 6.21 | 19.7 | 33 |
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Purge Start Time: 1155 Purge End Time: 1235 Total Volume Purged: ~5.28 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: KMS

Weather Conditions: partly cloudy, ~78°F

Comments: _____

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.89 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 28.55 | ft TOR |
| **Date:** | 8/5/15 | **Feet of Water in Line:** | 17.66 | feet |
| **Well I.D.:** | CW-35 | **Volume of Water in Line:** | 0.08 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 10.89 | 7.49 | 0.948 | 13.71 | 7.00 | 29.4 | 125 |
| 10 | 10.90 | 7.60 | 0.948 | 12.06 | 7.20 | 30.1 | 126 |
| 15 | 10.91 | 7.82 | 0.950 | 12.13 | 6.55 | 15.0 | 116 |
| 20 | 10.91 | 7.86 | 0.947 | 12.24 | 6.48 | 13.1 | 112 |
| 25 | 10.91 | 7.89 | 0.948 | 12.17 | 6.46 | 10.7 | 110 |
| 30 | 10.91 | 7.91 | 0.948 | 12.17 | 6.47 | 9.1 | 107 |
| 35 | 10.91 | 7.90 | 0.946 | 12.11 | 6.45 | 8.6 | 107 |
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Purge Start Time: 1250 Purge End Time: 1325 Total Volume Purged: ~4.62 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, 80°F

Comments: _____

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 12.63 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 19.5 | ft TOR |
| **Date:** | 8/5/15 | **Feet of Water in Line:** | 6.87 | feet |
| **Well I.D.:** | MW-105 | **Volume of Water in Line:** | 0.03 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 12.68 | 7.45 | 1.022 | 14.27 | 5.71 | 294 | 140 |
| 10 | 12.68 | 7.62 | 1.028 | 13.95 | 5.37 | 81.0 | 115 |
| 15 | 12.75 | 7.58 | 1.024 | 13.94 | 5.25 | 56.9 | 104 |
| 20 | 12.78 | 7.60 | 1.020 | 14.21 | 5.09 | 44.3 | 97 |
| 25 | 12.76 | 7.60 | 1.024 | 14.32 | 5.00 | 39.8 | 94 |
| 30 | 12.75 | 7.62 | 1.020 | 14.24 | 4.97 | 33.1 | 94 |
| 35 | 12.75 | 7.70 | 1.018 | 14.22 | 4.93 | [illegible]15.1 | 94 |
| 40 | 12.75 | 7.70 | 1.021 | 14.19 | 4.92 | 9.4 | 94 |
| 45 | 12.75 | 7.68 | 1.021 | 14.21 | 4.93 | 8.9 | 93 |
| 50 | 12.75 | 7.67 | 1.020 | 14.17 | 4.90 | 7.1 | 94 |
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Purge Start Time: 1460 Purge End Time: 1450 Total Volume Purged: ~6.61 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, 78°F

Comments: MS/MSD/DUP-1 were also sampled

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 16.63 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 24.8 | ft TOR |
| **Date:** | 8 15 13 | **Feet of Water in Line:** | 8.17 | feet |
| **Well I.D.:** | MW-9S | **Volume of Water in Line:** | 0.04 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 16.72 | 7.82 | 1.168 | 12.90 | 6.32 | 426 | 156 |
| 10 | 16.73 | 7.83 | 1.102 | 12.93 | 6.05 | 85.3 | 155 |
| 15 | 16.73 | 7.81 | 1.087 | 12.91 | 5.82 | 56.2 | 156 |
| 20 | 16.73 | 7.81 | 1.094 | 12.95 | 5.38 | 44.7 | 157 |
| 25 | 16.73 | 7.82 | 1.101 | 12.95 | 5.35 | 39.5 | 155 |
| 30 | 16.73 | 7.82 | 1.107 | 12.98 | 5.34 | 28.2 | 156 |
| 35 | 16.73 | 7.81 | 1.105 | 13.07 | 5.38 | 25.3 | 154 |
| 40 | 16.73 | 7.80 | 1.110 | 13.11 | 5.40 | 21.8 | 153 |
| 45 | 16.73 | 7.81 | 1.109 | 13.10 | 5.43 | 19.1 | 155 |
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Purge Start Time: 1535 Purge End Time: 1620 Total Volume Purged: ~4.76 gal

Approximate Purge Rate: 460 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny

Comments: _____

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f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 16.83 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 41.6 | ft TOR |
| **Date:** | 8 15 15 | **Feet of Water in Line:** | 24.77 | feet |
| **Well I.D.:** | MW-9D | **Volume of Water in Line:** | 0.12 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 16.83 | 7.66 | 1.040 | 13.12 | 5.10 | 30.9 | 168 |
| 10 | 16.85 | 7.80 | 1.040 | 12.98 | 4.65 | 5.1 | 166 |
| 15 | 16.85 | 7.82 | 1.049 | 12.96 | 4.59 | 3.2 | 164 |
| 20 | 16.85 | 7.86 | 1.049 | 12.96 | 4.45 | 2.9 | 167 |
| 25 | 16.87 | 7.85 | 1.044 | 13.04 | 4.38 | 1.9 | 167 |
| 30 | 16.87 | 7.86 | 1.041 | 13.05 | 4.31 | 1.0 | 167 |
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Purge Start Time: 1650 Purge End Time: 1720 Total Volume Purged: ~ 3.96 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, ~ 78°F

Comments: _____

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.40 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 24.35 | ft TOR |
| **Date:** | 8/16/15 | **Feet of Water in Line:** | 9.95 | feet |
| **Well I.D.:** | MW-85 | **Volume of Water in Line:** | 0.05 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 14.40 | 7.21 | 1.170 | 14.33 | 12.43 | 90.4 | 228 |
| 10 | 14.40 | 7.60 | 1.160 | 14.22 | 6.74 | 21.3 | 198 |
| 15 | 14.40 | 7.73 | 1.162 | 14.15 | 6.58 | 7.7 | 186 |
| 20 | 14.41 | 7.74 | 1.165 | 14.15 | 6.51 | 6.8 | 179 |
| 25 | 14.42 | 7.73 | 1.164 | 14.16 | 6.48 | 5.9 | 173 |
| 30 | 14.42 | 7.70 | 1.164 | 14.17 | 6.52 | 4.1 | 175 |
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Purge Start Time: 0825 Purge End Time: 0855 Total Volume Purged: ~3.96 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, ~75°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.25 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 49.0 | ft TOR |
| **Date:** | 8/6/15 | **Feet of Water in Line:** | 34.75 | feet |
| **Well I.D.:** | MW-8D | **Volume of Water in Line:** | 0.17 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 14.25 | 6.02 | 1.02 | 15.26 | 4.81 | 0.0 | 171 |
| 10 | 14.25 | 6.64 | 1.02 | 14.54 | 4.45 | 0.0 | 103 |
| 15 | 14.25 | 6.71 | 1.03 | 14.13 | 4.36 | 0.0 | 93 |
| 20 | 14.25 | 6.74 | 1.03 | 13.80 | 4.31 | 0.0 | 90 |
| 25 | 14.27 | 6.78 | 1.02 | 13.93 | 4.26 | 0.0 | 87 |
| 30 | 14.29 | 6.83 | 1.03 | 13.98 | 4.25 | 0.0 | 84 |
| 35 | 14.29 | 6.80 | 1.03 | 13.86 | 4.30 | 0.0 | 82 |
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Purge Start Time: 1025 Purge End Time: 1100 Total Volume Purged: ~4.62 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: KMS

Weather Conditions: partly cloudy, ~74°F

Comments: Changed meter to U-52

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.33 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 22.0 | ft TOR |
| **Date:** | 8/6/15 | **Feet of Water in Line:** | 10.67 | feet |
| **Well I.D.:** | MW-16S | **Volume of Water in Line:** | 0.05 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 11.33 | 6.72 | 1.22 | 16.08 | 8.64 | >1000 | 125 |
| 10 | 11.34 | 6.79 | 1.23 | 16.18 | 7.94 | >1000 | 122 |
| 15 | 11.34 | 6.73 | 1.24 | 15.77 | 6.03 | 725 | 127 |
| 20 | 11.34 | 6.70 | 1.24 | 15.68 | 7.53 | 446 | 131 |
| 25 | 11.35 | 6.72 | 1.24 | 15.61 | 6.02 | 352 | 126 |
| 30 | 11.36 | 6.75 | 1.24 | 15.73 | 6.67 | 278 | 123 |
| 35 | 11.36 | 6.78 | 1.24 | 15.77 | 6.73 | 236 | 125 |
| 40 | 11.37 | 6.77 | 1.23 | 15.77 | 6.75 | 195 | 130 |
| 45 | 11.37 | 6.76 | 1.24 | 15.83 | 6.71 | 188 | 130 |
| 50 | 11.37 | 6.72 | 1.24 | 15.79 | 6.77 | 179 | 128 |
| 55 | 11.37 | 6.78 | 1.23 | 15.81 | 6.74 | 170 | 128 |
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Purge Start Time: 1135 Purge End Time: 1230 Total Volume Purged: ~4.35 gal

Approximate Purge Rate: 300 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, ~ 75°F, breeze

Comments: Horiba U-52 still Reading 0.0 NTU, Using Hach 2100Q Turbidity meter w/ Horiba U-52

@ 20 min mark of purge Horiba U-52 NTU Started to register still using HACH 2100Q for NTU readings

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | ¼ | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.61 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 52.0 | ft TOR |
| **Date:** | 8/16/15 | **Feet of Water in Line:** | 40.39 | feet |
| **Well I.D.:** | MW-16D | **Volume of Water in Line:** | 0.09 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 11.61 | 6.93 | 1.09 | 17.52 | 5.88 | >1600 | 137 |
| 10 | 11.61 | 6.91 | 1.09 | 16.41 | 8.81 | 911 | 140 |
| 15 | 11.63 | 6.90 | 1.10 | 16.41 | 8.48 | 819 | 140 |
| 20 | 11.63 | 6.97 | 1.09 | 16.40 | 7.71 | 566 | 139 |
| 25 | 11.63 | 6.92 | 1.09 | 16.39 | 7.81 | 560 | 139 |
| 30 | 11.63 | 6.89 | 1.10 | 16.31 | 7.85 | 540 | 135 |
| 35 | 11.63 | 6.94 | 1.10 | 16.26 | 7.77 | 290 | 133 |
| 40 | 11.63 | 6.96 | 1.10 | 16.21 | 7.76 | 280 | 132 |
| 45 | 11.63 | 6.98 | 1.10 | 16.27 | 7.71 | 271 | 133 |
| 50 | 11.63 | 6.95 | 1.09 | 16.19 | 7.72 | 264 | 133 |
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Purge Start Time: 1250 Purge End Time: ~~1350~~ 1340 Total Volume Purged: ~3.96 gal

Approximate Purge Rate: 300 ml/min Purged/Sampled By: KMS

Weather Conditions: Partly cloudy ~ 75°F

Comments: _____

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.71 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 22.0 | ft TOR |
| **Date:** | 8/6/15 | **Feet of Water in Line:** | 8.29 | feet |
| **Well I.D.:** | MW-155 | **Volume of Water in Line:** | 0.02 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 13.71 | 7.02 | 1.24 | 21.02 | 8.09 | [illegible]>1000 | 128 |
| 10 | 13.71 | 6.85 | 1.27 | 17.88 | 9.04 | >1000 | 147 |
| 15 | 13.71 | 6.97 | 1.28 | 18.16 | 6.39 | >1000 | 146 |
| 20 | 13.71 | 6.87 | 1.27 | 17.64 | 6.34 | >1000 | 147 |
| 25 | 13.71 | 6.89 | 1.28 | 17.05 | 6.33 | >1000 | 150 |
| 30 | 13.71 | 6.91 | 1.27 | 17.11 | 6.27 | >1000 | 148 |
| 35 | 13.73 | 6.87 | 1.28 | 17.10 | 6.34 | >1000 | 151 |
| 40 | 13.73 | 6.92 | 1.28 | 17.05 | 6.30 | >1000 | 146 |
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Purge Start Time: 1350 Purge End Time: 1430 Total Volume Purged: ~1.59 gal

Approximate Purge Rate: 150 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, ~75°F breeze

Comments: _____

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.52 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 51.00 | ft TOR |
| **Date:** | 8 16 15 | **Feet of Water in Line:** | | feet |
| **Well I.D.:** | MW-150 | **Volume of Water in Line:** | | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 13.52 | 6.99 | 1.14 | 20.21 | 1.98 | 275 | 152 |
| 10 | 13.52 | 7.03 | 1.14 | 19.02 | 1.88 | 234 | 150 |
| 15 | 13.52 | 7.10 | 1.12 | 18.26 | 1.98 | 227 | 145 |
| 20 | 13.55 | 7.06 | 1.15 | 18.19 | 2.08 | 219 | 147 |
| 25 | 13.53 | 7.07 | 1.15 | 18.11 | 1.99 | 212 | 143 |
| 30 | 13.53 | 7.05 | 1.17 | 18.15 | 2.05 | 214 | 144 |
| 35 | 13.53 | 7.06 | 1.17 | 18.12 | 2.01 | 208 | 143 |
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Purge Start Time: 1440 Purge End Time: 1515 Total Volume Purged: ~ gal

Approximate Purge Rate: 150 ml/min Purged/Sampled By: KMS

Weather Conditions: Partly cloudy, ~75°F breezy

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 16.83 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 41.6 ft TOR |
| **Date:** | 8 15 15 | **Feet of Water in Line:** | 24.77 feet |
| **Well I.D.:** | MW-9D | **Volume of Water in Line:** | 0.12 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 16.83 | 7.66 | 1.040 | 13.12 | 5.10 | 30.9 | 168 |
| 10 | 16.85 | 7.80 | 1.040 | 12.98 | 4.65 | 5.1 | 166 |
| 15 | 16.85 | 7.82 | 1.049 | 12.96 | 4.59 | 3.2 | 164 |
| 20 | 16.85 | 7.86 | 1.049 | 12.96 | 4.45 | 2.9 | 167 |
| 25 | 16.87 | 7.85 | 1.044 | 13.04 | 4.38 | 1.9 | 167 |
| 30 | 16.87 | 7.86 | 1.041 | 13.05 | 4.31 | 1.0 | 167 |
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Purge Start Time: 1650 Purge End Time: 1720 Total Volume Purged: ~3.96 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, ~78°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 16.63 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 24.8 | ft TOR |
| **Date:** | 8 15 15 | **Feet of Water in Line:** | 8.17 | feet |
| **Well I.D.:** | MW-25 | **Volume of Water in Line:** | 0.04 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 16.72 | 7.82 | 1.168 | 12.90 | 6.32 | 426 | 156 |
| 10 | 16.73 | 7.83 | 1.102 | 12.93 | 6.05 | 85.3 | 155 |
| 15 | 16.73 | 7.81 | 1.087 | 12.91 | 5.82 | 56.2 | 156 |
| 20 | 16.73 | 7.81 | 1.094 | 12.95 | 5.38 | 44.7 | 157 |
| 25 | 16.73 | 7.82 | 1.101 | 12.95 | 5.35 | 39.5 | 155 |
| 30 | 16.73 | 7.82 | 1.107 | 12.98 | 5.34 | 28.2 | 156 |
| 35 | 16.73 | 7.81 | 1.105 | 13.07 | 5.38 | 25.3 | 154 |
| 40 | 16.73 | 7.80 | 1.110 | 13.11 | 5.40 | 21.8 | 153 |
| 45 | 16.73 | 7.81 | 1.109 | 13.10 | 5.43 | 19.1 | 155 |
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Purge Start Time: 1535 Purge End Time: 1620 Total Volume Purged: ~4.76 gal

Approximate Purge Rate: 400 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny

Comments: _____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 12.63 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 19.5 | ft TOR |
| **Date:** | 8/5/15 | **Feet of Water in Line:** | 6.87 | feet |
| **Well I.D.:** | MW-105 | **Volume of Water in Line:** | 0.03 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 12.68 | 7.45 | 1.022 | 14.27 | 5.71 | 294 | 142 |
| 10 | 12.68 | 7.62 | 1.028 | 13.95 | 5.37 | 81.0 | 115 |
| 15 | 12.75 | 7.58 | 1.024 | 13.94 | 5.25 | 56.9 | 104 |
| 20 | 12.75 | 7.62 | 1.020 | 14.21 | 5.09 | 44.3 | 97 |
| 25 | 12.75 | 7.60 | 1.024 | 14.32 | 5.00 | 39.8 | 94 |
| 30 | 12.75 | 7.62 | 1.020 | 14.24 | 4.97 | 33.1 | 94 |
| 35 | 12.75 | 7.70 | 1.018 | 14.22 | 4.93 | [redacted]15.1 | 94 |
| 40 | 12.75 | 7.70 | 1.021 | 14.19 | 4.92 | 9.4 | 94 |
| 45 | 12.75 | 7.68 | 1.021 | 14.21 | 4.93 | 8.9 | 93 |
| 50 | 12.75 | 7.67 | 1.020 | 14.17 | 4.90 | 7.1 | 94 |
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Purge Start Time: 1400 Purge End Time: 1450 Total Volume Purged: ~6.6 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, 78°F

Comments: MS/MSD/DUP-1 were also sampled

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.89 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 28.55 | ft TOR |
| **Date:** | 8/5/15 | **Feet of Water in Line:** | 17.66 | feet |
| **Well I.D.:** | CW-35 | **Volume of Water in Line:** | 0.08 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 10.89 | 7.49 | 0.948 | 13.71 | 7.00 | 29.4 | 125 |
| 10 | 10.90 | 7.60 | 0.948 | 12.06 | 7.20 | 30.1 | 126 |
| 15 | 10.91 | 7.82 | 0.950 | 12.13 | 6.55 | 15.0 | 116 |
| 20 | 10.91 | 7.86 | 0.947 | 12.24 | 6.48 | 13.1 | 112 |
| 25 | 10.91 | 7.89 | 0.948 | 12.17 | 6.46 | 10.7 | 110 |
| 30 | 10.91 | 7.91 | 0.948 | 12.17 | 6.47 | 9.1 | 107 |
| 35 | 10.91 | 7.90 | 0.946 | 12.11 | 6.45 | 8.6 | 107 |
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Purge Start Time: 1250 Purge End Time: 1325 Total Volume Purged: ~4.62 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, 80°F

Comments: _____

_____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.30 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 48.0 | ft TOR |
| **Date:** | 8 15 15 | **Feet of Water in Line:** | 37.7 | feet |
| **Well I.D.:** | CW-3D | **Volume of Water in Line:** | 0.18 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 10.32 | 6.99 | 0.946 | 12.13 | 10.53 | 196.7 | 148 |
| 10 | 10.32 | 7.74 | 0.935 | 11.88 | 6.33 | 104 | 28 |
| 15 | 10.32 | 7.84 | 0.940 | 11.83 | 6.38 | 46.5 | 21 |
| 20 | 10.32 | 7.84 | 0.939 | 11.93 | 6.33 | 31.0 | 29 |
| 25 | 10.32 | 7.87 | 0.943 | 12.18 | 6.38 | 25.6 | 32 |
| 30 | 10.34 | 7.88 | 0.942 | 12.22 | 6.24 | 21.3 | 35 |
| 35 | 10.34 | 7.91 | 0.940 | 12.17 | 6.21 | 20.4 | 33 |
| 40 | 10.34 | 7.88 | 0.941 | 12.11 | 6.21 | 19.7 | 33 |
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Purge Start Time: 1155 Purge End Time: 1235 Total Volume Purged: ~5.28 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: KMS

Weather Conditions: partly cloudy, ~78°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 8.61 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | ~~95.5~~ 95.5 ft TOR |
| **Date:** | 8/5/15 | **Feet of Water in Line:** | ~~86.89~~ 86.89 feet |
| **Well I.D.:** | MW-113D | **Volume of Water in Line:** | 0.43 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 8.61 | 7.60 | 1.438 | 13.96 | 5.97 | 156 | 199 |
| 10 | 8.65 | 7.65 | 1.437 | 13.81 | 5.89 | 105 | 188 |
| 15 | 8.66 | 7.67 | 1.439 | 13.85 | 5.84 | 70.8 | 179 |
| 20 | 8.65 | 7.71 | 1.423 | 13.64 | 5.85 | 57.8 | 145 |
| 25 | 8.65 | 7.71 | 1.422 | 13.95 | 5.82 | 45.1 | 110 |
| 30 | 8.65 | 7.69 | 1.425 | 13.84 | 5.78 | 40.9 | 83 |
| 35 | 8.65 | 7.65 | 1.426 | 13.89 | 5.77 | 37.4 | 81 |
| 40 | 8.65 | 7.64 | 1.429 | 13.92 | 5.76 | 35.6 | 81 |
| 45 | 8.65 | 7.69 | 1.431 | 13.89 | 5.76 | 33.2 | 80 |
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Purge Start Time: 1045 Purge End Time: 1130 Total Volume Purged: ~5.35 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, 280°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.65 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 20.70 | ft TOR |
| **Date:** | 8 15 15 | **Feet of Water in Line:** | 10.05 | feet |
| **Well I.D.:** | MW-75 | **Volume of Water in Line:** | 0.05 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 10.65 | 7.35 | 1.56 | 14.07 | 6.66 | 98.3 | 116 |
| 10 | 10.67 | 7.53 | 1.56 | 14.01 | 6.68 | 49.9 | 122 |
| 15 | 10.67 | 7.57 | 1.57 | 14.02 | 6.69 | 21.8 | 124 |
| 20 | 10.68 | 7.55 | 1.57 | 14.39 | 6.69 | 18.7 | 129 |
| 25 | 10.70 | 7.56 | 1.57 | 14.38 | 6.64 | 15.4 | 131 |
| 30 | 10.70 | 7.59 | 1.57 | 14.35 | 6.70 | 15.0 | 133 |
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Purge Start Time: 0940 Purge End Time: 1010 Total Volume Purged: ~3.96 gal

Approximate Purge Rate: 560 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, ~78°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.93 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 57.0 ft TOR |
| **Date:** | 8 15 15 | **Feet of Water in Line:** | 46.07 feet |
| **Well I.D.:** | MW-7D | **Volume of Water in Line:** | 0.25 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 10.94 | 6.81 | 1.450 | 14.09 | 5.41 | 94.8 | 210 |
| 10 | 10.94 | 7.39 | 1.449 | 14.15 | 5.45 | 49.4 | 162 |
| 15 | 10.94 | 7.46 | 1.450 | 14.19 | 5.48 | 23.0 | 142 |
| 20 | 10.94 | 7.53 | 1.455 | 14.25 | 5.46 | 9.9 | 127 |
| 25 | 10.94 | 7.53 | 1.449 | 14.22 | 5.50 | 9.5 | 127 |
| 30 | 10.94 | 7.55 | 1.450 | 14.19 | 5.47 | 9.1 | 126 |
| 35 | 10.94 | 7.53 | 1.452 | 14.20 | 5.46 | 8.8 | 124 |
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Purge Start Time: 0850 Purge End Time: 0925 Total Volume Purged: ~3.23 gal

Approximate Purge Rate: 350 ml/min Purged/Sampled By: KMS

Weather Conditions: Partly cloudy ~ 74°F

Comments: _____

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.52 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 51.00 | ft TOR |
| **Date:** | 8 16 15 | **Feet of Water in Line:** | | feet |
| **Well I.D.:** | MW-150 | **Volume of Water in Line:** | | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 13.52 | 6.99 | 1.14 | 20.21 | 1.98 | 275 | 152 |
| 10 | 13.52 | 7.03 | 1.14 | 19.02 | 1.88 | 234 | 150 |
| 15 | 13.52 | 7.10 | 1.12 | 18.26 | 1.98 | 227 | 145 |
| 20 | 13.55 | 7.06 | 1.15 | 18.19 | 2.08 | 219 | 147 |
| 25 | 13.53 | 7.07 | 1.15 | 18.11 | 1.99 | 212 | 143 |
| 30 | 13.53 | 7.05 | 1.17 | 18.15 | 2.05 | 214 | 144 |
| 35 | 13.53 | 7.06 | 1.17 | 18.12 | 2.01 | 208 | 143 |
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Purge Start Time: 1440 Purge End Time: 1515 Total Volume Purged: ~ gal

Approximate Purge Rate: 150 ml/min Purged/Sampled By: KMS

Weather Conditions: Partly cloudy, ~75°F breezy

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.71 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 22.0 | ft TOR |
| **Date:** | 8/16/15 | **Feet of Water in Line:** | 8.29 | feet |
| **Well I.D.:** | MW-155 | **Volume of Water in Line:** | 0.02 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 13.71 | 7.02 | 1.24 | 21.02 | 8.09 | >1000 | 128 |
| 10 | 13.71 | 6.85 | 1.27 | 17.88 | 9.04 | >1000 | 147 |
| 15 | 13.71 | 6.97 | 1.28 | 18.16 | 6.39 | >1000 | 146 |
| 20 | 13.71 | 6.87 | 1.27 | 17.64 | 6.34 | >1000 | 147 |
| 25 | 13.71 | 6.89 | 1.28 | 17.05 | 6.33 | >1000 | 150 |
| 30 | 13.71 | 6.91 | 1.27 | 17.11 | 6.27 | >1000 | 148 |
| 35 | 13.73 | 6.87 | 1.28 | 17.10 | 6.34 | >1000 | 151 |
| 40 | 13.73 | 6.92 | 1.28 | 17.05 | 6.30 | >1000 | 146 |
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Purge Start Time: 1350 Purge End Time: 1430 Total Volume Purged: ~1.59 gal

Approximate Purge Rate: 150 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, ~75°F breeze

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | ¼ | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.61 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 52.0 | ft TOR |
| **Date:** | 8/16/15 | **Feet of Water in Line:** | 40.39 | feet |
| **Well I.D.:** | MW-16D | **Volume of Water in Line:** | 0.09 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 11.61 | 6.93 | 1.09 | 17.52 | 5.88 | >1000 | 137 |
| 10 | 11.61 | 6.91 | 1.09 | 16.41 | 8.81 | 911 | 140 |
| 15 | 11.63 | 6.90 | 1.10 | 16.41 | 8.48 | 818 | 140 |
| 20 | 11.63 | 6.97 | 1.09 | 16.47 | 7.71 | 566 | 139 |
| 25 | 11.63 | 6.92 | 1.09 | 16.39 | 7.81 | 560 | 139 |
| 30 | 11.63 | 6.89 | 1.10 | 16.31 | 7.85 | 540 | 135 |
| 35 | 11.63 | 6.94 | 1.10 | 16.26 | 7.77 | 290 | 133 |
| 40 | 11.63 | 6.96 | 1.10 | 16.21 | 7.76 | 280 | 132 |
| 45 | 11.63 | 6.98 | 1.10 | 16.27 | 7.71 | 271 | 133 |
| 50 | 11.63 | 6.95 | 1.09 | 16.19 | 7.72 | 264 | 133 |
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Purge Start Time: 1250 Purge End Time: ~~1350~~ 1340 Total Volume Purged: ~3.96 gal

Approximate Purge Rate: 300 ml/min Purged/Sampled By: KMS

Weather Conditions: Partly cloudy ~75°F

Comments:

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.33 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 22.0 | ft TOR |
| **Date:** | 8/16/15 | **Feet of Water in Line:** | 10.67 | feet |
| **Well I.D.:** | MW-16S | **Volume of Water in Line:** | 0.05 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 11.33 | 6.72 | 1.22 | 16.08 | 8.64 | >1000 | 125 |
| 10 | 11.34 | 6.79 | 1.23 | 16.18 | 7.94 | >1000 | 122 |
| 15 | 11.34 | 6.73 | 1.24 | 15.77 | 6.03 | 725 | 127 |
| 20 | 11.34 | 6.70 | 1.24 | 15.68 | 7.53 | 446 | 131 |
| 25 | 11.35 | 6.72 | 1.24 | 15.61 | 6.02 | 352 | 126 |
| 30 | 11.36 | 6.75 | 1.24 | 15.73 | 6.67 | 278 | 123 |
| 35 | 11.36 | 6.78 | 1.24 | 15.77 | 6.73 | 236 | 125 |
| 40 | 11.37 | 6.77 | 1.23 | 15.77 | 6.75 | 195 | 130 |
| 45 | 11.37 | 6.76 | 1.24 | 15.83 | 6.71 | 188 | 130 |
| 50 | 11.37 | 6.72 | 1.24 | 15.79 | 6.72 | 179 | 128 |
| 55 | 11.37 | 6.78 | 1.23 | 15.81 | 6.74 | 170 | 128 |
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Purge Start Time: 1135 Purge End Time: 1230 Total Volume Purged: ~4.35 gal

Approximate Purge Rate: 300 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny / ~ 75°F, breeze

Comments: Horiba U-52 still Reading 0.0 NTU, using Hach 2100Q Turbidity meter w/ Horiba U-52 @ 20 min mark of purge Horiba U-52 NTU started to register still using HACH 2100Q for NTU readings

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.25 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 49.0 | ft TOR |
| **Date:** | 8/16/15 | **Feet of Water in Line:** | ~~34.75~~ | feet |
| **Well I.D.:** | MW-8D | **Volume of Water in Line:** | 0.17 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 14.25 | 6.07 | 1.02 | 15.26 | 4.81 | 0.0 | 171 |
| 10 | 14.25 | 6.64 | 1.02 | 14.54 | 4.45 | 0.0 | 103 |
| 15 | 14.25 | 6.71 | 1.03 | 14.13 | 4.36 | 0.0 | 93 |
| 20 | 14.25 | 6.74 | 1.03 | 13.80 | 4.31 | 0.0 | 90 |
| 25 | 14.27 | 6.78 | 1.02 | 13.93 | 4.26 | 0.0 | 87 |
| 30 | 14.24 | 6.83 | 1.03 | 13.98 | 4.25 | 0.0 | 84 |
| 35 | 14.24 | 6.80 | 1.03 | 13.86 | 4.30 | 0.0 | 82 |
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Purge Start Time: 1025 Purge End Time: 1100 Total Volume Purged: ~4.62 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: KMS

Weather Conditions: partly cloudy, ~74°F

Comments: Changed meter to U-52

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.40 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 24.35 | ft TOR |
| **Date:** | 8/16/15 | **Feet of Water in Line:** | 9.95 | feet |
| **Well I.D.:** | MW-8S | **Volume of Water in Line:** | 0.05 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 14.40 | 7.21 | 1.170 | 14.33 | 12.43 | 90.4 | 228 |
| 10 | 14.40 | 7.60 | 1.160 | 14.22 | 6.74 | 26.3 | 198 |
| 15 | 14.40 | 7.73 | 1.162 | 14.15 | 6.58 | 7.7 | 186 |
| 20 | 14.41 | 7.74 | 1.165 | 14.15 | 6.51 | 6.8 | 179 |
| 25 | 14.42 | 7.73 | 1.164 | 14.16 | 6.48 | 5.9 | 173 |
| 30 | 14.42 | 7.70 | 1.164 | 14.17 | 6.52 | 4.1 | 175 |
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Purge Start Time: ~~0825~~ 0825 Purge End Time: 0855 Total Volume Purged: ~3.96 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny, ~75°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 12.91 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 19.5 | ft TOR |
| **Date:** | 11/16/15 | **Feet of Water in Line:** | 6.59 | feet |
| **Well I.D.:** | MW-105 | **Volume of Water in Line:** | 0.03 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 12.91 | 7.38 | 1.006 | 14.02 | 8.27 | 567 | 92 |
| 10 | 12.91 | 7.46 | 1.003 | 13.91 | 6.60 | 118 | 73 |
| 15 | 12.91 | 7.45 | 1.002 | 13.87 | 6.55 | 51.4 | 61 |
| 20 | 12.93 | 7.44 | 1.001 | 13.80 | 6.19 | 36.9 | 56 |
| 25 | 12.93 | 7.44 | 1.003 | 13.85 | 6.25 | 26.9 | 55 |
| 30 | 12.93 | 7.42 | 1.001 | 13.81 | 6.22 | 25.3 | 52 |
| 35 | 12.93 | 7.44 | 1.002 | 13.84 | 6.19 | 24.6 | 52 |
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Purge Start Time: 1500 Purge End Time: 1535 Total Volume Purged: ~ 4.16 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By:

Weather Conditions: Sunny ~60°F

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.54 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 48.0 ft TOR |
| **Date:** | 11/16/15 | **Feet of Water in Line:** | 37.46 feet |
| **Well I.D.:** | CW-3D | **Volume of Water in Line:** | 0.18 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 10.55 | 7.57 | 0.965 | 12.51 | 6.62 | 34.4 | 9 |
| 10 | 10.55 | 7.68 | 0.963 | 12.51 | 6.45 | 14.8 | -14 |
| 15 | 10.57 | 7.73 | 0.972 | 12.53 | 6.06 | 8.9 | -19 |
| 20 | 16.57 | 7.75 | 0.976 | 12.52 | 5.99 | 9.2 | -14 |
| 25 | 16.57 | 7.77 | 0.972 | 12.54 | 5.95 | 6.7 | -13 |
| 30 | 10.58 | 7.78 | 0.971 | 12.55 | 6.01 | 6.2 | -10 |
| 35 | 16.58 | 7.77 | 0.972 | 12.54 | 6.07 | 6.4 | -9 |
| 40 | 10.58 | 7.76 | 0.971 | 12.55 | 6.04 | 6.0 | -7 |
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Purge Start Time: 1040 Purge End Time: 1120 Total Volume Purged: ~4.22 gal

Approximate Purge Rate: 400 ml/min Purged/Sampled By:

Weather Conditions: Sunny, 26°F

Comments:

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.25 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 28.55 ft TOR |
| **Date:** | 11/16/15 | **Feet of Water in Line:** | 17.3 feet |
| **Well I.D.:** | CW-35 | **Volume of Water in Line:** | 0.08 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| ~~11:27~~ 5 | 11.27 | 7.72 | 0.964 | 12.94 | 7.09 | 8.8 | 50 |
| 10 | 11.28 | 7.71 | 0.962 | 13.09 | 6.63 | 2.4 | 51 |
| 15 | 11.28 | 7.72 | 0.963 | 12.95 | 6.81 | 1.8 | 52 |
| 20 | 11.28 | 7.71 | 0.959 | 13.08 | 6.60 | 0.9 | 54 |
| 25 | 11.28 | 7.70 | 0.961 | 12.98 | 6.62 | 0.6 | 53 |
| 30 | 11.28 | 7.69 | 0.961 | 13.02 | 6.59 | 0.4 | 54 |
| 35 | 11.28 | 7.73 | 0.963 | 12.99 | 6.61 | 0.4 | 55 |

Purge Start Time: 1140 Purge End Time: 1215 Total Volume Purged: ~4.16 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By:

Weather Conditions: Sunny, ~ 62°F

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 9.89 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 95.5 ft TOR |
| **Date:** | 11/16/15 | **Feet of Water in Line:** | 85.61 feet |
| **Well I.D.:** | MW-113D | **Volume of Water in Line:** | 0.42 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| | Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|---|
| 1350 | 5 | 9.90 | 7.02 | 1.52 | 13.97 | 6.07 | 53.4 | 176 |
| 1355 | 10 | 9.90 | 7.23 | 1.52 | 13.46 | 6.22 | 45.1 | 172 |
| 1400 | 15 | 9.93 | 7.26 | 1.53 | 13.44 | 6.14 | 21.0 | 152 |
| 1405 | 20 | 9.94 | 7.25 | 1.53 | 13.47 | 6.10 | 10.3 | 139 |
| 1410 | 25 | 9.94 | 7.24 | 1.53 | 13.49 | 6.16 | 9.5 | 135 |
| 1415 | 30 | 9.94 | 7.24 | 1.53 | 13.49 | 6.11 | 4.5 | 136 |
| 1420 | 35 | 9.94 | 7.25 | 1.53 | 13.50 | 6.13 | 4.7 | 135 |
| 1425 | 40 | 9.94 | 7.25 | 1.52 | 13.48 | 6.15 | 4.4 | 137 |
| 1430 | 45 | 9.94 | 7.25 | 1.53 | 13.49 | 6.11 | 3.9 | 135 |
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Purge Start Time: 1345 Purge End Time: 1430 Total Volume Purged: ~4.25 gal

Approximate Purge Rate: 400 ml/min Purged/Sampled By:

Weather Conditions: Sunny ~60°F

Comments:

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 16.95 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 24.8 | ft TOR |
| **Date:** | 9/ 11/7/ 15 | **Feet of Water in Line:** | 7.85 | feet |
| **Well I.D.:** | MW-95 | **Volume of Water in Line:** | 0.04 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 16.95 | 7.91 | 1.014 | 13.34 | 6.01 | 268 | 133 |
| 10 | 16.95 | 7.72 | 1.055 | 13.20 | 5.31 | 106 | 131 |
| 15 | 16.96 | 7.62 | 1.098 | 13.45 | 5.23 | 61.9 | 127 |
| 20 | 16.96 | 7.59 | 1.104 | 13.44 | 5.19 | 63.5 | 127 |
| 25 | 16.97 | 7.56 | 1.143 | 13.40 | 5.16 | 53.3 | 123 |
| 30 | 16.97 | 7.55 | 1.147 | 13.38 | 5.20 | 51.7 | 123 |
| 35 | 16.98 | 7.51 | 1.149 | 13.43 | 5.21 | 50.2 | 122 |
| 40 | 16.98 | 7.48 | 1.145 | 13.41 | 5.30 | 48.4 | 125 |
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Purge Start Time: 0920 Purge End Time: 1000 Total Volume Purged: ~4.75 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By:

Weather Conditions: Sunny, ~55°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 17.05 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 41.6 ft TOR |
| **Date:** | 11/17/15 | **Feet of Water in Line:** | 24.55 feet |
| **Well I.D.:** | MW-9D | **Volume of Water in Line:** | 0.12 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 17.05 | 7.54 | 1.013 | 12.39 | 6.89 | 10.8 | 112 |
| 10 | 17.05 | 7.58 | 1.016 | 12.45 | 6.26 | 6.4 | 110 |
| 15 | 17.07 | 7.61 | 1.014 | 12.37 | 5.42 | 1.8 | 108 |
| 20 | 17.08 | 7.63 | 1.013 | 12.41 | 5.38 | 1.1 | 107 |
| 25 | 17.08 | 7.61 | 1.014 | 12.47 | 5.43 | 0.7 | 106 |
| 30 | 17.10 | 7.61 | 1.012 | 12.45 | 5.39 | 0.5 | 105 |
| 35 | 17.16 | 7.63 | 1.014 | 12.44 | 5.34 | 0.5 | 106 |
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Purge Start Time: 1105 Purge End Time: 1140 Total Volume Purged: ~4.16 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By:

Weather Conditions: _____

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.74 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 24.35 | ft TOR |
| **Date:** | 11/17/15 | **Feet of Water in Line:** | 9.61 | feet |
| **Well I.D.:** | MW-85 | **Volume of Water in Line:** | 0.05 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 14.74 | 7.24 | 1.083 | 13.84 | 8.94 | 32.1 | 110 |
| 10 | 14.74 | 7.49 | 1.071 | 14.05 | 6.96 | 11.5 | 97 |
| 15 | 14.74 | 7.60 | 1.069 | 14.07 | 6.98 | 10.6 | 94 |
| 20 | 14.74 | 7.60 | 1.071 | 14.02 | 6.97 | 8.8 | 93 |
| 25 | 14.75 | 7.58 | 1.073 | 14.06 | 7.00 | 6.4 | 92 |
| 30 | 14.75 | 7.56 | 1.070 | 14.06 | 7.02 | 6.2 | 91 |
| 35 | 14.75 | 7.57 | 1.072 | 14.02 | 6.97 | 5.8 | 92 |
| 40 | 14.75 | 7.57 | 1.072 | 14.01 | 6.95 | 5.5 | 90 |
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Purge Start Time: 1215 Purge End Time: 1255 Total Volume Purged: ~3.96 gal

Approximate Purge Rate: 375 ml/min Purged/Sampled By:

Weather Conditions: Sunny ~50°F

Comments: MS/MSD also sampled

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 14.60 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 49.0 ft TOR |
| **Date:** | 11/17/15 | **Feet of Water in Line:** | 34.4 feet |
| **Well I.D.:** | MW-8D | **Volume of Water in Line:** | 0.17 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/c) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 14.62 | 7.50 | 1.057 | 13.19 | 5.69 | 138 | 36 |
| 10 | 14.62 | 7.60 | 1.049 | 13.15 | 5.16 | 48.1 | 23 |
| 15 | 14.63 | 7.63 | 1.050 | 13.14 | 4.68 | 15.7 | 15 |
| 20 | 14.63 | 7.65 | 1.051 | 13.14 | 4.61 | 11.8 | 14 |
| 25 | 14.63 | 7.64 | 1.052 | 13.21 | 4.58 | 9.7 | 14 |
| 30 | 14.64 | 7.62 | 1.051 | 13.17 | 4.54 | 9.0 | 15 |
| 35 | 14.64 | 7.63 | 1.050 | 13.16 | 4.50 | 8.6 | 15 |
| 40 | 14.64 | 7.62 | 1.050 | 13.10 | 4.48 | 8.1 | 14 |
| 45 | 14.64 | 7.60 | 1.051 | 13.09 | 4.47 | 7.9 | 13 |
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Purge Start Time: 1315 Purge End Time: 1400 Total Volume Purged: ~5.35 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By:

Weather Conditions:

Comments: DUP-1 also collected

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.02 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 20.70 | ft TOR |
| **Date:** | 11 / 17 / 15 | **Feet of Water in Line:** | 9.68 | feet |
| **Well I.D.:** | MW-75 | **Volume of Water in Line:** | 0.04 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 11.02 | 7.28 | 1.298 | 13.55 | 9.87 | 28.5 | 72 |
| 10 | 11.02 | 7.45 | 1.270 | 13.57 | 7.45 | 7.7 | 68 |
| 15 | 11.02 | 7.57 | 1.272 | 13.64 | 7.12 | 5.4 | 70 |
| 20 | 11.03 | 7.50 | 1.271 | 13.64 | 7.35 | 4.5 | 71 |
| 25 | 11.03 | 7.55 | 1.275 | 13.63 | 7.27 | 3.1 | 73 |
| 30 | 11.03 | 7.51 | 1.272 | 13.59 | 7.28 | 2.2 | 73 |
| 35 | 11.03 | 7.49 | 1.273 | 13.61 | 7.21 | 1.7 | 73 |
| 40 | 11.03 | 7.47 | 1.271 | 13.63 | 7.25 | 1.9 | 74 |
| 45 | 11.05 | 7.49 | 1.271 | 13.66 | 7.19 | 1.1 | 75 |
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Purge Start Time: 1420 Purge End Time: 1505 Total Volume Purged: ~5.35 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By:

Weather Conditions: Sunny ~ 57°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.28 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 57.00 | ft TOR |
| **Date:** | 11 / 12 / 15 | **Feet of Water in Line:** | 45.72 | feet |
| **Well I.D.:** | MW-7D | **Volume of Water in Line:** | 0.22 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 11.28 | 7.33 | 1.242 | 12.94 | 6.39 | 21.1 | 36 |
| 10 | 11.28 | 7.45 | 1.245 | 12.92 | 6.19 | 12.6 | 11 |
| 15 | 11.28 | 7.49 | 1.243 | 12.92 | 5.98 | 4.8 | 10 |
| 20 | 11.28 | 7.49 | 1.245 | 12.88 | 5.89 | 2.7 | 13 |
| 25 | 11.28 | 7.50 | 1.244 | 12.84 | 5.88 | 1.1 | 13 |
| 30 | 11.29 | 7.52 | 1.242 | 12.85 | 5.83 | 2.3 | 11 |
| 35 | 11.29 | 7.51 | 1.243 | 12.80 | 5.85 | 2.4 | 14 |
| 40 | 11.29 | 7.50 | 1.242 | 12.85 | 5.88 | 1.7 | 14 |
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Purge Start Time: 1515 Purge End Time: 1555 Total Volume Purged: ~ _____ gal

Approximate Purge Rate: 375 ml/min Purged/Sampled By:

Weather Conditions: Sunny ~ 55°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.65 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 22.0 | ft TOR |
| **Date:** | 11/19/15 | **Feet of Water in Line:** | 10.35 | feet |
| **Well I.D.:** | ~~MW~~-165 | **Volume of Water in Line:** | 0.02 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 11.65 | 7.32 | 1.328 | 14.04 | 6.79 | 190 | 112 |
| 10 | 11.66 | 7.20 | 1.320 | 13.91 | 6.71 | 159 | 116 |
| 15 | 11.66 | 7.34 | 1.308 | 13.71 | 6.83 | 230 | 106 |
| 20 | 11.66 | 7.61 | 1.315 | 13.72 | 6.63 | 241 | ~~102~~ 98 |
| 25 | 11.66 | 7.32 | 1.319 | 13.71 | 6.70 | 247 | 104 |
| 30 | 11.66 | 7.38 | 1.313 | 13.72 | 6.71 | 232 | 107 |
| 35 | 11.67 | 7.32 | 1.317 | 13.70 | 6.66 | 225 | 111 |
| 40 | 11.67 | 7.27 | 1.316 | 13.70 | 6.67 | 217 | 114 |
| 45 | 11.67 | 7.31 | 1.317 | 13.72 | 6.63 | 212 | 110 |
| 50 | 11.67 | 7.34 | 1.317 | 13.71 | 6.65 | 201 | 108 |
| 55 | 11.67 | 7.29 | 1.315 | 13.71 | 6.60 | 194 | 111 |
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Purge Start Time: 1010 Purge End Time: 1105 Total Volume Purged: ~4.72 gal

Approximate Purge Rate: 325 ml/min Purged/Sampled By: K. Stecko

Weather Conditions: Overcast, ~60°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.01 ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 22.00 ft TOR |
| **Date:** | 11/19/15 | **Feet of Water in Line:** | 8.99 feet |
| **Well I.D.:** | MW-155 | **Volume of Water in Line:** | ~~0.03~~ 0.02 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 13.01 | 7.25 | 1.296 | 14.46 | 6.85 | 776 | 131 |
| 10 | 13.01 | 7.32 | 1.313 | 14.43 | 6.42 | 847 | 127 |
| 15 | 13.01 | 6.93 | 1.326 | 14.19 | 5.97 | 924 | 143 |
| 20 | 13.01 | 6.71 | 1.319 | 14.19 | 5.33 | 728 | 155 |
| 25 | 13.01 | 6.66 | 1.320 | 14.12 | 5.16 | 514 | 163 |
| 30 | 13.01 | 6.66 | 1.319 | 14.07 | 5.34 | 400 | 163 |
| 35 | 13.01 | 6.65 | 1.310 | 13.94 | 5.31 | 314 | 165 |
| 40 | 13.02 | 6.63 | 1.308 | 13.92 | 5.27 | 285 | 166 |
| 45 | 13.02 | 6.64 | 1.308 | 13.90 | 5.34 | 271 | 168 |
| 50 | 13.02 | 6.67 | 1.308 | 13.85 | 5.29 | 261 | 167 |
| 55 | 13.02 | 6.64 | 1.307 | 13.85 | 5.26 | 255 | 170 |
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Purge Start Time: 1245 Purge End Time: 1340 Total Volume Purged: ~3.63 gal

Approximate Purge Rate: 250 ml/min Purged/Sampled By: K. Stech

Weather Conditions: Drizzle, ~60°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 inches |
| **Project No.:** | 96206 | **Depth to Water:** | ~~52.00~~ 11.87 ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 52.00 ft TOR |
| **Date:** | 11/19/15 | **Feet of Water in Line:** | 40.13 feet |
| **Well I.D.:** | MW-16D | **Volume of Water in Line:** | 0.09 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 11.91 | 7.50 | 1.158 | 14.16 | 4.94 | 594 | 118 |
| 10 | 11.91 | 7.63 | 1.165 | 14.11 | 4.40 | 520 | 114 |
| 15 | 11.91 | 7.72 | 1.166 | 13.84 | 4.36 | 428 | 111 |
| 20 | 11.92 | 7.73 | 1.168 | 13.96 | 4.11 | 383 | 110 |
| 25 | 11.92 | 7.77 | 1.169 | 13.91 | 4.43 | 377 | 107 |
| 30 | 11.92 | 7.76 | 1.171 | 14.02 | 4.16 | 345 | 106 |
| 35 | 11.92 | 7.78 | 1.169 | 14.01 | 4.20 | 312 | 107 |
| 40 | 11.92 | 7.77 | 1.167 | 13.97 | 4.16 | 320 | 104 |
| 45 | 11.92 | 7.78 | 1.165 | 13.99 | 4.18 | 308 | 103 |
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Purge Start Time: 1130 Purge End Time: 1215 Total Volume Purged: ~3.57 gal

Approximate Purge Rate: 300 ml/min Purged/Sampled By: K. Steck

Weather Conditions: drizzle ~60°F

Comments: _____

_____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | ¼ inches |
| **Project No.:** | 96206 | **Depth to Water:** | 12.82 ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 51.00 ft TOR |
| **Date:** | 11/19/15 | **Feet of Water in Line:** | 38.18 feet |
| **Well I.D.:** | MW-15D | **Volume of Water in Line:** | 0.09 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 5 | 12.82 | 7.46 | 0.852 | 14.35 | 3.02 | 198 | 116 |
| 10 | 12.82 | 7.51 | 1.135 | 14.06 | 3.49 | 153 | 120 |
| 15 | 12.82 | 7.43 | 1.226 | 14.01 | 3.99 | 125 | 118 |
| 20 | 12.82 | 6.83 | 1.241 | 13.93 | 3.90 | 110 | 149 |
| 25 | 12.82 | 6.79 | 1.235 | 13.89 | 3.84 | 127 | 151 |
| 30 | 12.82 | 6.73 | 1.239 | 13.83 | 3.90 | 112 | 154 |
| 35 | 12.83 | 6.69 | 1.238 | 13.80 | 3.88 | 107 | 153 |
| 40 | 12.83 | 6.58 | 1.240 | 13.78 | 3.93 | 101 | 154 |
| 45 | 12.83 | 6.64 | 1.242 | 13.81 | 3.90 | 98 | 152 |
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Purge Start Time: 1406 Purge End Time: 1445 Total Volume Purged: ~2.37 gal

Approximate Purge Rate: 200 ml/min Purged/Sampled By: K. Steck

Weather Conditions: Drizzle, ~60°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 7.78 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 95.15 | ft TOR |
| **Date:** | 2 12 8 16 | **Feet of Water in Line:** | 87.72 | feet |
| **Well I.D.:** | MW-113D | **Volume of Water in Line:** | 0.43 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0905 | 7.78 | 7.38 | 1.456 | 11.60 | 5.55 | 18.8 | 101 |
| 0910 | 7.78 | 7.46 | 1.465 | 11.54 | 5.61 | 19.3 | 121 |
| 0915 | 7.78 | 7.46 | 1.462 | 11.52 | 5.23 | 15.6 | 110 |
| 0920 | 7.78 | 7.46 | 1.464 | 11.72 | 5.08 | 13.4 | 118 |
| 0925 | ~~7.78~~ 7.80 | 7.43 | 1.464 | 11.40 | 5.64 | 12.5 | 113 |
| 0930 | 7.80 | 7.39 | 1.470 | 11.38 | 5.09 | 11.9 | 110 |
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Purge Start Time: 0900 Purge End Time: 0930 Total Volume Purged: ~2.97 gal

Approximate Purge Rate: 375 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny ~ 30°F

Comments: _____

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.20 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 28.55 | ft TOR |
| **Date:** | 2/23/16 | **Feet of Water in Line:** | 18.35 | feet |
| **Well I.D.:** | CW-35 | **Volume of Water in Line:** | 0.09 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1005 | 10.20 | 7.31 | 0.911 | 11.78 | 6.52 | 31.7 | 152 |
| 1010 | 10.22 | 7.47 | 0.901 | 11.59 | 6.18 | 8.7 | 148 |
| 1015 | 10.22 | 7.48 | 0.916 | 11.61 | 6.07 | 5.6 | 144 |
| 1020 | 10.22 | 7.48 | 0.912 | 11.54 | 6.00 | 4.0 | 145 |
| 1025 | 10.22 | 7.48 | 0.914 | 11.50 | 5.97 | 3.7 | 147 |
| 1030 | 10.22 | 7.47 | 0.915 | 11.41 | 5.88 | 3.3 | 151 |
| 1035 | 10.22 | 7.46 | 0.916 | 11.42 | 5.98 | 3.5 | 158 |
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Purge Start Time: 1000 Purge End Time: 1035 Total Volume Purged: ~3.70 gal

Approximate Purge Rate: 400 ml/min Purged/Sampled By:

Weather Conditions: Sunny, ~30°F

Comments: MS/MSD & DUP-2 also collected

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 9.41 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 48.0 | ft TOR |
| **Date:** | 2 123 116 | **Feet of Water in Line:** | 38.49 | feet |
| **Well I.D.:** | CW-30 | **Volume of Water in Line:** | 0.19 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1120 | 9.41 | 7.29 | 0.940 | 11.71 | 6.32 | 11.0 | 162 |
| 1125 | 9.41 | 7.43 | 0.940 | 11.73 | 5.92 | 11.1 | 130 |
| 1130 | 9.41 | 7.45 | 0.939 | 11.73 | 6.01 | 11.0 | 120 |
| 1135 | 9.51 | 7.45 | 0.936 | 11.76 | 5.74 | 10.1 | 117 |
| 1140 | 9.51 | 7.45 | 0.937 | 11.74 | 5.70 | 7.1 | 115 |
| 1145 | 9.51 | 7.46 | 0.935 | 11.79 | 5.76 | 5.0 | 110 |
| 1150 | 9.51 | 7.46 | 0.933 | 11.73 | 5.75 | 4.1 | 110 |
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Purge Start Time: 1115 Purge End Time: 1150 Total Volume Purged: ~ 3.47 gal

Approximate Purge Rate: 375 ml/min Purged/Sampled By:

Weather Conditions: Sunny ~ 38°F

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.86 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 19.5 | ft TOR |
| **Date:** | 2 123116 | **Feet of Water in Line:** | 7.64 | feet |
| **Well I.D.:** | MW-16S | **Volume of Water in Line:** | 0.03 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1245 | 11.86 | 7.32 | 0.964 | 10.20 | 7.42 | 123 | 164 |
| 1250 | 11.90 | 7.35 | 0.973 | 10.17 | 7.15 | 46.3 | 164 |
| 1255 | 11.90 | 7.36 | 0.973 | 10.19 | 6.69 | 32.2 | 163 |
| 1300 | 11.90 | 7.36 | 0.973 | 10.18 | 6.67 | 22.1 | 162 |
| 1305 | 11.90 | 7.37 | 0.983 | 9.49 | 6.73 | 17.7 | 164 |
| 1310 | 11.91 | 7.36 | 0.985 | 10.15 | 6.71 | 17.7 | 163 |
| 1315 | 11.91 | 7.36 | 0.982 | 10.14 | 6.77 | 16.9 | 162 |
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Purge Start Time: 1240 Purge End Time: 1315 Total Volume Purged: ~ 3.70 gal

Approximate Purge Rate: 400 ml/min Purged/Sampled By: K. Steck

Weather Conditions: Sunny ~ 38°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.46 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 22.0 | ft TOR |
| **Date:** | 2/23/16 | **Feet of Water in Line:** | 11.54 | feet |
| **Well I.D.:** | MW-165 | **Volume of Water in Line:** | 0.02 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1355 | 10.50 | 7.14 | 1.245 | 10.08 | 6.50 | 133 | 181 |
| 1400 | 10.50 | 6.81 | 1.240 | 11.95 | 5.67 | 73.1 | 186 |
| 1405 | 10.51 | 6.80 | 1.240 | 12.03 | 5.50 | 43.8 | 187 |
| 1410 | 10.51 | 6.85 | 1.246 | 12.12 | 5.46 | 28.5 | 187 |
| 1415 | 10.51 | 6.89 | 1.245 | 12.09 | 5.41 | 28.2 | 190 |
| 1420 | 10.51 | 6.84 | 1.243 | 12.11 | 5.39 | 27.4 | 190 |
| 1425 | 10.51 | 6.85 | 1.243 | 12.13 | 5.34 | 26.9 | 191 |
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Purge Start Time: 1350 Purge End Time: 1425 Total Volume Purged: ~2.54 gal

Approximate Purge Rate: 275 ml/min Purged/Sampled By: KMS

Weather Conditions: Sunny ~ 38°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.33 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 57.0 | ft TOR |
| **Date:** | 2/23/16 | **Feet of Water in Line:** | 46.67 | feet |
| **Well I.D.:** | MW-7D | **Volume of Water in Line:** | 0.23 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1505 | 10.38 | 6.64 | 1.352 | 11.53 | 4.60 | 21.3 | 212 |
| 1510 | 10.38 | 7.33 | 1.363 | 11.32 | 4.73 | 9.6 | 138 |
| 1515 | 10.38 | 7.37 | 1.349 | 11.95 | 4.52 | 6.8 | 123 |
| 1520 | 10.39 | 7.38 | 1.359 | 11.52 | 4.59 | 4.3 | 110 |
| 1525 | 10.39 | 7.38 | 1.351 | 11.56 | 4.93 | 4.1 | 108 |
| 1530 | 10.39 | 7.38 | 1.353 | 11.40 | 4.87 | 4.2 | 110 |
| 1535 | 10.39 | 7.38 | 1.350 | 11.59 | 4.81 | 3.9 | 111 |
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Purge Start Time: 1500 Purge End Time: 1535 Total Volume Purged: ~2.77 gal

Approximate Purge Rate: ~300 ml/min Purged/Sampled By: K. Steck

Weather Conditions: overcast, ~33°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.03 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 20.7 | ft TOR |
| **Date:** | 2/23/16 | **Feet of Water in Line:** | 10.67 | feet |
| **Well I.D.:** | MW-7S | **Volume of Water in Line:** | 0.05 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1550 | 10.03 | 7.38 | 1.370 | 12.21 | 6.53 | 26.3 | 146 |
| 1555 | 10.10 | 7.39 | 1.370 | 12.14 | 6.44 | 9.8 | 151 |
| 1600 | 10.10 | 7.39 | 1.371 | 12.16 | 5.72 | 6.6 | 156 |
| 1605 | 10.11 | 7.39 | 1.371 | 12.12 | 5.90 | 6.3 | 160 |
| 1610 | 10.11 | 7.39 | 1.374 | 12.18 | 6.12 | 5.8 | 162 |
| 1615 | 10.11 | 7.38 | 1.376 | 12.17 | 5.98 | 5.5 | 167 |
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Purge Start Time: 1545 Purge End Time: 1615 Total Volume Purged: ~2.38 gal

Approximate Purge Rate: ~300 ml/min Purged/Sampled By: K. Steck

Weather Conditions: overcast, ~35°F

Comments: _____

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 16.00 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 24.8 | ft TOR |
| **Date:** | 2/24/16 | **Feet of Water in Line:** | 8.8 | feet |
| **Well I.D.:** | MW-95 | **Volume of Water in Line:** | 0.04 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0835 | 16.00 | 6.84 | 1.291 | 10.57 | 8.52 | 92.5 | 209 |
| 0840 | 16.05 | 7.30 | 1.153 | 12.02 | 7.74 | 189 | 196 |
| 0845 | 16.10 | 7.48 | 1.161 | 12.06 | 7.37 | 108 | 191 |
| 0850 | 16.10 | 7.50 | 1.180 | 12.04 | 7.10 | 53.2 | 188 |
| 0855 | 16.10 | 7.47 | 1.182 | 12.16 | 6.68 | 37.2 | 185 |
| 0900 | 16.10 | 7.46 | 1.190 | 12.17 | 6.61 | 37.4 | 184 |
| 0905 | 16.10 | 7.45 | 1.190 | 12.07 | 6.55 | 33.2 | 184 |
| 0910 | 16.10 | 7.43 | 1.181 | 11.99 | 6.53 | 31.4 | 183 |
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Purge Start Time: 0830 Purge End Time: 0910 Total Volume Purged: ~2.64 gal

Approximate Purge Rate: ~250 ml/min Purged/Sampled By: K. Steck

Weather Conditions: _____

Comments: _____

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 15.96 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 41.6 | ft TOR |
| **Date:** | 2 12 4 16 | **Feet of Water in Line:** | 25.7 | feet |
| **Well I.D.:** | MW-9D | **Volume of Water in Line:** | 0.13 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0925 | 15.91 | 7.40 | 1,071 | 10.91 | 4.96 | 12.8 | 193 |
| 0930 | 15.91 | 7.50 | 1,067 | 11.02 | 4.49 | 7.7 | 193 |
| 0935 | 15.92 | 7.51 | 1,056 | 11.05 | 4.24 | 6.0 | 194 |
| 0940 | 15.92 | 7.51 | 1,071 | 11.10 | 3.97 | 4.9 | 196 |
| 0945 | 15.92 | 7.50 | 1,070 | 11.01 | 3.85 | 4.4 | 197 |
| 0950 | 15.92 | 7.49 | 1,067 | 10.99 | 3.75 | 4.3 | 199 |
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Purge Start Time: 0920 Purge End Time: 0950 Total Volume Purged: ~2.18 gal

Approximate Purge Rate: ~275 ml/min Purged/Sampled By:

Weather Conditions: drizzle, ~38°F

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.56 ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 24.35 ft TOR |
| **Date:** | 2124116 | **Feet of Water in Line:** | 10.79 feet |
| **Well I.D.:** | MW-8S | **Volume of Water in Line:** | 0.05 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1125 | 13.57 | 7.51 | 1.193 | 12.18 | 7.40 | 8.6 | 158 |
| 1130 | 13.57 | 7.52 | 1.187 | 12.17 | 7.26 | 7.6 | 152 |
| 1135 | 13.58 | 7.52 | 1.193 | 11.86 | 6.84 | 4.8 | 147 |
| 1140 | 13.58 | 7.52 | 1.198 | 11.73 | 6.62 | 4.1 | 141 |
| 1145 | 13.58 | 7.52 | 1.191 | 12.08 | 6.60 | 3.6 | 140 |
| 1150 | 13.58 | 7.52 | 1.189 | 12.01 | 6.59 | 3.4 | 138 |
| 1155 | 13.59 | 7.53 | 1.190 | 11.92 | 6.44 | 3.7 | 135 |
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Purge Start Time: 1120 Purge End Time: 1155 Total Volume Purged: ~3.70 gal

Approximate Purge Rate: 2400 ml/min Purged/Sampled By:

Weather Conditions: Rain

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.41 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 49.0 | ft TOR |
| **Date:** | 2/24/16 | **Feet of Water in Line:** | 35.59 | feet |
| **Well I.D.:** | mw-8D | **Volume of Water in Line:** | 0.18 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1215 | 13.41 | 7.49 | 1.093 | 12.10 | 2.91 | 88.1 | 94 |
| 1220 | 13.41 | 7.50 | 1.114 | 10.98 | 2.83 | 61.4 | 102 |
| 1225 | 13.41 | 7.51 | 1.115 | 10.50 | 2.89 | 53.0 | 105 |
| 1230 | 13.41 | 7.51 | 1.117 | 9.96 | 2.93 | 50.6 | 108 |
| 1235 | 13.43 | 7.50 | 1.114 | 10.08 | 3.04 | 26.8 | 103 |
| 1240 | 13.43 | 7.49 | 1.101 | 10.01 | 3.08 | 19.5 | 98 |
| 1245 | 13.43 | 7.49 | 1.100 | 10.11 | 3.09 | 16.8 | 94 |
| 1250 | 13.43 | 7.50 | 1.102 | 10.07 | 3.05 | 14.8 | 95 |
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Purge Start Time: 1210 Purge End Time: 1250 Total Volume Purged: ~4.23 gal

Approximate Purge Rate: ~400 ml/min Purged/Sampled By:

Weather Conditions: Rain

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | ¼ inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.74 ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 52.00 ft TOR |
| **Date:** | 2 12/1/16 | **Feet of Water in Line:** | 41.26 feet |
| **Well I.D.:** | MW-16D | **Volume of Water in Line:** | 0.09 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1335 | 10.74 | 7.56 | 1.122 | 11.14 | 4.56 | ~2000 | 137 |
| 1340 | 10.74 | 7.51 | 1.119 | 11.30 | 4.19 | 1990 | 142 |
| 1345 | 10.74 | 7.47 | 1.121 | 11.41 | 4.20 | 1143 | 148 |
| 1350 | 10.74 | 7.25 | 1.122 | 11.46 | 4.09 | 835 | 151 |
| 1355 | 10.74 | 7.15 | 1.122 | 11.46 | 4.03 | 551 | 162 |
| 1400 | 10.75 | 7.14 | 1.125 | 11.41 | 4.07 | 422 | 165 |
| 1405 | 10.75 | 7.15 | 1.121 | 11.36 | 4.10 | 318 | 172 |
| 1410 | 10.75 | 7.19 | 1.123 | 11.47 | 4.14 | 256 | 172 |
| 1415 | 10.75 | 7.12 | 1.126 | 11.66 | 4.11 | 165 | 176 |
| 1420 | 10.75 | 7.14 | 1.128 | 11.67 | 4.01 | 156 | 178 |
| 1425 | 10.75 | 7.17 | 1.124 | 11.71 | 4.01 | 143 | 180 |
| 1430 | 10.75 | 7.19 | 1.128 | 11.74 | 4.09 | 139 | 181 |
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Purge Start Time: 1330 Purge End Time: 1430 Total Volume Purged: ~3.17 gal

Approximate Purge Rate: ~200 ml/min Purged/Sampled By:

Weather Conditions: Rain

Comments:

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.79 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | ~~22.0~~ | ft TOR |
| **Date:** | 2/24/16 | **Feet of Water in Line:** | 10.21 | feet |
| **Well I.D.:** | MW-15S | **Volume of Water in Line:** | 0.023 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1455 | 11.79 | 6.49 | 1.293 | 10.66 | 6.00 | 1255 | 198 |
| 1500 | 11.79 | 6.17 | 1.308 | 11.79 | 5.54 | 1076 | 198 |
| 1505 | 11.79 | 6.15 | 1.303 | 11.94 | 5.12 | 812 | 195 |
| 1510 | 11.80 | 6.11 | 1.303 | 11.87 | 4.77 | 684 | 200 |
| 1515 | 11.86 | 6.34 | 1.308 | 12.42 | 5.60 | 483 | 184 |
| 1520 | 11.81 | 6.39 | 1.292 | 12.48 | 5.63 | 306 | 181 |
| 1525 | 11.81 | 6.32 | 1.298 | 12.56 | 5.57 | 235 | 183 |
| 1530 | 11.81 | 6.35 | 1.297 | 12.56 | 5.60 | 140 | 181 |
| 1535 | 11.81 | 6.34 | 1.286 | 12.51 | 5.68 | 133 | 185 |
| 1540 | 11.81 | 6.38 | 1.287 | 12.57 | 5.59 | 128 | 187 |
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Purge Start Time: 1450 Purge End Time: 1540 Total Volume Purged: ~2.31 gal

Approximate Purge Rate: ~175 ml/min Purged/Sampled By:

Weather Conditions: Rain

Comments: _____

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f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | ¼ | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.31 | ft TOR |
| **Sampling Device:** | ~~Dedicated~~ Portable Bladder Pump | **Depth to Pump:** | 51.00 | ft TOR |
| **Date:** | 8/25/16 | **Feet of Water in Line:** | 39.69 | feet |
| **Well I.D.:** | MW-15D | **Volume of Water in Line:** | 0.09 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0915 | 11.31 | 6.67 | 1.075 | 10.29 | 4.72 | 191 | 202 |
| 0920 | 11.31 | 6.62 | 1.126 | 9.28 | 4.45 | 165 | 193 |
| 0925 | 11.31 | 6.39 | 1.213 | 10.22 | 3.30 | 156 | 186 |
| 0930 | 11.31 | 6.37 | 1.201 | 10.41 | 2.74 | 116 | 182 |
| 0935 | 11.31 | 6.45 | 1.228 | 10.39 | 3.39 | 85.9 | 182 |
| 0940 | 11.31 | 6.58 | 1.218 | 10.46 | 3.35 | 70.3 | 179 |
| 0945 | 11.31 | 6.43 | 1.223 | 10.38 | 3.42 | 78.6 | 181 |
| 0950 | 11.32 | 6.47 | 1.222 | 10.68 | 3.50 | 75.9 | 183 |
| 0955 | 11.32 | 6.45 | 1.228 | 10.57 | 3.56 | 69.3 | 184 |
| 1000 | 11.32 | 6.44 | 1.225 | 10.61 | 3.49 | 64.2 | 183 |
| 1005 | 11.32 | 6.49 | 1.221 | 10.51 | 3.58 | 58.8 | 182 |
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Purge Start Time: 0910 Purge End Time: 1005 Total Volume Purged: ~2.18 gal

Approximate Purge Rate: ~150 ml/min Purged/Sampled By: K. Steck

Weather Conditions: Light drizzle, ~37°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | ~~1/4~~ 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.65 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 19.5 | ft TOR |
| **Date:** | 5/23/16 | **Feet of Water in Line:** | 7.85 | feet |
| **Well I.D.:** | MW-105 | **Volume of Water in Line:** | ~~0.018~~ 0.04 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1125 | 11.64 | 7.07 | 0.980 | 12.39 | 6.69 | 255 | 109 |
| 1130 | 11.65 | 7.22 | 0.978 | 12.37 | 6.44 | 135 | 94 |
| 1135 | 11.66 | 7.29 | 0.971 | 12.31 | 6.24 | 51.2 | 64 |
| 1140 | 11.66 | 7.31 | 0.973 | 12.33 | 6.11 | 31.7 | 54 |
| 1145 | 11.66 | 7.32 | 0.979 | 12.49 | 6.10 | 19.3 | 46 |
| 1150 | 11.66 | 7.33 | 0.984 | 12.57 | 6.07 | 15.6 | 44 |
| 1155 | 11.66 | 7.33 | 0.980 | 12.55 | 5.99 | 12.8 | 44 |
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Purge Start Time: 1120 Purge End Time: 1155 Total Volume Purged: ~2.77 gal time purge x purge ~~3~~ 3785

Approximate Purge Rate: 300 ml/min Purged/Sampled By: K. Sked

Weather Conditions: Sunny ~ 70°F

Comments: _____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | ~~1/4~~ 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 15.60 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 24.8 | ft TOR |
| **Date:** | 5 12316 | **Feet of Water in Line:** | 9.2 | feet |
| **Well I.D.:** | MW-9S | **Volume of Water in Line:** | 0.05 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1255 | 15.60 | 7.12 | 1.035 | 12.11 | 6.24 | 461 | 109 |
| 1300 | 15.60 | 7.39 | 1.043 | 11.91 | 6.17 | 143 | 100 |
| 1305 | 15.60 | 7.44 | 1.031 | 11.74 | 5.65 | 64.5 | 98 |
| 1310 | 15.61 | 7.48 | 1.060 | 11.82 | 5.98 | 50.2 | 97 |
| 1315 | 15.61 | 7.47 | 1.059 | 11.70 | 5.67 | 47.3 | 95 |
| 1320 | 15.61 | 7.46 | 1.058 | 11.77 | 5.67 | 41.8 | 98 |
| 1325 | 15.61 | 7.44 | 1.062 | 11.81 | 5.60 | 39.4 | 98 |
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Purge Start Time: 1250 Purge End Time: 1325 Total Volume Purged: ~3.24 gal

Approximate Purge Rate: 350 ml/min Purged/Sampled By: K. Steele

Weather Conditions: Sunny ~ 70°F

Comments:

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 15.75 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 41.6 | ft TOR |
| **Date:** | 5/23/16 | **Feet of Water in Line:** | 25.84 | feet |
| **Well I.D.:** | MW-9D | **Volume of Water in Line:** | 0.13 | gallons |
| | | **(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)** | | |

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1340 | 15.75 | 7.48 | 0.983 | 12.85 | 5.94 | 13.9 | 111 |
| 1345 | 15.75 | 7.50 | 0.980 | 12.80 | 5.51 | 9.5 | 104 |
| 1350 | 15.77 | 7.46 | 0.982 | 12.83 | 4.55 | 4.8 | 107 |
| 1355 | 15.77 | 7.47 | 0.980 | 12.88 | 4.25 | 3.4 | 99 |
| 1400 | 15.78 | 7.47 | 0.978 | 13.12 | 3.78 | 3.6 | 97 |
| 1405 | 15.78 | 7.48 | 0.978 | 12.99 | 3.75 | 2.7 | 96 |
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Purge Start Time: 1335 Purge End Time: 1405 Total Volume Purged: ~3.96 gal

Approximate Purge Rate: 500 ml/min Purged/Sampled By: K. Steck

Weather Conditions: Sunny ~ 70°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.34 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 24.35 | ft TOR |
| **Date:** | 5/23/16 | **Feet of Water in Line:** | 11.01 | feet |
| **Well I.D.:** | MW-85 | **Volume of Water in Line:** | 0.06 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1435 | 13.34 | 7.28 | 1.045 | 13.53 | 7.21 | 62.2 | 98 |
| 1440 | 13.34 | 7.46 | 1.046 | 13.38 | 6.68 | 23.6 | 86 |
| 1445 | 13.35 | 7.48 | 1.051 | 13.39 | 6.02 | 9.8 | 75 |
| 1450 | 13.35 | 7.50 | 1.045 | 13.35 | 6.04 | 7.1 | 69 |
| 1455 | 13.35 | 7.50 | 1.041 | 13.43 | 6.06 | 5.3 | 60 |
| 1500 | 13.35 | 7.49 | 1.046 | 13.38 | 6.02 | 4.8 | 58 |
| 1505 | 13.36 | 7.49 | 1.047 | 13.46 | 6.07 | 4.8 | 54 |
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Purge Start Time: 1430 Purge End Time: 1505 Total Volume Purged: ~3.93 gal

Approximate Purge Rate: 425 ml/min Purged/Sampled By:

Weather Conditions: ~ 75° F Sunny

Comments: MS / MSD 9150 Sampled here.

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 13.23 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 49.0 | ft TOR |
| **Date:** | 5 12 3 16 | **Feet of Water in Line:** | 35.77 | feet |
| **Well I.D.:** | MW-8D | **Volume of Water in Line:** | 0.18 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1530 | 13.25 | 7.21 | 1.008 | 14.89 | 4.05 | 270 | 82 |
| 1535 | 13.25 | 7.43 | 1.007 | 14.15 | 3.51 | 113 | 62 |
| 1540 | 13.25 | 7.46 | 1.017 | 14.13 | 3.24 | 79.5 | 54 |
| 1545 | 13.25 | 7.45 | 1.009 | 14.06 | 3.37 | 65.4 | 41 |
| 1550 | 13.25 | 7.45 | 0.997 | 14.12 | 3.28 | 36.7 | 43 |
| 1555 | 13.25 | 7.45 | 0.998 | 14.10 | 3.33 | 29.0 | 41 |
| 1600 | 13.26 | 7.43 | 1.006 | 14.07 | 3.28 | 24.4 | 40 |
| 1605 | 13.26 | 7.43 | 1.002 | 14.11 | 3.22 | 21.4 | 39 |
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Purge Start Time: 1525 Purge End Time: 1605 Total Volume Purged: ~3.44 gal

Approximate Purge Rate: 395 ml/min Purged/Sampled By:

Weather Conditions: Sunny ~ 75° F

Comments: DUP-4 also collected

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.11 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 57.00 | ft TOR |
| **Date:** | 5 12 3 1 LC | **Feet of Water in Line:** | 46.89 | feet |
| **Well I.D.:** | mw-70 | **Volume of Water in Line:** | 0.23 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1630 5 | 10.11 | 6.49 | 1.317 | 13.53 | 6.02 | 54.2 | 122 |
| 1640 | 10.14 | 7.24 | 1.331 | 13.46 | 5.29 | 15.0 | 91 |
| 1645 | 10.14 | 7.32 | 1.333 | 13.53 | 5.15 | 7.1 | 74 |
| 1650 | 10.15 | 7.31 | 1.303 | 13.42 | 5.01 | 7.1 | 64 |
| 1655 | 10.15 | 7.32 | 1.315 | 13.44 | 5.03 | 5.5 | 56 |
| 1700 | 10.15 | 7.32 | 1.333 | 13.46 | 4.98 | 5.4 | 51 |
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Purge Start Time: 1630 Purge End Time: 1700 Total Volume Purged: ~3.6 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By: K. Steck

Weather Conditions: Sunny ~75°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 9.87 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 20.70 | ft TOR |
| **Date:** | 5/23/16 | **Feet of Water in Line:** | 10.83 | feet |
| **Well I.D.:** | MW-75 | **Volume of Water in Line:** | 0.05 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1715 | 9.90 | 7.27 | 1.446 | 13.89 | 6.81 | 36.5 | 81 |
| 1720 | 9.90 | 7.31 | 1.457 | 13.94 | 6.13 | 7.9 | 84 |
| 1725 | 9.90 | 7.32 | 1.446 | 13.61 | 6.10 | 6.4 | 86 |
| 1730 | 9.91 | 7.32 | 1.450 | 13.59 | 6.10 | 5.5 | 89 |
| 1735 | 9.91 | 7.31 | 1.456 | 13.64 | 6.09 | 4.8 | 91 |
| 1740 | 9.91 | 7.31 | 1.457 | 13.76 | 6.10 | 3.8 | 92 |
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Purge Start Time: 1710 Purge End Time: 1740 Total Volume Purged: ~3.6 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By: K. Steck

Weather Conditions: Sunny ~ 75°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.09 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 28.55 | ft TOR |
| **Date:** | 5 / 24 / 16 | **Feet of Water in Line:** | 18.46 | feet |
| **Well I.D.:** | ~~MW~~ CW-35 | **Volume of Water in Line:** | 0.09 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0740 | 10.10 | 7.31 | 0.871 | 11.18 | 7.78 | 81.7 | 85 |
| 0745 | 10.10 | 7.37 | 0.866 | 11.12 | 7.95 | 19.1 | 84 |
| 0750 | 10.10 | 7.40 | 0.875 | 11.14 | 7.40 | 5.02 | 85 |
| 0755 | 10.10 | 7.41 | 0.867 | 11.16 | 7.62 | 4.8 | 85 |
| 0800 | 10.16 | 7.40 | 0.876 | 11.15 | 7.59 | 4.7 | 86 |
| 0805 | 10.10 | 7.46 | 0.871 | 11.17 | 7.61 | 4.6 | 87 |
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Purge Start Time: 0735 Purge End Time: 0805 Total Volume Purged: ~3.57 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By: K. Stedl

Weather Conditions: Sunny ~ 65°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 9.40 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 48.0 | ft TOR |
| **Date:** | 5 12 16 | **Feet of Water in Line:** | 38.6 | feet |
| **Well I.D.:** | CW-3D | **Volume of Water in Line:** | 0.19 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0820 | 9.43 | 7.28 | 0.901 | 11.54 | 6.49 | 11.7 | 82 |
| 0825 | 9.43 | 7.39 | 0.898 | 11.53 | 6.51 | 9.9 | 59 |
| 0830 | 9.44 | 7.39 | 0.898 | 11.58 | 6.26 | 6.5 | 34 |
| 0835 | 9.44 | 7.39 | 0.899 | 11.61 | 6.23 | 6.6 | 29 |
| 0840 | 9.44 | 7.40 | 0.898 | 11.64 | 6.24 | 5.9 | 25 |
| 0845 | 9.44 | 7.40 | 0.899 | 11.65 | 6.26 | 6.3 | 25 |
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Purge Start Time: 0815 Purge End Time: 0845 Total Volume Purged: ~3.57 gal

Approximate Purge Rate: 450 ml/min Purged/Sampled By: K. Steck

Weather Conditions: Sunny ~70°F

Comments: _____

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 3/8 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 7.74 | ft TOR |
| **Sampling Device:** | Dedicated Bladder Pump | **Depth to Pump:** | 95.5 | ft TOR |
| **Date:** | 5 12 16 | **Feet of Water in Line:** | 87.76 | feet |
| **Well I.D.:** | MW-113D | **Volume of Water in Line:** | 0.44 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 0920 | 7.76 | 6.36 | 1.383 | 13.16 | 5.14 | 330 | 151 |
| 0925 | 7.80 | 6.77 | 1.392 | 13.17 | 5.42 | 45.2 | 158 |
| 0930 | 7.80 | 6.76 | 1.383 | 13.17 | 5.17 | 32.5 | 128 |
| 0935 | 7.85 | 6.99 | 1.384 | 13.39 | 5.19 | 23.7 | 121 |
| 0940 | 7.85 | 7.27 | 1.375 | 13.12 | 5.77 | 17.3 | 83 |
| 0945 | 7.87 | 6.96 | 1.377 | 13.07 | 5.81 | 16.6 | 87 |
| 0950 | 7.87 | 6.96 | 1.377 | 13.10 | 5.76 | 18.4 | 84 |
| 0955 | 7.87 | 7.01 | 1.377 | 13.14 | 5.84 | 15.9 | 81 |
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Purge Start Time: 0915 Purge End Time: 0955 Total Volume Purged: ~3.70 gal

Approximate Purge Rate: 350 ml/min Purged/Sampled By: K. Steele

Weather Conditions: Sunny ~70°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.21 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 22.0 | ft TOR |
| **Date:** | 5/24/16 | **Feet of Water in Line:** | 11.79 | feet |
| **Well I.D.:** | MW-16S | **Volume of Water in Line:** | 0.03 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1025 | 10.25 | 6.35 | 1.119 | 17.71 | 5.99 | 249 | 113 |
| 1030 | 10.25 | 5.59 | 1.112 | 14.56 | 4.67 | 162 | 161 |
| 1035 | 10.27 | 5.63 | 1.115 | 14.69 | 4.27 | 124 | 174 |
| 1040 | 10.27 | 5.57 | 1.109 | 14.71 | 4.34 | 99.2 | 184 |
| 1045 | 10.27 | 5.60 | 1.111 | 14.67 | 4.42 | 65.2 | 191 |
| 1050 | 10.27 | 5.60 | 1.112 | 14.77 | 4.28 | 54.4 | 192 |
| 1055 | 10.27 | 5.60 | 1.117 | 14.71 | 4.21 | 52.0 | 194 |
| 1100 | 10.27 | 5.61 | 1.113 | 14.68 | 4.17 | 48.9 | 195 |
| 1105 | 10.27 | 5.59 | 1.114 | 14.76 | 4.11 | 47.8 | 195 |
| 1110 | 10.27 | 5.60 | 1.115 | 14.70 | 4.19 | 44.1 | 197 |
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Purge Start Time: 1020 Purge End Time: 1110 Total Volume Purged: ~5.26 gal

Approximate Purge Rate: 400 ml/min Purged/Sampled By: K. Sted.

Weather Conditions: Sunny ~ 80°F

Comments: _____

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | ¼ | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 10.60 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 52.0 | ft TOR |
| **Date:** | 5/24/16 | **Feet of Water in Line:** | 41.4 | feet |
| **Well I.D.:** | MW-16D | **Volume of Water in Line:** | 0.09 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1135 | 10.61 | 7.26 | 1.070 | 15.99 | 4.76 | 24.1 | 152 |
| 1140 | 10.61 | 7.08 | 1.066 | 16.15 | 4.71 | 43.0 | 152 |
| 1145 | 10.61 | 7.21 | 1.058 | 16.09 | 4.67 | 31.4 | 147 |
| 1150 | 10.61 | 7.17 | 1.061 | 16.20 | 4.69 | 23.4 | 145 |
| 1155 | 10.61 | 7.24 | 1.056 | 16.25 | 4.24 | 21.1 | 142 |
| 1200 | 10.61 | 7.25 | 1.060 | 16.21 | 4.64 | 13.6 | 140 |
| 1205 | 10.61 | 7.22 | 1.058 | 16.37 | 4.59 | 10.6 | 139 |
| 1210 | 10.61 | 7.19 | 1.054 | 16.33 | 4.59 | 9.3 | 139 |
| 1215 | 10.61 | 7.19 | 1.057 | 16.36 | 4.59 | 8.4 | 138 |
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Purge Start Time: 1130 Purge End Time: 1215 Total Volume Purged: ~2.97 gal

Approximate Purge Rate: 250 ml/min Purged/Sampled By: K. Stein

Weather Conditions: Sunny ~80°F

Comments: _____

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WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | | |
|---|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 | inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.70 | ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 22.0 | ft TOR |
| **Date:** | 5 12 16 | **Feet of Water in Line:** | 10.3 | feet |
| **Well I.D.:** | MW-~~33~~ 155 | **Volume of Water in Line:** | 0.02 | gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temperature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1255 | 11.70 | 6.05 | 1.244 | 16.65 | 6.34 | 2000 | 169 |
| 1300 | 11.70 | 5.87 | 1.255 | 16.47 | 5.30 | 2000 | 175 |
| 1305 | 11.70 | 5.80 | 1.272 | 14.99 | 5.12 | 1454 | 175 |
| 1310 | 11.70 | 5.59 | 1.259 | 14.78 | 4.30 | 882 | 186 |
| 1315 | | | | | | | |
| 1320 | 11.70 | 6.34 | 1.261 | 17.33 | 6.66 | 2000 | 177 |
| 1325 | 11.70 | 6.43 | 1.249 | 17.00 | 6.37 | 2000 | 173 |
| 1330 | 11.71 | 6.32 | 1.250 | 16.06 | 6.30 | 2000 | 173 |
| 1335 | 11.71 | 6.35 | 1.246 | 16.13 | 6.22 | 1132 | 173 |
| 1340 | 11.71 | 6.33 | 1.238 | 16.01 | 6.26 | 860 | 173 |
| 1345 | 11.71 | 6.35 | 1.242 | 15.65 | 6.15 | 587 | 174 |
| ~~1350~~ | 11.71 | 6.27 | 1.246 | 16.64 | 5.75 | 491 | 175 |
| 1355 | 11.71 | 5.78 | 1.255 | 15.06 | 5.23 | 418 | 175 |
| 1400 | 11.71 | 5.75 | 1.251 | 15.46 | 5.17 | 404 | 177 |
| 1405 | 11.71 | 5.71 | 1.248 | 15.30 | 5.15 | 391 | 177 |
| 1410 | 11.71 | 5.68 | 1.244 | 15.25 | 5.11 | 387 | 178 |
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Purge Start Time: 1250 Purge End Time: 1410 Total Volume Purged: ~2.97 gal

Approximate Purge Rate: 150 ml/min Purged/Sampled By:

Weather Conditions: Sunny ~ 80°F

Comments: 1315 HAD to perform maintence on pump

f52/corp

WOODARD &CURRAN

# WELL PURGING RECORD
# LOW-FLOW SAMPLING METHOD

| | | | |
|---|---|---|---|
| **Site:** | CBS-Horseheads, NY | **Tubing Diameter:** | 1/4 inches |
| **Project No.:** | 96206 | **Depth to Water:** | 11.50 ft TOR |
| **Sampling Device:** | Portable Bladder Pump | **Depth to Pump:** | 51.0 ft TOR |
| **Date:** | 5/24/16 | **Feet of Water in Line:** | 39.5 feet |
| **Well I.D.:** | MW-15D | **Volume of Water in Line:** | 0.09 gallons |

**(0.005 gal/ft for 3/8" tubing, 0.0023 gal/ft for ¼" tubing)**

| Elapsed Time (min) | Depth to Water (ft TOR) | pH (s.u.) | Specific Conductance (ms/cm) | Temper-ature (°C) | Dissolved Oxygen (ppm) | Turbidity (NTU) | Redox (mV) |
|---|---|---|---|---|---|---|---|
| 1445 | 11.50 | 6.49 | 0.460 | 18.75 | 0.67 | 67.4 | 176 |
| 1450 | 11.51 | 6.21 | 0.848 | 18.08 | 0.61 | 32.9 | 173 |
| 1455 | 11.51 | 6.87 | 1.131 | 18.08 | 0.45 | 30.2 | 154 |
| 1500 | 11.51 | 7.05 | 1.166 | 17.74 | 0.62 | 27.3 | 151 |
| 1505 | 11.51 | 7.23 | 1.207 | 17.69 | 0.64 | 22.8 | 138 |
| 1510 | 11.51 | 7.24 | 1.209 | 17.45 | 0.68 | 17.1 | 136 |
| 1515 | 11.51 | 7.30 | 1.205 | 17.49 | 0.73 | 13.8 | 135 |
| 1520 | 11.51 | 7.30 | 1.210 | 17.53 | 0.70 | 10.5 | 135 |
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Purge Start Time: ~~1440~~ 1440 Purge End Time: 1520 Total Volume Purged: ~2.64 gal

Approximate Purge Rate: 250 ml/min Purged/Sampled By:

Weather Conditions: Sunny ~80°F

Comments: _____

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# Water Sample Collection Forms

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-101 I / 7/14/14
PROJECT NO.: 96206
WELL NO.: MW-101 I
SAMPLE DATE: 7 / 14 / 14
SAMPLED BY: MW
SAMPLE TIME (START/END): 14:05 / 14:10
SAMPLE SEQUENCE NO.: 1
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 8.19 / 8.25
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 5.84 |
| Specific Conductance | ms/cm | 1.82 |
| Water Temperature | °C | 12.23 |
| Dissolved Oxygen | ppm | 1.40 |
| Redox | mV | 135 |
| Turbidity | NTU | 109 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 7/14/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Turbid, Cloudy
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: —
LABORATORY: Lancaster
DELIVERED VIA: Fed-Ex DATE: 7/17/14
WEATHER CONDITIONS: Hot / Cloudy
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: ~~MW-101S~~ MW-101S / 71141A
PROJECT NO.: 96206
WELL NO.: MW-101S
SAMPLE DATE: 7/14/14
SAMPLED BY: MCL
SAMPLE TIME (START/END): 14:45 / 14:50
SAMPLE SEQUENCE NO.: 2
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 9.33 / 9.45
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.49 |
| Specific Conductance | ms/cm | 2.45 |
| Water Temperature | °C | 12.79 |
| Dissolved Oxygen | ppm | 2.32 |
| Redox | mV | 17 |
| Turbidity | NTU | 0.4 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 7/14/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear
SAMPLING FLOW RATE: 100 mL/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: —
LABORATORY: Lancaster
DELIVERED VIA: Fed-Ex DATE: 7/17/14
WEATHER CONDITIONS: Hot / Sunny
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | CW-7S / 7/14/14 |
| PROJECT NO. | 96206 | WELL NO. | CW-7S |
| SAMPLE DATE | 7 / 14 / 14 | SAMPLED BY | MMC |
| SAMPLE TIME (START/END) | 15:35 / 15:40 | SAMPLE SEQUENCE NO. | 3 |
| SAMPLE COLLECTION EQUIPMENT | Dedicated Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 14.30 / 14.30 | | |
| RECHARGE TIME | NA | MEASURED FROM | ☐ TOC ☑ TOR ☐ GS |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.15 |
| Specific Conductance | ms/cm | 2.66 |
| Water Temperature | °C | 12.53 |
| Dissolved Oxygen | ppm | 4.05 |
| Redox | mV | 87 |
| Turbidity | NTU | 0.0 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 7/14/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | | PRESERVED? | | |
|---|---|---|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ | N ☑ | Y ☑ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD —

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE 7/15/14

WEATHER CONDITIONS Hot / Cloudy

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: CW-7D / 7/14/14
PROJECT NO.: 96206
WELL NO.: CW-7D
SAMPLE DATE: 7 / 14 / 14
SAMPLED BY: M-C
SAMPLE TIME (START/END): 16:20 / 16:25
SAMPLE SEQUENCE NO.: 4
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 14.34 / 14.32
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.70 |
| Specific Conductance | ms/cm | 0.907 |
| Water Temperature | °C | 12.15 |
| Dissolved Oxygen | ppm | 6.87 |
| Redox | mV | 90 |
| Turbidity | NTU | 48.7 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 7/14/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Slightly cloudy
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: —
LABORATORY: Lancaster
DELIVERED VIA: ☑ Fed-Ex DATE: 7/17/14
WEATHER CONDITIONS: Hot / cloudy
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

Dup ID = MW-120

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-105D / 7/14/14
PROJECT NO.: 96206
WELL NO.: MW-105D
SAMPLE DATE: 7 / 14 / 14
SAMPLED BY: MAC
SAMPLE TIME (START/END): 17:25 / 17:30
SAMPLE SEQUENCE NO.: 5
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 13.26 / 13.55
RECHARGE TIME:
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.62 |
| Specific Conductance | ms/cm | 1.197 |
| Water Temperature | °C | 13.60 |
| Dissolved Oxygen | ppm | 0.86 |
| Redox | mV | -20 |
| Turbidity | NTU | 48.1 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 7/14/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Slightly cloudy
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 6
FILTRATION METHOD: —
LABORATORY: Lancaster
DELIVERED VIA: Fed-Ex DATE: 7/15/14
WEATHER CONDITIONS: Hot / Cloudy
COMMENTS: A Duplicate was Collected at This Sample
Duplicate ID: MW-120

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-100 D / 7/15/14
PROJECT NO.: 96206
WELL NO.: MW-100 D
SAMPLE DATE: 7 / 15 / 14
SAMPLED BY: MAC
SAMPLE TIME (START/END): 1345 / 1350
SAMPLE SEQUENCE NO.: 6
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 22.55 / 22.56
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.65 |
| Specific Conductance | ms/cm | 1.074 |
| Water Temperature | °C | 14.36 |
| Dissolved Oxygen | ppm | 2.14 |
| Redox | mV | 7 |
| Turbidity | NTU | 47.9 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 7/15/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Slightly Cloudy
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: -
LABORATORY: Lancaster
DELIVERED VIA: Fed-Ex DATE: 7/15/14
WEATHER CONDITIONS: Warm / Cloudy
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-113D / 7/15/14
PROJECT NO.: 96206
WELL NO.: MW-113D
SAMPLE DATE: 7 / 15 / 14
SAMPLED BY: MAC
SAMPLE TIME (START/END): 9:35 / 9:40
SAMPLE SEQUENCE NO.: 7
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 7.62 / 8.10
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.73 |
| Specific Conductance | ms/cm | 1.145 |
| Water Temperature | °C | 13.36 |
| Dissolved Oxygen | ppm | 6.29 |
| Redox | mV | 85 |
| Turbidity | NTU | 4.1 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 7/15/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: -
LABORATORY: Lancaster
DELIVERED VIA: FED-EX
DATE: 7/17/14
WEATHER CONDITIONS: Warm / Cloudy
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-7D / 2/15/14 |
| PROJECT NO. | 96206 | WELL NO. | MW-7D |
| SAMPLE DATE | 2 / 15 / 14 | SAMPLED BY | MW |
| SAMPLE TIME (START/END) | 10:40 / 10:45 | SAMPLE SEQUENCE NO. | 8 |
| SAMPLE COLLECTION EQUIPMENT | Dedicated Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 10.21 / 10.21 | | |
| RECHARGE TIME | NA | MEASURED FROM ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.74 |
| Specific Conductance | ms/cm | 1.191 |
| Water Temperature | °C | 13.95 |
| Dissolved Oxygen | ppm | 5.55 |
| Redox | mV | 58 |
| Turbidity | NTU | 0.0 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 2/15/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD -

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE 2/17/14

WEATHER CONDITIONS Warm / Windy

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-75 / 7/15/14
PROJECT NO.: 96206
WELL NO.: MW-75
SAMPLE DATE: 7 / 15 / 14
SAMPLED BY: MC
SAMPLE TIME (START/END): 11:25 / 11:30
SAMPLE SEQUENCE NO.: 9
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 9.95 / 9.96
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.74 |
| Specific Conductance | ms/cm | 1.322 |
| Water Temperature | °C | 14.47 |
| Dissolved Oxygen | ppm | 6.77 |
| Redox | mV | 105 |
| Turbidity | NTU | 0.0 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 7/15/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: —
LABORATORY: Lancaster
DELIVERED VIA: FED-EX
DATE: 7/17/14
WEATHER CONDITIONS: warm / sunny
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: CW-30 / 7/15/14
PROJECT NO.: 96206
WELL NO.: CW-30
SAMPLE DATE: 7 / 15 / 14
SAMPLED BY: MAC
SAMPLE TIME (START/END): 12:35 / 12:40
SAMPLE SEQUENCE NO.: 10
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 10.70 / 10.70
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 8.01 |
| Specific Conductance | ms/cm | 0.901 |
| Water Temperature | °C | 11.66 |
| Dissolved Oxygen | ppm | 6.77 |
| Redox | mV | 62 |
| Turbidity | NTU | 4.3 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 7/15/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: —
LABORATORY: Lancaster
DELIVERED VIA: Fed-ex DATE: 7/17/14
WEATHER CONDITIONS: Warm / rainy
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: CW-35 / 7/15/14
PROJECT NO.: 96206
WELL NO.: CW-35
SAMPLE DATE: 7 / 15 / 14
SAMPLED BY: M-L
SAMPLE TIME (START/END): 13:25 / 13:30
SAMPLE SEQUENCE NO.: 11
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 10.57 / 10.60
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 5.43 |
| Specific Conductance | ms/cm | 0.903 |
| Water Temperature | °C | 11.29 |
| Dissolved Oxygen | ppm | 7.00 |
| Redox | mV | FL |
| Turbidity | NTU | 0.0 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 7/15/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: ____ FILTRATION METHOD: —
LABORATORY: Lancaster DELIVERED VIA: Fed-Ex DATE: 7/17/14
WEATHER CONDITIONS: Warm / Partly Cloudy
COMMENTS: ____

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

MS / MSD

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-105 / 71515-4 |
| PROJECT NO. | 96206 | WELL NO. | MW-105 |
| SAMPLE DATE | 7 / 15 / 14 | SAMPLED BY | MW |
| SAMPLE TIME (START/END) | 15:10 / 15:20 | SAMPLE SEQUENCE NO. | 12 |
| SAMPLE COLLECTION EQUIPMENT | Dedicated Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 11.75 / 11.75 | | |
| RECHARGE TIME | NA | MEASURED FROM ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.56 |
| Specific Conductance | ms/cm | 0.952 |
| Water Temperature | °C | 13.73 |
| Dissolved Oxygen | ppm | 4.46 |
| Redox | mV | 96 |
| Turbidity | NTU | 4.2 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 7/15/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 9 FILTRATION METHOD -

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE 7/16/14

WEATHER CONDITIONS Warm / rainy

COMMENTS A MS / MSD was Collected at This Source.

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-9D
PROJECT NO.: 96206
WELL NO.: MW-9D
SAMPLE DATE: 7 / 15 / 14
SAMPLED BY: M.G
SAMPLE TIME (START/END): 16:00 / 16:05
SAMPLE SEQUENCE NO.: 13
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 15.50 / 15.51
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.07 |
| Specific Conductance | ms/cm | 0.941 |
| Water Temperature | °C | 13.57 |
| Dissolved Oxygen | ppm | 4.70 |
| Redox | mV | 99 |
| Turbidity | NTU | 0.0 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 7/15/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: -
LABORATORY: Lancaster
DELIVERED VIA: Fed-ex
DATE: 7/15/14
WEATHER CONDITIONS: Warm / cloudy
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-9S
PROJECT NO.: 96206
WELL NO.: MW-9S
SAMPLE DATE: 7 / 15 / 14
SAMPLED BY: MC
SAMPLE TIME (START/END): 17:00 / 17:06
SAMPLE SEQUENCE NO.: 14
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 15.99 / 16.03
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 8.09 |
| Specific Conductance | ms/cm | 0.998 |
| Water Temperature | °C | 12.35 |
| Dissolved Oxygen | ppm | 6.93 |
| Redox | mV | 52 |
| Turbidity | NTU | 6.3 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 7/15/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: —
LABORATORY: Lancaster
DELIVERED VIA: Fed-Ex DATE: 7/17/14
WEATHER CONDITIONS: Warm / Partly Cloudy
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-15D / 71614
PROJECT NO.: 96206
WELL NO.: MW-15D
SAMPLE DATE: 7 / 16 / 14
SAMPLED BY: MW
SAMPLE TIME (START/END): 9:35 / 9:40
SAMPLE SEQUENCE NO.: 15
SAMPLE COLLECTION EQUIPMENT: Portable Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 11.71 / 11.71
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.88 |
| Specific Conductance | ms/cm | 1.057 |
| Water Temperature | °C | 13.58 |
| Dissolved Oxygen | ppm | 4.71 |
| Redox | mV | 115 |
| Turbidity | NTU | 39.1 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 7/16/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Slightly Cloudy
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: —
LABORATORY: Lancaster
DELIVERED VIA: Fed-Ex DATE: 7/17/14
WEATHER CONDITIONS: Warm / Sunny
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-15S / 7/16/14 |
| PROJECT NO. | 96206 | WELL NO. | MW-15S |
| SAMPLE DATE | 7 / 16 / 14 | SAMPLED BY | MW |
| SAMPLE TIME (START/END) | 10:45 / 10:50 | SAMPLE SEQUENCE NO. | 16 |
| SAMPLE COLLECTION EQUIPMENT | Portable Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 11.87 / 11.87 | | |
| RECHARGE TIME | NA | MEASURED FROM ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.90 |
| Specific Conductance | ms/cm | 1.100 |
| Water Temperature | °C | 14.44 |
| Dissolved Oxygen | ppm | 6.76 |
| Redox | mV | 118 |
| Turbidity | NTU | 201 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 7/16/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Cloudy, Tan-o

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD —

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE 7/17/14

WEATHER CONDITIONS Warm / Sunny

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-16D |
| PROJECT NO. | 96206 | WELL NO. | MW-16D |
| SAMPLE DATE | 7 / 16 / 14 | SAMPLED BY | MW |
| SAMPLE TIME (START/END) | 12:10 / 12:15 | SAMPLE SEQUENCE NO. | 17 |
| SAMPLE COLLECTION EQUIPMENT | Portable Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 10.74 / 10.74 | | |
| RECHARGE TIME | NA | MEASURED FROM ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.95 |
| Specific Conductance | ms/cm | 0.991 |
| Water Temperature | °C | 15.00 |
| Dissolved Oxygen | ppm | 4.77 |
| Redox | mV | 105 |
| Turbidity | NTU | 59.2 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 7/16/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Cloudy, Turb.

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD —

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE 7/17/14

WEATHER CONDITIONS Warm / sunny

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-16S |
| PROJECT NO. | 96206 | WELL NO. | MW-16S |
| SAMPLE DATE | 7/16/14 | SAMPLED BY | MC |
| SAMPLE TIME (START/END) | 13:15 / 13:20 | SAMPLE SEQUENCE NO. | 18 |
| SAMPLE COLLECTION EQUIPMENT | Portable Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 10.44 / 10.44 | | |
| RECHARGE TIME | NA | MEASURED FROM ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.95 |
| Specific Conductance | ms/cm | 1.049 |
| Water Temperature | °C | 16.20 |
| Dissolved Oxygen | ppm | 6.54 |
| Redox | mV | 107 |
| Turbidity | NTU | 12.0 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 7/16/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD —

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE 7/17/14

WEATHER CONDITIONS Warm / sunny

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-8D / 21114
PROJECT NO.: 96206
WELL NO.: MW-8D
SAMPLE DATE: 2 / 11 / 14
SAMPLED BY: MC
SAMPLE TIME (START/END): 14.35 / 14.40
SAMPLE SEQUENCE NO.: 19
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 15.15 / 15.15
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 8.07 |
| Specific Conductance | ms/cm | 0.916 |
| Water Temperature | °C | 13.47 |
| Dissolved Oxygen | ppm | 4.09 |
| Redox | mV | 30 |
| Turbidity | NTU | 0.0 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 2/11/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear
SAMPLING FLOW RATE: 100-150 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: -
LABORATORY: Lancaster
DELIVERED VIA: Fed-Ex
DATE: 2/12/14
WEATHER CONDITIONS: Warm / Sunny
COMMENTS: Strong Solvent odor in the air during Sample Collection Due to Rock Excavation Work at Plant.

f21/corp

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-85 / 7/16/14 |
| PROJECT NO. | 96206 | WELL NO. | MW-85 |
| SAMPLE DATE | 7 / 16 / 14 | SAMPLED BY | MAC |
| SAMPLE TIME (START/END) | 15:20 / 15.25 | SAMPLE SEQUENCE NO. | 20 |
| SAMPLE COLLECTION EQUIPMENT | Dedicated Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 13.40 / 13.42 | | |
| RECHARGE TIME | NA | MEASURED FROM ☐ TOC | ☑ TOR ☐ GS |

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 8.02 |
| Specific Conductance | ms/cm | 1.032 |
| Water Temperature | °C | 13.30 |
| Dissolved Oxygen | ppm | 6.16 |
| Redox | mV | 87 |
| Turbidity | NTU | 0.0 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 7/16/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD -

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE 7/17/14

WEATHER CONDITIONS Warm / Sunny

COMMENTS Strong Solvent odor in the air due to ongoing Sample Collection due to Active Remediation at Nearby Plant.

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-113D / 101714 |
| PROJECT NO. | 96206 | WELL NO. | MW-113D |
| SAMPLE DATE | 10/7/14 | SAMPLED BY | MNC |
| SAMPLE TIME (START/END) | 13:45 / 13:50 | SAMPLE SEQUENCE NO. | 1 |
| SAMPLE COLLECTION EQUIPMENT | Dedicated Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 9.40 / 9.40 | | |
| RECHARGE TIME | NA | MEASURED FROM | ☐ TOC ☑ TOR ☐ GS |

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.05 |
| Specific Conductance | ms/cm | 1.115 |
| Water Temperature | °C | 14.09 |
| Dissolved Oxygen | ppm | 5.91 |
| Redox | mV | 126 |
| Turbidity | NTU | 5.3 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 10/7/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLING FLOW RATE: 100 mL/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD —

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE ____

WEATHER CONDITIONS Cool / Partly cloudy

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: CW-30 / 10/7/14
PROJECT NO.: 96206
WELL NO.: CW-30
SAMPLE DATE: 10 / 7 / 14
SAMPLED BY: MAL
SAMPLE TIME (START/END): 14:40 / 14:45
SAMPLE SEQUENCE NO.: 2
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 12.06 / 12.11
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.26 |
| Specific Conductance | ms/cm | 0.769 |
| Water Temperature | °C | 12.41 |
| Dissolved Oxygen | ppm | 5.27 |
| Redox | mV | 84 |
| Turbidity | NTU | 1.6 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 10/7/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear
SAMPLING FLOW RATE: 100 mL/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: —
LABORATORY: Lancaster
DELIVERED VIA: FED-EX DATE: ____
WEATHER CONDITIONS: Cool / Cloudy
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | CW-35 / 101714 |
| PROJECT NO. | 96206 | WELL NO. | CW-35 |
| SAMPLE DATE | 10 / 17 / 14 | SAMPLED BY | MAC |
| SAMPLE TIME (START/END) | 15:20 / 15:25 | SAMPLE SEQUENCE NO. | 3 |
| SAMPLE COLLECTION EQUIPMENT | Dedicated Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 11.98 / 11.94 | | |
| RECHARGE TIME | NA | MEASURED FROM | ☐ TOC ☑ TOR ☐ GS |

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.22 |
| Specific Conductance | ms/cm | 0.742 |
| Water Temperature | °C | 12.66 |
| Dissolved Oxygen | ppm | 5.54 |
| Redox | mV | 119 |
| Turbidity | NTU | 6.7 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 10/17/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLING FLOW RATE: 100 mL/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD —

LABORATORY Lancaster DELIVERED VIA FED-EX DATE ____

WEATHER CONDITIONS Warm / Partly Sunny

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-10S / 10/7/14 DUP-1 |
| PROJECT NO. | 96206 | WELL NO. | MW-10S |
| SAMPLE DATE | 10 / 7 / 14 | SAMPLED BY | MAL |
| SAMPLE TIME (START/END) | 16:15 / 16:20 | SAMPLE SEQUENCE NO. | 4 |
| SAMPLE COLLECTION EQUIPMENT | Dedicated Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 13.42 / 13.42 | | |
| RECHARGE TIME | NA | MEASURED FROM ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.99 |
| Specific Conductance | ms/cm | 0.754 |
| Water Temperature | °C | 14.38 |
| Dissolved Oxygen | ppm | 4.56 |
| Redox | mV | 131 |
| Turbidity | NTU | 6.0 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 10/7/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 ~~6~~ FILTRATION METHOD —

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE ____

WEATHER CONDITIONS Warm / Partly Cloudy

COMMENTS Duplicate 1st was Collected on This Sample.

f21/corp

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-7S / 101714
PROJECT NO.: 96206
WELL NO.: MW-7S
SAMPLE DATE: 10 / 17 / 14
SAMPLED BY: MW
SAMPLE TIME (START/END): 17:15 / 17:20
SAMPLE SEQUENCE NO.: 5
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 11.30 / 11.30
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.11 |
| Specific Conductance | ms/cm | 0.542 |
| Water Temperature | °C | 13.46 |
| Dissolved Oxygen | ppm | 5.50 |
| Redox | mV | 149 |
| Turbidity | NTU | 0.0 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 10/17/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear
SAMPLING FLOW RATE: 100 mL/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: -
LABORATORY: Lancaster
DELIVERED VIA: Fed-Ex DATE: ____
WEATHER CONDITIONS: Warm / Partly cloudy
COMMENTS: ____

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-20 / 10/7/14 |
| PROJECT NO. | 96206 | WELL NO. | MW-20 |
| SAMPLE DATE | 10 / 7 / 14 | SAMPLED BY | M-L |
| SAMPLE TIME (START/END) | 15:05 / 15:10 | SAMPLE SEQUENCE NO. | 6 |
| SAMPLE COLLECTION EQUIPMENT | Dedicated Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 11.55 / 11.55 | | |
| RECHARGE TIME | NA | MEASURED FROM ☐ TOC ☑ TOR ☐ GS | |

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.06 |
| Specific Conductance | ms/cm | 0.872 |
| Water Temperature | °C | 13.24 |
| Dissolved Oxygen | ppm | 4.52 |
| Redox | mV | 65 |
| Turbidity | NTU | 1.5 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 10/7/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD —

LABORATORY Lancaster DELIVERED VIA FED-EX DATE ____

WEATHER CONDITIONS Cool / Partly Cloudy

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-9D / 10/5/14
PROJECT NO.: 96206
WELL NO.: MW-9D
SAMPLE DATE: 10 / 5 / 14
SAMPLED BY: MW
SAMPLE TIME (START/END): 8:55 / 9:00
SAMPLE SEQUENCE NO.: 7
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 17.49 / 17.52
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.39 |
| Specific Conductance | ms/cm | 0.738 |
| Water Temperature | °C | 12.05 |
| Dissolved Oxygen | ppm | 4.04 |
| Redox | mV | 152 |
| Turbidity | NTU | 1.2 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 10/5/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCL N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: —
LABORATORY: Lancaster
DELIVERED VIA: Fed-Ex
DATE:
WEATHER CONDITIONS: Cool / Partly cloudy
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-9S / 10/8/14 |
| PROJECT NO. | 96206 | WELL NO. | MW-9S |
| SAMPLE DATE | 10/8/14 | SAMPLED BY | MAC |
| SAMPLE TIME (START/END) | 9:45 / 9:50 | SAMPLE SEQUENCE NO. | 8 |
| SAMPLE COLLECTION EQUIPMENT | Dedicated Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 17.70 / 17.76 | | |
| RECHARGE TIME | NA | MEASURED FROM | ☐ TOC ☑ TOR ☐ GS |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.31 |
| Specific Conductance | ms/cm | 0.764 |
| Water Temperature | °C | 12.49 |
| Dissolved Oxygen | ppm | 4.45 |
| Redox | mV | 83 |
| Turbidity | NTU | 23.6 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 10/8/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Slightly Cloudy

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD —

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE ____

WEATHER CONDITIONS Cool / Partly Cloudy

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

MS/MSD

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-8D / 10/8/14
PROJECT NO.: 96206
WELL NO.: MW-8D
SAMPLE DATE: 10 / 8 / 14
SAMPLED BY: MAC
SAMPLE TIME (START/END): 10:40 / 10:45
SAMPLE SEQUENCE NO.: 9
SAMPLE COLLECTION EQUIPMENT: Dedicated Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 14.68 / 14.68
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.35 |
| Specific Conductance | ms/cm | 0.740 |
| Water Temperature | °C | 13.01 |
| Dissolved Oxygen | ppm | 3.85 |
| Redox | mV | 75 |
| Turbidity | NTU | 6.0 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 10/8/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear
SAMPLING FLOW RATE: 100 mL/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3 FILTRATION METHOD: —
LABORATORY: Lancaster DELIVERED VIA: FED-EX DATE: ____
WEATHER CONDITIONS: Cool / Partly Cloudy
COMMENTS: A MS/MSD was Collected on This Sample.

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-8S / 10/8/14 |
| PROJECT NO. | 96206 | WELL NO. | MW-8S |
| SAMPLE DATE | 10 / 8 / 14 | SAMPLED BY | MW |
| SAMPLE TIME (START/END) | 11:30 / 11:35 | SAMPLE SEQUENCE NO. | 10 |
| SAMPLE COLLECTION EQUIPMENT | Dedicated Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 14.79 / 14.79 | | |
| RECHARGE TIME | N.A | MEASURED FROM | ☐ TOC ☑ TOR ☐ GS |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.35 |
| Specific Conductance | ms/cm | 0.808 |
| Water Temperature | °C | 14.24 |
| Dissolved Oxygen | ppm | 6.06 |
| Redox | mV | 136 |
| Turbidity | NTU | 0.6 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 10/8/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLING FLOW RATE: 100 mL/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD —

LABORATORY Lancaster DELIVERED VIA FED-EX DATE ____

WEATHER CONDITIONS Cool / Partly Sunny

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-16S |
| PROJECT NO. | 96206 | WELL NO. | MW-16S |
| SAMPLE DATE | 10 / 8 / 14 | SAMPLED BY | MC |
| SAMPLE TIME (START/END) | 13:20 / 13:25 | SAMPLE SEQUENCE NO. | 11 |
| SAMPLE COLLECTION EQUIPMENT | Portable Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 12.07 / 12.07 | | |
| RECHARGE TIME | NA | MEASURED FROM ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.34 |
| Specific Conductance | ms/cm | 0.560 |
| Water Temperature | °C | 14.29 |
| Dissolved Oxygen | ppm | 5.52 |
| Redox | mV | 162 |
| Turbidity | NTU | 32.1 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 10/8/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Slightly cloudy

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD —

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE ____

WEATHER CONDITIONS Cool / Partly Sunny

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-16D / 10/8/14 |
| PROJECT NO. | 96206 | WELL NO. | MW-16D |
| SAMPLE DATE | 10 / 8 / 14 | SAMPLED BY | MAC |
| SAMPLE TIME (START/END) | 14:25 / 14:30 | SAMPLE SEQUENCE NO. | 12 |
| SAMPLE COLLECTION EQUIPMENT | Portable Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 12.35 / 12.37 | | |
| RECHARGE TIME | NA | MEASURED FROM | ☐ TOC ☑ TOR ☐ GS |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.36 |
| Specific Conductance | ms/cm | 0.785 |
| Water Temperature | °C | 14.51 |
| Dissolved Oxygen | ppm | 3.79 |
| Redox | mV | 161 |
| Turbidity | NTU | 51.9 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 10/8/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Slightly cloudy

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | | PRESERVED? | | |
|---|---|---|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ | N ☑ | Y ☑ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD –

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE

WEATHER CONDITIONS Warm / Partly Sunny

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| PROJECT | CBS - Horseheads, NY | SAMPLE ID | MW-15S |
| PROJECT NO. | 96206 | WELL NO. | MW-15S |
| SAMPLE DATE | 10 / 5 / 14 | SAMPLED BY | MHL |
| SAMPLE TIME (START/END) | 15:45 / 15:50 | SAMPLE SEQUENCE NO. | 13 |
| SAMPLE COLLECTION EQUIPMENT | Portable Bladder Pump | | |
| DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) | 13.45 / 13.45 | | |
| RECHARGE TIME | NA | MEASURED FROM ☐ TOC ☑ TOR ☐ GS | |

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.33 |
| Specific Conductance | ms/cm | 0.870 |
| Water Temperature | °C | 14.65 |
| Dissolved Oxygen | ppm | 5.53 |
| Redox | mV | 175 |
| Turbidity | NTU | 162 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 10/5/14

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Cloudy, Tan-10

SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS 3 FILTRATION METHOD —

LABORATORY Lancaster DELIVERED VIA Fed-Ex DATE ____

WEATHER CONDITIONS Cool / Partly Cloudy

COMMENTS Strong Solvent odor in the Air during Sample Collection due to nearby Construction.

f21/corp

CUMMINGS RITER CONSULTANTS, INC.

# WATER SAMPLE COLLECTION REPORT

PROJECT: CBS - Horseheads, NY
SAMPLE ID: MW-15D / 101814
PROJECT NO.: 96206
WELL NO.: MW-15D
SAMPLE DATE: 10 / 8 / 14
SAMPLED BY: [illegible]
SAMPLE TIME (START/END): 16:50 / 16:55
SAMPLE SEQUENCE NO.: 14
SAMPLE COLLECTION EQUIPMENT: Portable Bladder Pump
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 13.27 / 13.27
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.33 |
| Specific Conductance | ms/cm | 0.851 |
| Water Temperature | °C | 14.99 |
| Dissolved Oxygen | ppm | 3.96 |
| Redox | mV | 149 |
| Turbidity | NTU | 93 |

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE: 10/8/14
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Cloudy, Turbid
SAMPLING FLOW RATE: 100 ml/min

## SAMPLE TYPES COLLECTED

| PARAMETER | VOLUME | # CONTAINERS | FIELD FILTERED? | PRESERVED? |
|---|---|---|---|---|
| Vocs (8260 Select) | 40 ml | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

NUMBER OF CONTAINERS: 3
FILTRATION METHOD: —
LABORATORY: Lancaster
DELIVERED VIA: Fed-Ex DATE: ____
WEATHER CONDITIONS: Cool / Partly cloudy
COMMENTS:

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-30 / 11201S |
| Project No. | 96206 | Well No. | CW-30 |
| Sample Date | 11 / 20 / 15 | Sampled By | MAL |
| Sample Time (start/end) | 14:40 / 14:45 | Sample Sequence No. | 1 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 12.94 / 12.94 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.26 |
| Specific Conductance | ms/cm | 0.940 |
| Water Temperature | °C | 11.65 |
| Dissolved Oxygen | ppm | 6.56 |
| Redox | mV | 54 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 11/20/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 11/22/15

Weather Conditions Cold / Cloudy

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Dup-1

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-35 / 11201S |
| Project No. | 96206 | Well No. | CW-35 |
| Sample Date | 1 / 20 / 15 | Sampled By | MAL |
| Sample Time (start/end) | 15:25 / 15:30 | Sample Sequence No. | 2 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 12.54 / 12.54 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.23 |
| Specific Conductance | ms/cm | 0.745 |
| Water Temperature | °C | 11.92 |
| Dissolved Oxygen | ppm | 7.43 |
| Redox | mV | 95 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 1/20/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

| | | | | | |
|---|---|---|---|---|---|
| Number of Containers | 6 | Filtration Method | – | | |
| Laboratory | Lancaster | Delivered Via | Fed-Ex | Date | 1/22/15 |
| Weather Conditions | Cold / Cloudy | | | | |
| Comments | Duplicate 1 was collected on this Sample. | | | | |

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-75 / 1120/15 |
| Project No. | 96206 | Well No. | MW-75 |
| Sample Date | 1 / 20 / 15 | Sampled By | MAL |
| Sample Time (start/end) | 16:20 / 16:25 | Sample Sequence No. | 3 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 12.30 / 12.30 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.16 |
| Specific Conductance | ms/cm | 1.250 |
| Water Temperature | °C | 11.96 |
| Dissolved Oxygen | ppm | 7.63 |
| Redox | mV | 123 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 1/20/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 1/22/15

Weather Conditions Cold / Cloudy

Comments

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-7D / 112015 |
| Project No. | 96206 | Well No. | MW-7D |
| Sample Date | 11/20/15 | Sampled By | MAL |
| Sample Time (start/end) | 17:10 / 17:15 | Sample Sequence No. | 4 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 12.60 / 12.60 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.10 |
| Specific Conductance | ms/cm | 1.241 |
| Water Temperature | °C | 11.30 |
| Dissolved Oxygen | ppm | 5.92 |
| Redox | mV | 8 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 11/20/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 11/22/15

Weather Conditions Cold / cloudy

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-1130/1/21/15 |
| Project No. | 96206 | Well No. | MW-1130 |
| Sample Date | 1/21/15 | Sampled By | MAL |
| Sample Time (start/end) | 9:10 / 9:15 | Sample Sequence No. | 5 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 10.15 / 10.15 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.02 |
| Specific Conductance | ms/cm | 1.278 |
| Water Temperature | °C | 10.84 |
| Dissolved Oxygen | ppm | 6.06 |
| Redox | mV | 80 |
| Turbidity | NTU | 5.5 |

Meter Calibration Performed? N ☐ Y ☑ Date 1/20/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

| | | | | | |
|---|---|---|---|---|---|
| Number of Containers | 3 | Filtration Method | — | | |
| Laboratory | Lancaster | Delivered Via | Fed-Ex | Date | 1/22/15 |
| Weather Conditions | Cold / Partly Cloudy | | | | |
| Comments | | | | | |

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-105 / 1/12/15 |
| Project No. | 96206 | Well No. | MW-105 |
| Sample Date | 1/21/15 | Sampled By | MAL |
| Sample Time (start/end) | 10:10 / 10:15 | Sample Sequence No. | 6 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 14.50 / 14.50 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.12 |
| Specific Conductance | ms/cm | 1.073 |
| Water Temperature | °C | 10.42 |
| Dissolved Oxygen | ppm | 6.15 |
| Redox | mV | 119 |
| Turbidity | NTU | 6.1 |

Meter Calibration Performed? N ☐ Y ☑ Date 1/21/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers

Filtration Method

Laboratory Lancaster

Delivered Via Fed-Ex Date 1/22/15

Weather Conditions Cold/Cloudy

Comments

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-90 / 112115 |
| Project No. | 96206 | Well No. | MW-90 |
| Sample Date | 1 / 21 / 15 | Sampled By | MAL |
| Sample Time (start/end) | 11:10 / 11:15 | Sample Sequence No. | 7 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 18.60 / 18.60 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.19 |
| Specific Conductance | ms/cm | 1.109 |
| Water Temperature | °C | 11.85 |
| Dissolved Oxygen | ppm | 5.82 |
| Redox | mV | 126 |
| Turbidity | NTU | 1.4 |

Meter Calibration Performed? N ☐ Y ☑ Date 1/21/15

Water Appearance, Immiscible Phases or Odors: clear

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 1/22/15

Weather Conditions Cold / cloudy

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-95/1121/15 |
| Project No. | 96206 | Well No. | MW-95 |
| Sample Date | 1/21/15 | Sampled By | MAL |
| Sample Time (start/end) | 12:05 / 12:10 | Sample Sequence No. | 8 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 18.52 / 18.52 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.05 |
| Specific Conductance | ms/cm | 1.153 |
| Water Temperature | °C | 12.60 |
| Dissolved Oxygen | ppm | 6.53 |
| Redox | mV | 126 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 1/21/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 1/22/15

Weather Conditions Cold / Cloudy

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-165 / 11~~21~~22/15 |
| Project No. | 96206 | Well No. | MW-165 |
| Sample Date | 11/21/15 | Sampled By | MAL |
| Sample Time (start/end) | 13:35 / 13:40 | Sample Sequence No. | 9 |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 13.20 / 13.20 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.14 |
| Specific Conductance | ms/cm | 1.295 |
| Water Temperature | °C | 11.18 |
| Dissolved Oxygen | ppm | 5.73 |
| Redox | mV | 132 |
| Turbidity | NTU | 160 |

Meter Calibration Performed? N ☐ Y ☑ Date 11/21/15

Water Appearance, Immiscible Phases or Odors: Cloudy, Fumes

Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 11/22/15

Weather Conditions Cool / Cloudy

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 1 / 21 / 15
Sample Time (start/end): 14:40 / 14:45
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 13.40 / 13.40
Recharge Time: NA

Sample ID: MW-16D / 112115
Well No.: MW-16D
Sampled By: MAL
Sample Sequence No.: 10
Measured from ☐ TOC ☑ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.16 |
| Specific Conductance | ms/cm | 1.198 |
| Water Temperature | °C | 10.70 |
| Dissolved Oxygen | ppm | 3.56 |
| Redox | mV | 125 |
| Turbidity | NTU | 105 |

Meter Calibration Performed? N ☐ Y ☑ Date 1/21/15
Water Appearance, Immiscible Phases or Odors: Cloudy, Tuned
Sampling Flow Rate: 100 mL / min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers: 3
Filtration Method: -
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 1/22/15
Weather Conditions: Cold / Snowy
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 1/21/15
Sample Time (start/end): 15:50 / 15:55
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 14.56 / 14.56
Recharge Time: NA

Sample ID: MW-15S / 1121/15
Well No.: MW-15S
Sampled By: MAL
Sample Sequence No.: 11
Measured from ☐ TOC ☑ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 5.13 |
| Specific Conductance | ms/cm | 1.315 |
| Water Temperature | °C | 11.04 |
| Dissolved Oxygen | ppm | 5.65 |
| Redox | mV | 138 |
| Turbidity | NTU | 308 |

Meter Calibration Performed? N ☐ Y ☑ Date 1/21/15
Water Appearance, Immiscible Phases or Odors: Very cloudy, Turbid
Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers: 3
Filtration Method: —
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 1/22/15
Weather Conditions: Cold / cloudy
Comments:

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 1/21/15
Sample Time (start/end): 16:45 / 16:50
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 14.40 / 14.40
Recharge Time: NA

Sample ID: MW-15D / 11215
Well No.: MW-15D
Sampled By: MAL
Sample Sequence No.: 12
Measured from ☐ TOC ☑ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.13 |
| Specific Conductance | ms/cm | 1.304 |
| Water Temperature | °C | 10.41 |
| Dissolved Oxygen | ppm | 4.33 |
| Redox | mV | 135 |
| Turbidity | NTU | 121 |

Meter Calibration Performed? N ☐ Y ☑ Date 1/21/15
Water Appearance, Immiscible Phases or Odors: Turbid, Cloudy
Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers: 3
Filtration Method: —
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 1/22/15
Weather Conditions: Cold / snowy / cloudy
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

MS / MSD

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-8D / 11221S |
| Project No. | 96206 | Well No. | MW-8D |
| Sample Date | 11/22/15 | Sampled By | MAL |
| Sample Time (start/end) | 8:55 / 9:05 | Sample Sequence No. | 13 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 15.90 / 15.90 | | |
| Recharge Time | NA | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.17 |
| Specific Conductance | ms/cm | 1.166 |
| Water Temperature | °C | 11.25 |
| Dissolved Oxygen | ppm | 3.77 |
| Redox | mV | 100 |
| Turbidity | NTU | 6.6 |

Meter Calibration Performed? N ☐ Y ☑ Date 11/22/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 Select) | 40 mL | 3 | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |

Number of Containers 9 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 11/22/15

Weather Conditions Cold / cloudy

Comments A MS / MSD was collected on this sample

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-85 / 11221.15 |
| Project No. | 96206 | Well No. | MW-85 |
| Sample Date | 11/22/15 | Sampled By | MAL |
| Sample Time (start/end) | 9:50 / 9:55 | Sample Sequence No. | 14 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 15.90 / 15.90 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.25 |
| Specific Conductance | ms/cm | 1.274 |
| Water Temperature | °C | 11.50 |
| Dissolved Oxygen | ppm | 6.54 |
| Redox | mV | 121 |
| Turbidity | NTU | 0.5 |

Meter Calibration Performed? N ☐ Y ☑ Date 11/22/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 11/22/15

Weather Conditions Cold / Sunny

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-3D / 4/7/15 |
| Project No. | 96206 | Well No. | CW-3D |
| Sample Date | 4 / 7 / 15 | Sampled By | MAL |
| Sample Time (start/end) | 13:45 / 13:50 | Sample Sequence No. | 1 |
| Sample Collection Equipment | | Dedicated Bladder Pump | |
| Depth to Water Prior to Purging/Sampling (ft) | | 12.00 / 12.00 | |
| Recharge Time | N/A | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.25 |
| Specific Conductance | ms/cm | 0.955 |
| Water Temperature | °C | 11.49 |
| Dissolved Oxygen | ppm | 5.22 |
| Redox | mV | 42 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/7/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method -

Laboratory Lancaster Delivered Via Fed-Ex Date 4/9/15

Weather Conditions Cold / rainy

Comments

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-35 / 41715 |
| Project No. | 96206 | Well No. | CW-35 |
| Sample Date | 4 / 7 / 15 | Sampled By | MAL |
| Sample Time (start/end) | 14:25 / 14:30 | Sample Sequence No. | 2 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 11.94 / 11.95 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.27 |
| Specific Conductance | ms/cm | 0.959 |
| Water Temperature | °C | 11.34 |
| Dissolved Oxygen | ppm | 5.97 |
| Redox | mV | 94 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/7/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method –

Laboratory Lancaster Delivered Via Fed-Ex Date 4/9/15

Weather Conditions Cold / rainy

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-10S / 4/7/15 |
| Project No. | 96206 | Well No. | MW-10S |
| Sample Date | 4/7/15 | Sampled By | MAL |
| Sample Time (start/end) | 15:30 / 15:35 | Sample Sequence No. | 3 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 13.03 / 13.10 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.27 |
| Specific Conductance | ms/cm | 1.052 |
| Water Temperature | °C | 8.55 |
| Dissolved Oxygen | ppm | 8.03 |
| Redox | mV | 119 |
| Turbidity | NTU | 2.3 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/7/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

| | | | | | |
|---|---|---|---|---|---|
| Number of Containers | 3 | Filtration Method | — | | |
| Laboratory | Lancaster | Delivered Via | Fed-Ex | Date | 4/9/15 |
| Weather Conditions | Cool/rainy | | | | |
| Comments | | | | | |

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-75/4/7/15 |
| Project No. | 96206 | Well No. | MW-75 |
| Sample Date | 4/7/15 | Sampled By | MAL |
| Sample Time (start/end) | 16:50 / 16:55 | Sample Sequence No. | 4 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 11.43 / 11.43 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.19 |
| Specific Conductance | ms/cm | 1.464 |
| Water Temperature | °C | 11.22 |
| Dissolved Oxygen | ppm | 6.47 |
| Redox | mV | 126 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/7/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 4/9/15

Weather Conditions Cool / rainy

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-70 / 4/7/15 |
| Project No. | 96206 | Well No. | MW-70 |
| Sample Date | 4 / 7 / 15 | Sampled By | MAL |
| Sample Time (start/end) | 17:45 / 17:50 | Sample Sequence No. | 5 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 11.72 / 11.72 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.19 |
| Specific Conductance | ms/cm | 1.340 |
| Water Temperature | °C | 11.62 |
| Dissolved Oxygen | ppm | 4.75 |
| Redox | mV | 51 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/7/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 4/9/15

Weather Conditions Cool / rainy

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

MS/MSD

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-95/4/8/15 |
| Project No. | 96206 | Well No. | MW-95 |
| Sample Date | 4/8/15 | Sampled By | MAL |
| Sample Time (start/end) | 10.50 / 11.00 | Sample Sequence No. | 6 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 17.47 / 17.50 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.23 |
| Specific Conductance | ms/cm | 2.05 |
| Water Temperature | °C | 10.56 |
| Dissolved Oxygen | ppm | 7.07 |
| Redox | mV | 123 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/8/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers 3 x 9 Filtration Method -

Laboratory Lancaster Delivered Via Fed-Ex Date 4/9/15

Weather Conditions Cool/rain

Comments A MS/MSD was collected on this sample

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-9D / 4/5/15 |
| Project No. | 96206 | Well No. | MW-9D |
| Sample Date | 4 / 5 / 15 | Sampled By | MAL |
| Sample Time (start/end) | 9:55 / 10:00 | Sample Sequence No. | 7 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 17.30 / 17.30 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.26 |
| Specific Conductance | ms/cm | 1.110 |
| Water Temperature | °C | 11.57 |
| Dissolved Oxygen | ppm | 5.35 |
| Redox | mV | 120 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/5/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 4/9/15

Weather Conditions Cold / Steady Rain

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-113D / 4181S |
| Project No. | 96206 | Well No. | MW-113D |
| Sample Date | 4/8/15 | Sampled By | MAL |
| Sample Time (start/end) | 8:45 / 8:50 | Sample Sequence No. | 8 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 9.20 / 9.21 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.15 |
| Specific Conductance | ms/cm | 1.447 |
| Water Temperature | °C | 11.54 |
| Dissolved Oxygen | ppm | 5.21 |
| Redox | mV | 102 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/8/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 4/9/15

Weather Conditions Cool / rain

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 4 / 8 / 15
Sample Time (start/end): 12:25 / 12:30
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 11.95 / 11.95
Recharge Time: NA

Sample ID: MW-16S / 4/8/15
Well No.: MW-16S
Sampled By: MAL
Sample Sequence No.: 9
Measured from ☐ TOC ☑ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.24 |
| Specific Conductance | ms/cm | 1.335 |
| Water Temperature | °C | 11.50 |
| Dissolved Oxygen | ppm | 5.83 |
| Redox | mV | 129 |
| Turbidity | NTU | 97.2 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/8/15
Water Appearance, Immiscible Phases or Odors: Cloudy, Turbid
Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers: 3
Filtration Method: —
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 4/9/15
Weather Conditions: Cool / Rainy
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 4 / 8 / 15
Sample Time (start/end): 13:35 / 13:40
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 12.25 / 12.25
Recharge Time: NA

Sample ID: DUP-1 MW-16D 040815
Well No.: MW-16D
Sampled By: MAL
Sample Sequence No.: 10
Measured from ☐ TOC ☑ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.24 |
| Specific Conductance | ms/cm | 1.213 |
| Water Temperature | °C | 11.71 |
| Dissolved Oxygen | ppm | 4.04 |
| Redox | mV | 136 |
| Turbidity | NTU | 81.5 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/8/15
Water Appearance, Immiscible Phases or Odors: Cloudy, Tan-g
Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☑ | Y ☑ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers: 3 6
Filtration Method: -
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 4/9/15
Weather Conditions: Cool / rainy
Comments: Duplicate 1 was collected of this sample

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-15S / 4151S |
| Project No. | 96206 | Well No. | MW-15S |
| Sample Date | 4 / 8 / 15 | Sampled By | MAL |
| Sample Time (start/end) | 14:35 / 14:40 | Sample Sequence No. | 11 |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 13.35 / 13.35 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.23 |
| Specific Conductance | ms/cm | 1.356 |
| Water Temperature | °C | 11.33 |
| Dissolved Oxygen | ppm | 5.95 |
| Redox | mV | 147 |
| Turbidity | NTU | > 1000 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/8/15

Water Appearance, Immiscible Phases or Odors: Very Cloudy, Turbid

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method -

Laboratory Lancaster Delivered Via Fed-Ex Date 4/9/15

Weather Conditions Cool / Rainy

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-15D/4/F/15 |
| Project No. | 96206 | Well No. | MW-15D |
| Sample Date | 4/F/15 | Sampled By | MAL |
| Sample Time (start/end) | 15:50 / 15:55 | Sample Sequence No. | 12 |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 13.15 / 13:15 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.29 |
| Specific Conductance | ms/cm | 1.306 |
| Water Temperature | °C | 11.5F |
| Dissolved Oxygen | ppm | 4.42 |
| Redox | mV | 150 |
| Turbidity | NTU | 66.5 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/F/15

Water Appearance, Immiscible Phases or Odors: Slightly Cloudy

Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 Select) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

| | | | | | |
|---|---|---|---|---|---|
| Number of Containers | 3 | Filtration Method | — | | |
| Laboratory | Lancaster | Delivered Via | Fed-Ex | Date | 4/9/15 |
| Weather Conditions | Cool/rainy | | | | |
| Comments | | | | | |

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-80 / 4/9/15 |
| Project No. | 96206 | Well No. | MW-80 |
| Sample Date | 4 / 9 / 15 | Sampled By | MAL |
| Sample Time (start/end) | 6:20 / 6:25 | Sample Sequence No. | 13 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 14.51 / 14.51 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.23 |
| Specific Conductance | ms/cm | 1.105 |
| Water Temperature | °C | 12.16 |
| Dissolved Oxygen | ppm | 3.74 |
| Redox | mV | 63 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/9/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 Select) | 40 mL | 3 | Y ☐ | N ☑ | Y ☑ HCl | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 4/9/15

Weather Conditions Cool / Cloudy

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-8S / 4191S |
| Project No. | 96206 | Well No. | MW-8S |
| Sample Date | 4 / 9 / 15 | Sampled By | MAL |
| Sample Time (start/end) | 9:05 / 9:10 | Sample Sequence No. | 14 |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 14.60 / 14.60 | | |
| Recharge Time | NA | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.25 |
| Specific Conductance | ms/cm | 1241 |
| Water Temperature | °C | 11.25 |
| Dissolved Oxygen | ppm | 6.92 |
| Redox | mV | 191 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☑ Date 4/9/15

Water Appearance, Immiscible Phases or Odors: Clear

Sampling Flow Rate: 100 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☑ HCl | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method —

Laboratory Lancaster Delivered Via Fed-Ex Date 4/9/15

Weather Conditions Cool / cloudy

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/4/15
Sample Time (start/end): 1605 / 1610
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 13.62 /
Recharge Time: N/A

Sample ID: MW-105D 8/4/15
Well No.: MW-105D
Sampled By: KMS
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | |
| Specific Conductance | ms/cm | |
| Water Temperature | °C | |
| Dissolved Oxygen | ppm | |
| Redox | mV | |
| Turbidity | NTU | |

Meter Calibration Performed? N ☐ Y ☒ Date 8/4/15
Water Appearance, Immiscible Phases or Odors: Clear, no odor
Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date:
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/4/15
Sample Time (start/end): 1445 / 1450
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): /
Recharge Time: N/A

Sample ID: MW-100D 8/4/15
Well No.: MW-100D
Sampled By: KMS
Sample Sequence No.:

Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.48 |
| Specific Conductance | ms/cm | 1.460 |
| Water Temperature | °C | 15.11 |
| Dissolved Oxygen | ppm | 0.78 |
| Redox | mV | 116 |
| Turbidity | NTU | 23.8 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/4/15
Water Appearance, Immiscible Phases or Odors:
Sampling Flow Rate: 300 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date:
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

MS, MSD (8/4/15 (MW-20) → DUP

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-7S/8/4/15 |
| Project No. | 96206 | Well No. | CW-7S |
| Sample Date | 8 / 4 / 15 | Sampled By | KMS |
| Sample Time (start/end) | 1340~~1300~~ / ~~1340~~ 1345 | Sample Sequence No. | |
| Sample Collection Equipment | | Dedicated Bladder Pump | |
| Depth to Water Prior to Purging/Sampling (ft) | 14.81 | / 14.88 | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.67 |
| Specific Conductance | ms/cm | 2.05 |
| Water Temperature | °C | 12.84 |
| Dissolved Oxygen | ppm | 4.78 |
| Redox | mV | 83 |
| Turbidity | NTU | 4.2 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/4/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate:

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | ~~8~~ 12 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |

Number of Containers 12 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date

Weather Conditions

Comments MS/MSD/DUP also Sampled

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/4/15
Sample Time (start/end): 1206 / ~~1220~~ 1200 1205
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 14.97 /
Recharge Time: N/A

Sample ID: CW-7D 8/4/15
Well No.: CW-7D
Sampled By: KMS
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.64 |
| Specific Conductance | ms/cm | 0.946 |
| Water Temperature | °C | 13.38 |
| Dissolved Oxygen | ppm | 6.74 |
| Redox | mV | 113 |
| Turbidity | NTU | 123 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/4/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 150 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date:
Weather Conditions: Sunny, ~80°F
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-1015 8/4/15 |
| Project No. | 96206 | Well No. | MW-1015 |
| Sample Date | 8/4/15 | Sampled By | KMS |
| Sample Time (start/end) | 1100 ~~1035~~ / ~~1400~~ 1105 | Sample Sequence No. | |
| Sample Collection Equipment | | Dedicated Bladder Pump | |
| Depth to Water Prior to Purging/Sampling (ft) | 9.78 | 19.82 | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.52 |
| Specific Conductance | ms/cm | 2.92 |
| Water Temperature | °C | 16.02 |
| Dissolved Oxygen | ppm | 1.25 |
| Redox | mV | 6 |
| Turbidity | NTU | 70.1 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/4/15

Water Appearance, Immiscible Phases or Odors: @ slightly cloudy

Sampling Flow Rate: 150 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ | HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date

Weather Conditions Sunny, ~75°F

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Sample ID: MW-101I 8/4/15
Project No.: 96206
Well No.: MW-101I
Sample Date: 8/4/15
Sampled By: KMS
Sample Time (start/end): 1010 ~~0930~~ / ~~1015~~ 1015
Sample Sequence No.:
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 8.92 ft /
Recharge Time: N/A
Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.77 |
| Specific Conductance | ms/cm | 2.25 |
| Water Temperature | °C | 13.31 |
| Dissolved Oxygen | ppm | 1.69 |
| Redox | mV | 171 |
| Turbidity | NTU | 209 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/4/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 200 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date:
Weather Conditions: clear, sunny ~ 75°F
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Sample ID: MW-101I 8/4/15
Project No.: 96206
Well No.: MW-101I
Sample Date: 8/4/15
Sampled By: KMS
Sample Time (start/end): 1010 / 1015
Sample Sequence No.:
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 8.92 ft /
Recharge Time: N/A
Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.77 |
| Specific Conductance | ms/cm | 2.25 |
| Water Temperature | °C | 13.31 |
| Dissolved Oxygen | ppm | 1.69 |
| Redox | mV | 171 |
| Turbidity | NTU | 209 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/4/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 200 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date:
Weather Conditions: clear, sunny ~ 75°F
Comments:

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/4/15
Sample Time (start/end): 1100 ~~1025~~ 1400 1105
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 9.78 19.82
Recharge Time: N/A

Sample ID: MW-1015 8/4/15
Well No.: MW-1015
Sampled By: KMS
Sample Sequence No.:

Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.52 |
| Specific Conductance | ms/cm | 2.92 |
| Water Temperature | °C | 16.02 |
| Dissolved Oxygen | ppm | 1.25 |
| Redox | mV | 6 |
| Turbidity | NTU | 70.1 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/4/15
Water Appearance, Immiscible Phases or Odors: ~~a~~ slighty cloudy
Sampling Flow Rate: 150 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date:
Weather Conditions: Sunny, ~75°F
Comments:

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/4/15
Sample Time (start/end): 1206 ~~1220~~ / ~~1250~~ 1205
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 14.97 /
Recharge Time: N/A

Sample ID: CW-7D 8/4/15
Well No.: CW-7D
Sampled By: KMS
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.64 |
| Specific Conductance | ms/cm | 0.946 |
| Water Temperature | °C | 13.38 |
| Dissolved Oxygen | ppm | 6.74 |
| Redox | mV | 113 |
| Turbidity | NTU | 123 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/4/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 150 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date:
Weather Conditions: Sunny, ~80°F
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

7 MS, MSD / 8/4/15 (MW-120) → DUP

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-7S/8/4/15 |
| Project No. | 96206 | Well No. | CW-7S |
| Sample Date | 8 / 4 / 15 | Sampled By | KMS |
| Sample Time (start/end) | 1340 ~~1300~~ / ~~1340~~ 1345 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 14.81 | / 14.88 | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 8.67 |
| Specific Conductance | ms/cm | 2.05 |
| Water Temperature | °C | 12.84 |
| Dissolved Oxygen | ppm | 4.78 |
| Redox | mV | 83 |
| Turbidity | NTU | 4.2 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/4/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate:

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | ~~8~~ 12 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 12 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date

Weather Conditions

Comments MS / MSD / DUP also Sampled

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/4/15
Sample Time (start/end): 1445 / 1450
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): /
Recharge Time: N/A

Sample ID: MW-100D 8/4/15
Well No.: MW-100D
Sampled By: KMS
Sample Sequence No.:

Measured from ☐ TOC ☒ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 8.48 |
| Specific Conductance | ms/cm | 1.460 |
| Water Temperature | °C | 15.11 |
| Dissolved Oxygen | ppm | 0.78 |
| Redox | mV | 116 |
| Turbidity | NTU | 23.8 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/4/15
Water Appearance, Immiscible Phases or Odors:
Sampling Flow Rate: 300 ml/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Laboratory: Lancaster
Filtration Method:
Delivered Via: Fed-Ex
Date:
Weather Conditions:
Comments:

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/4/15
Sample Time (start/end): 1605 / 1610
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 13.62 /
Recharge Time: N/A

Sample ID: MW-105D 8/4/15
Well No.: MW-105D
Sampled By: KMS
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | |
| Specific Conductance | ms/cm | |
| Water Temperature | °C | |
| Dissolved Oxygen | ppm | |
| Redox | mV | |
| Turbidity | NTU | |

Meter Calibration Performed? N ☐ Y ☒ Date 8/4/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date:
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-7D 8/5/15 |
| Project No. | 96206 | Well No. | MW-7D |
| Sample Date | 8/5/15 | Sampled By | KMS |
| Sample Time (start/end) | 0925 1030 | Sample Sequence No. | |
| Sample Collection Equipment | | Dedicated Bladder Pump | |
| Depth to Water Prior to Purging/Sampling (ft) | | 10.94 / 10.94 | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | ~~7.452~~ 7.53 |
| Specific Conductance | ms/cm | 1.452 |
| Water Temperature | °C | 14.20 |
| Dissolved Oxygen | ppm | 5.46 |
| Redox | mV | 124 |
| Turbidity | NTU | 8.8 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: 150 mL/L

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 8/6/15

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-75 8/5/15 |
| Project No. | 96206 | Well No. | MW-75 |
| Sample Date | 8/5/15 | Sampled By | KMS |
| Sample Time (start/end) | 1010 / 1015 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 10.65 / 10.70 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.59 |
| Specific Conductance | ms/cm | 1.57 |
| Water Temperature | °C | 14.35 |
| Dissolved Oxygen | ppm | 6.70 |
| Redox | mV | 133 |
| Turbidity | NTU | 15.0 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 8/6/15

Weather Conditions

Comments

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WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/5/15
Sample Time (start/end): 1130 / 1135
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 8.61 / 8.65
Recharge Time: NA

Sample ID: MW-113D 8/5/15
Well No.: MW-113D
Sampled By: KMS
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.69 |
| Specific Conductance | ms/cm | 1.431 |
| Water Temperature | °C | 13.89 |
| Dissolved Oxygen | ppm | 5.76 |
| Redox | mV | 80 |
| Turbidity | NTU | 33.2 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 8/6/15
Weather Conditions:
Comments:

f21/com

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-105 8/5/15 |
| Project No. | 96206 | Well No. | MW-105 |
| Sample Date | 8 15 15 | Sampled By | KMS |
| Sample Time (start/end) | 1450 1455 | Sample Sequence No. | |
| Sample Collection Equipment | | Dedicated Bladder Pump | |
| Depth to Water Prior to Purging/Sampling (ft) | | 12.68 / 12.75 | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.67 |
| Specific Conductance | ms/cm | 1.020 |
| Water Temperature | °C | 14.17 |
| Dissolved Oxygen | ppm | 4.90 |
| Redox | mV | 94 |
| Turbidity | NTU | 7.1 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 12 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 12 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 8/6/15

Weather Conditions Sunny

Comments MS/MSD/DUP collected also Sampled

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-3D 8/5/15 |
| Project No. | 96206 | Well No. | CW-3D |
| Sample Date | 8/5/15 | Sampled By | KMS |
| Sample Time (start/end) | 1235 / 1240 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 10.32 / 10.34 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.88 |
| Specific Conductance | ms/cm | 0.941 |
| Water Temperature | °C | 12.11 |
| Dissolved Oxygen | ppm | 6.21 |
| Redox | mV | 33 |
| Turbidity | NTU | 19.7 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method 8

Laboratory Lancaster Delivered Via Fed-Ex Date 8/6/15

Weather Conditions

Comments

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/5/15
Sample Time (start/end): 1325 / 1340
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 10.89 / 10.91
Recharge Time: N/A

Sample ID: CW-35 8/5/15
Well No.: CW-35
Sampled By: KMS
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.90 |
| Specific Conductance | ms/cm | 0.946 |
| Water Temperature | °C | 12.1 |
| Dissolved Oxygen | ppm | 6.45 |
| Redox | mV | 107 |
| Turbidity | NTU | 8.6 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☒ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers:
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 8/6/15
Weather Conditions:
Comments:

f21/coro

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/5/15
Sample Time (start/end): 1620 / 1625
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 16.63 / 16.73
Recharge Time: N/A

Sample ID: MW-9S 8/5/15
Well No.: MW-9S
Sampled By: KMS
Sample Sequence No.:
Measured from ☐ TOC ☐ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.81 |
| Specific Conductance | ms/cm | 1.109 |
| Water Temperature | °C | 13.10 |
| Dissolved Oxygen | ppm | 5.43 |
| Redox | mV | 155 |
| Turbidity | NTU | 19.1 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 8/6/15
Weather Conditions:
Comments:

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/5/15
Sample Time (start/end): 1720 / 1725
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 16.83 / 16.87
Recharge Time: N/A

Sample ID: MW-9D 8/5/15
Well No.: MW-9D
Sampled By: KMS
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.88 |
| Specific Conductance | ms/cm | 1.041 |
| Water Temperature | °C | 13.05 |
| Dissolved Oxygen | ppm | 4.31 |
| Redox | mV | 167 |
| Turbidity | NTU | 1.0 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15
Water Appearance, Immiscible Phases or Odors: Clear, no odor
Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 8/6/15
Weather Conditions: Sunny
Comments:

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-85 8/6/15 |
| Project No. | 96206 | Well No. | MW-85 |
| Sample Date | 8/6/15 | Sampled By | KMS |
| Sample Time (start/end) | 0855 0900 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 14.40 / 14.42 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.70 |
| Specific Conductance | ms/cm | 1.164 |
| Water Temperature | °C | 14.17 |
| Dissolved Oxygen | ppm | 6.52 |
| Redox | mV | 175 |
| Turbidity | NTU | 4.1 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/6/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Courier Fed-Ex Date 8/6/15

Weather Conditions Sunny

Comments

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/6/15
Sample Time (start/end): 1000 / 1105
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 14.25 / 14.29
Recharge Time: N/A

Sample ID: MW-8D 8/6/15
Well No.: MW-8D
Sampled By: KMS
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | ~~6.00~~ 6.80 |
| Specific Conductance | ms/cm | 1.03 |
| Water Temperature | °C | 13.86 |
| Dissolved Oxygen | ppm | 4.30 |
| Redox | mV | 82 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☐ Date 8/6/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 8/6/15
Weather Conditions: sunny
Comments: B Changed meter to Horiba U-52

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/6/15
Sample Time (start/end): 1230 / 1235
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 11.33 / 11.37
Recharge Time: N/A

Sample ID: MW-165 8/6/15
Well No.: MW-165
Sampled By: KMS
Sample Sequence No.:

Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.78 |
| Specific Conductance | ms/cm | 1.23 |
| Water Temperature | °C | 15.81 |
| Dissolved Oxygen | ppm | 6.74 |
| Redox | mV | ~~170~~ 128 |
| Turbidity | NTU | ~~170~~ 170 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/6/15
Water Appearance, Immiscible Phases or Odors: ~~clear~~, no odor, slightly cloudy
Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 8/6/15
Weather Conditions:
Comments:

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-16D 8/6/15 |
| Project No. | 96206 | Well No. | MW-16D |
| Sample Date | 8/6/15 | Sampled By | KMS |
| Sample Time (start/end) | 1250/1340 | Sample Sequence No. | |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 11.61 / 11.63 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☐ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.95 |
| Specific Conductance | ms/cm | 1.09 |
| Water Temperature | °C | 16.19 |
| Dissolved Oxygen | ppm | 7.72 |
| Redox | mV | 133 |
| Turbidity | NTU | 0264 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/6/15

Water Appearance, Immiscible Phases or Odors: Slightly cloudy, no odor

Sampling Flow Rate: ~200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | ~~N ☒~~ | Y ☐ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |

Number of Containers _____ Filtration Method _____

Laboratory Lancaster Delivered Via Fed-Ex Date 8/6/15

Weather Conditions Sunny

Comments _____

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-15S 8/6/15 |
| Project No. | 96206 | Well No. | MW-15S |
| Sample Date | 8/6/15 | Sampled By | KMS |
| Sample Time (start/end) | 1430/1435 | Sample Sequence No. | |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 13.71 | 13.73 | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.92 |
| Specific Conductance | ms/cm | 1.28 |
| Water Temperature | °C | 17.05 |
| Dissolved Oxygen | ppm | 6.30 |
| Redox | mV | 146 |
| Turbidity | NTU | >1000 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/6/15

Water Appearance, Immiscible Phases or Odors: very cloudy, no odor

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 8/6/15

Weather Conditions sunny

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/6/15
Sample Time (start/end): 1515 / 1520
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 13.52 / 13.53
Recharge Time: N/A

Sample ID: MW-15D 8/6/15
Well No.: MW-15D
Sampled By: KMS
Sample Sequence No.:

Measured from ☐ TOC ☐ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.06 |
| Specific Conductance | ms/cm | 1.17 |
| Water Temperature | °C | 18.12 |
| Dissolved Oxygen | ppm | 2.01 |
| Redox | mV | 143 |
| Turbidity | NTU | 208 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/6/15
Water Appearance, Immiscible Phases or Odors: Slightly cloudy / no odor
Sampling Flow Rate: ~~150~~ 150 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 8/6/15
Weather Conditions: sunny
Comments:

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-9D 8/5/15 |
| Project No. | 96206 | Well No. | MW-9D |
| Sample Date | 8/5/15 | Sampled By | KMS |
| Sample Time (start/end) | 1720 / 1725 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 16.83 / 16.87 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.88 |
| Specific Conductance | ms/cm | 1.041 |
| Water Temperature | °C | 13.05 |
| Dissolved Oxygen | ppm | 431 |
| Redox | mV | 167 |
| Turbidity | NTU | 1.0 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15

Water Appearance, Immiscible Phases or Odors: Clear, no odor

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

| | | | | | |
|---|---|---|---|---|---|
| Number of Containers | 3 | Filtration Method | | | |
| Laboratory | Lancaster | Delivered Via | Fed-Ex | Date | 8/6/15 |
| Weather Conditions | Sunny | | | | |
| Comments | | | | | |

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/5/15
Sample Time (start/end): 1620 / 1625
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 16.63 / 16.73
Recharge Time: N/A

Sample ID: MW-9S 8/5/15
Well No.: MW-9S
Sampled By: KMS
Sample Sequence No.:
Measured from ☐ TOC ☐ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.81 |
| Specific Conductance | ms/cm | 1.109 |
| Water Temperature | °C | 13.10 |
| Dissolved Oxygen | ppm | 5.43 |
| Redox | mV | 155 |
| Turbidity | NTU | 19.1 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 8/6/15
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-103 8/5/15 |
| Project No. | 96206 | Well No. | MW-103 |
| Sample Date | 8 15 115 | Sampled By | KMS |
| Sample Time (start/end) | 1450 1455 | Sample Sequence No. | |
| Sample Collection Equipment | | Dedicated Bladder Pump | |
| Depth to Water Prior to Purging/Sampling (ft) | | 12.68 / 12.75 | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.67 |
| Specific Conductance | ms/cm | 1.020 |
| Water Temperature | °C | 14.17 |
| Dissolved Oxygen | ppm | 4.90 |
| Redox | mV | 94 |
| Turbidity | NTU | 7.1 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15

Water Appearance, Immiscible Phases or Odors: Clear, no odor

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 12 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 12 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 8/6/15

Weather Conditions Sunny

Comments MS/MSD/DUP-1 were also sampled

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-35 8/5/15 |
| Project No. | 96206 | Well No. | CW-35 |
| Sample Date | 8/5/15 | Sampled By | KMS |
| Sample Time (start/end) | 1325 / 1340 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 10.89 / 10.91 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.90 |
| Specific Conductance | ms/cm | 0.946 |
| Water Temperature | °C | 12.11 |
| Dissolved Oxygen | ppm | 6.45 |
| Redox | mV | 107 |
| Turbidity | NTU | 8.6 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15

Water Appearance, Immiscible Phases or Odors: Clear, no odor

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☒ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers | Filtration Method

Laboratory Lancaster | Delivered Via Fed-Ex | Date 8/6/15

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-3D 8/5/15 |
| Project No. | 96206 | Well No. | CW-3D |
| Sample Date | 8/5/15 | Sampled By | KMS |
| Sample Time (start/end) | 1235 / 1240 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 10.32 / 10.34 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.88 |
| Specific Conductance | ms/cm | 0.941 |
| Water Temperature | °C | 12.11 |
| Dissolved Oxygen | ppm | 6.21 |
| Redox | mV | 33 |
| Turbidity | NTU | 19.7 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method 8

Laboratory Lancaster Delivered Via Fed-Ex Date 8/6/15

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/5/15
Sample Time (start/end): 1130 / 1135
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 8.61 / 8.65
Recharge Time: NA

Sample ID: MW-113D 8/5/15
Well No.: MW-113D
Sampled By: KMS
Sample Sequence No.:

Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.69 |
| Specific Conductance | ms/cm | 1.431 |
| Water Temperature | °C | 13.89 |
| Dissolved Oxygen | ppm | 5.76 |
| Redox | mV | 80 |
| Turbidity | NTU | 33.2 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 8/6/15
Weather Conditions:
Comments:

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/15/15
Sample Time (start/end): 1010 / 1015
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 10.65 / 10.70
Recharge Time: N/A

Sample ID: MW-75 8/5/15
Well No.: MW-75
Sampled By: KMS
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.59 |
| Specific Conductance | ms/cm | 1.57 |
| Water Temperature | °C | 14.35 |
| Dissolved Oxygen | ppm | 6.70 |
| Redox | mV | 133 |
| Turbidity | NTU | 15.0 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 8/16/15
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/5/15
Sample Time (start/end): 0925 / 0930
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 10.94 / 10.94
Recharge Time: N/A

Sample ID: MW-7D 8/5/15
Well No.: MW-7D
Sampled By: KMS
Sample Sequence No.:

Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | ~~7.52~~ 7.53 |
| Specific Conductance | ms/cm | 1.452 |
| Water Temperature | °C | 14.20 |
| Dissolved Oxygen | ppm | 5.46 |
| Redox | mV | 124 |
| Turbidity | NTU | 8.8 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/5/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 150 mL/L

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ~~☒~~ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 8/6/15
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-15D 8/6/15 |
| Project No. | 96206 | Well No. | MW-15D |
| Sample Date | 8/6/15 | Sampled By | KMS |
| Sample Time (start/end) | 1515 / 1520 | Sample Sequence No. | |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 13.52 / 13.53 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☐ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.06 |
| Specific Conductance | ms/cm | 1.17 |
| Water Temperature | °C | 18.12 |
| Dissolved Oxygen | ppm | 2.01 |
| Redox | mV | 143 |
| Turbidity | NTU | 208 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/6/15

Water Appearance, Immiscible Phases or Odors: slightly cloudy / no odor

Sampling Flow Rate: ~~150~~ 150 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 8/6/15

Weather Conditions sunny

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-155 8/6/15 |
| Project No. | 96206 | Well No. | MW-155 |
| Sample Date | 8/6/15 | Sampled By | KMS |
| Sample Time (start/end) | 1430/1435 | Sample Sequence No. | |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 13.71 / 13.73 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.92 |
| Specific Conductance | ms/cm | 1.28 |
| Water Temperature | °C | 17.05 |
| Dissolved Oxygen | ppm | 6.30 |
| Redox | mV | 146 |
| Turbidity | NTU | >1000 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/6/15

Water Appearance, Immiscible Phases or Odors: very cloudy, no odor

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 8/6/15

Weather Conditions sunny

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-16D 8/16/15 |
| Project No. | 96206 | Well No. | MW-16D |
| Sample Date | 8/16/15 | Sampled By | KMS |
| Sample Time (start/end) | 1250/1340 | Sample Sequence No. | |
| Sample Collection Equipment | | Portable Bladder Pump | |
| Depth to Water Prior to Purging/Sampling (ft) | | 11.61 / 11.63 | |
| Recharge Time | N/A | Measured from ☐ TOC ☐ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.95 |
| Specific Conductance | ms/cm | 1.09 |
| Water Temperature | °C | 16.19 |
| Dissolved Oxygen | ppm | 7.72 |
| Redox | mV | 133 |
| Turbidity | NTU | 0264 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/16/15

Water Appearance, Immiscible Phases or Odors: slightly cloudy, no odor

Sampling Flow Rate: ~200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N/A ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ___ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ___ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ___ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ___ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ___ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ___ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ___ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ___ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ___ | N ☐ |

Number of Containers ____ Filtration Method ____

Laboratory Lancaster Delivered Via Fed-Ex Date 8/16/15

Weather Conditions Sunny

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 8/6/15
Sample Time (start/end): 1230 / 1235
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 11.33 / 11.37
Recharge Time: N/A

Sample ID: MW-165 8/6/15
Well No.: MW-165
Sampled By: KMS
Sample Sequence No.:

Measured from ☐ TOC ☒ ~~TOR~~ ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.78 |
| Specific Conductance | ms/cm | 1.23 |
| Water Temperature | °C | 15.81 |
| Dissolved Oxygen | ppm | 6.74 |
| Redox | mV | ~~170~~ 128 |
| Turbidity | NTU | ~~178~~ 170 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/6/15

Water Appearance, Immiscible Phases or Odors: ~~clear~~, no odor, slightly cloudy

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 8/6/15
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-8D 8/6/15 |
| Project No. | 96206 | Well No. | MW-8D |
| Sample Date | 8/6/15 | Sampled By | KMS |
| Sample Time (start/end) | 1000 1105 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 14.25 | 14.29 | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | ~~6.00~~ 6.80 |
| Specific Conductance | ms/cm | 1.03 |
| Water Temperature | °C | 13.86 |
| Dissolved Oxygen | ppm | 4.30 |
| Redox | mV | 82 |
| Turbidity | NTU | 0.0 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/6/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 8/6/15

Weather Conditions sunny

Comments B Changed meter to Horiba U-52

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-85 8/6/15 |
| Project No. | 96206 | Well No. | MW-85 |
| Sample Date | 8/6/15 | Sampled By | KMS |
| Sample Time (start/end) | 0855 0900 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 14.40 | 14.42 | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.70 |
| Specific Conductance | ms/cm | 1.164 |
| Water Temperature | °C | 14.17 |
| Dissolved Oxygen | ppm | 6.52 |
| Redox | mV | 175 |
| Turbidity | NTU | 4.1 |

Meter Calibration Performed? N ☐ Y ☒ Date 8/6/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Courier Fed-Ex Date 8/6/15

Weather Conditions Sunny

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-105/11/16/15 |
| Project No. | 96206 | Well No. | MW-105 |
| Sample Date | 11/16/15 | Sampled By | K. Steck |
| Sample Time (start/end) | 1535/1540 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 12.91 / 12.93 | | |
| Recharge Time | NA | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.44 |
| Specific Conductance | ms/cm | 1.002 |
| Water Temperature | °C | 13.84 |
| Dissolved Oxygen | ppm | 6.19 |
| Redox | mV | 52 |
| Turbidity | NTU | 24.6 |

Meter Calibration Performed? N ☒ Y ☐ Date 11/16/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 11/16/15
Sample Time (start/end): 1430 / 1435
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 9.89 / 9.94
Recharge Time: N/A

Sample ID: MW-113D/DUP/11/16/15
Well No.: MW-113D
Sampled By: K. Steck
Sample Sequence No.: N/A
Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.25 |
| Specific Conductance | ms/cm | 1.53 |
| Water Temperature | °C | 13.49 |
| Dissolved Oxygen | ppm | 6.11 |
| Redox | mV | 135 |
| Turbidity | NTU | 3.9 |

Meter Calibration Performed? N ☐ Y ☒ Date 11/16/15
Water Appearance, Immiscible Phases or Odors: Clear, no odor
Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☒ | Y ☒ HCL N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date:
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-35/11/16/15 |
| Project No. | 96206 | Well No. | CW-35 |
| Sample Date | 11/16/15 | Sampled By | K. Steck |
| Sample Time (start/end) | 1215 / 1220 | Sample Sequence No. | N/A |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | ~~26~~ 11.25 / 11.28 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.73 |
| Specific Conductance | ms/cm | 0.963 |
| Water Temperature | °C | 12.99 |
| Dissolved Oxygen | ppm | 6.61 |
| Redox | mV | 55 |
| Turbidity | NTU | 0.4 |

Meter Calibration Performed? N ☐ Y ☒ Date 11/16/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☒ | Y ☒ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers 3 Filtration Method ____

Laboratory Lancaster Delivered Via Fed-Ex Date ____

Weather Conditions Sunny / ~62°F

Comments ____

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 11/16/15
Sample Time (start/end): 1120 / 1125
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 10.54 / 10.56
Recharge Time:

Sample ID: CW-3D/11/16/15
Well No.: CW-3D
Sampled By: K. Steck
Sample Sequence No.:

Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.26 |
| Specific Conductance | ms/cm | 0.971 |
| Water Temperature | °C | 12.55 |
| Dissolved Oxygen | ppm | 6.04 |
| Redox | mV | -7 |
| Turbidity | NTU | 6.0 |

Meter Calibration Performed? N ☐ Y ☒ Date 11/16/15
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☒ | Y ☒ HCL N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date:
Weather Conditions: Sunny, 62°F
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-7D/11/17/15 |
| Project No. | 96206 | Well No. | MW-7D |
| Sample Date | 11/17/15 | Sampled By | K. Steck |
| Sample Time (start/end) | 1555 / 1600 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 11.28 / 11.29 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.50 |
| Specific Conductance | ms/cm | 1.242 |
| Water Temperature | °C | 12.85 |
| Dissolved Oxygen | ppm | 5.88 |
| Redox | mV | 14 |
| Turbidity | NTU | 1.7 |

Meter Calibration Performed? N ☐ Y ☒ Date 11/17/15

Water Appearance, Immiscible Phases or Odors: Clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-75/11/17/15 |
| Project No. | 96206 | Well No. | MW 75 |
| Sample Date | 11/17/15 | Sampled By | K. Steck |
| Sample Time (start/end) | 1505 / 1510 | Sample Sequence No. | N/A |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 11.02 / 11.03 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.49 |
| Specific Conductance | ms/cm | 1.271 |
| Water Temperature | °C | 13.66 |
| Dissolved Oxygen | ppm | 7.19 |
| Redox | mV | 75 |
| Turbidity | NTU | 1.1 |

Meter Calibration Performed? N ☐ Y ☒ Date 11/17/15

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☒ | Y ☒ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers 3 Filtration Method ____

Laboratory Lancaster Delivered Via Fed-Ex Date ____

Weather Conditions ____

Comments ____

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

DUP-1

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-8D/11/17/15 |
| Project No. | 96206 | Well No. | MW-8D |
| Sample Date | 11/17/15 | Sampled By | K. Steck |
| Sample Time (start/end) | 1400 / 1405 | Sample Sequence No. | N/A |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 14.60 / ~~14.62~~ | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.60 |
| Specific Conductance | ms/cm | 1.051 |
| Water Temperature | °C | 13.09 |
| Dissolved Oxygen | ppm | 4.47 |
| Redox | mV | 13 |
| Turbidity | NTU | 7.9 |

Meter Calibration Performed? N ☐ Y ☒ Date 11/17/15

Water Appearance, Immiscible Phases or Odors: clear

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | ~~3~~ 6 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |

Number of Containers 6 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date

Weather Conditions Sunny, ~60°F

Comments DUP-1 also collected

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

MW-8S/MSD/11/17/15
MW-8S/MS/11/17/15

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-8S/11/17/15 |
| Project No. | 96206 | Well No. | MW-8S |
| Sample Date | 11/17/15 | Sampled By | K. Steck |
| Sample Time (start/end) | 1255 / 1366 | Sample Sequence No. | |
| Sample Collection Equipment | | Dedicated Bladder Pump | |
| Depth to Water Prior to Purging/Sampling (ft) | | 14.74 / 14.75 | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.57 |
| Specific Conductance | ms/cm | 1.072 |
| Water Temperature | °C | 14.01 |
| Dissolved Oxygen | ppm | 6.95 |
| Redox | mV | 90 |
| Turbidity | NTU | 5.5 |

Meter Calibration Performed? N ☐ Y ☒ Date 11/17/15

Water Appearance, Immiscible Phases or Odors: Clear, no odor

Sampling Flow Rate:

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | ~~3~~ 9 | Y ☐ | N ☒ | Y ☒ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers ~~8~~ 9 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date

Weather Conditions Sunny, ~ 60°s

Comments MS / MSD also sampled

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-9D/11/12/15 |
| Project No. | 96206 | Well No. | MW-9D |
| Sample Date | 11/12/15 | Sampled By | K. Stedl |
| Sample Time (start/end) | 1140 / 1145 | Sample Sequence No. | N/A |
| Sample Collection Equipment | | Dedicated Bladder Pump | |
| Depth to Water Prior to Purging/Sampling (ft) | | 17.05 / 17.10 | |
| Recharge Time | N/A | Measured from ☐ TOC ☐ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.63 |
| Specific Conductance | ms/cm | 1.014 |
| Water Temperature | °C | 12.44 |
| Dissolved Oxygen | ppm | 5.34 |
| Redox | mV | 106 |
| Turbidity | NTU | ~~0~~ 0.5 |

Meter Calibration Performed? N ☐ Y ☒ Date 11/12/15

Water Appearance, Immiscible Phases or Odors: Clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☑ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date

Weather Conditions

Comments

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-95/11/17/15 |
| Project No. | 96206 | Well No. | MW-95 |
| Sample Date | 11/17/15 | Sampled By | K. Steele |
| Sample Time (start/end) | 1000 / 1005 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 16.95 / 16.98 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.48 |
| Specific Conductance | ms/cm | 1.145 |
| Water Temperature | °C | 13.41 |
| Dissolved Oxygen | ppm | 5.30 |
| Redox | mV | 125 |
| Turbidity | NTU | 48.4 |

Meter Calibration Performed? N ☐ Y ☒ Date 9/17/15

Water Appearance, Immiscible Phases or Odors: Clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☒ | Y ☒ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date

Weather Conditions Sunny ~52°F

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-15D/11/19/15 |
| Project No. | 96206 | Well No. | MW-15D |
| Sample Date | 11/19/15 | Sampled By | K. Steck |
| Sample Time (start/end) | / | Sample Sequence No. | |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 12.82 / 12.83 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.64 |
| Specific Conductance | ms/cm | 1.242 |
| Water Temperature | °C | 13.81 |
| Dissolved Oxygen | ppm | 5.90 |
| Redox | mV | 152 |
| Turbidity | NTU | 98 |

Meter Calibration Performed? N ☐ Y ☒ Date 11/19/15

Water Appearance, Immiscible Phases or Odors: Slightly cloudy, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 11/19/15

Weather Conditions Drizzle, ~60°F

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-155/11/19/15 |
| Project No. | 96206 | Well No. | MW-155 |
| Sample Date | 11/19/15 | Sampled By | K. Steele |
| Sample Time (start/end) | 1340 / 1345 | Sample Sequence No. | N/A |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 13.01 / 13.02 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 6.64 |
| Specific Conductance | ms/cm | 1.307 |
| Water Temperature | °C | 13.85 |
| Dissolved Oxygen | ppm | 5.26 |
| Redox | mV | 170 |
| Turbidity | NTU | 225 |

Meter Calibration Performed? N ☐ Y ☒ Date 11/19/15

Water Appearance, Immiscible Phases or Odors: cloudy, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ | HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 11/19/15

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 11 / 19 / 15
Sample Time (start/end): 1215 / 1220
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 11.87 / 11.92
Recharge Time: N/A

Sample ID: MW-16D/11/19/15
Well No.: MW-16D
Sampled By: K. Stech
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.78 |
| Specific Conductance | ms/cm | 1.165 |
| Water Temperature | °C | 13.99 |
| Dissolved Oxygen | ppm | 4.18 |
| Redox | mV | 103 |
| Turbidity | NTU | 308 |

Meter Calibration Performed? N ☐ Y ☒ Date 11/19/15
Water Appearance, Immiscible Phases or Odors: Cloudy, no odor
Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 11/19/15
Weather Conditions: drizzle, ~60°F
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 11/18/15
Sample Time (start/end): 1105 / 1110
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 11.65
Recharge Time: N/A

Sample ID: MW-16S/11/19/15
Well No.: MW-16S
Sampled By: K. Stock
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.29 |
| Specific Conductance | ms/cm | 1.315 |
| Water Temperature | °C | 13.71 |
| Dissolved Oxygen | ppm | 6.60 |
| Redox | mV | 111 |
| Turbidity | NTU | 194 |

Meter Calibration Performed? N ☐ Y ☒ Date 11/19/15
Water Appearance, Immiscible Phases or Odors: Cloudy, no odor
Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☒ | Y ☒ HCL N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: ~~Fed-Ex~~ Courier
Date: 11/19/15
Weather Conditions: Overcast ~ 60°F
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-1130/2/23/16 |
| Project No. | 96206 | Well No. | MW-1130 |
| Sample Date | 2/23/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 0935 / 0940 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 7.78 / 7.80 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.39 |
| Specific Conductance | ms/cm | 1.470 |
| Water Temperature | °C | 11.38 |
| Dissolved Oxygen | ppm | 5.09 |
| Redox | mV | 110 |
| Turbidity | NTU | 11.9 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/23/16

Water Appearance, Immiscible Phases or Odors: Clear / no odor

Sampling Flow Rate: ~ 100 mL

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via (Fed-Ex) Date 2/25/16

Weather Conditions Sunny, 30°F

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-35/2/23/16 |
| Project No. | 96206 | Well No. | CW-35 |
| Sample Date | 2/23/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 1040 / 1045 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 10.20 / 10.22 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.46 |
| Specific Conductance | ms/cm | 0.916 |
| Water Temperature | °C | 11.42 |
| Dissolved Oxygen | ppm | 5.98 |
| Redox | mV | 158 |
| Turbidity | NTU | 3.3 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/23/16

Water Appearance, Immiscible Phases or Odors: Clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | ~~3~~ 12 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |

Number of Containers 12 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 2/25/16

Weather Conditions

Comments MS, MSD & DUP-1 also sampled

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-3D/2/23/16 |
| Project No. | 96206 | Well No. | CW-3D |
| Sample Date | 2/23/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 1155 / 1200 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 9.41 / 9.51 | | |
| Recharge Time | | Measured from ☐ TOC ☒ TOR ☐ GS | |

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.46 |
| Specific Conductance | ms/cm | 0.933 |
| Water Temperature | °C | 11.73 |
| Dissolved Oxygen | ppm | 5.75 |
| Redox | mV | 110 |
| Turbidity | NTU | 4.1 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/23/16

Water Appearance, Immiscible Phases or Odors: clear no odor

Sampling Flow Rate: ~ 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 2/25/16

Weather Conditions

Comments

f21/corp

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-10S/2/23/16 |
| Project No. | 96206 | Well No. | MW-10S |
| Sample Date | 2/23/16 | Sampled By | K. Steele |
| Sample Time (start/end) | 1320 / 1325 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 11.86 / 11.91 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.36 |
| Specific Conductance | ms/cm | 0.982 |
| Water Temperature | °C | 10.14 |
| Dissolved Oxygen | ppm | 6.77 |
| Redox | mV | 162 |
| Turbidity | NTU | 16.9 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/23/16

Water Appearance, Immiscible Phases or Odors: slightly cloudy

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 2/25/16

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 2/23/16
Sample Time (start/end): 1430 / 1435
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 10.46 / 10.51
Recharge Time: N/A

Sample ID: MW-16S/2/23/16
Well No.: MW-16S
Sampled By: K. Steck
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 6.85 |
| Specific Conductance | ms/cm | 1.243 |
| Water Temperature | °C | 12.13 |
| Dissolved Oxygen | ppm | 5.34 |
| Redox | mV | 191 |
| Turbidity | NTU | 26.9 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/23/16
Water Appearance, Immiscible Phases or Odors: Slightly cloudy, no odor
Sampling Flow Rate:

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: (Fed-Ex)
Date: 2/25/16
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-7D/2/23/16 |
| Project No. | 96206 | Well No. | MW-7D |
| Sample Date | 2/23/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 1540 / 1545 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 10.33 | / 10.34 | |
| Recharge Time | N/A | Measured from ☐ TOC ☐ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.38 |
| Specific Conductance | ms/cm | 1.350 |
| Water Temperature | °C | 11.59 |
| Dissolved Oxygen | ppm | 4.81 |
| Redox | mV | 3.9 |
| Turbidity | NTU | 111 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/23/16

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 2/25/16

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-7S/2/23/16 |
| Project No. | 96206 | Well No. | MW-7S |
| Sample Date | 2 123 116 | Sampled By | K. Steck |
| Sample Time (start/end) | 1620 1625 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 10.03 | 1 10.11 | |
| Recharge Time | N/A | Measured from ☐ TOC ☐ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.38 |
| Specific Conductance | ms/cm | 1.376 |
| Water Temperature | °C | 12.17 |
| Dissolved Oxygen | ppm | 5.98 |
| Redox | mV | 5.5 |
| Turbidity | NTU | 167 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/23/16

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via (Fed-Ex) Date 2/25/16

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 2/24/16
Sample Time (start/end): 0915 / 0926
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 16.00 / 16.10
Recharge Time: N/A

Sample ID: MW-9S/2/24/16
Well No.: MW-9S
Sampled By: K. Steele
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.43 |
| Specific Conductance | ms/cm | 1.181 |
| Water Temperature | °C | 11.99 |
| Dissolved Oxygen | ppm | 6.53 |
| Redox | mV | 31.4 |
| Turbidity | NTU | 183 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/24/16
Water Appearance, Immiscible Phases or Odors: slightly cloudy
Sampling Flow Rate: ~100 mL/m

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 2/25/16
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-9D 2/24/16 |
| Project No. | 96206 | Well No. | MW-9D |
| Sample Date | 2/24/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 0955 / 1060 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 15.90 / 15.92 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.49 |
| Specific Conductance | ms/cm | 1.067 |
| Water Temperature | °C | 10.99 |
| Dissolved Oxygen | ppm | 3.75 |
| Redox | mV | 199 |
| Turbidity | NTU | 4.3 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/24/16

Water Appearance, Immiscible Phases or Odors: Clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ | HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 2/25/16

Weather Conditions rain

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-8S/2/24/16 |
| Project No. | 96206 | Well No. | MW-8S |
| Sample Date | 2/24/16 | Sampled By | K. Steele |
| Sample Time (start/end) | 1200 / 1205 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 13.56 / 13.59 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☑ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.53 |
| Specific Conductance | ms/cm | 1.190 |
| Water Temperature | °C | 11.92 |
| Dissolved Oxygen | ppm | 6.44 |
| Redox | mV | 135 |
| Turbidity | NTU | 3.7 |

Meter Calibration Performed? N ☐ Y ☑ Date 2/24/16

Water Appearance, Immiscible Phases or Odors: clear no odor

Sampling Flow Rate: ~ 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☑ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

| | | | |
|---|---|---|---|
| Number of Containers | 3 | Filtration Method | |
| Laboratory | Lancaster | Delivered Via | Fed-Ex Date 2/25/16 |
| Weather Conditions | Heavy Rain | | |
| Comments | | | |

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-8D/2/24/16 |
| Project No. | 96206 | Well No. | MW-8D |
| Sample Date | 2/24/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 1255 / 1300 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 13.41 / 13.43 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.50 |
| Specific Conductance | ms/cm | 1.102 |
| Water Temperature | °C | 16.07 |
| Dissolved Oxygen | ppm | 3.05 |
| Redox | mV | 95 |
| Turbidity | NTU | 14.8 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/24/16

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: ~ 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via (Fed-Ex) Date 2/25/16

Weather Conditions Rain

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-16D/2/24/16 |
| Project No. | 96206 | Well No. | MW-16D |
| Sample Date | 2/24/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 1435 / 1440 | Sample Sequence No. | |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 10.74 / 10.75 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.19 |
| Specific Conductance | ms/cm | 1.128 |
| Water Temperature | °C | 11.74 |
| Dissolved Oxygen | ppm | 4.09 |
| Redox | mV | 181 |
| Turbidity | NTU | 139 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/24/16

Water Appearance, Immiscible Phases or Odors: slightly cloudy

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via (Fed-Ex) Date 2/25/16

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 2/24/16
Sample Time (start/end): 1545 / 1556
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 11.79 / 11.81
Recharge Time: N/A

Sample ID: MW-15S/2/24/16
Well No.: MW-15S
Sampled By: K. Steck
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 6.38 |
| Specific Conductance | ms/cm | 1.287 |
| Water Temperature | °C | 12.57 |
| Dissolved Oxygen | ppm | 5.59 |
| Redox | mV | 187 |
| Turbidity | NTU | 128 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/24/16
Water Appearance, Immiscible Phases or Odors: slightly cloudy, no odor
Sampling Flow Rate: ~ 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers:
Filtration Method:
Laboratory: Lancaster
Delivered Via: (Fed-Ex)
Date: 2/25/16
Weather Conditions: Rain
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 2/25/16
Sample Time (start/end): 1010 / 1015
Sample Collection Equipment: ~~Dedicated~~ Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): /
Recharge Time: N/A

Sample ID: MW-15D/2/25/16
Well No.: MW-15D
Sampled By: K. Steck
Sample Sequence No.:
Measured from ☐ TOC ☒ TOR ☐ GS

## FIELD MEASUREMENTS

kms 2/25/16

| | | |
|---|---|---|
| pH | Standard Units | ~~6.67~~ 6.49 |
| Specific Conductance | ms/cm | ~~1.075~~ 1.221 |
| Water Temperature | °C | 10.51 |
| Dissolved Oxygen | ppm | 3.58 |
| Redox | mV | 182 |
| Turbidity | NTU | 58.8 |

Meter Calibration Performed? N ☐ Y ☒ Date 2/25/16
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 2/25/16
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-105/5/23/16 |
| Project No. | 96206 | Well No. | MW-105 |
| Sample Date | 5/23/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 1155 / 1200 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 11.64 / 11.66 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

## FIELD MEASUREMENTS

| | | |
|---|---|---|
| pH | Standard Units | 7.33 |
| Specific Conductance | ms/cm | 0.980 |
| Water Temperature | °C | 12.55 |
| Dissolved Oxygen | ppm | 5.99 |
| Redox | mV | 44 |
| Turbidity | NTU | 12.80 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/23/16

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

| | | | | | |
|---|---|---|---|---|---|
| Number of Containers | 3 | Filtration Method | | | |
| Laboratory | Lancaster | Delivered Via | Fed-Ex | Date | 5/24/16 |
| Weather Conditions | Sunny ~70°F | | | | |
| Comments | | | | | |

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-9S/5/23/16 |
| Project No. | 96206 | Well No. | MW-9S |
| Sample Date | 5/23/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 1325 / 1330 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 15.60 / 15.61 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.44 |
| Specific Conductance | ms/cm | 1.062 |
| Water Temperature | °C | 11.81 |
| Dissolved Oxygen | ppm | 5.60 |
| Redox | mV | 98 |
| Turbidity | NTU | 34.4 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/23/16

Water Appearance, Immiscible Phases or Odors: Slightly cloudy

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 5/24/16

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-9D/5/23/16 |
| Project No. | 96206 | Well No. | MW-9D |
| Sample Date | 5/23/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 1405 / 1410 | Sample Sequence No. | |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 15.75 / 15.78 | | |
| Recharge Time | NA | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.48 |
| Specific Conductance | ms/cm | 0.978 |
| Water Temperature | °C | 12.99 |
| Dissolved Oxygen | ppm | 3.75 |
| Redox | mV | 96 |
| Turbidity | NTU | 2.7 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/23/16

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 5/24/16

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

MW-85/MS/5/23/16
MW-85/MSD/5/23/16

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-85/5/23/16 |
| Project No. | 96206 | Well No. | MW-85 |
| Sample Date | 5/23/16 | Sampled By | K. Stelk |
| Sample Time (start/end) | 1505 / 1510 | Sample Sequence No. | N/A |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 13.34 / 13.36 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.49 |
| Specific Conductance | ms/cm | 1.047 |
| Water Temperature | °C | 13.46 |
| Dissolved Oxygen | ppm | 6.07 |
| Redox | mV | 54 |
| Turbidity | NTU | 4.8 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/23/16

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | ~~8~~ 9 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

| | | | | | |
|---|---|---|---|---|---|
| Number of Containers | 9 | Filtration Method | N/A | | |
| Laboratory | Lancaster | Delivered Via | Fed-Ex | Date | 5/24/16 |
| Weather Conditions | ~70°F, Sunny | | | | |
| Comments | MS/MSD also Sampled | | | | |

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

DUP-1

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-8D/5/23/16 |
| Project No. | 96206 | Well No. | MW-8D |
| Sample Date | 5/23/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 1605/1610 | Sample Sequence No. | NA |
| Sample Collection Equipment | | Dedicated Bladder Pump | |
| Depth to Water Prior to Purging/Sampling (ft) | ~~13.24~~ 13.25 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.43 |
| Specific Conductance | ms/cm | 1.002 |
| Water Temperature | °C | 14.11 |
| Dissolved Oxygen | ppm | 3.22 |
| Redox | mV | 39 |
| Turbidity | NTU | 21.4 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/23/16

Water Appearance, Immiscible Phases or Odors: small orange flakes floating in sample, no odor

Sampling Flow Rate: ~100 mL/m

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | ~~3~~ 6 | Y ☐ | N ☒ | Y ☒ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 6 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 5/24/16

Weather Conditions

Comments DUP-1 also collected

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-7D/5/23/16 |
| Project No. | 96206 | Well No. | MW-7D |
| Sample Date | 5/23/16 | Sampled By | K. Stock |
| Sample Time (start/end) | 1700 / 1705 | Sample Sequence No. | NA |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 10.11 | / 10.15 | |
| Recharge Time | N/A | Measured from ☐ TOC ☐ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.32 |
| Specific Conductance | ms/cm | 1.333 |
| Water Temperature | °C | 13.40 |
| Dissolved Oxygen | ppm | 4.98 |
| Redox | mV | 51 |
| Turbidity | NTU | 5.4 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/23/16

Water Appearance, Immiscible Phases or Odors: Clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 5/24/16

Weather Conditions Sunny ~75°F

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-7S/5/23/16 |
| Project No. | 96206 | Well No. | MW-7S |
| Sample Date | 5/23/16 | Sampled By | K. Steele |
| Sample Time (start/end) | 1740 / 1745 | Sample Sequence No. | N/A |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 9.87 / 9.91 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | KMS 5/23/16 |
|---|---|---|
| pH | Standard Units | 7.31 |
| Specific Conductance | ms/cm | 1.457 |
| Water Temperature | °C | 13.76 |
| Dissolved Oxygen | ppm | 6.10 |
| Redox | mV | 92 |
| Turbidity | NTU | 3.8 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/23/16

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

| | | | | | |
|---|---|---|---|---|---|
| Number of Containers | 3 | Filtration Method | | | |
| Laboratory | Lancaster | Delivered Via | Fed-Ex | Date | 5/24/16 |
| Weather Conditions | | | | | |
| Comments | | | | | |

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Project No.: 96206
Sample Date: 5/24/16
Sample Time (start/end): 0805 / 0810
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 10.09 / 10.10
Recharge Time: NA

Sample ID: B CW-35/5/24/16
Well No.: CW-35
Sampled By: K. Stark
Sample Sequence No.: N/A
Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.46 |
| Specific Conductance | ms/cm | 0.871 |
| Water Temperature | °C | 11.17 |
| Dissolved Oxygen | ppm | 7.61 |
| Redox | mV | 87 |
| Turbidity | NTU | 4.6 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/24/16
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 5/24/16
Weather Conditions: Sunny ~65°F
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | CW-3D/5/24/16 |
| Project No. | 96206 | Well No. | CW-3D |
| Sample Date | 5/24/16 | Sampled By | K. Stock |
| Sample Time (start/end) | 0845 / 1650 | Sample Sequence No. | N/A |
| Sample Collection Equipment | Dedicated Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 9.40 | 19.44 | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.40 |
| Specific Conductance | ms/cm | 0.894 |
| Water Temperature | °C | 11.65 |
| Dissolved Oxygen | ppm | 6.26 |
| Redox | mV | 25 |
| Turbidity | NTU | 603 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/24/16

Water Appearance, Immiscible Phases or Odors: Clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ ____ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via (Fed-Ex) Date 5/24/16

Weather Conditions Sunny 70°F

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Sample ID: MW-113D/5/24/16
Project No.: 96206
Well No.: MW-113D
Sample Date: 5/24/16
Sampled By: K. Steele
Sample Time (start/end): 0955 / 1060
Sample Sequence No.:
Sample Collection Equipment: Dedicated Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 7.74 / 12.87
Recharge Time: N/A
Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.01 |
| Specific Conductance | ms/cm | 1.377 |
| Water Temperature | °C | 13.14 |
| Dissolved Oxygen | ppm | 5.84 |
| Redox | mV | 81 |
| Turbidity | NTU | 15.9 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/24/16
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: ~ 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 5/24/16
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-16S/2/24/16 |
| Project No. | 96206 | Well No. | MW-16S |
| Sample Date | 5/24/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 1110 / 1115 | Sample Sequence No. | |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 1029 / 1027 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 5.60 |
| Specific Conductance | ms/cm | 1.115 |
| Water Temperature | °C | 14.70 |
| Dissolved Oxygen | ppm | 4.19 |
| Redox | mV | ~~44.1~~ KMS 5/24/16 197 |
| Turbidity | NTU | 44.1 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/24/16

Water Appearance, Immiscible Phases or Odors: a slightly cloudy, no odor

Sampling Flow Rate: ~ 100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 5/24/16

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

Project: CBS-Horseheads, NY
Sample ID: MW-16D/5124/16
Project No.: 96206
Well No.: MW-16D
Sample Date: 5/24/16
Sampled By: K. Stock
Sample Time (start/end): 1215 / 1226
Sample Sequence No.: N/A
Sample Collection Equipment: Portable Bladder Pump
Depth to Water Prior to Purging/Sampling (ft): 10.60 / 10.61
Recharge Time: N/A
Measured from ☐ TOC ☒ TOR ☐ GS

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.19 |
| Specific Conductance | ms/cm | 1.057 |
| Water Temperature | °C | 16.36 |
| Dissolved Oxygen | ppm | 4.59 |
| Redox | mV | 138 |
| Turbidity | NTU | 8.4 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/24/16
Water Appearance, Immiscible Phases or Odors: clear, no odor
Sampling Flow Rate: 200 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | |
|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ HCL | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | N ☐ |

Number of Containers: 3
Filtration Method:
Laboratory: Lancaster
Delivered Via: Fed-Ex
Date: 5/24/16
Weather Conditions:
Comments:

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-15S/S-124/16 |
| Project No. | 96206 | Well No. | MW-15S |
| Sample Date | 5 124 16 | Sampled By | K. Steck |
| Sample Time (start/end) | 1410 1415 | Sample Sequence No. | |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 11.20 | 11.71 | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 8.68 |
| Specific Conductance | ms/cm | 1.244 |
| Water Temperature | °C | 15.25 |
| Dissolved Oxygen | ppm | 5.11 |
| Redox | mV | 178 |
| Turbidity | NTU | 382 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/24/16

Water Appearance, Immiscible Phases or Odors: cloudy, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | Preserved? |
|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ N ☒ | Y ☒ HCl N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |
| | | | Y ☐ N ☐ | Y ☐ ____ N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 5/24/16

Weather Conditions

Comments

WOODARD &CURRAN

# WATER SAMPLE COLLECTION REPORT

| | | | |
|---|---|---|---|
| Project | CBS-Horseheads, NY | Sample ID | MW-15D/5/24/16 |
| Project No. | 96206 | Well No. | MW-15D |
| Sample Date | 5/24/16 | Sampled By | K. Steck |
| Sample Time (start/end) | 1520 / 1525 | Sample Sequence No. | |
| Sample Collection Equipment | Portable Bladder Pump | | |
| Depth to Water Prior to Purging/Sampling (ft) | 11.50 / 11.51 | | |
| Recharge Time | N/A | Measured from ☐ TOC ☒ TOR ☐ GS | |

| FIELD MEASUREMENTS | | |
|---|---|---|
| pH | Standard Units | 7.30 |
| Specific Conductance | ms/cm | 1.210 |
| Water Temperature | °C | 17.53 |
| Dissolved Oxygen | ppm | 0.70 |
| Redox | mV | 135 |
| Turbidity | NTU | 10.5 |

Meter Calibration Performed? N ☐ Y ☒ Date 5/24/16

Water Appearance, Immiscible Phases or Odors: clear, no odor

Sampling Flow Rate: ~100 mL/min

## SAMPLE TYPES COLLECTED

| Parameter | Volume | # Containers | Field Filtered? | | Preserved? | | |
|---|---|---|---|---|---|---|---|
| VOCs (8260 SELECT) | 40 ML | 3 | Y ☐ | N ☒ | Y ☒ | HCl | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |
| | | | Y ☐ | N ☐ | Y ☐ | | N ☐ |

Number of Containers 3 Filtration Method

Laboratory Lancaster Delivered Via Fed-Ex Date 5/24/16

Weather Conditions

Comments

# APPENDIX B: LABORATORY DATA PACKAGES (ON COMPACT DISK)

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

July 23, 2014

Project: Horseheads, NY

Submittal Date: 07/17/2014
Group Number: 1489751
SDG: HOR43
PO Number: ENV-OM-00137
Release Number: HORSEHEADS
State of Sample Origin: NY

| Client Sample Description | Lancaster Labs (LL) # |
|---|---|
| MW-101I/7/14/14 Grab Groundwater | 7536545 |
| MW-101S/7/14/14 Grab Groundwater | 7536546 |
| CW-7S/7/14/14 Grab Groundwater | 7536547 |
| CW-7D/7/14/14 Grab Groundwater | 7536548 |
| MW-105D/7/14/14 Grab Groundwater | 7536549 |
| MW-120/7/14/14 Grab Groundwater | 7536550 |
| MW-100D/7/15/14 Grab Groundwater | 7536551 |
| MW-113D/7/15/14 Grab Groundwater | 7536552 |
| MW-7D/7/15/14 Grab Groundwater | 7536553 |
| MW-7S/7/15/14 Grab Groundwater | 7536554 |
| CW-3D/7/15/14 Grab Groundwater | 7536555 |
| CW-3S/7/15/14 Grab Groundwater | 7536556 |
| MW-10S/7/15/14 Grab Groundwater | 7536557 |
| MW-10S/MS/7/15/14 Grab Groundwater | 7536558 |
| MW-10S/MSD/7/15/14 Grab Groundwater | 7536559 |
| MW-9D/7/15/14 Grab Groundwater | 7536560 |
| MW-9S/7/15/14 Grab Groundwater | 7536561 |
| MW-15D/7/16/14 Grab Groundwater | 7536562 |
| MW-15S/7/16/14 Grab Groundwater | 7536563 |
| MW-16D/7/16/14 Grab Groundwater | 7536564 |
| MW-16S/7/16/14 Grab Groundwater | 7536565 |
| MW-8D/7/16/14 Grab Groundwater | 7536566 |
| MW-8S/7/16/14 Grab Groundwater | 7536567 |
| TB-1 Water | 7536568 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CBS Corporation | Attn: Doug Spicuzza |
| ELECTRONIC COPY TO | Cummings Riter Consultants | Attn: Mike Lambert |
| ELECTRONIC COPY TO | Cummings Riter Consultants | Attn: Christine Kuzmkowski |

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

**Sample Description: MW-101I/7/14/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536545**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/14/2014 14:05 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H101I SDG#: HOR43-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/22/2014 22:44 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/22/2014 22:44 | Christopher G Torres | 1 |

**Sample Description: MW-101S/7/14/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536546**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/14/2014 14:45 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H101S SDG#: HOR43-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 2 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/22/2014 23:06 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/22/2014 23:06 | Christopher G Torres | 1 |

**Sample Description: CW-7S/7/14/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536547**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/14/2014 15:35 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HCW7S SDG#: HOR43-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.5 J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 7 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/22/2014 23:28 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/22/2014 23:28 | Christopher G Torres | 1 |

**Sample Description: CW-7D/7/14/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536548**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/14/2014 16:20 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HCW7D SDG#: HOR43-04

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 18 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/22/2014 23:50 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/22/2014 23:50 | Christopher G Torres | 1 |

**Sample Description: MW-105D/7/14/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536549**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/14/2014 17:25 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H105D SDG#: HOR43-05

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.6 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 8 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 00:12 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 00:12 | Christopher G Torres | 1 |

**Sample Description: MW-120/7/14/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536550**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/14/2014 17:25 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H0120 SDG#: HOR43-06

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.6 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 7 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 00:34 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 00:34 | Christopher G Torres | 1 |

**Sample Description: MW-100D/7/15/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536551**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/15/2014 08:45 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H100D SDG#: HOR43-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 6 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 00:56 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 00:56 | Christopher G Torres | 1 |

**Sample Description: MW-113D/7/15/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536552**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/15/2014 09:35 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H113D SDG#: HOR43-08

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.8 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 22 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 01:18 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 01:18 | Christopher G Torres | 1 |

**Sample Description: MW-7D/7/15/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536553**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/15/2014 10:40 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H07D- SDG#: HOR43-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 01:40 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 01:40 | Christopher G Torres | 1 |

**Sample Description: MW-7S/7/15/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536554**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/15/2014 11:25 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H07S- SDG#: HOR43-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | ug/l | ug/l | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.6 J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 4 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 02:01 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 02:01 | Christopher G Torres | 1 |

**Sample Description: CW-3D/7/15/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536555**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/15/2014 12:35 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HCW3D SDG#: HOR43-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 8 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 02:23 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 02:23 | Christopher G Torres | 1 |

**Sample Description: CW-3S/7/15/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536556**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/15/2014 13:25 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HCW3S SDG#: HOR43-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 5 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 02:45 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 02:45 | Christopher G Torres | 1 |

**Sample Description: MW-10S/7/15/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536557**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/15/2014 15:10 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H10S- SDG#: HOR43-13BKG

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.7 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 10 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/22/2014 21:38 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/22/2014 21:38 | Christopher G Torres | 1 |

**Sample Description: MW-10S/MS/7/15/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536558**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/15/2014 15:10 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H10S- SDG#: HOR43-13MS

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 21 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 21 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 21 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 32 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 17 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/22/2014 22:00 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/22/2014 22:00 | Christopher G Torres | 1 |

**Sample Description: MW-10S/MSD/7/15/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536559**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/15/2014 15:10 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H10S- SDG#: HOR43-13MSD

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | ug/l | ug/l | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 22 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 21 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 21 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 33 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 18 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/22/2014 22:22 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/22/2014 22:22 | Christopher G Torres | 1 |

**Sample Description: MW-9D/7/15/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536560**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/15/2014 16:00 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H09D- SDG#: HOR43-14

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.7 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 3 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 17 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 03:17 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 03:17 | Christopher G Torres | 1 |

**Sample Description: MW-9S/7/15/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536561**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/15/2014 17:00 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H09S- SDG#: HOR43-15

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 6 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 03:39 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 03:39 | Christopher G Torres | 1 |

**Sample Description: MW-15D/7/16/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536562**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/16/2014 09:35 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H015D SDG#: HOR43-16

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 04:13 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 04:13 | Christopher G Torres | 1 |

**Sample Description: MW-15S/7/16/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536563**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/16/2014 10:45 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H015S SDG#: HOR43-17

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 04:35 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 04:35 | Christopher G Torres | 1 |

**Sample Description: MW-16D/7/16/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536564**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/16/2014 12:10 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H016D SDG#: HOR43-18

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 2 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 04:57 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 04:57 | Christopher G Torres | 1 |

**Sample Description: MW-16S/7/16/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536565**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/16/2014 13:15 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H016S SDG#: HOR43-19

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 10 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 05:19 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 05:19 | Christopher G Torres | 1 |

**Sample Description: MW-8D/7/16/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536566**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/16/2014 14:35 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H008D SDG#: HOR43-20

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 5 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 05:41 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 05:41 | Christopher G Torres | 1 |

**Sample Description: MW-8S/7/16/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7536567**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/16/2014 15:20 by ML

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H008S SDG#: HOR43-21

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 4 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 06:03 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 06:03 | Christopher G Torres | 1 |

**Sample Description: TB-1 Water**
**Horseheads, NY**

**LL Sample # WW 7536568**
**LL Group # 1489751**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 07/14/2014

Submitted: 07/17/2014 09:20
Reported: 07/23/2014 19:34

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HTRB1 SDG#: HOR43-22TB*

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | N.D. | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | 8260C Water Master | SW-846 8260C | 1 | L142033AA | 07/23/2014 06:25 | Christopher G Torres | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142033AA | 07/23/2014 06:25 | Christopher G Torres | 1 |

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1489751
Reported: 07/23/14 at 07:34 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: L142033AA | Sample number(s): 7536545-7536568 | | | | | | | |
| cis-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 108 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 107 | | 80-120 | | |
| 1,1,1-Trichloroethane | N.D. | 0.5 | ug/l | 93 | | 66-126 | | |
| Trichloroethene | N.D. | 0.5 | ug/l | 105 | | 80-120 | | |
| Vinyl Chloride | N.D. | 0.5 | ug/l | 89 | | 63-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: L142033AA | Sample number(s): 7536545-7536568 UNSPK: 7536557 | | | | | | | | |
| cis-1,2-Dichloroethene | 104 | 107 | 80-141 | 3 | 30 | | | | |
| trans-1,2-Dichloroethene | 105 | 107 | 86-131 | 3 | 30 | | | | |
| 1,1,1-Trichloroethane | 93 | 96 | 69-140 | 2 | 30 | | | | |
| Trichloroethene | 109 | 113 | 88-133 | 3 | 30 | | | | |
| Vinyl Chloride | 86 | 89 | 66-133 | 4 | 30 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260C Water Master
Batch number: L142033AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 7536545 | 101 | 101 | 95 | 98 |
| 7536546 | 100 | 100 | 94 | 98 |
| 7536547 | 100 | 99 | 95 | 99 |
| 7536548 | 100 | 100 | 94 | 97 |
| 7536549 | 101 | 99 | 94 | 97 |
| 7536550 | 100 | 101 | 94 | 98 |
| 7536551 | 101 | 102 | 95 | 98 |
| 7536552 | 100 | 100 | 95 | 98 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1489751
Reported: 07/23/14 at 07:34 PM

## Surrogate Quality Control

| | | | | |
|---|---|---|---|---|
| 7536553 | 100 | 98 | 95 | 98 |
| 7536554 | 100 | 100 | 94 | 97 |
| 7536555 | 101 | 101 | 94 | 98 |
| 7536556 | 101 | 99 | 95 | 96 |
| 7536557 | 100 | 102 | 94 | 98 |
| 7536558 | 100 | 102 | 95 | 100 |
| 7536559 | 100 | 100 | 96 | 101 |
| 7536560 | 101 | 101 | 93 | 97 |
| 7536561 | 101 | 99 | 94 | 97 |
| 7536562 | 101 | 100 | 94 | 97 |
| 7536563 | 100 | 101 | 94 | 97 |
| 7536564 | 101 | 101 | 94 | 98 |
| 7536565 | 100 | 98 | 94 | 97 |
| 7536566 | 101 | 103 | 93 | 97 |
| 7536567 | 102 | 100 | 93 | 97 |
| 7536568 | 101 | 99 | 94 | 96 |
| Blank | 100 | 102 | 94 | 99 |
| LCS | 100 | 100 | 96 | 100 |
| MS | 100 | 102 | 95 | 100 |
| MSD | 100 | 100 | 96 | 101 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 — For Eurofins Lancaster Laboratories Environmental use only — Group # 1489751 Sample # 7536545-68
Instructions on reverse side correspond with circled numbers.

**COC # 347001** 1 of 3

**1 Client Information**

| | |
|---|---|
| Client: Cummins/Arcadis Consultants | Acct. #: |
| Project Name/#: CBS - Horseheads, NY (9L20C) | PWSID #: |
| Project Manager: Douglas Spicuzza | P.O. #: |
| Sampler: Mike Lamont | Quote #: |

Name of state where samples were collected: New York

**4 Matrix**: Soil ☐ Sediment ☐ Water ☒ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Other: ☐

**5 Analysis Requested**

Preservation Codes: H

VOC's (8260) * (see reverse)

**For Lab Use Only**
FSC:
SCR#: 158277

**Preservation Codes**
H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

**6 Remarks**
* = TCE, cis-1,2 DCE, Trans-1,2 DCE, 1,1,1 TCA and Vinyl Chloride

| 2 Sample Identification | Collected Date | Collected Time | 3 Grab | Composite | Total # of Containers | VOC's (8260) * |
|---|---|---|---|---|---|---|
| MW-101I / 7/14/14 | 7/14/14 | 14:05 | X | | 3 | X |
| MW-101S / 7/14/14 | 7/14/14 | 14:45 | X | | 3 | X |
| CW-7S / 7/14/14 | 7/14/14 | 15:35 | X | | 3 | X |
| CW-7D / 7/14/14 | 7/14/14 | 16:20 | X | | 3 | X |
| MW-105D / 7/14/14 | 7/14/14 | 17:25 | X | | 3 | X |
| MW-120 / 7/14/14 | 7/14/14 | 17:25 | X | | 3 | X |
| MW-100D / 7/15/14 | 7/15/14 | 8:45 | X | | 3 | X |
| MW-113D / 7/15/14 | 7/15/14 | 9:35 | X | | 3 | X |
| MW-7D / 7/15/14 | 7/15/14 | 10:40 | X | | 3 | X |
| MW-7S / 7/15/14 | 7/15/14 | 11:25 | X | | 3 | X |

**7 Turnaround Time (TAT) Requested** (please circle)
~~Standard~~ Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

**8 Data Package Options** (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| L. Mrozko | 7/8/14 | 9:44 | | 7/14/14 | 7:00 |
| | 7/14/14 | 17:00 | | | |
| | | | | | |
| | | | | | |
| | | | Received by | Date 7/17/14 | Time 0920 |

**9**

EDD Required? Yes No
If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx ✓ Other _____

Temperature upon receipt 1.4 °C

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 For Eurofins Lancaster Laboratories Environmental use only Group # 1489751 Sample # 7536545-68
Instructions on reverse side correspond with circled numbers.

**COC # 347002** 2 of 3

## 1 Client Information

| | |
|---|---|
| Client: Cummings / Riter Consultants | Acct. #: |
| Project Name/#: CDS - Horseheads, NY | PWSID #: |
| Project Manager: Douglas Spicuzza | P.O. #: |
| Sampler: Mike Lamont | Quote #: |

Name of state where samples were collected: New York

## 4 Matrix

Sediment ☐ Soil ☐ | Ground ☒ Potable ☐ Water | Surface ☐ NPDES ☐ | Other: ____

## 5 Analysis Requested

Preservation Codes: H

* Volcs (5260 Select)

Total # of Containers

## 2 Sample Identification | Collected (Date / Time) | 3 Grab | Composite

| Sample Identification | Date | Time | Grab | Composite | Soil | Water | Other | Total # of Containers | * Volcs (5260 Select) | 6 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| CW-3D / 7/15/14 | 7/15/14 | 12:35 | X | | | X | | 3 | X | |
| CW-3S / 7/15/14 | 7/15/14 | 13:25 | X | | | X | | 3 | X | |
| MW-10S / 7/15/14 | 7/15/14 | 15:10 | X | | | X | | 3 | X | |
| MW-10S / MS / 7/15/14 | 7/15/14 | 15:10 | X | | | X | | 3 | X | MATRIX SPIKE |
| MW-10S / MSD / 7/15/14 | 7/15/14 | 15:10 | X | | | X | | 3 | X | MATRIX SPIKE DUP |
| MW-9D / 7/15/14 | 7/15/14 | 16:00 | X | | | X | | 3 | X | |
| MW-9S / 7/15/14 | 7/15/14 | 17:00 | X | | | X | | 3 | X | |
| MW-15D / 7/16/14 | 7/16/14 | 9:35 | X | | | X | | 3 | X | |
| MW-15S / 7/16/14 | 7/16/14 | 10:45 | X | | | X | | 3 | X | |
| MW-16D / 7/16/14 | 7/16/14 | 12:10 | X | | | X | | 3 | X | |

For Lab Use Only
FSC:
SCR#:

**Preservation Codes**
H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

**6 Remarks**
* = TCE, cis, 1, 2 DCE, trans 1, 2 DCE, 1, 1, 1 TCA and Vinyl Chloride

## 7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

## 8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 7/16/14 | 17:00 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**9**

EDD Required? Yes No
If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx ✓ Other _____

Temperature upon receipt 1.4 °C

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 For Eurofins Lancaster Laboratories Environmental use only Group # 489751 Sample # 7536545-68
Instructions on reverse side correspond with circled numbers.

**COC # 347003** 3 of 3

**1 Client Information**

| | |
|---|---|
| Client: Cummings/Riter Consultants | Acct. #: |
| Project Name/#: (96206) CBS - Horseheads, NY | PWSID #: |
| Project Manager: Douglas Sposito | P.O. #: |
| Sampler: Mike Lamont | Quote #: |

Name of state where samples were collected: New York

**4 Matrix**: Sediment ☐ Soil ☐ | Ground ☒ Potable ☐ Water | Surface ☐ NPDES ☐ | Other: ☐ | Total # of Containers

**5 Analysis Requested** — Preservation Codes: H

| 2 Sample Identification | Collected Date | Collected Time | 3 Grab | 3 Composite | Total # of Containers | * VOCs (8260 Select) | 6 Remarks |
|---|---|---|---|---|---|---|---|
| MW-16S / 7/16/14 | 7/16/14 | 13:15 | X | | 3 | X | |
| MW-8D / 7/16/14 | 7/16/14 | 14:35 | X | | 3 | X | |
| MW-8S / 7/16/14 | 7/16/14 | 15:20 | X | | 3 | X | |
| TB-1 | — | — | — | | 2 | X | TRIP BLANK 1 # |

*: TCE, cis 1,2 DCE, Trans 1,2 DCE, 1,1,1-TCA, Vinyl Chloride

For Lab Use Only
FSC: _____
SCR#: _____

**Preservation Codes**
H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

**7 Turnaround Time (TAT) Requested** (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

**8 Data Package Options** (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| [signature] | 7/16/14 | 17:00 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | [signature] | 7/17/14 | 0920 |

**9**

EDD Required? Yes No
If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx ✓ Other _____

Temperature upon receipt 1.4 °C

eurofins | Lancaster Laboratories Environmental

# Sample Administration Receipt Documentation Log

Doc Log ID: 20268

Group Number(s): 1489751

Client: CUMMINGS RITER

## CBS HORSEHEADS NY

### Delivery and Receipt Information

| | | | |
|---|---|---|---|
| Delivery Method: | Fed Ex | Arrival Timestamp: | 07/17/2014 9:20 |
| Number of Packages: | 1 | Number of Projects: | 1 |
| State/Province of Origin: | NY | | |

### Arrival Condition Summary

| | | | |
|---|---|---|---|
| Shipping Container Sealed: | Yes | Total Trip Blank Qty: | 2 |
| Custody Seal Present: | Yes | Trip Blank Type: | HCL |
| Custody Seal Intact: | Yes | Air Quality Samples Present: | No |
| Samples Chilled: | Yes | Air Quality Flow Controllers Present: | N/A |
| Paperwork Enclosed: | Yes | Flow Controller Quantity: | 0 |
| Samples Intact: | Yes | Air Quality Returns: | N/A |
| Missing Samples: | No | | |
| Extra Samples: | No | | |
| Discrepancy in Container Qty on COC: | No | | |
| Sample IDs on COC match Containers: | Yes | | |
| Sample Date/Times match COC: | No | | |
| VOA Vial Headspace ≥ 6mm: | No | | |
| VOA IDs ( ≥ 6mm): | N/A | | |

Unpacked by Corey Eshleman (3647) at 11:01 on 07/17/2014

### Samples Chilled Details: CBS HORSEHEADS NY

*Thermometer Types:* *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Samples Collected Same Day as Receipt? | Elevated Temp? |
|---|---|---|---|---|---|---|---|---|
| 1 | DT146 | 1.4 | DT | Wet | Y | Bagged | N | N |

### Sample Date/Time Discrepancy Details: CBS HORSEHEADS NY

| Sample ID on COC | Date/Time on Label | Comments |
|---|---|---|
| CW-3S | 7/15/2014 12:25 | per call from Mike Lambert, collection time of 13:25 on COC is correct. KAK 1885, 7/23/14 |



2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

eurofins | Lancaster Laboratories Environmental

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

| Organic Qualifiers | | Inorganic Qualifiers | |
|---|---|---|---|
| **A** | TIC is a possible aldol-condensation product | **B** | Value is <CRDL, but ≥IDL |
| **B** | Analyte was also detected in the blank | **E** | Estimated due to interference |
| **C** | Pesticide result confirmed by GC/MS | **M** | Duplicate injection precision not met |
| **D** | Compound quantitated on a diluted sample | **N** | Spike sample not within control limits |
| **E** | Concentration exceeds the calibration range of the instrument | **S** | Method of standard additions (MSA) used for calculation |
| **N** | Presumptive evidence of a compound (TICs only) | **U** | Compound was not detected |
| **P** | Concentration difference between primary and confirmation columns >25% | **W** | Post digestion spike out of control limits |
| **U** | Compound was not detected | ***** | Duplicate analysis not within control limits |
| **X,Y,Z** | Defined in case narrative | **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

October 20, 2014

Project: Horseheads, NY

Submittal Date: 10/10/2014
Group Number: 1510094
SDG: HOR44
PO Number: ENV-OM-00137
Release Number: HORSEHEADS
State of Sample Origin: NY

| Client Sample Description | Lancaster Labs (LL) # |
|---|---|
| MW-113D/10/7/14 Grab Groundwater | 7632548 |
| CW-3D/10/7/14 Grab Groundwater | 7632549 |
| CW-3S/10/7/14 Grab Groundwater | 7632550 |
| MW-10S/10/7/14 Grab Groundwater | 7632551 |
| DUP-1 Grab Groundwater | 7632552 |
| MW-7S/10/7/14 Grab Groundwater | 7632553 |
| MW-7D/10/7/14 Grab Groundwater | 7632554 |
| MW-9D/10/8/14 Grab Groundwater | 7632555 |
| MW-9S/10/8/14 Grab Groundwater | 7632556 |
| MW-8D/10/8/14 Grab Groundwater | 7632557 |
| MW-8D/MS/10/8/14 Grab Groundwater | 7632558 |
| MW-8D/MSD/10/8/14 Grab Groundwater | 7632559 |
| MW-8S/10/8/14 Grab Groundwater | 7632560 |
| MW-16S/10/8/14 Grab Groundwater | 7632561 |
| MW-16D/10/8/14 Grab Groundwater | 7632562 |
| MW-15S/10/8/14 Grab Groundwater | 7632563 |
| MW-15D/10/8/14 Grab Groundwater | 7632564 |
| TB-1 Water | 7632565 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CBS Corporation | Attn: Doug Spicuzza |
| ELECTRONIC COPY TO | Cummings Riter Consultants | Attn: Mike Lambert |
| ELECTRONIC | Cummings Riter Consultants | Attn: Christine Kuzmkowski |

COPY TO

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

**Sample Description: MW-113D/10/7/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632548**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/07/2014 13:45 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH113 SDG#: HOR44-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.6 J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 19 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/10/2014 22:17 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/10/2014 22:17 | Sara E Johnson | 1 |

**Sample Description: CW-3D/10/7/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632549**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/07/2014 14:40 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHC3D SDG#: HOR44-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 9 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/10/2014 22:39 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/10/2014 22:39 | Sara E Johnson | 1 |

**Sample Description: CW-3S/10/7/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632550**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/07/2014 15:20 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHC3S SDG#: HOR44-03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 6 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/10/2014 23:01 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/10/2014 23:01 | Sara E Johnson | 1 |

**Sample Description: MW-10S/10/7/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632551**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/07/2014 16:15 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH10S SDG#: HOR44-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 3 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 19 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/10/2014 23:23 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/10/2014 23:23 | Sara E Johnson | 1 |

**Sample Description: DUP-1 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632552**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: n.a.

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHFD1 SDG#: HOR44-05FD

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 3 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 20 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/10/2014 23:45 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/10/2014 23:45 | Sara E Johnson | 1 |

**Sample Description: MW-7S/10/7/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632553**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/07/2014 17:15 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHM7S SDG#: HOR44-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.6 J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/11/2014 00:07 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/11/2014 00:07 | Sara E Johnson | 1 |

**Sample Description: MW-7D/10/7/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632554**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/07/2014 18:05 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHM7D SDG#: HOR44-07

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.8 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | J | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/11/2014 00:29 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/11/2014 00:29 | Sara E Johnson | 1 |

**Sample Description: MW-9D/10/8/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632555**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/08/2014 08:55 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHM9D SDG#: HOR44-08

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 15 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/11/2014 00:51 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/11/2014 00:51 | Sara E Johnson | 1 |

**Sample Description: MW-9S/10/8/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632556**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/08/2014 09:45 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHM9S SDG#: HOR44-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 5 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/11/2014 01:13 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/11/2014 01:13 | Sara E Johnson | 1 |

**Sample Description: MW-8D/10/8/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632557**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/08/2014 10:40 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHM8D SDG#: HOR44-10BKG

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 5 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/10/2014 21:11 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/10/2014 21:11 | Sara E Johnson | 1 |

**Sample Description: MW-8D/MS/10/8/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632558**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/08/2014 10:40 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHM8D SDG#: HOR44-10MS

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 19 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 20 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 17 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 23 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 17 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/10/2014 21:33 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/10/2014 21:33 | Sara E Johnson | 1 |

**Sample Description: MW-8D/MSD/10/8/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632559**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/08/2014 10:40 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHM8D SDG#: HOR44-10MSD

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 19 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 20 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 17 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 24 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 16 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/10/2014 21:55 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/10/2014 21:55 | Sara E Johnson | 1 |

**Sample Description: MW-8S/10/8/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632560**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/08/2014 11:30 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHM8S SDG#: HOR44-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 2 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/11/2014 01:35 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/11/2014 01:35 | Sara E Johnson | 1 |

**Sample Description: MW-16S/10/8/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632561**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/08/2014 13:20 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH16S SDG#: HOR44-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 7 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/11/2014 01:57 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/11/2014 01:57 | Sara E Johnson | 1 |

**Sample Description: MW-16D/10/8/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632562**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/08/2014 14:25 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH16D SDG#: HOR44-13

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 2 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/11/2014 02:19 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/11/2014 02:19 | Sara E Johnson | 1 |

**Sample Description: MW-15S/10/8/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632563**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/08/2014 15:45 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH15S SDG#: HOR44-14

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.9 J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/11/2014 02:41 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/11/2014 02:41 | Sara E Johnson | 1 |

**Sample Description: MW-15D/10/8/14 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7632564**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/08/2014 16:50 by ML

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH15D SDG#: HOR44-15

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/11/2014 03:03 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/11/2014 03:03 | Sara E Johnson | 1 |

**Sample Description: TB-1 Water**
**Horseheads, NY**

**LL Sample # WW 7632565**
**LL Group # 1510094**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 10/08/2014

Submitted: 10/10/2014 09:20
Reported: 10/20/2014 16:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHTB1 SDG#: HOR44-16TB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | N.D. | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L142832AA | 10/10/2014 20:50 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L142832AA | 10/10/2014 20:50 | Sara E Johnson | 1 |

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1510094
Reported: 10/20/14 at 04:28 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: L142832AA | Sample number(s): 7632548-7632565 | | | | | | | |
| cis-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 96 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 99 | | 80-120 | | |
| 1,1,1-Trichloroethane | N.D. | 0.5 | ug/l | 75 | | 66-126 | | |
| Trichloroethene | N.D. | 0.5 | ug/l | 97 | | 80-120 | | |
| Vinyl Chloride | N.D. | 0.5 | ug/l | 78 | | 63-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: L142832AA | Sample number(s): 7632548-7632565 UNSPK: 7632557 | | | | | | | | |
| cis-1,2-Dichloroethene | 97 | 97 | 80-141 | 0 | 30 | | | | |
| trans-1,2-Dichloroethene | 101 | 99 | 86-131 | 2 | 30 | | | | |
| 1,1,1-Trichloroethane | 77 | 77 | 69-140 | 0 | 30 | | | | |
| Trichloroethene | 94 | 95 | 88-133 | 1 | 30 | | | | |
| Vinyl Chloride | 83 | 80 | 66-133 | 4 | 30 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: L142832AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 7632548 | 96 | 101 | 98 | 92 |
| 7632549 | 96 | 102 | 97 | 92 |
| 7632550 | 97 | 101 | 98 | 91 |
| 7632551 | 97 | 100 | 97 | 92 |
| 7632552 | 98 | 104 | 97 | 91 |
| 7632553 | 98 | 102 | 97 | 92 |
| 7632554 | 98 | 103 | 97 | 91 |
| 7632555 | 98 | 104 | 97 | 92 |
| 7632556 | 98 | 102 | 98 | 91 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1510094
Reported: 10/20/14 at 04:28 PM

## Surrogate Quality Control

| | | | | |
|---|---|---|---|---|
| 7632557 | 97 | 101 | 98 | 92 |
| 7632558 | 96 | 101 | 100 | 94 |
| 7632559 | 94 | 102 | 100 | 94 |
| 7632560 | 97 | 101 | 97 | 92 |
| 7632561 | 98 | 102 | 97 | 91 |
| 7632562 | 98 | 102 | 98 | 91 |
| 7632563 | 100 | 102 | 96 | 91 |
| 7632564 | 99 | 101 | 98 | 91 |
| 7632565 | 96 | 103 | 97 | 92 |
| Blank | 96 | 101 | 98 | 92 |
| LCS | 96 | 101 | 100 | 94 |
| MS | 96 | 101 | 100 | 94 |
| MSD | 94 | 102 | 100 | 94 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 For Eurofins Lancaster Laboratories Environmental use only Group # ~~1519~~ 151009 Sample # 763254 8-65

Instructions on reverse side correspond with circled numbers.

3) KM2 10-16-14

1 of 2

359624

## 1 Client Information

| | |
|---|---|
| Client: Cummings/Riter Consultants | Acct. #: |
| Project Name/#: (Quarterly) CBS - Hornell, NY | PWSID #: |
| Project Manager: Douglas Spicuzza | P.O. #: |
| Sampler: Mike Lamont | Quote #: |

Name of state where samples were collected: New York

## 4 Matrix

Sediment ☐ Soil ☐ | Ground ☒ Potable ☐ Water | Surface ☐ NPDES ☐ | Other: ☐

## 5 Analysis Requested

Preservation Codes

## For Lab Use Only

FSC:

SCR#: 160108

### Preservation Codes

H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

## 6 Remarks

* = TCE, cis, 1,2 DCE, trans, 1,2 DCE, 1,1,1 TCA + Vinyl Chloride

| 2 Sample Identification | Collected Date | Collected Time | 3 Grab | Composite | Total # of Containers | H | * Select VOCs (8260) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-113D / 10/7/14 | 10/7/14 | 13:45 | X | | 3 | X | X | | | | | | | | | |
| CW-3D / 10/7/14 | 10/7/14 | 14:40 | X | | 3 | X | X | | | | | | | | | |
| CW-3S / 10/7/14 | 10/7/14 | 15:20 | X | | 3 | X | X | | | | | | | | | |
| MW-10S / 10/7/14 | 10/7/14 | 16:15 | X | | 3 | X | X | | | | | | | | | |
| DUP-1 | — | — | X | | 3 | X | X | | | | | | | | | Duplicate 1 |
| MW-7S / 10/7/14 | 10/7/14 | 17:15 | X | | 3 | X | X | | | | | | | | | |
| MW-7D / 10/7/14 | 10/7/14 | 18:05 | X | | 3 | X | X | | | | | | | | | |
| MW-9D / 10/8/14 | 10/8/14 | 8:55 | X | | 3 | X | X | | | | | | | | | |
| MW-9S / 10/8/14 | 10/8/14 | 9:45 | X | | 3 | X | X | | | | | | | | | |
| MW-8D / 10/8/14 | 10/8/14 | 10:40 | X | | 3 | X | X | | | | | | | | | |

## 7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

## 8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 10/9/14 | 1255 | | 10/10/14 | 7:00 |
| | 10/9/14 | 10:30 | | | |
| | | | | | |
| | | | | | |
| | | | | | |

EDD Required? Yes No

If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS _____ FedEx ✓ Other _____

Temperature upon receipt 1.3 °C

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 For Eurofins Lancaster Laboratories Environmental use only Group # 1510094 Sample # 763254 8-65

Instructions on reverse side correspond with circled numbers.

2 of 2

359625

## 1 Client Information

| | |
|---|---|
| Client: Cummins / Nitech Consultants | Acct. #: |
| Project Name/#: (Quarterly) CBS - Households, NY | PWSID #: |
| Project Manager: Douglas Spicuzza | P.O. #: |
| Sampler: Mike Lambert | Quote #: |

Name of state where samples were collected: New York

## 2 Sample Identification / 3 Collected / 4 Matrix / 5 Analysis Requested

| Sample Identification | Collected Date | Collected Time | 3 Grab | 3 Composite | 4 Soil | 4 Sediment | 4 Water (Potable / Ground / NPDES / Surface) | 4 Other: | Total # of Containers | 5 Preservation Codes: H | 5 *Select VOCs (8260) | 6 Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-8D/MS/10/8/14 | 10/8/14 | 10:40 | X | | | | X | | 3 | X | X | Matrix Spike |
| MW-8D/MSD/10/8/14 | 10/8/14 | 10:40 | X | | | | X | | 3 | X | X | Matrix Spike Dup |
| MW-8S / 10/8/14 | 10/8/14 | 11:30 | X | | | | X | | 3 | X | X | |
| MW-16S / 10/8/14 | 10/8/14 | 13:20 | X | | | | X | | 3 | X | X | |
| MW-16D / 10/8/14 | 10/8/14 | 14:25 | X | | | | X | | 3 | X | X | |
| MW-15S / 10/8/14 | 10/8/14 | 15:45 | X | | | | X | | 3 | X | X | |
| MW-15D / 10/8/14 | 10/8/14 | 16:50 | X | | | | X | | 3 | X | X | |
| TB-1 | 10/8/14 | — | — | | | | X | | 2 | X | X | Trip Blank 1* |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

* = TCE, cis, 1,2 DCE, trans 1,2 DCE, 1,1,1 TCA + Vinyl Chloride

**For Lab Use Only**

FSC:

SCR#:

**Preservation Codes**

H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

## 6 Remarks

## 7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

## 8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 10/9/14 | 10:30 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | Date 10/10/14 | Time 0920 |

## 9

EDD Required? Yes No

If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS _____ FedEx ✓ Other _____

Temperature upon receipt 1.3 °C

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# Sample Administration Receipt Documentation Log

Doc Log ID: 33738

Group Number(s): 1510094

Client: CUMMINGS RITER

## CBS

### Delivery and Receipt Information

| | | | |
|---|---|---|---|
| Delivery Method: | Fed Ex | Arrival Timestamp: | 10/10/2014 9:20 |
| Number of Packages: | 1 | Number of Projects: | 1 |
| State/Province of Origin: | NY | | |

### Arrival Condition Summary

| | | | |
|---|---|---|---|
| Shipping Container Sealed: | Yes | Total Trip Blank Qty: | 2 |
| Custody Seal Present: | Yes | Trip Blank Type: | HCL |
| Custody Seal Intact: | Yes | Air Quality Samples Present: | No |
| Samples Chilled: | Yes | Air Quality Flow Controllers Present: | N/A |
| Paperwork Enclosed: | Yes | Flow Controller Quantity: | 0 |
| Samples Intact: | Yes | Air Quality Returns: | N/A |
| Missing Samples: | No | | |
| Extra Samples: | No | | |
| Discrepancy in Container Qty on COC: | No | | |
| Sample IDs on COC match Containers: | Yes | | |
| Sample Date/Times match COC: | Yes | | |
| VOA Vial Headspace ≥ 6mm: | No | | |
| VOA IDs ( ≥ 6mm): | N/A | | |

Unpacked by Corey Eshleman (3647) at 11:08 on 10/10/2014

### Samples Chilled Details: CBS

*Thermometer Types:* *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|---|---|---|---|---|---|---|---|
| 1 | DT121 | 1.3 | DT | Wet | Y | Bagged | N |



2425 New Holland Pike
Lancaster, PA 17605-2425



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F | 717-656-2681
www.LancasterLabs.com

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*Data Qualifiers:*

**C –** result confirmed by reanalysis.

**J -** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **A** | TIC is a possible aldol-condensation product |
| **B** | Analyte was also detected in the blank |
| **C** | Pesticide result confirmed by GC/MS |
| **D** | Compound quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **N** | Presumptive evidence of a compound (TICs only) |
| **P** | Concentration difference between primary and confirmation columns >25% |
| **U** | Compound was not detected |
| **X,Y,Z** | Defined in case narrative |

**Inorganic Qualifiers**

| | |
|---|---|
| **B** | Value is <CRDL, but ≥IDL |
| **E** | Estimated due to interference |
| **M** | Duplicate injection precision not met |
| **N** | Spike sample not within control limits |
| **S** | Method of standard additions (MSA) used for calculation |
| **U** | Compound was not detected |
| **W** | Post digestion spike out of control limits |
| ***** | Duplicate analysis not within control limits |
| **+** | Correlation coefficient for MSA <0.995 |

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

January 27, 2015

Project: Horseheads, NY

Submittal Date: 01/23/2015
Group Number: 1533468
SDG: HOR45
PO Number: ENV-OM-00137
Release Number: HORSEHEADS
State of Sample Origin: NY

| Client Sample Description | Lancaster Labs (LL) # |
|---|---|
| CW-3D/1/20/15 Grab Groundwater | 7749361 |
| CW-3S/1/20/15 Grab Groundwater | 7749362 |
| DUP-1 Grab Groundwater | 7749363 |
| MW-7S/1/20/15 Grab Groundwater | 7749364 |
| MW-7D/1/20/15 Grab Groundwater | 7749365 |
| MW-113D/1/21/15 Grab Groundwater | 7749366 |
| MW-10S/1/21/15 Grab Groundwater | 7749367 |
| MW-9D/1/21/15 Grab Groundwater | 7749368 |
| MW-9S/1/21/15 Grab Groundwater | 7749369 |
| MW-16S/1/21/15 Grab Groundwater | 7749370 |
| MW-16D/1/21/15 Grab Groundwater | 7749371 |
| MW-15S/1/21/15 Grab Groundwater | 7749372 |
| MW-15D/1/21/15 Grab Groundwater | 7749373 |
| MW-8D/1/22/15 Grab Groundwater | 7749374 |
| MW-8D/MS/1/22/15 Grab Groundwater | 7749375 |
| MW-8D/MSD/1/22/15 Grab Groundwater | 7749376 |
| MW-8S/1/22/15 Grab Groundwater | 7749377 |
| TB-1 Water | 7749378 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC CBS Corporation Attn: Doug Spicuzza

REVISED

| | | |
|---|---|---|
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| ELECTRONIC | Cummings Riter Consultants | Attn: Mike Lambert |
| COPY TO | | |
| ELECTRONIC | Cummings Riter Consultants | Attn: Christine Kuzmkowski |
| COPY TO | | |

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

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# Analysis Report

REVISED

**Sample Description: CW-3D/1/20/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749361**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/20/2015 14:40 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

CW3D- SDG#: HOR45-01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 10 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 04:57 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 04:57 | Stephanie A Selis | 1 |

REVISED

**Sample Description: CW-3S/1/20/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749362**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/20/2015 15:25 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

CW3S- SDG#: HOR45-02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 8 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 05:19 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 05:19 | Stephanie A Selis | 1 |

REVISED

**Sample Description: DUP-1 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749363**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: n.a.

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-DP1- SDG#: HOR45-03FD

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 8 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 05:41 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 05:41 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-7S/1/20/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749364**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/20/2015 16:20 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-7S-- SDG#: HOR45-04

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.7 J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 06:04 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 06:04 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-7D/1/20/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749365**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/20/2015 17:10 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-7D-- SDG#: HOR45-05

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | J | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 06:26 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 06:26 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-113D/1/21/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749366**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/21/2015 09:10 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

113D- SDG#: HOR45-06

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.7 J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 20 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 06:48 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 06:48 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-10S/1/21/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749367**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/21/2015 10:10 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-105- SDG#: HOR45-07

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 7 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 51 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 07:10 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 07:10 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-9D/1/21/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749368**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/21/2015 11:10 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-9D-- SDG#: HOR45-08

| CAT No. | Analysis Name | CAS Number | As Received Result | | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.9 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 18 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 07:33 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 07:33 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-9S/1/21/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749369**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/21/2015 12:05 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-9S-- SDG#: HOR45-09

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 6 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 07:55 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 07:55 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-16S/1/21/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749370**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/21/2015 13:35 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

16S-- SDG#: HOR45-10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 6 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 08:17 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 08:17 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-16D/1/21/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749371**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/21/2015 14:40 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-16D- SDG#: HOR45-11

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 2 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 08:39 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 08:39 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-15S/1/21/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749372**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/21/2015 15:50 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-15S- SDG#: HOR45-12

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 09:02 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 09:02 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-15D/1/21/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749373**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/21/2015 16:45 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-15D- SDG#: HOR45-13

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 09:24 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 09:24 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-8D/1/22/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749374**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/22/2015 08:55 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-8D-- SDG#: HOR45-14BKG

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 5 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 02:21 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 02:21 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-8D/MS/1/22/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749375**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/22/2015 08:55 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-8D-- SDG#: HOR45-14MS

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 23 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 23 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 22 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 29 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 20 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 02:43 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 02:43 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-8D/MSD/1/22/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749376**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/22/2015 08:55 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-8D-- SDG#: HOR45-14MSD

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 23 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 23 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 22 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 29 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 21 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 03:06 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 03:06 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-8S/1/22/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7749377**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/22/2015 09:50 by ML

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-8S-- SDG#: HOR45-15

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 2 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 09:46 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 09:46 | Stephanie A Selis | 1 |

REVISED

**Sample Description: TB-1 Water**
**Horseheads, NY**

**LL Sample # WW 7749378**
**LL Group # 1533468**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 01/22/2015

Submitted: 01/23/2015 09:10
Reported: 01/27/2015 15:30

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-TB1- SDG#: HOR45-16TB

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | N.D. | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L150241AA | 01/24/2015 04:35 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L150241AA | 01/24/2015 04:35 | Stephanie A Selis | 1 |

REVISED

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1533468
Reported: 01/27/15 at 03:30 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: L150241AA | Sample number(s): 7749361-7749378 | | | | | | | |
| cis-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 105 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 105 | | 80-120 | | |
| 1,1,1-Trichloroethane | N.D. | 0.5 | ug/l | 89 | | 66-126 | | |
| Trichloroethene | N.D. | 0.5 | ug/l | 104 | | 80-120 | | |
| Vinyl Chloride | N.D. | 0.5 | ug/l | 88 | | 63-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: L150241AA | Sample number(s): 7749361-7749378 UNSPK: 7749374 | | | | | | | | |
| cis-1,2-Dichloroethene | 114 | 114 | 80-141 | 0 | 30 | | | | |
| trans-1,2-Dichloroethene | 114 | 115 | 86-131 | 0 | 30 | | | | |
| 1,1,1-Trichloroethane | 109 | 110 | 69-140 | 2 | 30 | | | | |
| Trichloroethene | 118 | 120 | 88-133 | 1 | 30 | | | | |
| Vinyl Chloride | 101 | 103 | 66-133 | 2 | 30 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: L150241AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 7749361 | 96 | 101 | 99 | 98 |
| 7749362 | 97 | 101 | 99 | 98 |
| 7749363 | 96 | 102 | 99 | 98 |
| 7749364 | 95 | 99 | 100 | 98 |
| 7749365 | 96 | 101 | 98 | 98 |
| 7749366 | 95 | 102 | 99 | 98 |
| 7749367 | 96 | 101 | 99 | 98 |
| 7749368 | 95 | 100 | 99 | 97 |
| 7749369 | 96 | 101 | 99 | 98 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

REVISED

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1533468
Reported: 01/27/15 at 03:30 PM

## Surrogate Quality Control

| | | | | |
|---|---|---|---|---|
| 7749370 | 95 | 100 | 99 | 97 |
| 7749371 | 95 | 101 | 99 | 98 |
| 7749372 | 95 | 100 | 100 | 98 |
| 7749373 | 95 | 100 | 100 | 98 |
| 7749374 | 96 | 99 | 101 | 97 |
| 7749375 | 97 | 101 | 100 | 99 |
| 7749376 | 96 | 100 | 100 | 99 |
| 7749377 | 95 | 100 | 99 | 98 |
| 7749378 | 95 | 101 | 100 | 98 |
| Blank | 97 | 101 | 99 | 99 |
| LCS | 97 | 101 | 99 | 99 |
| MS | 97 | 101 | 100 | 99 |
| MSD | 96 | 100 | 100 | 99 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 For Eurofins Lancaster Laboratories Environmental use only Group # 1533468 Sample # 7749361-78
Instructions on reverse side correspond with circled numbers.

366932
1 of 2

## 1 Client Information

| | |
|---|---|
| Client: Cummins/Nitec Consultants | Acct. #: |
| Project Name/#: CBS - Horseheads, NY | PWSID #: |
| Project Manager: Douglas Spiozza | P.O. #: |
| Sampler: Mike Lambert | Quote #: |

Name of state where samples were collected: New York

## 4 Matrix

Sediment ☐ Soil ☐ | Ground ☒ Potable ☐ Water | Surface ☐ NPDES ☐ | Other: ____

## 5 Analysis Requested

Preservation Codes

| 2 Sample Identification | Collected Date | Collected Time | 3 Grab | 3 Composite | Total # of Containers | * VOC's (8260 select) | Remarks |
|---|---|---|---|---|---|---|---|
| CW-3D / 11201/15 | 11/20/15 | 14:40 | X | | 3 | X | |
| CW-3S / 11201/15 | 11/20/15 | 15:25 | X | | 3 | X | |
| DUP-1 | — | — | X | | 3 | X | DUPLICATE 1 |
| MW-7S / 11201/15 | 11/20/15 | 16:20 | X | | 3 | X | |
| MW-7D / 11201/15 | 11/20/15 | 17:10 | X | | 3 | X | |
| MW-113D / 11211/15 | 11/21/15 | 9:10 | X | | 3 | X | |
| MW-10S / 11211/15 | 11/21/15 | 10:10 | X | | 3 | X | |
| MW-9D / 11211/15 | 11/21/15 | 11:10 | X | | 3 | X | |
| MW-9S / 11211/15 | 11/21/15 | 12:05 | X | | 3 | X | |
| MW-16S / 11211/15 | 11/21/15 | 13:35 | X | | 3 | X | |

For Lab Use Only
FSC:
SCR#: 166314

**Preservation Codes**
H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

## 6 Remarks

* = TCE, cis 1,2 DCE, trans 1,2 DCE, 1,1,1 TCA, vinyl chloride

## 7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

## 8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| [signature] | 1-14-15 | 0900 | [signature] | 11/20/15 | 12:00 |
| [signature] | 11/22/15 | 11:15 | | | |
| | | | | | |
| | | | | | |
| | | | [signature] | 1-23-15 | 910 |

EDD Required? Yes No
If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx X Other _____

Temperature upon receipt 1.1 °C

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 For Eurofins Lancaster Laboratories Environmental use only Group # 1533408 Sample # 7749361-78
Instructions on reverse side correspond with circled numbers.

366933

2 of 2

## 1 Client Information

| | |
|---|---|
| Client: Cummings/Riter Consultants | Acct. #: |
| Project Name/#: COS - Horseheads, NY | PWSID #: |
| Project Manager: Douglas Spicuzza | P.O. #: |
| Sampler: Mike Lamont | Quote #: |
| Name of state where samples were collected: New York | |

## 2 Sample Identification / 3 Collected / 4 Matrix / 5 Analysis Requested

| Sample Identification | Date | Time | Grab | Composite | Matrix: Soil | Sediment | Water | Ground | Potable | Surface | NPDES | Other: | Total # of Containers | VOCs (8260 Select) * | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-16D / 1121/15 | 1/21/15 | 14:40 | X | | | | X | | | | | | 3 | X | |
| MW-15S / 1121/15 | 1/21/15 | 15:50 | X | | | | X | | | | | | 3 | X | |
| MW-15D / 1121/15 | 1/21/15 | 16:45 | X | | | | X | | | | | | 3 | X | |
| MW-8D / 1122/15 | 1/22/15 | 8:55 | X | | | | X | | | | | | 3 | X | |
| MW-8D/MS / 1122/15 | 1/22/15 | 8:55 | X | | | | X | | | | | | 3 | X | MATRIX SPIKE |
| MW-8D/MSD / 1122/15 | 1/22/15 | 8:55 | X | | | | X | | | | | | 3 | X | MATRIX SPIKE DUP |
| MW-8S / 1122/15 | 1/22/15 | 9:50 | X | | | | X | | | | | | 3 | X | |
| TB-1 | 1/22/15 | - | - | | | | X | | | | | | 2 | X | TRIP BLANK 1 * |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

* = TCE, cis 1,2 DCE, trans 1,2 DCE, 1,1,1 TCA, vinyl chloride

**For Lab Use Only**
FSC:
SCR#:

**Preservation Codes**
H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

## 6 Remarks

## 7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed:

E-mail address:

## 8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

## 9

| | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | | 1/22/15 | 11:15 | | | |
| 2 | Relinquished by | Date | Time | Received by | Date | Time |
| 3 | Relinquished by | Date | Time | Received by | Date | Time |
| 4 | Relinquished by | Date | Time | Received by | Date | Time |
| 5 | Relinquished by | Date | Time | Received by | 1/23/15 | 910 |

EDD Required? Yes No
If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS FedEx Other

Temperature upon receipt 1.6 °C

eurofins | Lancaster Laboratories Environmental

# Sample Administration Receipt Documentation Log

Doc Log ID: 52273

Group Number(s): 1533468

Client: Cimmings/Riter

## Delivery and Receipt Information

| | | | |
|---|---|---|---|
| Delivery Method: | Fed Ex | Arrival Timestamp: | 01/23/2015 9:10 |
| Number of Packages: | 1 | Number of Projects: | 1 |
| State/Province of Origin: | NY | | |

## Arrival Condition Summary

| | | | |
|---|---|---|---|
| Shipping Container Sealed: | Yes | Sample IDs on COC match Containers: | Yes |
| Custody Seal Present: | Yes | Sample Date/Times match COC: | Yes |
| Custody Seal Intact: | Yes | VOA Vial Headspace ≥ 6mm: | No |
| Samples Chilled: | Yes | Total Trip Blank Qty: | 2 |
| Paperwork Enclosed: | Yes | Trip Blank Type: | HCL |
| Samples Intact: | Yes | Air Quality Samples Present: | No |
| Missing Samples: | No | | |
| Extra Samples: | No | | |
| Discrepancy in Container Qty on COC: | No | | |

*Unpacked by Brandy Barclay (2299) at 12:19 on 01/23/2015*

## Samples Chilled Details

*Thermometer Types:* *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|---|---|---|---|---|---|---|---|
| 1 | DT146 | 1.1 | DT | Wet | Y | Bagged | N |



2425 New Holland Pike
Lancaster, PA 17605-2425
T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

| | |
|---|---|
| **<** | less than |
| **>** | greater than |
| **ppm** | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas. |
| **ppb** | parts per billion |
| **Dry weight basis** | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. |

*Laboratory Data Qualifiers:*

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

April 20, 2015

**Project: Horseheads, NY**

Submittal Date: 04/10/2015
Group Number: 1552298
SDG: HOR47
PO Number: ENV-OM-00137
Release Number: HORSEHEADS
State of Sample Origin: NY

| Client Sample Description | Lancaster Labs (LL) # |
|---|---|
| CW-3D/4/7/15 Grab Groundwater | 7842268 |
| CW-3S/4/7/15 Grab Groundwater | 7842269 |
| MW-10S/4/7/15 Grab Groundwater | 7842270 |
| MW-7S/4/7/15 Grab Groundwater | 7842271 |
| MW-7D/4/7/15 Grab Groundwater | 7842272 |
| MW-113D/4/8/15 Grab Groundwater | 7842273 |
| MW-9D/4/8/15 Grab Groundwater | 7842274 |
| MW-9S/4/8/15 Grab Groundwater | 7842275 |
| MW-9S/MS/4/8/15 Grab Groundwater | 7842276 |
| MW-9S/MSD/4/8/15 Grab Groundwater | 7842277 |
| MW-16S/4/8/15 Grab Groundwater | 7842278 |
| MW-16D/4/8/15 Grab Groundwater | 7842279 |
| DUP-1/4/8/15 Grab Groundwater | 7842280 |
| MW-15S/4/8/15 Grab Groundwater | 7842281 |
| MW-15D/4/8/15 Grab Groundwater | 7842282 |
| MW-8D/4/9/15 Grab Groundwater | 7842283 |
| MW-8S/4/9/15 Grab Groundwater | 7842284 |
| TB-1 Water | 7842285 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC CBS Corporation Attn: Doug Spicuzza

| | | |
|---|---|---|
| COPY TO | | |
| ELECTRONIC | Cummings Riter Consultants | Attn: Mike Lambert |
| COPY TO | | |
| ELECTRONIC | Cummings Riter Consultants | Attn: Christine Kuzmkowski |
| COPY TO | | |

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

eurofins | Lancaster Laboratories Environmental

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# Analysis Report

**Sample Description: CW-3D/4/7/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842268**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/07/2015 13:45 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

CW-3D SDG#: HOR47-01

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 10 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 05:48 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 05:48 | Stephanie A Selis | 1 |

**Sample Description: CW-3S/4/7/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842269**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/07/2015 14:25 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

CW-3S SDG#: HOR47-02

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 8 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 06:10 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 06:10 | Stephanie A Selis | 1 |

**Sample Description: MW-10S/4/7/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842270**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/07/2015 15:30 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW10S SDG#: HOR47-03

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 14 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 66 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 06:32 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 06:32 | Stephanie A Selis | 1 |

**Sample Description: MW-7S/4/7/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842271**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/07/2015 16:50 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW-7S SDG#: HOR47-04

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.6 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 06:55 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 06:55 | Stephanie A Selis | 1 |

**Sample Description: MW-7D/4/7/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842272**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/07/2015 17:45 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW-7D SDG#: HOR47-05

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 0.9 | J | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 07:17 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 07:17 | Stephanie A Selis | 1 |

**Sample Description: MW-113D/4/8/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842273**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/08/2015 08:45 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

-113D SDG#: HOR47-06

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.8 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 20 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 07:39 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 07:39 | Stephanie A Selis | 1 |

**Sample Description: MW-9D/4/8/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842274**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/08/2015 09:55 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW-9D SDG#: HOR47-07

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.7 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 17 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 08:02 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 08:02 | Stephanie A Selis | 1 |

**Sample Description: MW-9S/4/8/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842275**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/08/2015 10:50 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW-9S SDG#: HOR47-08BKG

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 7 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 04:41 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 04:41 | Stephanie A Selis | 1 |

**Sample Description: MW-9S/MS/4/8/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842276**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/08/2015 10:50 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW-9S SDG#: HOR47-08MS

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 22 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 23 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 21 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 29 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 22 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 05:03 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 05:03 | Stephanie A Selis | 1 |

**Sample Description: MW-9S/MSD/4/8/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842277**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/08/2015 10:50 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW-9S SDG#: HOR47-08MSD

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 22 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 23 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 21 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 30 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 22 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 05:25 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 05:25 | Stephanie A Selis | 1 |

**Sample Description: MW-16S/4/8/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842278**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/08/2015 12:25 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW16S SDG#: HOR47-09

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 5 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 08:24 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 08:24 | Stephanie A Selis | 1 |

**Sample Description: MW-16D/4/8/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842279**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/08/2015 13:35 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW16D SDG#: HOR47-10

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 08:46 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 08:46 | Stephanie A Selis | 1 |

**Sample Description: DUP-1/4/8/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842280**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/08/2015 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH-DU SDG#: HOR47-11FD

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 09:09 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 09:09 | Stephanie A Selis | 1 |

**Sample Description: MW-15S/4/8/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842281**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/08/2015 14:35 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW15S SDG#: HOR47-12

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 2 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 09:31 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 09:31 | Stephanie A Selis | 1 |

**Sample Description: MW-15D/4/8/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842282**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/08/2015 15:50 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW15D SDG#: HOR47-13

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 09:53 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 09:53 | Stephanie A Selis | 1 |

**Sample Description: MW-8D/4/9/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842283**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/09/2015 08:20 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW-8D SDG#: HOR47-14

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.6 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 8 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 10:15 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 10:15 | Stephanie A Selis | 1 |

**Sample Description: MW-8S/4/9/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7842284**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/09/2015 09:05 by ML

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW-8S SDG#: HOR47-15

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 10:38 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 10:38 | Stephanie A Selis | 1 |

**Sample Description: TB-1 Water**
**Horseheads, NY**

**LL Sample # WW 7842285**
**LL Group # 1552298**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 04/07/2015

Submitted: 04/10/2015 09:50
Reported: 04/20/2015 17:39

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

MW8ST SDG#: HOR47-16TB

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | N.D. | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L151081AA | 04/18/2015 11:00 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L151081AA | 04/18/2015 11:00 | Stephanie A Selis | 1 |

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1552298
Reported: 04/20/2015 17:39

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: L151081AA | Sample number(s): 7842268-7842285 | | | | | | | |
| cis-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 105 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 105 | | 80-120 | | |
| 1,1,1-Trichloroethane | N.D. | 0.5 | ug/l | 101 | | 66-126 | | |
| Trichloroethene | N.D. | 0.5 | ug/l | 104 | | 80-120 | | |
| Vinyl Chloride | N.D. | 0.5 | ug/l | 100 | | 69-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: L151081AA | Sample number(s): 7842268-7842285 UNSPK: 7842275 | | | | | | | | |
| cis-1,2-Dichloroethene | 111 | 112 | 80-141 | 1 | 30 | | | | |
| trans-1,2-Dichloroethene | 115 | 113 | 86-131 | 1 | 30 | | | | |
| 1,1,1-Trichloroethane | 99 | 99 | 69-140 | 0 | 30 | | | | |
| Trichloroethene | 111 | 113 | 88-133 | 2 | 30 | | | | |
| Vinyl Chloride | 112 | 111 | 66-133 | 1 | 30 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: L151081AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 7842268 | 102 | 101 | 97 | 89 |
| 7842269 | 101 | 103 | 96 | 89 |
| 7842270 | 102 | 103 | 97 | 88 |
| 7842271 | 102 | 104 | 96 | 89 |
| 7842272 | 102 | 103 | 97 | 89 |
| 7842273 | 102 | 104 | 96 | 89 |
| 7842274 | 102 | 105 | 97 | 89 |
| 7842275 | 102 | 92 | 97 | 89 |
| 7842276 | 101 | 102 | 97 | 91 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1552298
Reported: 04/20/2015 17:39

## Surrogate Quality Control

| | | | | |
|---|---|---|---|---|
| 7842277 | 101 | 103 | 98 | 91 |
| 7842278 | 104 | 108 | 96 | 90 |
| 7842279 | 103 | 104 | 97 | 89 |
| 7842280 | 102 | 105 | 97 | 89 |
| 7842281 | 102 | 104 | 97 | 88 |
| 7842282 | 102 | 106 | 97 | 88 |
| 7842283 | 103 | 105 | 96 | 89 |
| 7842284 | 101 | 101 | 97 | 89 |
| 7842285 | 101 | 101 | 98 | 88 |
| Blank | 101 | 85 | 96 | 89 |
| LCS | 101 | 103 | 98 | 92 |
| MS | 101 | 102 | 97 | 91 |
| MSD | 101 | 103 | 98 | 91 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 For Eurofins Lancaster Laboratories Environmental use only Group # 1552298 Sample # 7842268-85
Instructions on reverse side correspond with circled numbers.

372688

1 of 2

## 1 Client Information

| | |
|---|---|
| Client: Woodard + Curran | Acct. #: |
| Project Name/#: CBS - Horseheads, NY | PWSID #: |
| Project Manager: Douglas Spicuzza | P.O. #: |
| Sampler: Mike Lamarat | Quote #: |

Name of state where samples were collected: New York

## 4 Matrix

Soil ☐ Sediment ☐ Water ☒ Ground ☒ Potable ☐ NPDES ☐ Surface ☐ Other: ____

## 5 Analysis Requested

Preservation Codes

| 2 Sample Identification | Collected Date | Collected Time | 3 Grab | 3 Composite | Total # of Containers | * Select VOCs (Pres) | Remarks |
|---|---|---|---|---|---|---|---|
| CW-3D / 4/7/15 | 4/7/15 | 13:45 | X | | 3 | X | |
| CW-3S / 4/7/15 | 4/7/15 | 14:25 | X | | 3 | X | |
| MW-10S / 4/7/15 | 4/7/15 | 15:30 | X | | 3 | X | |
| MW-7S / 4/7/15 | 4/7/15 | 16:50 | X | | 3 | X | |
| MW-7D / 4/7/15 | 4/7/15 | 17:45 | X | | 3 | X | |
| MW-113D / 4/8/15 | 4/8/15 | 8:45 | X | | 3 | X | |
| MW-9D / 4/8/15 | 4/8/15 | 9:55 | X | | 3 | X | |
| MW-9S / 4/8/15 | 4/8/15 | 10:50 | X | | 3 | X | |
| MW-9S/MS / 4/8/15 | 4/8/15 | 10:50 | X | | 3 | X | MATRIX SPIKE |
| MW-9S/MSD / 4/8/15 | 4/8/15 | 10:50 | X | | 3 | X | MATRIX SPIKE DUP |

For Lab Use Only
FSC:
SCR#: 169585

**Preservation Codes**
H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

**6 Remarks**
X = TCE, cis, 1,2 DCE, TRANS, 1,2, DCE, 1,1,1, TCA, VINYL CHLORIDE

**7 Turnaround Time (TAT) Requested** (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

**8 Data Package Options** (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
NYSDEC Category A or B MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| L Megarko | 4/1/15 | 8:53 | | 4/7/15 | 7:00 |
| | 4/9/15 | 11:00 | | | |
| | | | | | |
| | | | | | |
| | | | | 4/12/15 | 950 |

EDD Required? Yes No
If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.7 °C

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 For Eurofins Lancaster Laboratories Environmental use only Group # 1552298 Sample # 7842268-85
Instructions on reverse side correspond with circled numbers.

372690

2 of 2

## 1 Client Information

| | |
|---|---|
| Client: Nocoma + Curran | Acct. #: |
| Project Name/#: COC - Homeheads, NY | PWSID #: |
| Project Manager: Douglas Sicuzza | P.O. #: |
| Sampler: Mike Lamont | Quote #: |

Name of state where samples were collected: New York

## 4 Matrix

Sediment ☐ Soil ☐ | Ground ☒ Potable ☐ Water | Surface ☐ NPDES ☐ | Other: ☐

## 5 Analysis Requested

Preservation Codes

## For Lab Use Only

FSC:

SCR#:

**Preservation Codes**

H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

## 6 Remarks

* = TCE, cis 1,2 DCE, Trans 1,2 DCE, 1,1,1 TCA, Vinyl Chloride

| 2 Sample Identification | Collected Date | Collected Time | 3 Grab | 3 Composite | Total # of Containers | * Select VOCs (8260) | Remarks |
|---|---|---|---|---|---|---|---|
| MW-16S / 4/8/15 | 4/8/15 | 12:25 | X | | 3 | X | |
| MW-16D / 4/8/15 | 4/8/15 | 13:35 | X | | 3 | X | |
| DUP-1 / 4/8/15 | 4/8/15 | [redacted] | X | | 3 | X | DUPLICATE 1* |
| MW-15S / 4/8/15 | 4/8/15 | 14:35 | X | | 3 | X | |
| MW-15D / 4/8/15 | 4/8/15 | 15:50 | X | | 3 | X | |
| MW-8D / 4/9/15 | 4/9/15 | 8:20 | X | | 3 | X | |
| MW-8S / 4/9/15 | 4/9/15 | 9:05 | X | | 3 | X | |
| TB-1 | 4/7/15 | - | - | | 2 | X | TRIP BLANK 1* |

## 7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is ~~subject to~~ laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

## 8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 4/9/15 | 11:00 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | 4/10/15 | 950 |

## 9

EDD Required? Yes No

If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.7 °C

eurofins | Lancaster Laboratories Environmental

# Sample Administration Receipt Documentation Log

Doc Log ID: 65397

Group Number(s): 1552298

Client: CBS

## Delivery and Receipt Information

| | | | |
|---|---|---|---|
| Delivery Method: | Fed Ex | Arrival Timestamp: | 04/10/2015 9:50 |
| Number of Packages: | 1 | Number of Projects: | 1 |
| State/Province of Origin: | NY | | |

## Arrival Condition Summary

| | | | |
|---|---|---|---|
| Shipping Container Sealed: | Yes | Sample IDs on COC match Containers: | Yes |
| Custody Seal Present: | Yes | Sample Date/Times match COC: | Yes |
| Custody Seal Intact: | Yes | VOA Vial Headspace ≥ 6mm: | No |
| Samples Chilled: | Yes | Total Trip Blank Qty: | 2 |
| Paperwork Enclosed: | Yes | Trip Blank Type: | HCl |
| Samples Intact: | Yes | Air Quality Samples Present: | No |
| Missing Samples: | No | | |
| Extra Samples: | No | | |
| Discrepancy in Container Qty on COC: | No | | |

*Unpacked by Jordan Woods (6698) at 14:22 on 04/10/2015*

## Samples Chilled Details

*Thermometer Types:* *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|---|---|---|---|---|---|---|---|
| 1 | DT146 | 0.7 | DT | Wet | Y | Bagged | N |



2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

| | |
|---|---|
| **<** | less than |
| **>** | greater than |
| **ppm** | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas. |
| **ppb** | parts per billion |
| **Dry weight basis** | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. |

*Laboratory Data Qualifiers:*

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

August 13, 2015

**Project: Horseheads, NY**

Submittal Date: 08/06/2015
Group Number: 1582839
SDG: HOR48
PO Number: ENV-OM-00137
Release Number: HORSEHEADS
State of Sample Origin: NY

| Client Sample Description | Lancaster Labs (LL) # |
|---|---|
| MW-101I/8/4/15 Grab Groundwater | 7996597 |
| MW-101S/8/4/15 Grab Groundwater | 7996598 |
| MW-100D/8/4/15 Grab Groundwater | 7996599 |
| CW-7D/8/4/15 Grab Groundwater | 7996600 |
| CW-7S/8/4/15 Grab Groundwater | 7996601 |
| CW-7S/MS/8/4/15 Grab Groundwater | 7996602 |
| CW-7S/MSD/8/4/15 Grab Groundwater | 7996603 |
| MW-120/8/4/15 Grab Groundwater | 7996604 |
| MW-105D/8/4/15 Grab Groundwater | 7996605 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

| | | |
|---|---|---|
| ELECTRONIC COPY TO | Woodard & Curran Inc. | Attn: Christine Kuzmkowski |
| ELECTRONIC COPY TO | Woodard & Curran Inc. | Attn: Mike Lambert |
| ELECTRONIC COPY TO | CBS Corporation | Attn: Doug Spicuzza |

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

**Sample Description: MW-101I/8/4/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996597**
**LL Group # 1582839**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/04/2015 10:10 by KS

Submitted: 08/06/2015 22:25
Reported: 08/13/2015 12:25

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H101I SDG#: HOR48-01

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 7 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/10/2015 22:36 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/10/2015 22:36 | Caitlin M Carmody | 1 |

**Sample Description: MW-101S/8/4/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996598**
**LL Group # 1582839**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/04/2015 11:00 by KS

Submitted: 08/06/2015 22:25
Reported: 08/13/2015 12:25

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H101S SDG#: HOR48-02

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | ug/l | ug/l | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 4 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/10/2015 22:57 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/10/2015 22:57 | Caitlin M Carmody | 1 |

**Sample Description: MW-100D/8/4/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996599**
**LL Group # 1582839**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/04/2015 14:45 by KS

Submitted: 08/06/2015 22:25
Reported: 08/13/2015 12:25

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H100D SDG#: HOR48-03

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 7 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/10/2015 23:19 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/10/2015 23:19 | Caitlin M Carmody | 1 |

**Sample Description: CW-7D/8/4/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996600**
**LL Group # 1582839**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/04/2015 12:00 by KS

Submitted: 08/06/2015 22:25
Reported: 08/13/2015 12:25

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHC7D SDG#: HOR48-04

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 17 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/10/2015 23:40 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/10/2015 23:40 | Caitlin M Carmody | 1 |

**Sample Description: CW-7S/8/4/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996601**
**LL Group # 1582839**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/04/2015 13:40 by KS

Submitted: 08/06/2015 22:25
Reported: 08/13/2015 12:25

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHC7S SDG#: HOR48-05BKG

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 8 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/11/2015 00:01 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/11/2015 00:01 | Caitlin M Carmody | 1 |

**Sample Description: CW-7S/MS/8/4/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996602**
**LL Group # 1582839**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/04/2015 13:40 by KS

Submitted: 08/06/2015 22:25
Reported: 08/13/2015 12:25

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHC7S SDG#: HOR48-05MS

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 21 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 22 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 30 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 20 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/11/2015 00:22 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/11/2015 00:22 | Caitlin M Carmody | 1 |

**Sample Description: CW-7S/MSD/8/4/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996603**
**LL Group # 1582839**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/04/2015 13:40 by KS

Submitted: 08/06/2015 22:25
Reported: 08/13/2015 12:25

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HHC7S SDG#: HOR48-05MSD

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | ug/l | ug/l | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 22 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 22 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 31 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 19 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/11/2015 00:44 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/11/2015 00:44 | Caitlin M Carmody | 1 |

**Sample Description: MW-120/8/4/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996604**
**LL Group # 1582839**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/04/2015 13:40 by KS

Submitted: 08/06/2015 22:25
Reported: 08/13/2015 12:25

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH120 SDG#: HOR48-06

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | ug/l | ug/l | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 8 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/11/2015 01:05 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/11/2015 01:05 | Caitlin M Carmody | 1 |

**Sample Description: MW-105D/8/4/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996605**
**LL Group # 1582839**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/04/2015 16:05 by KS

Submitted: 08/06/2015 22:25
Reported: 08/13/2015 12:25

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H105D SDG#: HOR48-07

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 1 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 8 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/11/2015 01:26 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/11/2015 01:26 | Caitlin M Carmody | 1 |

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1582839
Reported: 08/13/2015 12:25

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: Y152222AA | Sample number(s): 7996597-7996605 | | | | | | | |
| cis-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 103 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 105 | | 80-120 | | |
| Trichloroethene | N.D. | 0.5 | ug/l | 103 | | 80-120 | | |
| Vinyl Chloride | N.D. | 0.5 | ug/l | 91 | | 69-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: Y152222AA | Sample number(s): 7996597-7996605 UNSPK: 7996601 | | | | | | | | |
| cis-1,2-Dichloroethene | 106 | 109 | 80-141 | 3 | 30 | | | | |
| trans-1,2-Dichloroethene | 110 | 111 | 86-131 | 1 | 30 | | | | |
| Trichloroethene | 109 | 113 | 88-133 | 3 | 30 | | | | |
| Vinyl Chloride | 101 | 96 | 66-133 | 5 | 30 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: Y152222AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 7996597 | 98 | 100 | 99 | 98 |
| 7996598 | 98 | 101 | 100 | 98 |
| 7996599 | 98 | 101 | 100 | 98 |
| 7996600 | 99 | 100 | 99 | 98 |
| 7996601 | 98 | 100 | 99 | 97 |
| 7996602 | 100 | 103 | 99 | 100 |
| 7996603 | 100 | 103 | 100 | 100 |
| 7996604 | 98 | 100 | 99 | 99 |
| 7996605 | 98 | 101 | 99 | 97 |
| Blank | 99 | 101 | 99 | 98 |
| LCS | 100 | 104 | 100 | 100 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1582839
Reported: 08/13/2015 12:25

## Surrogate Quality Control

| | | | | |
|---|---|---|---|---|
| MS | 100 | 103 | 99 | 100 |
| MSD | 100 | 103 | 100 | 100 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 For Eurofins Lancaster Laboratories Environmental use only Group # 1582839 Sample # 7996597-605

Instructions on reverse side correspond with circled numbers.

1 of 3 384590

## 1 Client Information

| | |
|---|---|
| Client: Woodard & Curran | Acct. #: |
| Project Name/#: CBS - Horseheads, NY | PWSID #: |
| Project Manager: Douglas Spicuzza | P.O. #: |
| Sampler: Kirby Steck | Quote #: |

Name of state where samples were collected: New York

## 4 Matrix

Sediment ☐ Soil ☐ | Ground ☒ Potable ☐ Water | Surface ☐ NPDES ☐ | Other: ☐

## 5 Analysis Requested

Preservation Codes

## 2 Sample Identification / 3 Collected / Grab / Composite / Total # of Containers

| Sample Identification | Date | Time | Grab | Composite | Total # of Containers | * Select VOCs (8260C) | 6 Remarks |
|---|---|---|---|---|---|---|---|
| MW-101I 8/4/15 | 8/4/15 | 1010 | X | | 3 | X | * TCE, cis,1,2 DCE, trans,1,2 DCE, Vinyl Chloride |
| MW-101S 8/4/15 | 8/4/15 | 1100 | X | | 3 | X | |
| MW-100D 8/4/15 | 8/4/15 | 1445 | X | | 3 | X | |
| CW-7D 8/4/15 | 8/4/15 | 1200 | X | | 3 | X | |
| CW-75/8/4/15 | 8/4/15 | 1340 | X | | 3 | X | |
| CW-75/MS/8/4/15 | 8/4/15 | 1340 | X | | 3 | X | Matrix Spike |
| CW-75/MSD/8/4/15 | 8/4/15 | 1340 | X | | 3 | X | Matrix Spike DUP |
| MW-120 8/4/15 | 8/4/15 | 1340 | X | | 3 | X | |
| MW-105D 8/4/15 | 8/4/15 | 1605 | X | | 3 | X | |

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

## 7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed:

E-mail address:

## 8 Data Package Options (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 8/4/15 | 1545 | D. Allen | 8/6/15 | 1545 |
| D. Allen | 8/6/15 | 2225 | | | |
| | | | | | |
| | | | | | |
| | | | | 8/6/15 | 7275 |
| | | | | 8/6/15 | ~~2245~~ |

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS FedEx Other

Temperature upon receipt 2.5 °C

eurofins | Lancaster Laboratories Environmental

# Sample Administration Receipt Documentation Log

Doc Log ID: 94437

Group Number(s): 1582839

Client: Woodard & Curran

## Delivery and Receipt Information

| | | | |
|---|---|---|---|
| Delivery Method: | ELLE Courier | Arrival Timestamp: | 08/06/2015 22:25 |
| Number of Packages: | 1 | Number of Projects: | 2 |
| State/Province of Origin: | NY | | |

## Arrival Condition Summary

| | | | |
|---|---|---|---|
| Shipping Container Sealed: | Yes | Sample IDs on COC match Containers: | Yes |
| Custody Seal Present: | Yes | Sample Date/Times match COC: | Yes |
| Custody Seal Intact: | Yes | VOA Vial Headspace ≥ 6mm: | No |
| Samples Chilled: | Yes | Total Trip Blank Qty: | 0 |
| Paperwork Enclosed: | Yes | Air Quality Samples Present: | No |
| Samples Intact: | Yes | | |
| Missing Samples: | No | | |
| Extra Samples: | No | | |
| Discrepancy in Container Qty on COC: | No | | |

*Unpacked by Jordan Woods (6698) at 01:46 on 08/07/2015*

## Samples Chilled Details

*Thermometer Types:* *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|---|---|---|---|---|---|---|---|
| 1 | DT146 | 2.5 | DT | Wet | Y | Bagged | N |



2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.co

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

| | |
|---|---|
| **<** | less than |
| **>** | greater than |
| **ppm** | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas. |
| **ppb** | parts per billion |
| **Dry weight basis** | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. |

*Laboratory Data Qualifiers:*

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

August 20, 2015

**Project: Horseheads, NY**

Submittal Date: 08/06/2015
Group Number: 1582840
SDG: HOR49
PO Number: ENV-OM-00137
Release Number: HORSEHEADS
State of Sample Origin: NY

| Client Sample Description | Lancaster Labs (LL) # |
|---|---|
| MW-7D/8/5/15 Grab Groundwater | 7996606 |
| MW-7S/8/5/15 Grab Groundwater | 7996607 |
| MW-113D/8/5/15 Grab Groundwater | 7996608 |
| CW-3D/8/5/15 Grab Groundwater | 7996609 |
| CW-3S/8/5/15 Grab Groundwater | 7996610 |
| MW-10S/8/5/15 Grab Groundwater | 7996611 |
| MW-10S/MS/8/5/15 Grab Groundwater | 7996612 |
| MW-10S/MSD/8/5/15 Grab Groundwater | 7996613 |
| DUP-1 Grab Groundwater | 7996614 |
| MW-9S/8/5/15 Grab Groundwater | 7996615 |
| MW-9D/8/5/15 Grab Groundwater | 7996616 |
| MW-8S/8/6/15 Grab Groundwater | 7996617 |
| MW-8D/8/6/15 Grab Groundwater | 7996618 |
| MW-16S/8/6/15 Grab Groundwater | 7996619 |
| MW-16D/8/6/15 Grab Groundwater | 7996620 |
| MW-15S/8/6/15 Grab Groundwater | 7996621 |
| MW-15D/8/6/15 Grab Groundwater | 7996622 |
| TB-1 Water | 7996623 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC Woodard & Curran Inc. Attn: Christine Kuzmkowski

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| COPY TO | | |

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

**Sample Description: MW-7D/8/5/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996606**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/05/2015 09:25 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH-7D SDG#: HOR49-01

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 0.8 | J | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/11/2015 01:48 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/11/2015 01:48 | Caitlin M Carmody | 1 |

**Sample Description: MW-7S/8/5/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996607**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/05/2015 10:10 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH-7S SDG#: HOR49-02

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.7 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/11/2015 02:09 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/11/2015 02:09 | Caitlin M Carmody | 1 |

**Sample Description: MW-113D/8/5/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996608**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/05/2015 11:30 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

H113D SDG#: HOR49-03

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.8 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 21 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/11/2015 02:30 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/11/2015 02:30 | Caitlin M Carmody | 1 |

**Sample Description: CW-3D/8/5/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996609**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/05/2015 12:35 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH-3D SDG#: HOR49-04

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 10 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/11/2015 02:51 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/11/2015 02:51 | Caitlin M Carmody | 1 |

**Sample Description: CW-3S/8/5/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996610**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/05/2015 13:25 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH-3S SDG#: HOR49-05

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 7 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/11/2015 03:13 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/11/2015 03:13 | Caitlin M Carmody | 1 |

**Sample Description: MW-10S/8/5/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996611**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/05/2015 14:50 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH10S SDG#: HOR49-06BKG

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 1 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 17 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152301AA | 08/18/2015 02:38 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152301AA | 08/18/2015 02:38 | Stephanie A Selis | 1 |

**Sample Description: MW-10S/MS/8/5/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996612**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/05/2015 14:50 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

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20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH10S SDG#: HOR49-06MS

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 22 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 20 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 21 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 39 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 18 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152301AA | 08/18/2015 02:59 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152301AA | 08/18/2015 02:59 | Stephanie A Selis | 1 |

**Sample Description: MW-10S/MSD/8/5/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996613**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/05/2015 14:50 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH10S SDG#: HOR49-06MSD

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 22 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 19 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 21 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 39 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 18 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152301AA | 08/18/2015 03:21 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152301AA | 08/18/2015 03:21 | Stephanie A Selis | 1 |

**Sample Description: DUP-1 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996614**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/05/2015 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH-FD SDG#: HOR49-07FD

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 1 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 19 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/11/2015 03:34 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/11/2015 03:34 | Caitlin M Carmody | 1 |

**Sample Description: MW-9S/8/5/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996615**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/05/2015 16:20 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH-9S SDG#: HOR49-08

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 7 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152222AA | 08/11/2015 03:55 | Caitlin M Carmody | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152222AA | 08/11/2015 03:55 | Caitlin M Carmody | 1 |

**Sample Description: MW-9D/8/5/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996616**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/05/2015 17:20 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH-9D SDG#: HOR49-09

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.6 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 15 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152301AA | 08/18/2015 03:42 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152301AA | 08/18/2015 03:42 | Stephanie A Selis | 1 |

**Sample Description: MW-8S/8/6/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996617**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/06/2015 08:55 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH-8S SDG#: HOR49-10

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 2 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152301AA | 08/18/2015 04:03 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152301AA | 08/18/2015 04:03 | Stephanie A Selis | 1 |

**Sample Description: MW-8D/8/6/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996618**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/06/2015 11:00 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH-8D SDG#: HOR49-11

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.7 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 9 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152301AA | 08/18/2015 04:24 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152301AA | 08/18/2015 04:24 | Stephanie A Selis | 1 |

**Sample Description: MW-16S/8/6/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996619**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/06/2015 12:30 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH16S SDG#: HOR49-12

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 4 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152301AA | 08/18/2015 04:45 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152301AA | 08/18/2015 04:45 | Stephanie A Selis | 1 |

**Sample Description: MW-16D/8/6/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996620**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/06/2015 13:40 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH16D SDG#: HOR49-13

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152301AA | 08/18/2015 05:06 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152301AA | 08/18/2015 05:06 | Stephanie A Selis | 1 |

**Sample Description: MW-15S/8/6/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996621**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/06/2015 14:30 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH15S SDG#: HOR49-14

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152301AA | 08/18/2015 05:27 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152301AA | 08/18/2015 05:27 | Stephanie A Selis | 1 |

**Sample Description: MW-15D/8/6/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 7996622**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/06/2015 15:15 by KS

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH15D SDG#: HOR49-15

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152301AA | 08/18/2015 05:48 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152301AA | 08/18/2015 05:48 | Stephanie A Selis | 1 |

**Sample Description: TB-1 Water**
**Horseheads, NY**

**LL Sample # WW 7996623**
**LL Group # 1582840**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 08/06/2015

Submitted: 08/06/2015 22:25
Reported: 08/20/2015 14:03

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HH-TB SDG#: HOR49-16TB

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | N.D. | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y152301AA | 08/18/2015 06:10 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y152301AA | 08/18/2015 06:10 | Stephanie A Selis | 1 |

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1582840
Reported: 08/20/2015 14:03

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: Y152222AA | Sample number(s): 7996606-7996610,7996614-7996615 | | | | | | | |
| cis-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 103 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 105 | | 80-120 | | |
| 1,1,1-Trichloroethane | N.D. | 0.5 | ug/l | 97 | | 66-126 | | |
| Trichloroethene | N.D. | 0.5 | ug/l | 103 | | 80-120 | | |
| Vinyl Chloride | N.D. | 0.5 | ug/l | 91 | | 69-120 | | |
| Batch number: Y152301AA | Sample number(s): 7996611-7996613,7996616-7996623 | | | | | | | |
| cis-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 98 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 91 | | 80-120 | | |
| 1,1,1-Trichloroethane | N.D. | 0.5 | ug/l | 85 | | 66-126 | | |
| Trichloroethene | N.D. | 0.5 | ug/l | 97 | | 80-120 | | |
| Vinyl Chloride | N.D. | 0.5 | ug/l | 82 | | 69-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: Y152222AA | Sample number(s): 7996606-7996610,7996614-7996615 UNSPK: P996601 | | | | | | | | |
| cis-1,2-Dichloroethene | 106 | 109 | 80-141 | 3 | 30 | | | | |
| trans-1,2-Dichloroethene | 110 | 111 | 86-131 | 1 | 30 | | | | |
| 1,1,1-Trichloroethane | 103 | 105 | 69-140 | 2 | 30 | | | | |
| Trichloroethene | 109 | 113 | 88-133 | 3 | 30 | | | | |
| Vinyl Chloride | 101 | 96 | 66-133 | 5 | 30 | | | | |
| Batch number: Y152301AA | Sample number(s): 7996611-7996613,7996616-7996623 UNSPK: 7996611 | | | | | | | | |
| cis-1,2-Dichloroethene | 105 | 104 | 80-120 | 1 | 30 | | | | |
| trans-1,2-Dichloroethene | 98 | 97 | 80-120 | 2 | 30 | | | | |
| 1,1,1-Trichloroethane | 95 | 96 | 66-126 | 0 | 30 | | | | |
| Trichloroethene | 107 | 106 | 80-120 | 0 | 30 | | | | |
| Vinyl Chloride | 92 | 92 | 69-120 | 1 | 30 | | | | |

## Surrogate Quality Control

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1582840
Reported: 08/20/2015 14:03

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: Y152222AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 7996606 | 99 | 101 | 99 | 98 |
| 7996607 | 98 | 101 | 99 | 98 |
| 7996608 | 99 | 101 | 99 | 99 |
| 7996609 | 99 | 101 | 99 | 97 |
| 7996610 | 99 | 101 | 99 | 98 |
| 7996614 | 98 | 102 | 100 | 98 |
| 7996615 | 99 | 102 | 99 | 98 |
| Blank | 99 | 101 | 99 | 98 |
| LCS | 100 | 104 | 100 | 100 |
| MS | 100 | 103 | 99 | 100 |
| MSD | 100 | 103 | 100 | 100 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: Y152301AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 7996611 | 98 | 99 | 99 | 97 |
| 7996612 | 98 | 102 | 99 | 98 |
| 7996613 | 98 | 103 | 99 | 98 |
| 7996616 | 97 | 101 | 99 | 97 |
| 7996617 | 97 | 100 | 100 | 98 |
| 7996618 | 97 | 100 | 99 | 97 |
| 7996619 | 97 | 101 | 99 | 97 |
| 7996620 | 97 | 100 | 99 | 97 |
| 7996621 | 97 | 101 | 99 | 97 |
| 7996622 | 97 | 101 | 99 | 96 |
| 7996623 | 98 | 101 | 99 | 96 |
| Blank | 97 | 102 | 99 | 97 |
| LCS | 98 | 103 | 99 | 97 |
| MS | 98 | 102 | 99 | 98 |
| MSD | 98 | 103 | 99 | 98 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 For Eurofins Lancaster Laboratories Environmental use only Group # 1582840 Sample # 1996606-23
Instructions on reverse side correspond with circled numbers.

384591

2 of 3

## 1 Client Information

| | |
|---|---|
| Client: Woodard & Curran | Acct. #: |
| Project Name/#: CBS - Horseheads, NY | PWSID #: |
| Project Manager: Douglas Spicuzza | P.O. #: |
| Sampler: Kirby Steck | Quote #: |

Name of state where samples were collected: New York

## 4 Matrix

Soil ☐ Sediment ☐ Water ☒ Ground ☒ Potable ☐ Surface ☐ NPDES ☐ Other: ____

## 5 Analysis Requested

Preservation Codes

*Select Ions (8260)

## For Lab Use Only

FSC: ____

SCR#: ____

**Preservation Codes**

H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

## 6 Remarks

*= TCE
cis, 1,2, DCE
trans, 1,2, DCE
1,1,1-TCA
Vinyl Chloride

| 2 Sample Identification | Collected Date | Collected Time | 3 Grab | Composite | Total # of Containers | Remarks |
|---|---|---|---|---|---|---|
| MW-70 8/5/15 | 8/5/15 | 0925 | X | | 3 | |
| MW-75 8/5/15 | 8/5/15 | 1010 | X | | 3 | |
| MW-113D 8/5/15 | 8/5/15 | 1130 | X | | 3 | |
| CW-3D 8/5/15 | 8/5/15 | 1235 | X | | 3 | |
| CW-3S 8/5/15 | 8/5/15 | 1325 | X | | 3 | |
| MW-105 8/5/15 | 8/5/15 | 1450 | X | | 3 | |
| MW-105/MS/8/5/15 | 8/5/15 | 1450 | X | | 3 | Matrix Spike |
| MW-105/MSD/8/5/15 | 8/5/15 | 1450 | X | | 3 | Matrix Spike Dup |
| DUP-1 | 8/5/15 | — | X | | 3 | Duplicate 1 |
| MW-95 8/5/15 | 8/5/15 | 1620 | X | | 3 | |

## 7 Turnaround Time (TAT) Requested (please circle)

(Standard) Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: ____

## 8 Data Package Options (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP)
Type VI (Raw Data Only)
Type III (Reduced non-CLP)
TX TRRP-13
NYSDEC Category A or B
MA MCP
CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 8/6/15 | 1545 | D. Allen | 8/6/15 | 1545 |
| D. Allen | 8/6/15 | 2225 | | | |
| | | | | | |
| | | | | | |
| | | | Received by | 8/6/15 | 2225 |

## 9

EDD Required? Yes No
If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 2.5 °C

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 For Eurofins Lancaster Laboratories Environmental use only Group # 1582840 Sample # 7996606-23

Instructions on reverse side correspond with circled numbers.

384592

3 of 3

## 1 Client Information

| | |
|---|---|
| Client: Woodard & Curran | Acct. #: |
| Project Name/#: CBS - Horseheads, NY | PWSID #: |
| Project Manager: Douglas Spicuzza | P.O. #: |
| Sampler: Kirby Steck | Quote #: |

Name of state where samples were collected: New York

## 4 Matrix

Soil ☐ Sediment ☐ Water ☒ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Other: ____

## 5 Analysis Requested

Preservation Codes

For Lab Use Only

FSC: ____

SCR#: ____

**Preservation Codes**

H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

| 2 Sample Identification | Collected Date | Collected Time | 3 Grab | 3 Composite | Total # of Containers | * Select VOCs (8260) | 6 Remarks |
|---|---|---|---|---|---|---|---|
| MW-9D | 8/5/15 | 1720 | X | | 3 | X | * TCE, cis,1,2 DCE, trans,1,2 DCE, 1,1,1-TCA, Vinyl Chloride |
| MW-8S | 8/6/15 | 0855 | X | | 3 | X | |
| MW-8D | 8/6/15 | 1100 | X | | 3 | X | |
| MW-16S | 8/6/15 | 1230 | X | | 3 | X | |
| MW-16D | 8/6/15 | 1340 | X | | 3 | X | |
| MW-15S | 8/6/15 | 1430 | X | | 3 | X | |
| MW-15D | 8/6/15 | 1515 | X | | 3 | X | |
| ~~Trip Blank~~ TB-1 | 8/6/15 | — | X | | 2 | X | Trip Blank |
| kms 8/6/15 1540 | | | | | | | |

## 7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: ____

## 8 Data Package Options (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time 9 |
|---|---|---|---|---|---|
| | 8/6/15 | 1545 | D. Allen | 8/6/15 | 1545 |
| D. Allen | 8/6/15 | 2225 | | | |
| | | | | | |
| | | | | | |
| | | | | | |

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 2.5 °C

eurofins | Lancaster Laboratories Environmental

# Sample Administration Receipt Documentation Log

Doc Log ID: 94437

Group Number(s): 1582840

Client: Woodard & Curran

## Delivery and Receipt Information

| | | | |
|---|---|---|---|
| Delivery Method: | ELLE Courier | Arrival Timestamp: | 08/06/2015 22:25 |
| Number of Packages: | 1 | Number of Projects: | 2 |
| State/Province of Origin: | NY | | |

## Arrival Condition Summary

| | | | |
|---|---|---|---|
| Shipping Container Sealed: | Yes | Sample IDs on COC match Containers: | Yes |
| Custody Seal Present: | Yes | Sample Date/Times match COC: | Yes |
| Custody Seal Intact: | Yes | VOA Vial Headspace ≥ 6mm: | No |
| Samples Chilled: | Yes | Total Trip Blank Qty: | 2 |
| Paperwork Enclosed: | Yes | Trip Blank Type: | HCl |
| Samples Intact: | Yes | Air Quality Samples Present: | No |
| Missing Samples: | No | | |
| Extra Samples: | No | | |
| Discrepancy in Container Qty on COC: | No | | |

*Unpacked by Jordan Woods (6698) at 01:53 on 08/07/2015*

## Samples Chilled Details

*Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.*

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|---|---|---|---|---|---|---|---|
| 1 | DT146 | 2.5 | DT | Wet | Y | Bagged | N |



2425 New Holland Pike
Lancaster, PA 17605-2425
T : 717-656-2300
F : 717-656-2681
www.LancasterLabs.com

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

| | |
|---|---|
| **<** | less than |
| **>** | greater than |
| **ppm** | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas. |
| **ppb** | parts per billion |
| **Dry weight basis** | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. |

*Laboratory Data Qualifiers:*

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

December 16, 2015

**Project: Horseheads, NY**

Submittal Date: 11/19/2015
Group Number: 1610941
SDG: HOR50
PO Number: ENV-OM-00137
Release Number: HORSEHEADS
State of Sample Origin: NY

| Client Sample Description | Lancaster Labs (LL) # |
|---|---|
| CW-3D/11/16/15 Grab Groundwater | 8142949 |
| CW-3S/11/16/15 Grab Groundwater | 8142950 |
| MW-113D/11/16/15 Grab Groundwater | 8142951 |
| MW-10S/11/16/15 Grab Groundwater | 8142952 |
| MW-9D/11/17/15 Grab Groundwater | 8142953 |
| MW-9S/11/17/15 Grab Groundwater | 8142954 |
| MW-8S/11/17/15 Grab Groundwater | 8142955 |
| MW-8S/MS/11/17/15 Grab Groundwater | 8142956 |
| MW-8S/MSD/11/17/15 Grab Groundwater | 8142957 |
| MW-8D/11/17/15 Grab Groundwater | 8142958 |
| DUP-1 Grab Groundwater | 8142959 |
| MW-7S/11/17/15 Grab Groundwater | 8142960 |
| MW-7D/11/17/15 Grab Groundwater | 8142961 |
| MW-16S/11/19/15 Grab Groundwater | 8142962 |
| MW-16D/11/19/15 Grab Groundwater | 8142963 |
| MW-15S/11/19/15 Grab Groundwater | 8142964 |
| MW-15D/11/19/15 Grab Groundwater | 8142965 |
| TB-1 Water | 8142966 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC Woodard & Curran Inc. Attn: Jeff Pytlak

REVISED

| | | |
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Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

REVISED

**Sample Description: CW-3D/11/16/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142949**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/16/2015 11:20 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HOR3D SDG#: HOR50-01

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 10 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153331AA | 11/29/2015 21:05 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153331AA | 11/29/2015 21:05 | Angela D Sneeringer | 1 |

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**Sample Description: CW-3S/11/16/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142950**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/16/2015 12:15 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HOR3S SDG#: HOR50-02

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 9 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153331AA | 11/29/2015 21:26 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153331AA | 11/29/2015 21:26 | Angela D Sneeringer | 1 |

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**Sample Description: MW-113D/11/16/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142951**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/16/2015 14:30 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HO113 SDG#: HOR50-03

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.7 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 20 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153331AA | 11/29/2015 21:47 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153331AA | 11/29/2015 21:47 | Angela D Sneeringer | 1 |

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**Sample Description: MW-10S/11/16/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142952**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/16/2015 15:35 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HOR10 SDG#: HOR50-04

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 8 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 54 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153331AA | 11/29/2015 22:08 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153331AA | 11/29/2015 22:08 | Angela D Sneeringer | 1 |

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**Sample Description: MW-9D/11/17/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142953**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/17/2015 11:40 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HOR9D SDG#: HOR50-05

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.9 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 17 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153351AA | 12/01/2015 02:57 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153351AA | 12/01/2015 02:57 | Stephanie A Selis | 1 |

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**Sample Description: MW-9S/11/17/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142954**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/17/2015 10:00 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HOR9S SDG#: HOR50-06

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 5 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153351AA | 12/01/2015 03:18 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153351AA | 12/01/2015 03:18 | Stephanie A Selis | 1 |

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**Sample Description: MW-8S/11/17/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142955**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/17/2015 12:55 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HOR8S SDG#: HOR50-07BKG

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153351AA | 12/01/2015 03:39 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153351AA | 12/01/2015 03:39 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-8S/MS/11/17/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142956**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/17/2015 12:55 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HOR8S SDG#: HOR50-07MS

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 22 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 22 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 22 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 26 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 19 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153351AA | 12/01/2015 04:44 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153351AA | 12/01/2015 04:44 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-8S/MSD/11/17/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142957**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/17/2015 12:55 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HOR8S SDG#: HOR50-07MSD

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 22 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 22 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 22 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 26 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 19 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153351AA | 12/01/2015 05:05 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153351AA | 12/01/2015 05:05 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-8D/11/17/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142958**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/17/2015 14:00 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HOR8D SDG#: HOR50-08

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.6 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 10 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153351AA | 12/01/2015 05:26 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153351AA | 12/01/2015 05:26 | Stephanie A Selis | 1 |

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**Sample Description: DUP-1 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142959**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: n.a.

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HORFD SDG#: HOR50-09FD

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.6 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 10 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153362AA | 12/02/2015 18:57 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153362AA | 12/02/2015 18:57 | Angela D Sneeringer | 1 |

REVISED

**Sample Description: MW-7S/11/17/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142960**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/17/2015 15:05 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HOR7S SDG#: HOR50-10

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.6 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153351AA | 12/01/2015 05:48 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153351AA | 12/01/2015 05:48 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-7D/11/17/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142961**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/17/2015 15:55 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HOR7D SDG#: HOR50-11

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 0.8 | J | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153351AA | 12/01/2015 06:08 | Stephanie A Selis | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153351AA | 12/01/2015 06:08 | Stephanie A Selis | 1 |

REVISED

**Sample Description: MW-16S/11/19/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142962**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/19/2015 11:05 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HO16S SDG#: HOR50-12

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 4 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153362AA | 12/02/2015 19:18 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153362AA | 12/02/2015 19:18 | Angela D Sneeringer | 1 |

REVISED

**Sample Description: MW-16D/11/19/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142963**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/19/2015 12:15 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HO16D SDG#: HOR50-13

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153362AA | 12/02/2015 19:39 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153362AA | 12/02/2015 19:39 | Angela D Sneeringer | 1 |

REVISED

**Sample Description: MW-15S/11/19/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142964**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/19/2015 13:40 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HO15S SDG#: HOR50-14

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153362AA | 12/02/2015 20:00 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153362AA | 12/02/2015 20:00 | Angela D Sneeringer | 1 |

REVISED

**Sample Description: MW-15D/11/19/15 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8142965**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/19/2015 14:45 by KS

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HO15D SDG#: HOR50-15

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | N.D. | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153362AA | 12/02/2015 20:21 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153362AA | 12/02/2015 20:21 | Angela D Sneeringer | 1 |

REVISED

**Sample Description: TB-1 Water**
**Horseheads, NY**

**LL Sample # WW 8142966**
**LL Group # 1610941**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 11/16/2015

Submitted: 11/19/2015 22:18
Reported: 12/16/2015 11:06

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HORTB SDG#: HOR50-16TB

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | N.D. | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y153331AA | 11/29/2015 20:44 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y153331AA | 11/29/2015 20:44 | Angela D Sneeringer | 1 |

REVISED

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1610941
Reported: 12/16/2015 11:06

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: Y153331AA | Sample number(s): 8142949-8142952,8142966 | | | | | | | |
| cis-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 106 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 105 | | 80-120 | | |
| 1,1,1-Trichloroethane | N.D. | 0.5 | ug/l | 99 | | 66-126 | | |
| Trichloroethene | N.D. | 0.5 | ug/l | 109 | | 80-120 | | |
| Vinyl Chloride | N.D. | 0.5 | ug/l | 94 | | 69-120 | | |
| Batch number: Y153351AA | Sample number(s): 8142953-8142958,8142960-8142961 | | | | | | | |
| cis-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 106 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 102 | | 80-120 | | |
| 1,1,1-Trichloroethane | N.D. | 0.5 | ug/l | 95 | | 66-126 | | |
| Trichloroethene | N.D. | 0.5 | ug/l | 111 | | 80-120 | | |
| Vinyl Chloride | N.D. | 0.5 | ug/l | 86 | | 69-120 | | |
| Batch number: Y153362AA | Sample number(s): 8142959,8142962-8142965 | | | | | | | |
| cis-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 105 | | 80-120 | | |
| trans-1,2-Dichloroethene | N.D. | 0.5 | ug/l | 100 | | 80-120 | | |
| 1,1,1-Trichloroethane | N.D. | 0.5 | ug/l | 89 | | 66-126 | | |
| Trichloroethene | N.D. | 0.5 | ug/l | 105 | | 80-120 | | |
| Vinyl Chloride | N.D. | 0.5 | ug/l | 92 | | 69-120 | | |

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: Y153331AA | Sample number(s): 8142949-8142952,8142966 UNSPK: P142447 | | | | | | | | |
| cis-1,2-Dichloroethene | 112 | 113 | 80-120 | 1 | 30 | | | | |
| trans-1,2-Dichloroethene | 109 | 111 | 80-120 | 2 | 30 | | | | |
| 1,1,1-Trichloroethane | 106 | 107 | 66-126 | 1 | 30 | | | | |
| Trichloroethene | 116 | 116 | 80-120 | 0 | 30 | | | | |
| Vinyl Chloride | 99 | 101 | 69-120 | 2 | 30 | | | | |
| Batch number: Y153351AA | Sample number(s): 8142953-8142958,8142960-8142961 UNSPK: 8142955 | | | | | | | | |
| cis-1,2-Dichloroethene | 112 | 111 | 80-120 | 1 | 30 | | | | |
| trans-1,2-Dichloroethene | 111 | 108 | 80-120 | 2 | 30 | | | | |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

REVISED

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1610941
Reported: 12/16/2015 11:06

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 105 | 102 | 66-126 | 3 | 30 | | | | |
| Trichloroethene | 118 | 115 | 80-120 | 2 | 30 | | | | |
| Vinyl Chloride | 94 | 95 | 69-120 | 1 | 30 | | | | |
| Batch number: Y153362AA | Sample number(s): 8142959,8142962-8142965 UNSPK: P142870 | | | | | | | | |
| cis-1,2-Dichloroethene | 109 | 110 | 80-120 | 2 | 30 | | | | |
| trans-1,2-Dichloroethene | 106 | 109 | 80-120 | 3 | 30 | | | | |
| 1,1,1-Trichloroethane | 96 | 96 | 66-126 | 0 | 30 | | | | |
| Trichloroethene | 113 | 116 | 80-120 | 2 | 30 | | | | |
| Vinyl Chloride | 89 | 96 | 69-120 | 7 | 30 | | | | |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: Y153331AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 8142949 | 99 | 101 | 99 | 97 |
| 8142950 | 99 | 102 | 99 | 98 |
| 8142951 | 99 | 100 | 99 | 98 |
| 8142952 | 99 | 102 | 99 | 98 |
| 8142966 | 99 | 101 | 99 | 97 |
| Blank | 99 | 101 | 99 | 98 |
| LCS | 100 | 103 | 99 | 99 |
| MS | 101 | 103 | 99 | 100 |
| MSD | 101 | 103 | 99 | 100 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: Y153351AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 8142953 | 99 | 101 | 99 | 98 |
| 8142954 | 100 | 102 | 99 | 97 |
| 8142955 | 100 | 101 | 98 | 97 |
| 8142956 | 100 | 104 | 99 | 100 |
| 8142957 | 101 | 103 | 99 | 100 |
| 8142958 | 98 | 100 | 99 | 97 |
| 8142960 | 99 | 100 | 98 | 96 |
| 8142961 | 99 | 100 | 99 | 97 |
| Blank | 99 | 101 | 98 | 97 |
| LCS | 100 | 103 | 99 | 100 |
| MS | 100 | 104 | 99 | 100 |
| MSD | 101 | 103 | 99 | 100 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

REVISED

# Quality Control Summary

Client Name: CBS Corporation Group Number: 1610941
Reported: 12/16/2015 11:06

## Surrogate Quality Control

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: Y153362AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 8142959 | 98 | 101 | 99 | 97 |
| 8142962 | 98 | 100 | 99 | 97 |
| 8142963 | 98 | 101 | 99 | 97 |
| 8142964 | 99 | 102 | 99 | 97 |
| 8142965 | 98 | 101 | 99 | 97 |
| Blank | 98 | 101 | 99 | 98 |
| LCS | 99 | 102 | 99 | 99 |
| MS | 99 | 99 | 99 | 100 |
| MSD | 99 | 99 | 99 | 99 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 9314 Group # 161041 Sample # 8142949-66

**COC # 392218**

## Client Information

Client: Woodard + Curran

Acct. #:

Project Name/#: CBS. Horseheads, NY

PWSID #:

Project Manager: Douglas Spicuzza

P.O. #:

Sampler: Kirby Steele

Quote #:

State where samples were collected: New York

For Compliance: Yes ☐ No ☐

## Matrix

Sediment ☐ Soil ☐ | Ground ☒ Potable ☐ Water | Surface ☐ NPDES ☐ | Other: ___

## Analysis Requested

Preservation Codes

*Select VOCs (8260)

| Sample Identification | Collected Date | Collected Time | Grab | Composite | Total # of Containers |
|---|---|---|---|---|---|
| CW-3D/11/16/15 | 11/16/15 | 1120 | X | | 3 |
| CW-3S/11/16/15 | 11/16/15 | 1215 | X | | 3 |
| MW-113D/11/16/15 | 11/16/15 | 1430 | X | | 3 |
| MW-10S/11/16/15 | 11/16/15 | 1535 | X | | 3 |
| MW-9D/11/17/15 | 11/17/15 | 1140 | X | | 3 |
| MW-9S/11/17/15 | 11/17/15 | 1000 | X | | 3 |
| MW-8S/11/17/15 | 11/17/15 | 1255 | X | | 3 |
| MW-8S/MS/11/17/15 | 11/17/15 | 1255 | X | | 3 |
| MW-8S/MSD/11/17/15 | 11/17/15 | 1255 | X | | 3 |

For Lab Use Only

FSC:

SCR#: 180101

**Preservation Codes**

H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

**Remarks**

*= TCE
cis 1,2 DCE
trans 1,2 DCE
Vinyl Chloride

**Turnaround Time (TAT) Requested** (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

**Data Package Options** (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| [signature] | 11-4-15 | 0940 | [signature] | 11-9-15 | 0800 |
| [signature] | 11/19/15 | 1535 | D. Allen | 11/19/15 | 1535 |
| D. Allen | 11/19/15 | 2218 | | | |
| | | | | | |
| | | | [signature] | 11/19/15 | 2218 |

EDD Required? Yes No

If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature upon receipt 2.6 °C

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 9314 Group # 1610941 Sample # 81429149-66

**COC # 392219**

## Client Information

Client: Woodard & Curran
Acct. #:
Project Name/#: CBS - Horseheads, NY
PWSID #:
Project Manager: Douglas Spizzuoco
P.O. #:
Sampler: Kirby Steele
Quote #:
State where samples were collected: New York
For Compliance: Yes ☐ No ☐

## Matrix

Sediment ☐ Soil ☐ | Ground ☒ Potable ☐ Water | Surface ☐ NPDES ☐ | Other: ☐

## Analysis Requested

Preservation Codes

| Sample Identification | Collected Date | Collected Time | Grab | Composite | Total # of Containers | * Select VOCs (8260) | Remarks |
|---|---|---|---|---|---|---|---|
| MW-8D/11/17/15 | 11/17/15 | 1400 | X | | 3 | X | |
| DUP-1 | — | — | X | | 3 | X | |
| MW-7S/11/17/15 | 11/17/15 | 1505 | X | | 3 | X | |
| MW-7D/11/17/15 | 11/17/15 | 1555 | X | | 3 | X | |
| MW-16S/11/19/15 | 11/19/15 | 1105 | X | | 3 | X | |
| MW-16D/11/19/15 | 11/19/15 | 1215 | X | | 3 | X | |
| MW-15S/11/19/15 | 11/19/15 | 1340 | X | | 3 | X | |
| MW-15D/11/19/15 | 11/19/15 | 1445 | X | | 3 | X | |
| TB-1 | — | — | | | 2 | | Trip Blank |

*=TCE
CIS 1,2 DCE
trans, 1, 2 DCE
Vinyl Chloride

**For Lab Use Only**
FSC:
SCR#:

**Preservation Codes**
H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

**Remarks**

**Turnaround Time (TAT) Requested** (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed:

E-mail address:

**Data Package Options** (circle if required)
Type I (EPA Level 3 Equivalent/non-CLP)
Type VI (Raw Data Only)
Type III (Reduced non-CLP)
TX TRRP-13
NYSDEC Category A or B
MA MCP
CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 11/19/15 | 1535 | D. Allen | 11/19/15 | 1535 |
| D. Allen | 11/19/15 | 2218 | | | |
| | | | | | |
| | | | | | |
| | | | | 4/19/15 | 2218 |

EDD Required? Yes No
If yes, format:
Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS FedEx Other
Temperature upon receipt 2.6 °C

1610941

**Katherine Klinefelter**

**From:** Mike Lambert <mlambert@woodardcurran.com>
**Sent:** Monday, December 14, 2015 10:53 AM
**To:** Katherine Klinefelter
**Subject:** CBS-Horseheads, NY

Hi Kathy,

Due to an oversight on our part, we recently omitted 1,1,1-TCA from the Chain of Custody for sample group 1610941. Could you please go ahead and run this analysis for that sample group and report it.

Thanks,
Mike

Michael Lambert, CES, CGWS
Field Supervisor
Woodard & Curran
***~formerly Cummings/Riter Consultants, Inc.~***
412/241-4500 (office)
412/241-7500 (fax)
412/508-0128 (mobile)

eurofins | Lancaster Laboratories Environmental

# Sample Administration Receipt Documentation Log

Doc Log ID: 126132

Group Number(s): 1610941

Client: Woodard & Curran

## Delivery and Receipt Information

| | | | |
|---|---|---|---|
| Delivery Method: | ELLE Courier | Arrival Timestamp: | 11/19/2015 22:18 |
| Number of Packages: | 1 | Number of Projects: | 1 |
| State/Province of Origin: | NY | | |

## Arrival Condition Summary

| | | | |
|---|---|---|---|
| Shipping Container Sealed: | Yes | Sample IDs on COC match Containers: | Yes |
| Custody Seal Present: | Yes | Sample Date/Times match COC: | Yes |
| Custody Seal Intact: | Yes | VOA Vial Headspace ≥ 6mm: | No |
| Samples Chilled: | Yes | Total Trip Blank Qty: | 2 |
| Paperwork Enclosed: | Yes | Trip Blank Type: | HCl |
| Samples Intact: | Yes | Air Quality Samples Present: | No |
| Missing Samples: | No | | |
| Extra Samples: | No | | |
| Discrepancy in Container Qty on COC: | No | | |

*Unpacked by Jordan Woods (6698) at 22:50 on 11/19/2015*

## Samples Chilled Details

*Thermometer Types:* *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|---|---|---|---|---|---|---|---|
| 1 | DT146 | 2.6 | DT | Wet | Y | Bagged | N |



2425 New Holland Pike
Lancaster, PA 17605-2425
T : 717-656-2300
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eurofins | Lancaster Laboratories Environmental

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

| | |
|---|---|
| **<** | less than |
| **>** | greater than |
| **ppm** | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas. |
| **ppb** | parts per billion |
| **Dry weight basis** | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. |

*Laboratory Data Qualifiers:*

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

March 04, 2016

**Project: Horseheads, NY**

Submittal Date: 02/26/2016
Group Number: 1635287
SDG: HOR51
PO Number: ENV-OM-00137
Release Number: HORSEHEADS
State of Sample Origin: NY

| Client Sample Description | Lancaster Labs (LL) # |
|---|---|
| MW-113D/2/23/16 Grab Groundwater | 8260835 |
| CW-3S/2/23/16 Grab Groundwater | 8260836 |
| CW-3S/MS/2/23/16 Grab Groundwater | 8260837 |
| CW-3S/MSD/2/23/16 Grab Groundwater | 8260838 |
| DUP-1 Grab Groundwater | 8260839 |
| CW-3D/2/23/16 Grab Groundwater | 8260840 |
| MW-10S/2/23/16 Grab Groundwater | 8260841 |
| MW-16S/2/23/16 Grab Groundwater | 8260842 |
| MW-7D/2/23/16 Grab Groundwater | 8260843 |
| MW-7S/2/23/16 Grab Groundwater | 8260844 |
| MW-9S/2/24/16 Grab Groundwater | 8260845 |
| MW-9D/2/24/16 Grab Groundwater | 8260846 |
| MW-8S/2/24/16 Grab Groundwater | 8260847 |
| MW-8D/2/24/16 Grab Groundwater | 8260848 |
| MW-16D/2/24/16 Grab Groundwater | 8260849 |
| MW-15S/2/24/16 Grab Groundwater | 8260850 |
| MW-15D/2/25/16 Grab Groundwater | 8260851 |
| TB-1 Water | 8260852 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC Woodard & Curran Inc. Attn: Jeff Pytlak

| | | |
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Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

**Sample Description: MW-113D/2/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260835**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/23/2016 09:35 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H01 SDG#: HOR51-01

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.6 J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 18 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 12:25 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 12:25 | Angela D Sneeringer | 1 |

**Sample Description: CW-3S/2/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260836**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/23/2016 10:40 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H02 SDG#: HOR51-02BKG

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 8 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 12:47 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 12:47 | Angela D Sneeringer | 1 |

**Sample Description: CW-3S/MS/2/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260837**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/23/2016 10:40 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H02 SDG#: HOR51-02MS

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 21 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 21 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 19 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 29 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 20 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 13:10 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 13:10 | Angela D Sneeringer | 1 |

**Sample Description: CW-3S/MSD/2/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260838**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/23/2016 10:40 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

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20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H02 SDG#: HOR51-02MSD

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 21 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 21 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 19 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 29 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 20 | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 13:32 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 13:32 | Angela D Sneeringer | 1 |

**Sample Description: DUP-1 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260839**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/23/2016 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H03 SDG#: HOR51-03FD

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 8 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 13:55 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 13:55 | Angela D Sneeringer | 1 |

**Sample Description: CW-3D/2/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260840**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/23/2016 11:55 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H04 SDG#: HOR51-04

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 10 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 14:17 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 14:17 | Angela D Sneeringer | 1 |

**Sample Description: MW-10S/2/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260841**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/23/2016 13:20 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H05 SDG#: HOR51-05

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.8 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 12 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 14:40 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 14:40 | Angela D Sneeringer | 1 |

**Sample Description: MW-16S/2/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260842**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/23/2016 14:30 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H06 SDG#: HOR51-06

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 15:02 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 15:02 | Angela D Sneeringer | 1 |

**Sample Description: MW-7D/2/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260843**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/23/2016 15:40 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H07 SDG#: HOR51-07

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.9 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 0.7 | J | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 15:24 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 15:24 | Angela D Sneeringer | 1 |

**Sample Description: MW-7S/2/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260844**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/23/2016 16:20 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H08 SDG#: HOR51-08

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.6 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 15:50 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 15:50 | Angela D Sneeringer | 1 |

**Sample Description: MW-9S/2/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260845**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/24/2016 09:15 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H09 SDG#: HOR51-09

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 6 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 16:12 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 16:12 | Angela D Sneeringer | 1 |

**Sample Description: MW-9D/2/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260846**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/24/2016 09:55 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H10 SDG#: HOR51-10

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 15 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 16:35 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 16:35 | Angela D Sneeringer | 1 |

**Sample Description: MW-8S/2/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260847**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/24/2016 12:00 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H11 SDG#: HOR51-11

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 16:57 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 16:57 | Angela D Sneeringer | 1 |

**Sample Description: MW-8D/2/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260848**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/24/2016 12:55 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H12 SDG#: HOR51-12

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.5 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 11 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 17:19 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 17:19 | Angela D Sneeringer | 1 |

**Sample Description: MW-16D/2/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260849**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/24/2016 14:35 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H13 SDG#: HOR51-13

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 17:42 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 17:42 | Angela D Sneeringer | 1 |

**Sample Description: MW-15S/2/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260850**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/24/2016 15:45 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H14 SDG#: HOR51-14

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 18:27 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 18:27 | Angela D Sneeringer | 1 |

**Sample Description: MW-15D/2/25/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8260851**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/25/2016 10:10 by KS

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H15 SDG#: HOR51-15

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 18:49 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 18:49 | Angela D Sneeringer | 1 |

**Sample Description: TB-1 Water**
**Horseheads, NY**

**LL Sample # WW 8260852**
**LL Group # 1635287**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 02/23/2016

Submitted: 02/26/2016 09:30
Reported: 03/04/2016 16:19

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

51H16 SDG#: HOR51-16TB

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | N.D. | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## General Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | Y160621AA | 03/02/2016 19:12 | Angela D Sneeringer | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | Y160621AA | 03/02/2016 19:12 | Angela D Sneeringer | 1 |

# Quality Control Summary

Client Name: CBS Corporation
Reported: 03/04/2016 16:19

Group Number: 1635287

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Method Blank

| Analysis Name | Result | MDL |
|---|---|---|
| | ug/l | ug/l |
| Batch number: Y160621AA | Sample number(s): 8260835-8260852 | |
| cis-1,2-Dichloroethene | N.D. | 0.5 |
| trans-1,2-Dichloroethene | N.D. | 0.5 |
| 1,1,1-Trichloroethane | N.D. | 0.5 |
| Trichloroethene | N.D. | 0.5 |
| Vinyl Chloride | N.D. | 0.5 |

## LCS/LCSD

| Analysis Name | LCS Spike Added | LCS Conc | LCSD Spike Added | LCSD Conc | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: Y160621AA | Sample number(s): 8260835-8260852 | | | | | | | | |
| cis-1,2-Dichloroethene | 20 | 19.19 | | | 96 | | 80-120 | | |
| trans-1,2-Dichloroethene | 20 | 19.63 | | | 98 | | 80-120 | | |
| 1,1,1-Trichloroethane | 20 | 16.22 | | | 81 | | 66-126 | | |
| Trichloroethene | 20 | 19.46 | | | 97 | | 80-120 | | |
| Vinyl Chloride | 20 | 18 | | | 90 | | 69-120 | | |

## MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

| Analysis Name | Unspiked Conc | MS Spike Added | MS Conc | MSD Spike Added | MSD Conc | MS %Rec | MSD %Rec | MS/MSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| | ug/l | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: Y160621AA | Sample number(s): 8260835-8260852 UNSPK: 8260836 | | | | | | | | | |
| cis-1,2-Dichloroethene | N.D. | 20 | 20.59 | 20 | 20.95 | 103 | 105 | 80-120 | 2 | 30 |
| trans-1,2-Dichloroethene | N.D. | 20 | 21.2 | 20 | 21.45 | 106 | 107 | 80-120 | 1 | 30 |
| 1,1,1-Trichloroethane | 1.17 | 20 | 19.01 | 20 | 19.31 | 89 | 91 | 66-126 | 2 | 30 |
| Trichloroethene | 7.86 | 20 | 28.68 | 20 | 29.18 | 104 | 107 | 80-120 | 2 | 30 |
| Vinyl Chloride | N.D. | 20 | 20.11 | 20 | 19.89 | 101 | 99 | 69-120 | 1 | 30 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

# Quality Control Summary

Client Name: CBS Corporation
Group Number: 1635287
Reported: 03/04/2016 16:19

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: Y160621AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 8260835 | 99 | 104 | 99 | 93 |
| 8260836 | 98 | 105 | 99 | 93 |
| 8260837 | 96 | 101 | 101 | 99 |
| 8260838 | 96 | 103 | 100 | 98 |
| 8260839 | 98 | 104 | 99 | 95 |
| 8260840 | 98 | 104 | 98 | 94 |
| 8260841 | 100 | 104 | 99 | 93 |
| 8260842 | 99 | 104 | 99 | 93 |
| 8260843 | 100 | 105 | 99 | 92 |
| 8260844 | 100 | 105 | 99 | 92 |
| 8260845 | 101 | 105 | 99 | 92 |
| 8260846 | 101 | 105 | 99 | 92 |
| 8260847 | 102 | 106 | 98 | 92 |
| 8260848 | 102 | 104 | 98 | 92 |
| 8260849 | 101 | 107 | 98 | 92 |
| 8260850 | 103 | 106 | 98 | 91 |
| 8260851 | 103 | 107 | 98 | 92 |
| 8260852 | 103 | 106 | 99 | 92 |
| Blank | 96 | 103 | 99 | 94 |
| LCS | 95 | 100 | 101 | 100 |
| MS | 96 | 101 | 101 | 99 |
| MSD | 96 | 103 | 100 | 98 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 | For Eurofins Lancaster Laboratories Environmental use only | Group # 1635287 | Sample # B260835-52 | COC #2 of 2

**COC # 491580**

## Client Information

| | |
|---|---|
| Client: Woodard & Curran | Acct. #: |
| Project Name/#: CBS - Horseheads NY | PWSID #: |
| Project Manager: Douglas Spizzo | P.O. #: |
| Sampler: Kirby Steck | Quote #: |
| State where samples were collected: New York | For Compliance: Yes ☐ No ☐ |

**Matrix:** Soil ☐ Sediment ☐ Water ☒ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Other: ____

**Analysis Requested** — Preservation Codes

| Sample Identification | Collected Date | Collected Time | Grab | Composite | Total # of Containers | *Select VOCs (8260) |
|---|---|---|---|---|---|---|
| MW-113D/2/23/16 | 2/23/16 | 0935 | X | | 3 | X |
| CW-35/2/23/16 | 2/23/16 | 1040 | X | | 3 | X |
| CW-35/MS/2/23/16 | 2/23/16 | 1040 | X | | 3 | X |
| CW-35/MSD/2/23/16 | 2/23/16 | 1040 | X | | 3 | X |
| DUP-1 | — | — | X | | 3 | X |
| CW-30/2/23/16 | 2/23/16 | 1155 | X | | 3 | X |
| MW-10S/2/23/16 | 2/23/16 | 1320 | X | | 3 | X |
| MW-16S/2/23/16 | 2/23/16 | 1430 | X | | 3 | X |
| MW-7D/2/23/16 | 2/23/16 | 1540 | X | | 3 | X |
| MW-7S/2/23/16 | 2/23/16 | 1620 | X | | 3 | X |

**For Lab Use Only**
FSC: ____
SCR#: ____

**Preservation Codes**
H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

**Remarks**
*= TCE
cis, 1,2 DCE
trans, 1,2 DCE
1,1,1-TCA
Vinyl Chloride

**Turnaround Time (TAT) Requested** (please circle)
(Standard) Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: ____

**Data Package Options** (circle if required)
Type I (EPA Level 3 Equivalent/non-CLP) | Type VI (Raw Data Only)
Type III (Reduced non-CLP) | NJ DKQP | TX TRRP-13
NYSDEC Category A or B | MA MCP | CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| [signature] | 2/25/16 | 1220 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | [signature] | 2/26/16 | 930 |

EDD Required? Yes No
If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.6 °C

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only COC #1 of 2 **COC # 491581**

Acct. # 9314 Group # 1635287 Sample # 8260835-52

## Client Information

| | |
|---|---|
| Client: Woodard & Curran | Acct. #: |
| Project Name/#: CBS - Horseheads, NY | PWSID #: |
| Project Manager: Douglas Spiccuza | P.O. #: |
| Sampler: Kirby Steele | Quote #: |
| State where samples were collected: New York | For Compliance: Yes ☐ No ☐ |

## Matrix

Sediment ☐ Soil ☐ | Ground ☒ Potable ☐ Water | Surface ☐ NPDES ☐ | Other: ____

## Analysis Requested

Preservation Codes

Total # of Containers | * Select Vocs (8260)

## For Lab Use Only

FSC: ____

SCR#: ____

**Preservation Codes**

H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

**Remarks**

*=TCE
cis 1,2, DCE
trans. 1,2, DCE
1,1,1-TCA
Vinyl Chloride

| Sample Identification | Collected Date | Collected Time | Grab | Composite | Total # of Containers | * Select Vocs (8260) | Remarks |
|---|---|---|---|---|---|---|---|
| MW-9S/2/24/16 | 2/24/16 | 0915 | X | | 3 | X | |
| MW-9D/2/24/16 | 2/24/16 | 0955 | X | | 3 | X | |
| MW-8S/2/24/16 | 2/24/16 | 1200 | X | | 3 | X | |
| MW-8D/2/24/16 | 2/24/16 | 1255 | X | | 3 | X | |
| MW-16D/2/24/16 | 2/24/16 | 1435 | X | | 3 | X | |
| MW-15S/2/24/16 | 2/24/16 | 1545 | X | | 3 | X | |
| ~~MW-15D/2/25/16~~ Kms 2/25/16 | ~~2/25/16~~ | ~~1010~~ | ~~X~~ | | ~~3~~ | | ~~Trip Blank~~ |
| MW-15D/2/25/16 | 2/25/16 | 1010 | X | | 3 | X | X Trip Blank |
| TB-1 | — | — | | | 2 | | |

**Turnaround Time (TAT) Requested** (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: ____

**Data Package Options** (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) NJ DKQP TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 2/25/16 | 1220 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | 2/26/16 | 930 |

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.1 °C

eurofins | Lancaster Laboratories Environmental

# Sample Administration Receipt Documentation Log

Doc Log ID: 137617

Group Number(s): 1635287

Client: Woodward & Curran

## Delivery and Receipt Information

| | | | |
|---|---|---|---|
| Delivery Method: | Fed Ex | Arrival Timestamp: | 02/26/2016 9:30 |
| Number of Packages: | 1 | Number of Projects: | 1 |
| State/Province of Origin: | NY | | |

## Arrival Condition Summary

| | | | |
|---|---|---|---|
| Shipping Container Sealed: | Yes | Sample IDs on COC match Containers: | Yes |
| Custody Seal Present: | Yes | Sample Date/Times match COC: | Yes |
| Custody Seal Intact: | Yes | VOA Vial Headspace ≥ 6mm: | No |
| Samples Chilled: | Yes | Total Trip Blank Qty: | 2 |
| Paperwork Enclosed: | Yes | Trip Blank Type: | HCl |
| Samples Intact: | Yes | Air Quality Samples Present: | No |
| Missing Samples: | No | | |
| Extra Samples: | No | | |
| Discrepancy in Container Qty on COC: | No | | |

*Unpacked by Jordan Woods (6698) at 14:43 on 02/26/2016*

## Samples Chilled Details

*Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.*

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|---|---|---|---|---|---|---|---|
| 1 | DT121 | 1.1 | DT | Wet | Y | Loose/Bag | N |



2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

| | |
|---|---|
| **<** | less than |
| **>** | greater than |
| **ppm** | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas. |
| **ppb** | parts per billion |
| **Dry weight basis** | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. |

*Laboratory Data Qualifiers:*

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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# Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

Report Date: June 06, 2016

**Project: Horseheads, NY**

Submittal Date: 05/25/2016
Group Number: 1665065
SDG: HOR52
PO Number: ENV-OM-00137
Release Number: HORSEHEADS
State of Sample Origin: NY

| Client Sample Description | Lancaster Labs (LL) # |
|---|---|
| MW-10S/5/23/16 Grab Groundwater | 8396280 |
| MW-9S/5/23/16 Grab Groundwater | 8396281 |
| MW-9D/5/23/16 Grab Groundwater | 8396282 |
| MW-8S/5/23/16 Grab Groundwater | 8396283 |
| MW-8S/MS/5/23/16 Grab Groundwater | 8396284 |
| MW-8S/MSD/5/23/16 Grab Groundwater | 8396285 |
| MW-8D/5/23/16 Grab Groundwater | 8396286 |
| DUP-1 Grab Groundwater | 8396287 |
| MW-7D/5/23/16 Grab Groundwater | 8396288 |
| MW-7S/5/23/16 Grab Groundwater | 8396289 |
| CW-3S/5/24/16 Grab Groundwater | 8396290 |
| CW-3D/5/24/16 Grab Groundwater | 8396291 |
| MW-113D/5/24/16 Grab Groundwater | 8396292 |
| MW-16S/5/24/16 Grab Groundwater | 8396293 |
| MW-16D/5/24/16 Grab Groundwater | 8396294 |
| MW-15S/5/24/16 Grab Groundwater | 8396295 |
| MW-15D/5/24/16 Grab Groundwater | 8396296 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

| | | |
|---|---|---|
| Electronic Copy To | Woodard & Curran Inc. | Attn: Jeff Pytlak |
| Electronic Copy To | Woodard & Curran Inc. | Attn: Christine Kuzmkowski |
| Electronic Copy To | CBS Corporation | Attn: Doug Spicuzza |

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Respectfully Submitted,

Katherine A. Klinefelter

Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

**Sample Description: MW-10S/5/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396280**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/23/2016 11:55 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS10 SDG#: HOR52-01

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 8 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161532AA | 06/02/2016 03:33 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161532AA | 06/02/2016 03:33 | Matthew S Krause | 1 |

**Sample Description: MW-9S/5/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396281**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/23/2016 13:25 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS-9 SDG#: HOR52-02

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 7 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161532AA | 06/02/2016 03:55 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161532AA | 06/02/2016 03:55 | Matthew S Krause | 1 |

**Sample Description: MW-9D/5/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396282**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/23/2016 14:05 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS9- SDG#: HOR52-03

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.6 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 15 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161532AA | 06/02/2016 04:17 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161532AA | 06/02/2016 04:17 | Matthew S Krause | 1 |

**Sample Description: MW-8S/5/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396283**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/23/2016 15:05 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS-8 SDG#: HOR52-04BKG

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161532AA | 06/02/2016 01:43 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161532AA | 06/02/2016 01:43 | Matthew S Krause | 1 |

**Sample Description: MW-8S/MS/5/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396284**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/23/2016 15:05 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS-8 SDG#: HOR52-04MS

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | ug/l | ug/l | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 23 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 23 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 21 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 27 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 21 | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161532AA | 06/02/2016 02:05 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161532AA | 06/02/2016 02:05 | Matthew S Krause | 1 |

**Sample Description: MW-8S/MSD/5/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396285**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/23/2016 15:05 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS-8 SDG#: HOR52-04MSD

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | ug/l | ug/l | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 21 | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 22 | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 20 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 26 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 21 | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161532AA | 06/02/2016 02:27 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161532AA | 06/02/2016 02:27 | Matthew S Krause | 1 |

**Sample Description: MW-8D/5/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396286**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/23/2016 16:05 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS8D SDG#: HOR52-05

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.9 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 14 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161532AA | 06/02/2016 04:39 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161532AA | 06/02/2016 04:39 | Matthew S Krause | 1 |

**Sample Description: DUP-1 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396287**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/23/2016 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRSFD SDG#: HOR52-06FD

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.9 | J | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 14 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161532AA | 06/02/2016 05:01 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161532AA | 06/02/2016 05:01 | Matthew S Krause | 1 |

**Sample Description: MW-7D/5/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396288**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/23/2016 17:00 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS7D SDG#: HOR52-07

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 0.7 | J | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161532AA | 06/02/2016 05:23 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161532AA | 06/02/2016 05:23 | Matthew S Krause | 1 |

**Sample Description: MW-7S/5/23/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396289**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/23/2016 17:40 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS7S SDG#: HOR52-08

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.6 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 4 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161532AA | 06/02/2016 05:45 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161532AA | 06/02/2016 05:45 | Matthew S Krause | 1 |

**Sample Description: CW-3S/5/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396290**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/24/2016 08:05 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS3- SDG#: HOR52-09

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | ug/l | ug/l | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 7 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161532AA | 06/02/2016 06:07 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161532AA | 06/02/2016 06:07 | Matthew S Krause | 1 |

**Sample Description: CW-3D/5/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396291**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/24/2016 08:45 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS-3 SDG#: HOR52-10

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 10 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161543AA | 06/02/2016 21:54 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161543AA | 06/02/2016 21:54 | Matthew S Krause | 1 |

**Sample Description: MW-113D/5/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396292**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/24/2016 09:55 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS13 SDG#: HOR52-11

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.7 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 20 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161543AA | 06/02/2016 22:16 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161543AA | 06/02/2016 22:16 | Matthew S Krause | 1 |

**Sample Description: MW-16S/5/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396293**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/24/2016 11:10 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS16 SDG#: HOR52-12

| CAT No. | Analysis Name | CAS Number | Result | | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 0.9 | J | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161543AA | 06/02/2016 22:38 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161543AA | 06/02/2016 22:38 | Matthew S Krause | 1 |

**Sample Description: MW-16D/5/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396294**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/24/2016 12:15 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS-6 SDG#: HOR52-13

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 2 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161543AA | 06/02/2016 23:00 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161543AA | 06/02/2016 23:00 | Matthew S Krause | 1 |

**Sample Description: MW-15S/5/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396295**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/24/2016 14:10 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS15 SDG#: HOR52-14

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161543AA | 06/02/2016 23:22 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161543AA | 06/02/2016 23:22 | Matthew S Krause | 1 |

**Sample Description: MW-15D/5/24/16 Grab Groundwater**
**Horseheads, NY**

**LL Sample # WW 8396296**
**LL Group # 1665065**
**Account # 09314**

**Project Name: Horseheads, NY**

Collected: 05/24/2016 15:20 by KS

Submitted: 05/25/2016 08:05
Reported: 06/06/2016 08:28

CBS Corporation
20 Stanwix Street Room 1043
Pittsburgh PA 15222-1384

HRS5- SDG#: HOR52-15

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **GC/MS Volatiles** | **SW-846 8260C** | | **ug/l** | **ug/l** | |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.5 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.5 | 1 |
| 11997 | 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.5 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 1 | 0.5 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.5 | 1 |

## Sample Comments

State of New York Certification No. 10670
Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 11997 | VOCs- 5ml Water by 8260C | SW-846 8260C | 1 | L161543AA | 06/02/2016 23:44 | Matthew S Krause | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L161543AA | 06/02/2016 23:44 | Matthew S Krause | 1 |

# Quality Control Summary

Client Name: CBS Corporation
Reported: 06/06/2016 08:28

Group Number: 1665065

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

## Method Blank

| Analysis Name | Result | MDL |
|---|---|---|
| | ug/l | ug/l |
| Batch number: L161532AA | Sample number(s): 8396280-8396290 | |
| cis-1,2-Dichloroethene | N.D. | 0.5 |
| trans-1,2-Dichloroethene | N.D. | 0.5 |
| 1,1,1-Trichloroethane | N.D. | 0.5 |
| Trichloroethene | N.D. | 0.5 |
| Vinyl Chloride | N.D. | 0.5 |
| Batch number: L161543AA | Sample number(s): 8396291-8396296 | |
| cis-1,2-Dichloroethene | N.D. | 0.5 |
| trans-1,2-Dichloroethene | N.D. | 0.5 |
| 1,1,1-Trichloroethane | N.D. | 0.5 |
| Trichloroethene | N.D. | 0.5 |
| Vinyl Chloride | N.D. | 0.5 |

## LCS/LCSD

| Analysis Name | LCS Spike Added ug/l | LCS Conc ug/l | LCSD Spike Added ug/l | LCSD Conc ug/l | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: L161532AA | Sample number(s): 8396280-8396290 | | | | | | | | |
| cis-1,2-Dichloroethene | 20 | 20.86 | | | 104 | | 80-120 | | |
| trans-1,2-Dichloroethene | 20 | 20.88 | | | 104 | | 80-120 | | |
| 1,1,1-Trichloroethane | 20 | 17.78 | | | 89 | | 66-126 | | |
| Trichloroethene | 20 | 21.12 | | | 106 | | 80-120 | | |
| Vinyl Chloride | 20 | 17.91 | | | 90 | | 69-120 | | |
| Batch number: L161543AA | Sample number(s): 8396291-8396296 | | | | | | | | |
| cis-1,2-Dichloroethene | 20 | 21.63 | 20 | 20.83 | 108 | 104 | 80-120 | 4 | 30 |
| trans-1,2-Dichloroethene | 20 | 21.86 | 20 | 21.39 | 109 | 107 | 80-120 | 2 | 30 |
| 1,1,1-Trichloroethane | 20 | 18.5 | 20 | 17.87 | 92 | 89 | 66-126 | 3 | 30 |
| Trichloroethene | 20 | 22.12 | 20 | 21.34 | 111 | 107 | 80-120 | 4 | 30 |
| Vinyl Chloride | 20 | 19.65 | 20 | 19.34 | 98 | 97 | 69-120 | 2 | 30 |

## MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

# Quality Control Summary

Client Name: CBS Corporation
Reported: 06/06/2016 08:28

Group Number: 1665065

## MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

| Analysis Name | Unspiked Conc ug/l | MS Spike Added ug/l | MS Conc ug/l | MSD Spike Added ug/l | MSD Conc ug/l | MS %Rec | MSD %Rec | MS/MSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|---|---|
| Batch number: L161532AA | Sample number(s): 8396280-8396290 UNSPK: 8396283 | | | | | | | | | |
| cis-1,2-Dichloroethene | N.D. | 20 | 22.68 | 20 | 21.47 | 113 | 107 | 80-120 | 5 | 30 |
| trans-1,2-Dichloroethene | N.D. | 20 | 23.35 | 20 | 21.59 | 117 | 108 | 80-120 | 8 | 30 |
| 1,1,1-Trichloroethane | 1.62 | 20 | 21.32 | 20 | 20.46 | 99 | 94 | 66-126 | 4 | 30 |
| Trichloroethene | 3.24 | 20 | 26.51 | 20 | 25.91 | 116 | 113 | 80-120 | 2 | 30 |
| Vinyl Chloride | N.D. | 20 | 20.99 | 20 | 21.27 | 105 | 106 | 69-120 | 1 | 30 |

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: L161532AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 8396280 | 98 | 102 | 99 | 100 |
| 8396281 | 98 | 102 | 98 | 99 |
| 8396282 | 98 | 102 | 100 | 100 |
| 8396283 | 97 | 99 | 100 | 101 |
| 8396284 | 98 | 102 | 100 | 100 |
| 8396285 | 99 | 102 | 100 | 101 |
| 8396286 | 99 | 100 | 98 | 100 |
| 8396287 | 98 | 102 | 99 | 99 |
| 8396288 | 98 | 102 | 99 | 99 |
| 8396289 | 98 | 100 | 98 | 99 |
| 8396290 | 98 | 101 | 98 | 99 |
| Blank | 97 | 101 | 99 | 99 |
| LCS | 98 | 100 | 100 | 101 |
| MS | 98 | 102 | 100 | 100 |
| MSD | 99 | 102 | 100 | 101 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: L161543AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 8396291 | 99 | 101 | 99 | 99 |
| 8396292 | 98 | 100 | 99 | 100 |
| 8396293 | 99 | 99 | 98 | 98 |
| 8396294 | 99 | 102 | 98 | 99 |
| 8396295 | 99 | 102 | 98 | 99 |
| 8396296 | 99 | 101 | 98 | 99 |
| Blank | 97 | 100 | 99 | 100 |
| LCS | 98 | 100 | 100 | 100 |
| LCSD | 99 | 101 | 100 | 101 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

# Quality Control Summary

Client Name: CBS Corporation
Group Number: 1665065
Reported: 06/06/2016 08:28

## Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

| | | | | |
|---|---|---|---|---|
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 9314 Group # 1646565 Sample # 8396280-296

**COC # 502498**

## Client Information

| | |
|---|---|
| Client: Woodard & Curran | Acct. #: 1 of 2 |
| Project Name/#: CBS - Horseheads NY | PWSID #: |
| Project Manager: Douglas Spicuzza | P.O. #: |
| Sampler: Kirby Steck | Quote #: |
| State where samples were collected: New York | For Compliance: Yes ☐ No ☐ |

**For Lab Use Only**

FSC:

SCR#:

**Preservation Codes**

H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

**Remarks**

*= TCE
cis, 1,2 DCE
trans, 1,2 DCE
1,1 - TCA
Vinyl Chloride

| Sample Identification | Collected Date | Collected Time | Grab | Composite | Matrix: Soil/Sediment | Tissue | Water: Potable | Ground | NPDES | Surface | Other: | Total # of Containers | *Select VOCs (8260) | Preservation Codes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-10S/5/23/16 | 5/23/16 | 1155 | X | | | | | | | | | 3 | X | |
| MW-9S/5/23/16 | 5/23/16 | 1325 | X | | | | | | | | | 3 | X | |
| MW-9D/5/23/16 | 5/23/16 | 1405 | X | | | | | | | | | 3 | X | |
| MW-8S/5/23/16 | 5/23/16 | 1505 | X | | | | | | | | | 3 | X | |
| MW-8S/MS/5/23/16 | 5/23/16 | 1505 | X | | | | | | | | | 3 | X | |
| MW-8S/MSD/5/23/16 | 5/23/16 | 1505 | X | | | | | | | | | 3 | X | |
| MW-8D/5/23/16 | 5/23/16 | 1605 | X | | | | | | | | | 3 | X | |
| DUP-1 | — | — | X | | | | | | | | | 3 | X | |
| MW-7D/5/23/16 | 5/23/16 | 1705 | X | | | | | | | | | 3 | X | |
| MW-7S/5/23/16 | 5/23/16 | 1740 | X | | | | | | | | | 3 | X | |

**Turnaround Time (TAT) Requested** (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed:

E-mail address:

**Data Package Options** (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) NJ DKQP TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 5/24/16 | 1635 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | 5.25.16 | 0905 |

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS FedEx X Other

Temperature upon receipt 2.4 °C

# Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 9314 For Eurofins Lancaster Laboratories Environmental use only Group # 1665062 Sample # 8396280-2R **COC # 502499**

## Client Information

Client: Woodard & Curran | Acct. #: 2 of 2

Project Name/#: CBS - Horseheads NY | PWSID #:

Project Manager: Douglas Spicuzza | P.O. #:

Sampler: Kirby Steck | Quote #:

State where samples were collected: New York | For Compliance: Yes ☐ No ☐

## Matrix

Soil ☐ Sediment ☐ Tissue ☐ | Water: Potable ☐ Ground ☒ NPDES ☐ Surface ☐ | Other: ____

## Analysis Requested

Preservation Codes

| Sample Identification | Collected Date | Collected Time | Grab | Composite | Total # of Containers | * Select VOCs (8260) | Remarks |
|---|---|---|---|---|---|---|---|
| CW-35 / 5/24/16 | 5/24/16 | 0805 | X | | 3 | X | * = TCE, cis 1,2 DCE, ~~trans~~ trans 1,2 DCE, 1,1,1-TCA, Vinyl Chloride |
| CW-30 / 5/24/16 | | 0845 | X | | 3 | X | |
| MW-113D / 5/24/16 | | 0955 | X | | 3 | X | |
| MW-16S / 5/24/16 | | 1110 | X | | 3 | X | |
| MW-16D / 5/24/16 | | 1215 | X | | 3 | X | |
| MW-15S / 5/24/16 | | 1410 | X | | 3 | X | |
| MW-15D / 5/24/16 | | 1520 | X | | 3 | X | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

**For Lab Use Only**

FSC: ____

SCR#: ____

**Preservation Codes**

H=HCl T=Thiosulfate
N=$HNO_3$ B=NaOH
S=$H_2SO_4$ O=Other

**Remarks**

* = TCE
cis 1,2 DCE
~~trans~~ trans 1,2 DCE
1,1,1-TCA
Vinyl Chloride

**Turnaround Time (TAT) Requested** (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: ____

E-mail address: ____

**Data Package Options** (circle if required)

Type I (EPA Level 3 Equivalent/non-CLP) | Type VI (Raw Data Only)

Type III (Reduced non-CLP) | NJ DKQP | TX TRRP-13

NYSDEC Category A or B | MA MCP | CT RCP

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | 5/24/16 | 1630 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | 5.25.16 | 0805 |

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 2.4 °C

eurofins | Lancaster Laboratories Environmental

# Sample Administration Receipt Documentation Log

Doc Log ID: 147838

Group Number(s):

Client: Woodard

1665065

## Delivery and Receipt Information

| | | | |
|---|---|---|---|
| Delivery Method: | Fed Ex | Arrival Timestamp: | 05/25/2016 8:05 |
| Number of Packages: | 1 | Number of Projects: | 1 |
| State/Province of Origin: | NY | | |

## Arrival Condition Summary

| | | | |
|---|---|---|---|
| Shipping Container Sealed: | Yes | Sample IDs on COC match Containers: | Yes |
| Custody Seal Present: | Yes | Sample Date/Times match COC: | Yes |
| Custody Seal Intact: | Yes | VOA Vial Headspace ≥ 6mm: | No |
| Samples Chilled: | Yes | Total Trip Blank Qty: | 0 |
| Paperwork Enclosed: | Yes | Air Quality Samples Present: | No |
| Samples Intact: | Yes | | |
| Missing Samples: | No | | |
| Extra Samples: | No | | |
| Discrepancy in Container Qty on COC: | No | | |

*Unpacked by Timothy Cubberley (6520) at 08:16 on 05/25/2016*

## Samples Chilled Details

*Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.*

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|---|---|---|---|---|---|---|---|
| 1 | DT131 | 2.4 | DT | Wet | Y | Bagged | N |



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# Explanation of Symbols and Abbreviations

*The following defines common symbols and abbreviations used in reporting technical data:*

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **µg** | microgram(s) | **mg** | milligram(s) |
| **mL** | milliliter(s) | **L** | liter(s) |
| **m3** | cubic meter(s) | **µL** | microliter(s) |
| | | **pg/L** | picogram/liter |

| | |
|---|---|
| **<** | less than |
| **>** | greater than |
| **ppm** | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas. |
| **ppb** | parts per billion |
| **Dry weight basis** | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. |

*Laboratory Data Qualifiers:*

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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