HALEY ALDRICH

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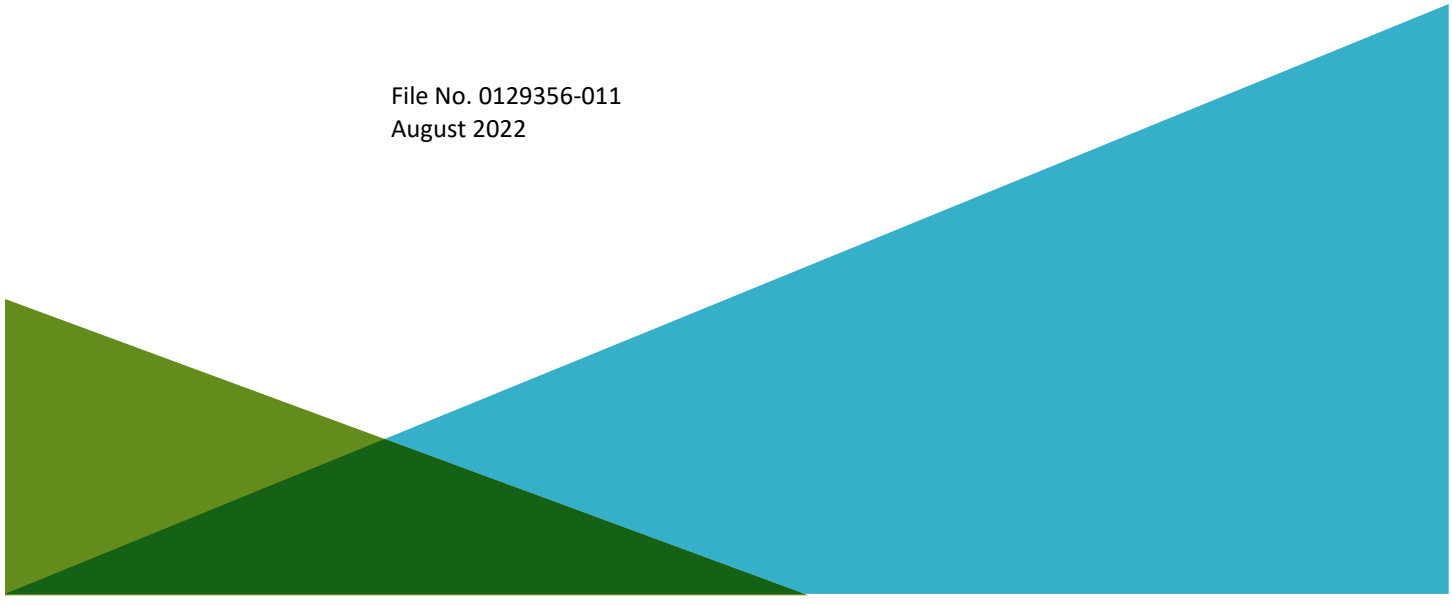
2021-2022 PERIODIC REVIEW REPORT

HYDRO-AIR COMPONENTS, INC. PROPERTY
FORMER STEELFIELDS AREA IV BCP SITE (#C915204)
100 RITTLING BLVD.
BUFFALO, NEW YORK

by
Haley & Aldrich of New York
Rochester, New York

for
New York State Department of Environmental Conservation
Buffalo, New York

File No. 0129356-011
August 2022



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2 August 2022
File No. 0129356-011

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2999

Attention: Megan Kuczka
Environmental Program Specialist 1

Subject: Hydro-Air Components, Inc. Property
Former Steelfields Area IV BCP Site; NYSDEC Site #C915204
2021-2022 Periodic Review Report & Institutional Controls/
Engineering Controls Certification
100 Rittling Blvd.
Buffalo, New York

Ladies and Gentlemen:

On behalf of Hydro-Air Components, Inc. (Hydro-Air), Haley & Aldrich of New York (Haley & Aldrich) hereby submits this Periodic Review Report and Annual Institutional & Engineering Controls Certification for 2021-2022 (2021-2022 PRR). This report summarizes activities performed during the reporting period of 15 April 2021 through 14 April 2022 and was prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved Site Management Plan (SMP) dated November 2007, as amended on 25 March 2014 to incorporate recommendations from the 2012 Corrective Measures Report.

The 2021-2022 PRR documents SMP activities implemented during the reporting period and provides documentation of ongoing monitoring activities required by the SMP.

Haley & Aldrich conducted the annual site engineering controls inspection on 7 March 2022. General site monitoring activities were completed over the reporting period by Hydro-Air personnel and contractors, and documentation of the monitoring activities is attached to and incorporated by reference in this 2021-2022 PRR.

Sincerely yours,
HALEY & ALDRICH OF NEW YORK

Andrew L. Nichols
Technical Specialist

Glenn M. White, CHMM
Associate

Enclosures

c: Hydro-Air Components, Inc.; Attn: Rob Daigler
Barclay Damon, LLP.; Attn: Thomas Walsh, Esq.

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SIGNATURE PAGE FOR

2021-2022 PERIODIC REVIEW REPORT &
INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS CERTIFICATION

HYDRO-AIR COMPONENTS, INC. PROPERTY
(FORMER STEELFIELDS AREA IV BCP SITE; NYSDEC SITE #C915204)
100 RITTLING BLVD.
BUFFALO, NEW YORK

PREPARED FOR
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BUFFALO, NEW YORK

PREPARED BY:

Andrew L. Nichols
Technical Specialist
Haley & Aldrich of New York

REVIEWED AND APPROVED BY:

Glenn M. White
Associate
Haley & Aldrich of New York

Executive Summary

The Steelfields Area IV Brownfields Cleanup Program (BCP) Site, NYSDEC Site #C915204, comprises 30.91 acres of land located at 100 Rittling Boulevard in Buffalo, New York (See Figures 1 and 2) (the "Site"). Originally part of the larger Steelfields Voluntary Cleanup Program (VCP) Site #V00619, remedial activities were initiated in 2003 under a Voluntary Cleanup Agreement (VCA) between the former Site owner, Steelfields Ltd., and the New York State Department of Environmental Conservation (NYSDEC). In 2006, the current Site owner, Hydro-Air Components, Inc. (Hydro-Air), purchased the Steelfields Area IV property, successfully applied for the BCP and subsequently entered into a Brownfields Cleanup Agreement with NYSDEC on 21 August 2006, under which cleanup and redevelopment of the Site was completed in 2007.

The Site is currently developed with a 144,000 square foot manufacturing building and adjoining office space, surrounded by paved parking lots, landscaped areas, a stormwater retention pond, and seasonally vegetated areas. Soil and groundwater on some portions of the Site have been found to contain volatile organic compounds (VOCs), metals (primarily arsenic, chromium, and lead), and cyanide, associated with past use of the Site as the former Donner-Hanna Coke storage yard. Additionally, alkaline groundwater is known to exist in the northeastern corner of the Site, and acidic groundwater is known to exist in the western portion of the Site.

The NYSDEC-approved remedy for the Site included the following:

- Excavation and removal of soils contaminated from historical coking process wastes, backfilling, and placement of a cover system;
- Use of Oxygen Release Compound (ORC) in Site groundwater wells to stimulate in-situ biodegradation of the residual Site contaminants of interest (began in 2007);
- Installation and operation of an active sub-slab depressurization system (ASD) in the Site building to mitigate the potential for impacted soil vapor intrusion into the indoor air space (ASD constructed and operated continuously since 2007); and,
- Annual inspection by a qualified person verifying that the institutional controls and/or engineering controls employed at the Site remain effective.

Also included as part of the NYSDEC-approved remedy was the recording of an Environmental Easement on 21 December 2007, to address institutional control requirements of the BCP, including, but not limited to:

- Restricting the property to industrial use;
- Preventing use of groundwater at the Site without prior approval; and,
- Adherence to the NYSDEC-approved Site Management Plan (SMP) for long-term management of the Site in order to maintain protection of human health and the environment.

The SMP, dated November 2007, was amended on 25 March 2014 to incorporate recommendations from the 2012 Corrective Measures Report. The SMP consists of institutional and engineering controls (IC/ECs). Site ECs include maintenance of the Site cover system, gasketed stormwater conveyance piping, operation and maintenance of the sub-slab depressurization system (ASD), and application of

ORC in the designated wells. Monitoring of the ECs is conducted periodically per the SMP. Site ICs consist of the Environmental Easement on the property, which include groundwater and land use restrictions, and adherence to the SMP.

The IC/ECs have remained in-place and have functioned as designed during the reporting period. The SMP and Environmental Easement remain in-place, groundwater has not been used, and Site use is consistent with land use restrictions (industrial).

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1. Site Overview and Remedy Implementation

The Steelfields Area IV Brownfields Cleanup Program (BCP) Site, NYSDEC Site #C915204, comprises 30.91 acres of land located at 100 Rittling Boulevard in Buffalo, New York (See Figures 1 and 2) (the "Site"). Although initially part of a larger New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Program (VCP) site known as Steelfields (Site #V00619), the Site was remediated by the current Site owner, Hydro-Air Components, Inc. (Hydro-Air) under the BCP in 2006. Site development was completed in 2007 with the construction of an approximately 144,000 square foot manufacturing building and adjoining office space. Remaining portions of the Site include paved parking lots, a gravel road, landscaped areas, a stormwater retention pond, and seasonally vegetated areas. Soil and groundwater on some portions of the Site contain volatile organic compounds (VOCs), metals (primarily arsenic, chromium, and lead), and cyanide, associated with past use of the Site as the former Donner-Hanna Coke Storage Yard. Additionally, alkaline groundwater is known to exist in the northeastern corner of the Site, and acidic groundwater is known to exist in the western portion of the Site.

Soil and groundwater investigations were conducted at the Site between 1997 and 2005 as part of VCP activities. Following investigation, and entry of the Site in the BCP by Hydro-Air, a Site remedy was selected consisting of:

- Excavation and removal of soils contaminated with historical coking process wastes; backfilling; and placement of cover material;
- Use of Oxygen Release Compound (ORC) in designated Site groundwater wells to stimulate and enhance intrinsic bioremediation of residual VOCs in the soil and groundwater;
- Installation and operation of an active sub-slab depressurization system (ASD) in the Site building to mitigate the potential for impacted soil vapor intrusion into the indoor air space;
- Use of gasketed stormwater conveyance piping;
- Periodic monitoring; and,
- Annual inspections.

Also included as part of the remedy was the recording of an Environmental Easement on 21 December 2007 to establish institutional control requirements at the Site, including continued industrial use of the property, preventing use of groundwater at the Site without prior approval, and adherence to the Site Management Plan (SMP) for long-term management of the Site to maintain protection of human health and the environment as required by the NYSDEC. The NYSDEC approved the SMP dated November 2007, and its amendment dated 25 March 2014.

This report summarizes activities performed during the period 15 April 2021 through 14 April 2022.

2. IC/EC Compliance Report

2.1 INSTITUTIONAL CONTROLS - REQUIREMENTS AND COMPLIANCE

Site institutional controls (ICs) in the form of Environmental Easement are in effect at the Site. These restrictions include prohibition of groundwater use unless rendered safe for the intended purpose and land use restrictions (industrial use only). The Environmental Easement also stipulates that the Site is managed under a NYSDEC-approved SMP and requires periodic certification indicating that the Site engineering controls (ECs) remain in-place and continue to be protective.

The Site's Environmental Easement remained in force during the reporting period. Certifications are included in Appendix A.

2.2 ENGINEERING CONTROLS - REQUIREMENTS AND COMPLIANCE

There are six (6) ECs in place at the Site, which are as follows and further described in the sections below:

- 2.2.1 Existing Cover System
- 2.2.2 Sub-Slab Depressurization System
- 2.2.3 Gasketed Stormwater Conveyance Piping
- 2.2.4 ORC In-situ Treatment
- 2.2.5 Groundwater Monitoring
- 2.2.6 Stormwater Pond Monitoring

2.2.1 Existing Cover System

Potential direct exposure to residual contamination remaining at the Site is prevented by the existing cover system, which consists of the building slab, pavement, and one foot of clean gravel or clean soil and vegetative cover. The stormwater pond west of the Site building is also part of the cover system. The cover system is required to be maintained in accordance with the SMP. Excavations that breach the cover system require monitoring and soil management in accordance with the Excavation Work Plan appended to the SMP. In addition, should certain fill materials ever be imported onto the Site, they must be tested prior to Site use to demonstrate compliance with the requirements of the SMP. Fill materials were not imported to the Site during the reporting period. A copy of the post-remedial excavation soil cover map at the Site, as presented in the 2007 Final Engineering Report, is included in Appendix E.

2.2.1.1 Prevention of Groundwater Surfacing

Prior to 2010, groundwater that had been in contact with soils from beneath the cover system was observed accumulating in the northeastern loading dock area of the Site building (see Figure 2). Subsequent to corrective measures that were put into place per the NYSDEC-approved Corrective Measures Work Plan, groundwater has not accumulated in the northeastern loading dock area. The reconfiguration of the loading dock pump system (setting to automatic pumping and raising the float

set-point) has enabled sufficient pumping to maintain dry conditions and has sufficiently prevented the surfacing of groundwater in the area. Hydro-Air has continued to monitor the efficacy of these controls regularly throughout the reporting period.

Prior to 2012, evidence of surfacing groundwater from beneath the gravel cover areas on the northern end of the Site was evident (see Figure 2). As a voluntary corrective measure, the gravel cover on the northern portion of the access road was enhanced in 2012 by the placement of additional gravel (an additional 9 to 11 inches). In January 2021, standing water was observed in compacted areas on the gravel roadway between the Site building and northern Site boundary following a period of rainfall and snowmelt. The condition was likely related to the recent rainfall/snow melt/localized groundwater recharge. To limit the potential for future temporary ponding under similar conditions, Hydro-Air imported approximately 88 tons of #2 crushed limestone and elevated the compacted areas and re-graded the roadway. Hydro-Air monitored the road conditions throughout the 2021-2022 reporting period and did not observe prolonged unanticipated standing water conditions.

2.2.1.2 Floor Cracking in Office Areas

During the previous 2020-2021 PRR inspection, floor cracks were observed in the walkway floor tiles within the western portions of the Site office areas. The cracks observed in the floor tiles also appeared to extend underneath adjacent carpeted flooring. In March 2022, Hydro-Air personnel removed selected linoleum floor tiles and adjacent carpeting to assess the condition of the underlying floor slab in the areas of cracking. Haley & Aldrich and Hydro-Air personnel observed unanticipated expansion joint separation, with selected joints open up to 5 inches below the concrete slab surface. The expansion joint separation appears to cause the overlying linoleum tiles to stretch and ultimately rip.

Hydro-Air personnel filled the exposed expansion joints with hydraulic cement and sealed the joint surfaces with self-leveling polyurethane caulk. Hydro-Air intends to continue monitoring the linoleum floors throughout the western office area.

Minor surficial floor cracks continue to be observed in select areas of the Site manufacturing space. These cracks do not appear to have expanded since the 2020-2021 PRR reporting period.

2.2.1.3 Site Fencing

During the previous 2020-2021 PRR inspection, chain link fencing along the western boundary of the Site was observed in disrepair. This observation was noted in the Environmental Inspection Form included in Appendix C of the 2020-2021 PRR. In the 24 May 2021 acceptance of the 2020-2021 PRR and IC/EC Certification, the NYSDEC requested the fencing be repaired, with the maintenance activities noted within the 2021-2022 PRR.

However, the Environmental Inspection Form utilized during the annual PRR inspections inadvertently misstated that, “In accordance with the Soil/Fill Management Plan, fencing is required to restrict access in all undeveloped areas…” In fact, Section 2.7 of the Soil/Fill Management Plan referenced in the Environmental Inspection Form specifies only that “fencing shall be temporarily erected and maintained as necessary by the building contractor to control access around utility trenches and other construction excavations.” The erection and maintenance of a Site perimeter fence is not a Site engineering control listed in the SMP, other than as a temporary site access control during construction earthwork activities.

The chain link fencing along the western boundary of the Site was observed in disrepair during the 2021-2022 PRR inspection. According to Hydro-Air personnel, the fencing was not damaged by Hydro-Air, and may have been damaged during maintenance by others along the utility right-of-way corridor traversing the western Site boundary. The damaged fence continues to provide a substantial impediment to trespassers, and Hydro-Air personnel have not observed evidence of consistent trespassing along the western Site boundary.

Consistent with Section 2.7 of the Soil/Fill Management Plan, Hydro-Air will require any contractor disturbing site soil/fill to erect and maintain a temporary fence around utility trenches and other construction excavations. Hydro-Air does not anticipate any such activities during the 2022-2023 PRR period.

2.2.2 Sub-Slab Depressurization System

An active sub-slab depressurization (ASD) system was installed during 2006 Site building construction to mitigate the potential for soil vapor intrusion to occur. The ASD system consists of an 8-mil polyethylene vapor barrier and five assemblies strategically placed within the footprint of the Site building, each containing the following items: perforated pipe suction assembly, vertical piping vent stack and associated materials, exhaust fan, and magnehelic pressure gauge.

Based on continued presence of sub-slab vacuum and continuous system operation, the ASD system is operating as designed, and documentation for regular maintenance and monitoring is included in Appendix F. Refer to Section 3.2 below, for additional information, including updates provided within this Periodic Review Report and Annual Institutional & Engineering Controls Certification for 2021-2022 (2021-2022 PRR).

2.2.3 Gasketed Stormwater Conveyance Piping

In areas of the Site with known groundwater impacts, storm water injection (drywells) is prohibited, and storm water conveyance pipes and manholes are required to have gasketed joints for water tightness to prevent the infiltration of impacted groundwater from beneath the cover system into the collection system.

Activities that would have impacted the integrity of the gasketed joints of stormwater conveyance piping were not performed during the reporting period. Gasketed stormwater conveyance pipes therefore remain in-place as designed and installed. No new stormwater conveyance piping was installed during the reporting period.

2.2.4 ORC In-Situ Treatment

The in-situ treatment of residual contamination in remaining soils and groundwater using oxygen release compounds (ORC) is maintained and monitored in accordance with the SMP. The three designated ORC wells are inspected annually, and ORC is required to be replaced semi-annually in accordance with the SMP.

The ORC wells were inspected on 7 July 2021. The ORC wells are currently intact and operational, and the seals appear to have integrity. ORC was replaced in July 2021 and March 2022. Documentation for regular maintenance, monitoring, and ORC replacement is included in Appendix G. Waste ORC socks

were containerized at the Site facility and are awaiting disposal profiling and off-site disposal during the 2022-2023 PRR reporting period. The disposal receipt will be appended to the 2022-2023 PRR.

2.2.5 Groundwater Monitoring

Groundwater samples from five (5) monitoring wells and three (3) in-situ ORC remediation wells identified on Figures 2 and 3, are collected annually using low-flow purge and sampling methods as specified in the SMP. Water quality parameters are measured and recorded in the field during the low-flow purge using a flow-through cell and water quality meter. The following field parameters are measured in each monitoring and in-situ remediation well: pH, temperature, Oxidation-Reduction Potential (ORP), specific conductance, turbidity, dissolved oxygen, CO_2, alkalinity, and visual/olfactory observations. Static depth to groundwater is measured at each monitoring well prior to groundwater sample collection. Static groundwater elevations from July 2021 are shown on Figure 3.

Groundwater samples collected from the five (5) monitoring wells are analyzed for VOCs (Method 8260C), arsenic/chromium/lead (Method 6020B), cyanide (Method 9010C/9012B), and alkalinity (Method 2320B).

Long-term groundwater monitoring continues at the Site. Groundwater analytical data are included in Appendix I. Sampling documentation is included in Appendix H. Groundwater purged during the July 2021 sampling was containerized at the Site facility and is awaiting off-site disposal in 2022. The groundwater disposal receipt will be appended to the 2022-2023 PRR.

2.2.6 Stormwater Pond Monitoring

Hydro-Air staff collect water samples each month from four locations in the Site stormwater pond (see Figure 2 for monitoring locations) and take pH and temperature readings on the samples using a hand-held probe. Readings are not collected when the pond is frozen. In accordance with the SMP, samples collected from the midpoint of the main pond and near the pond outlet pipe are combined in the field and analyzed as a composite sample. Stormwater pond sampling continues at the Site. Sampling data are included in Table V.

2.3 IC/EC CERTIFICATION

Based on site visits and interviews with site personnel, the IC/ECs are herein certified by Robert Daigler, designated representative of Hydro-Air Components, Inc., and Glenn M. White, CHMM working for Haley & Aldrich of New York on behalf of Hydro-Air Components, Inc. as the Qualified Environmental Professional. Refer to Appendix A for a copy of the appropriate certification documentation.

3. Operations, Maintenance, & Monitoring Plan Compliance Report

Monitoring activities conducted during this reporting period consisted of an annual inspection, annual groundwater sampling, ORC well inspection and replacement of ORC, review of sub-slab vacuum measurements of the ASD, and stormwater pond monitoring. Monitoring activities were conducted in accordance with the SMP. The results of the groundwater and stormwater pond quality monitoring, and operations, maintenance, and monitoring of the ORC wells and ASD are further described below.

3.1 ANNUAL INSPECTION

A Haley & Aldrich representative conducted an annual certification inspection of the Site on 7 March 2022, in accordance with the SMP. The Environmental Inspection Form summarizing observations is included in Appendix C, and representative Site photographs are included in Appendix D.

3.2 GROUNDWATER MONITORING

Groundwater monitoring was conducted in July 2021 and the results are presented on summary Tables I through IV, and Figures 3 through 5. Figure 3 presents the groundwater elevation contours for the date of sampling as well as approximate groundwater flow direction. Figure 4 is a posting map of the groundwater parameters of interest (benzene, arsenic, and cyanide). Figure 5 illustrates historical trends for the groundwater parameters of interest using data from this monitoring period as well as historical monitoring periods.

The July 2021 groundwater samples were collected by NW Contracting of Alden, New York, and analyzed by Alpha Analytical, located in Westborough, MA. These laboratory data have been submitted as an EQuIS® electronic data deliverable (EDD) to the NYSDEC and the laboratory report is included in Appendix I. Groundwater sampling field forms are provided in Appendix H, and historical groundwater monitoring data tables from the period of 2015 through 2021, are presented in Appendix J.

3.2.1 Groundwater Elevation Data

The groundwater contour map included as Figure 3 was prepared using the static groundwater elevations measured at the 5 monitoring wells on 12 July 2021. Current and historical groundwater elevation data are including in Table IV. Due to anomalous groundwater elevation readings at the ORC wells (specifically mounding in the vicinity of A4-ORC-2), these elevations were excluded from contouring. Groundwater mounding around ORC wells A4-ORC-2 and A4-ORC-3 has been observed in prior years and may be influenced by backfilling in portions of the site. Consistent with previous monitoring periods, groundwater elevations indicate that shallow groundwater flow is generally to the southeast across the Site.

3.2.2 Parameters of Interest

The SMP indicates that groundwater quality parameters exceeding applicable NYSDEC Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Class GA – June 1998 (Class GA GWQS) for two consecutive events should be considered to be of interest. In 2007, benzene, ethylbenzene, naphthalene, toluene, lead, chromium, cyanide, and arsenic were parameters of interest at the Site. Currently, however, only benzene, cyanide, and arsenic remain parameters of interest per

the SMP. During the 2021 sampling, cyanide was elevated over Class GA GWQS at wells A4-MW-5R and A4-MW-9. Benzene was elevated over Class GA GWQS at wells A4-MW-5R, A4-MW-7R, A4-MW-8R, A4-MW-9, and A4-MW-10. Arsenic was elevated over Class GA GWQS at A4-MW-8R.

Concentrations for each parameter of interest measured in monitoring wells sampled in July 2021 are shown on Figure 4. Historical monitoring data and moving average trendlines for current parameters of interest at wells A4-MW-5R, A4-MW-7R, A4-MW-8R, A4-MW-9, and A4-MW-10 are shown on Figure 5.

3.2.2.1 A4-MW-5R

Cyanide remains a parameter of interest at monitoring well A4-MW-5R, where a concentration of 465 µg/L was detected in July 2021. Cyanide concentrations have exceeded Class GA GWQS since 2007 and detected concentrations have fluctuated between 103 µg/L and 920 µg/L during this period (see Figure 5), resulting in a slight increasing trend over time. Benzene was detected in monitoring well A4-MW-5R at a concentration (7.1 µg/L) above Class GA GWQS in July 2021. Benzene was detected above Class GA GWQS for two consecutive monitoring periods and is now a parameter of interest at monitoring well A4-MW-5R.

3.2.2.2 A4-MW-7R

Benzene is now considered a parameter of interest at monitoring well A4-MW-7R due to the detection of benzene above Class GA GWQS for two consecutive monitoring periods. Benzene was detected at a concentration of 140 µg/L in August 2020, and 17 µg/L in July 2021. Concentrations of other monitored parameters did not exceed Class GA GWQS in July 2021

3.2.2.3 A4-MW-8R

Benzene and arsenic remain parameters of interest at monitoring well A4-MW-8R, where concentrations of 13,000 µg/L benzene and 25.08 µg/L arsenic were detected in July 2021. Concentrations of benzene have exceeded Class GA GWQS for 16 consecutive monitoring periods. Benzene concentrations have generally decreased over time. Arsenic concentrations detected in July 2021 exceeded Class GA GWQS and have exceeded Class GA GWQS for 14 of the previous 15 monitoring periods. Arsenic concentrations have shown a stable to slightly decreasing trend over time.

3.2.2.4 A4-MW-9

Benzene and cyanide remain parameters of interest at well A4-MW-9. Concentrations of benzene (18 µg/L) and cyanide (896 µg/L) detected in July 2021 decreased from concentrations detected in August 2020 but continue to exceed Class GA GWQS.

3.2.2.5 A4-MW-10

Benzene is now considered a parameter of interest at well A4-MW-10 following its detection at concentrations exceeding Class GA GWQS for 2 consecutive monitoring periods. Benzene was detected in August 2020 (370 µg/L) and July 2021 (9.3 µg/L).

3.2.2.6 Trend Assessment

Within an overall decreasing trend since 2007, there were increases in cyanide concentrations at A4-MW-9 in the 2018 and 2020 sampling events. Although cyanide increased noticeably in 2020, it decreased in 2021. Another decreasing cyanide concentration in 2022 would suggest cyanide concentrations at A4-MW-9 are beginning to equilibrate, while another increase beyond the concentrations detected in 2020 would suggest at least a short-term increasing trend (still within an overall decreasing trend since 2007). Per the Shallow Groundwater Elevation Map attached as Figure 3, A4-MW-9 functions as an upgradient well reflecting conditions emanating from off-site on the adjacent Steelfields III site.

Benzene concentrations in every groundwater sample increased significantly in 2020, and then in 2021, decreased in every well except A4-MW-8R. Particularly in A4-MW-7R and A4-MW-10, the 2020 results appear anomalously high, and perhaps not coincidentally, correspond to a change in sampling contractor and analytical laboratory. The current and previous sampling and analytical contractors have used similar methods and analytical techniques in accordance with the SMP. Currently, we cannot identify a readily apparent cause for the increasing benzene trend trends at A4-MW-7R, A4-MW-10, & A4-MW-5R. As with the general decreasing trends in cyanide in A4-MW-9 since 2007, the recent increases in benzene concentrations at A4-MW-7R, A4-MW-10, & A4-MW-5R rely largely on the results from the 2020 and 2021 sampling events and occur within overall declining trends since 2007. The results of the next two events will be integral for determining trends for both cyanide in A4-MW-9 and benzene in A4-MW-7R, A4-MW-8R, A4-MW-10, and A4-MW-5R.

Groundwater monitoring activities will continue in the future following the annual schedule in accordance with the SMP. The next groundwater sampling event is tentatively scheduled for July 2022.

3.3 ORC WELL MAINTENANCE AND MONITORING

The ORC® socks were replaced on 7 July 2021 and 17 March 2022. The three ORC® wells were monitored during the annual sampling event on 7 July 2021, in accordance with the SMP. The ORC wells are currently intact and operational, and the seals appear to have integrity.

ORC field parameter monitoring results are presented in Table II. The pH in the ORC wells continues to fluctuate. The pH at A4-ORC-1 increased slightly between August 2020 and July 2021 (from 3.61 to 3.66). The pH at A4-ORC-2 increased (from 3.17 to 3.21). The pH at A4-ORC-3 decreased (from 5.13 to 4.09). Overall, the pH within the three ORC® wells continues to remain low, and as a result of the low pH conditions, the ORC® is likely being inhibited from enhancing biodegradation of residual contaminants.

Note that the groundwater monitoring wells tested surround the Tar/Blue Soil Fill Excavation Limits where the ORC socks have been placed. The pH of the groundwater in the surrounding monitoring wells tested ranged from 6.55 to 7.47.

3.4 SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS, MAINTENANCE, AND MONITORING

The ASD system continuously operates at the Site and is monitored monthly by Hydro-Air staff, who record the system vacuum readings and operations data on the maintenance form provided in the

NYSDEC-approved SMP. These data are available on-site. The ASD system and monitoring documentation for the reporting period is provided in Appendix F.

The ASD system was evaluated on 7 March 2022 by Haley & Aldrich as part of the annual Site inspection. The evaluation included confirmation of vacuum measurements at the five (5) existing monitoring points located within the facility. Overall, the ASD system operation is consistent with prior operations, and is operating acceptably and consistent with its intended function, design and construction.

Although apparently not adversely impacting sub-slab vacuum, cracks continue to be observed (see the photo log in Appendix D) in the linoleum tile and underlying concrete slab in the western portions of the Hydro-Air offices. Cracks observed during the previous 2020-2021 PRR reporting period appeared to extend underneath adjacent carpeted flooring. In March 2022, during the 2021-2022 PRR reporting period, Hydro-Air personnel removed selected linoleum floor tiles and adjacent carpeting to assess the condition of the underlying floor slab. Haley & Aldrich and Hydro-Air personnel observed unanticipated expansion joint separation, with selected joints open up to 5 inches below the concrete slab surface. Hydro-Air personnel filled the expansion joints hydraulic cement and sealed the joint surfaces with self-leveling polyurethane caulk. Hydro-Air intends to continue monitoring the linoleum floors throughout the office areas and will seal cracks if the linoleum rips and cracks greater than ¼-inch appear.

3.5 STORMWATER POND MONITORING

Site stormwater pond water quality (pH and temperature) conditions were monitored monthly at four sampling locations (see Figure 2) by Hydro-Air staff. Stormwater pond monitoring data are summarized in Table V. The results of the pond monitoring appear generally consistent with the findings from previous sampling events, and measured pH values within the Northern Embayment and Main Pond did not exceed NYSDEC TOGS 1.1.1 ambient water quality guidance values of pH 8.5 (guidance value) during the PRR monitoring period.

Throughout the 2021-2022 PRR monitoring period, pH measured at the Discharge Pipe sampling location ranged from 10.0 to 12.0, exceeding the guidance value during each sampling event. However, because neither the Northern Embayment nor Main Pond samples exceeded the guidance value during the reporting period, precautionary measures to mitigate potential for an inadvertent exposure to pond water, as described in the SMP, are not needed.

4. Conclusions and Recommendations

The following are conclusions and recommendations for the Site from the results of monitoring activities completed during the reporting period:

- The engineering controls (groundwater monitoring, existing cover system, ASD system, ORC wells) were operated and maintained during the reporting period. During the reporting period linoleum tiles and carpeting in selected office areas of the Hydro-Air building were removed and revealed several locations with unanticipated expansion joint separation in the underlying concrete floor slab. These expansion joints represented potential vapor intrusion pathways. Hydro-Air personnel filled and sealed these expansion joints. Hydro-Air intends to continue monitoring the linoleum and carpeted floors throughout the western office area and will seal cracks if the linoleum flooring rips and cracks greater than ¼-inch appear.
- The Environmental Easement remains in place. Groundwater has not been used at the Site during the reporting period. Site land use has remained for industrial use only during the reporting period.
- Groundwater monitoring results indicate benzene, cyanide and arsenic continue to remain parameters of interest at selected Site groundwater monitoring wells.

References

1. Division of Water Technical and Operational Guidance Series (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, prepared by NYSDEC, dated June 1998.

2. Final Engineering Report for Hydro-Air Components, Inc., Former Steelfields Area IV, Voluntary Cleanup Program & Brownfields Cleanup Program, NYSDEC BCP Site #C915204, prepared by TurnKey Environmental Restoration, LLC., dated November 2007.

3. Site Management Plan for Hydro-Air Components, Inc., Former Steelfields Area IV Parcel, Brownfields Cleanup Program, NYSDEC Site #C915204, prepared by TurnKey Environmental Restoration, LLC., dated November 2007, amended 25 March 2014.

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TABLES

TABLE I
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
HYDROAIR COMPONENTS, INC
BUFFALO, NEW YORK

Location Sample Date	Ambient Water Quality Standards	A4-MW-10 07/12/2021	A4-MW-5R 07/12/2021	A4-MW-7R 07/12/2021	A4-MW-8R 07/12/2021	A4-MW-9 07/12/2021
Inorganic Compounds (ug/L)						
Arsenic, Total	25	**4.33**	**8.2**	**3.64**	**25.08** [A]	**8.58**
Chromium, Total	50	**0.42 J**	**0.77 J**	**1.95**	**0.74 J**	**1.37**
Cyanide, Total	200	**43**	**465** [A]	**147**	**106**	**896** [A]
Lead, Total	25	**0.67 J**	**0.36 J**	ND (1)	ND (1)	ND (1)
Other						
Alkalinity, Total (as mg CaCO3/L)	-	**709**	**438**	**258**	**645**	**390**
Volatile Organic Compounds (ug/L)						
1,2,4-Trimethylbenzene	5	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
1,3,5-Trimethylbenzene	5	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
2-Phenylbutane (sec-Butylbenzene)	5	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
Benzene	1	**9.3** [A]	**7.1** [A]	**17** [A]	**13000** [A]	**18** [A]
Cymene (p-Isopropyltoluene)	-	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
Ethylbenzene	5	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
Isopropylbenzene (Cumene)	5	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
m,p-Xylenes	5	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
Methyl Tert Butyl Ether (MTBE)	10	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
Naphthalene	10	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
n-Butylbenzene	5	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
n-Propylbenzene	5	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
o-Xylene	5	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
tert-Butylbenzene	5	ND (2.5)	ND (2.5)	ND (2.5)	ND (250)	ND (2.5)
Toluene	5	ND (2.5)	**0.72 J**	ND (2.5)	ND (250)	ND (2.5)

Notes:
1. Results in **bold** were detected.
2. [A] - Results in red exceed NYSDEC Ambient Water Quality Standards and Guidance Values - Class GA – June 1998
3. ND - Not detected above the reporting limit
   J - Estimated value

TABLE II
SUMMARY OF ORC IN-SITU REMEDIATION WELL FIELD PARAMETER MEASUREMENTS
HYDRO-AIR COMPONENTS, INC
BUFFALO, NEW YORK

Location	Sample Date	Parameter (Unit):	Conductivity (µS)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (s.u.)	Temperature (Deg C)	Turbidity (NTU)	Alkalinity (mg/L)	Appearance (visual)
A4-ORC-1	7/12/2007		3110	8.15	235	2.34	22.9	190	38	brown
	2/4/2008		36600	10.49	155	3.78	3.3	23.1	170	yellow-brown
	6/3/2008		34500	7.26	209	3.49	13.6	176	-	yellow-brown
	6/26/2009		28000	1.55	330	5	17	6.17	-	amber
	6/29/2010		28300	0.44	344	4.07	18	9	-	dark amber
	6/28/2011		27300	0.54	58	3.5	17.8	8.2	-	amber
	7/6/2012		26800	0.49	190	2.9	19.9	2.46	-	amber
	7/2/2013		27400	0.67	267	3.01	18.6	3.2	-	amber
	6/3/2014		82790	0.84	-41	6.13	17.1	33.1	-	amber
	6/26/2015		22000	0.95	250	2.93	18.6	1.17	-	amber
	6/23/2016		28000	0.78	227	3.66	16	2.6	-	amber
	6/23/2017		23500	0.81	178	2.83	17.1	0.82	-	amber
	6/26/2018		21270	0.7	39	5.7	16.9	2.53	-	amber
	12/19/2019		26370	3.64	217	5.21	5.6	7.9	-	-
	8/6/2020		22400	1.36	188	3.61	20.54	235	1000	-
	7/7/2021		25800	6.1	220	3.66	14.43	14.3	0	-
A4-ORC-2	7/12/2007		3880	9.05	383	1.96	19.1	130	6	brown
	2/4/2008		41700	0.33	358	1.73	6.4	99.8	-	-
	6/3/2008		46500	7.78	387	1.72	14.2	62.3	-	dark brown
	6/26/2009		34500	1	466	4.31	16.1	50.8	-	tan/amber
	6/29/2010		40000	0.46	443	2.64	17.5	5.01	-	amber
	6/28/2011		17800	0.34	352	2.3	16	29.1	-	amber
	7/6/2012		27500	0.53	388	1.4	20.1	11.63	-	dark amber
	7/2/2013		27300	0.32	461	1.81	17.84	18.6	-	amber
	6/3/2014		298800	-0.5	398	2.37	16	19.7	-	amber
	6/26/2015		32100	0.65	355	2.14	17.9	3.27	-	amber
	6/23/2016		34590	0.56	288	3.09	16.6	3.91	-	amber
	6/23/2017		22100	0.56	210	2.68	17.8	0.65	-	amber
	6/26/2018		20580	0.46	318	3.91	16.9	4.8	-	amber
	12/19/2019		23110	4.32	389	2.95	4.8	13.7	-	orange tint
	8/6/2020		27200	0.24	281	3.17	21.93	204	1000	-
	7/7/2021		39400	3.35	238	3.21	17.42	21.8	0	-
A4-ORC-3	7/12/2007		3440	9.99	140	2.71	17.9	780	56	brown
	2/4/2008		39700	5.53	263	3.25	7.2	>800	357	-
	6/3/2008		38200	1.05	235	3.45	11.7	92.7	-	yellow-brown
	6/25/2009		32900	0.47	134	5.39	19.72	152	-	orange
	6/29/2010		28000	1.63	174	5.55	15.6	248	-	orange
	6/28/2011		28800	1.95	174	5.75	15.3	87.5	-	orange
	7/6/2012		26900	1.38	296	3.89	18.5	68.9	-	orange
	7/2/2013		19700	0.35	302	4.96	20.5	39	-	amber
	6/3/2014		263200	0.23	241	3.4	17.2	4.7	-	amber
	6/26/2015		21490	0.25	217	4.02	17.5	6.73	-	amber
	6/23/2016		23900	0.2	127	4.07	16	1.7	-	amber
	6/23/2017		21400	0.49	110	5.38	17.2	2.72	-	amber
	6/26/2018		28270	0.13	239	3.21	17.8	1.95	-	amber
	12/19/2019		24270	1.99	41	5.57	7.4	1297	-	red/orange
	8/6/2020		14100	0.85	145	5.13	23.02	201	1000	-
	7/7/2021		17400	8.42	259	4.09	16.28	356	180	-

Notes:
1. EnSol Environmental Solutions, Ltd. conducted the 25 June 2007 sampling event.
2. Haley & Aldrich completed the February and June 2008 groundwater monitoring events.
3. TestAmerica Buffalo conducted the 25-26 June 2009, 28-29 June 2010, 28-29 June 2011, 5-6 July 2012, 1-2 July 2013, 2-3 June 2014, 25-26 June 2015, 22-23 June 2016, 22-23 June 2017, 25-26 June 2018, and 19 December 2019 sampling events. NW Contracting conducted the August 2020 and July 2021 sampling events.
4. This table has been adapted from the Draft First Semi-Annual Long-Term Groundwater Monitoring Report (June 2007) by Benchmark Environmental Engineering & Science, PLLC.
5. - indicates not analyzed.

TABLE III
SUMMARY OF MONITORING WELL FIELD PARAMETER MEASUREMENTS
HYDRO-AIR COMPONENTS, INC
BUFFALO, NEW YORK

Location	Sample Date	Parameter (Unit): / Class GA GWQS/GV:	Conductivity (µS) na	Dissolved Oxygen (mg/L) na	Oxidation Reduction Potential (mV) na	pH (s.u.) 6.5-8.5	Temperature (Deg C) na	Turbidity (NTU) na	Alkalinity (mg/L) na	Carbon Dioxide (mg/L) na	Appearance (visual) na
A4-MW-5R	6/25/2007		2265	-	70	6.55	15.9	36	-	-	clear
	6/25/2007		2287	-	74	6.61	17.4	22.5	-	-	clear
	2/1/2008		2740	0.41	-73	6.8	6.3	13.5	765	170	-
	6/2/2008		3090	0.37	-142	6.71	12.3	9.4	660	490	orange tint
	6/25/2009		1920	0.3	-48	6.82	16.87	5.86	629	155	lt.brown tint
	6/28/2010		2390	0.37	-39	7.36	18.1	6.42	780	25	tan tint
	6/28/2011		2590	0.65	-183	7.2	15.5	3.2	680	700	slight yellow tint
	7/5/2012		2570	0.92	-22	6.77	19.07	1.36	884	50	-
	7/1/2013		8240	0.53	-7	**6.14**	15.5	3.9	289	42	-
	6/2/2014		858	0.68	37	7.05	16.4	4.41	357	42.5	-
	6/25/2015		1541	0.67	-73	7.18	15.3	2.86	-	125	-
	6/22/2016		1547	0.74	57	7.27	15.2	3.77	-	160	-
	6/22/2017		1022	0.79	142	6.63	15.7	3.29	-	120	-
	6/25/2018		1234	3.2	35	7.39	18	1.8	-	220	-
	12/19/2019		696	6.26	-6	7.43	9.4	3.7	-	-	clear
	8/7/2020		886	0.4	-66	**6.15**	20.61	0	550	-	slight gray
	7/12/2021		869	4.24	-89	7.47	15.13	1.4	397	192	-
A4-MW-7R	6/25/2007		3276	-	-73	**6.17**	18	61	-	-	cloudy
	6/25/2007		3150	-	-98	**6.33**	18.1	21.6	-	-	-
	1/31/2008		3280	0.59	-146	6.93	6.5	31.2	340	260	-
	6/2/2008		4290	0.35	-91	**5.97**	11.4	29.8	280	0	orange tint
	6/25/2009		3740	0.15	-40	**6.31**	18.34	19.3	323	425	yellow tint
	6/28/2010		4950	0.11	7	**6.02**	15.8	15.04	420	445	yellow tint
	6/28/2011		4950	0.22	-82	**5.85**	16.6	9.5	400	375	slight sheen in bucket
	7/5/2012		4990	0.45	4	**5.23**	19.4	6.17	289	375	sheen
	7/1/2013		4946	0.34	12	**4.76**	16.02	13.9	289	389	-
	6/2/2014		4726	0.33	-37	**5.61**	14.6	16.45	221	275	-
	6/25/2015		3395	0.31	-5	**5.67**	13.6	3.58	-	275	-
	6/22/2016		5200	0.17	-30	7.1	14.1	2.9	-	300	-
	6/22/2017		3086	0.14	-29	**6.49**	14.4	3.26	-	290	-
	6/26/2018		5105	0.27	-21	7.12	13.5	0.78	-	305	-
	12/19/2019		4507	3.16	12	**5.83**	8.9	16.5	-	-	clear
	8/6/2020		3390	0.43	0.49	**5.69**	15.8	0	310	-	-
	7/12/2021		2600	3.16	-74	6.6	13.38	0	323	200	-
A4-MW-8R	6/25/2007		4102	-	-50	**6.38**	17.3	79	-	-	cloudy
	6/25/2007		4001	-	-65	**6.47**	18.4	43.6	-	-	cloudy
	1/31/2008		4630	0.67	-78	**6.31**	7	84.6	748	0	-
	6/2/2008		4840	0.32	-68	**6.02**	12.5	27.5	600	0	clear
	6/26/2009		4670	0.26	56	6.5	16.3	8.54	816	550	clear
	6/28/2010		4730	0.14	-22	6.51	18.8	3.88	840	75	clear
	6/28/2011		4650	0.37	-67	6.84	17	1.5	920	160	clear
	7/5/2012		4510	0.34	-35	**5.87**	19.5	4.2	799	195	-
	7/1/2013		3490	0.21	-6	**5.69**	15.68	1.9	765	175	-
	6/2/2014		3087	0.71	-	**6.49**	16.6	18.91	714	175	-
	6/25/2015		4188	0.71	-40	**6.34**	15.2	3.14	-	180	-
	6/22/2016		4767	0.48	-32	6.59	13.4	1.93	-	195	-
	6/22/2017		2965	0.49	-39	6.51	14	2.66	-	210	-
	6/25/2018		4633	3.96	-65	**6.45**	16.4	4.12	-	210	-
	12/19/2019		4543	5.21	-35	7.12	8.4	4.4	-	-	clear
	8/7/2020		4630	1.3	-49	**5.53**	15.07	0	760	-	slight gray
	7/12/2021		3980	3.85	-57	6.55	12.81	0.5	929	156	slight yellow

TABLE III
SUMMARY OF MONITORING WELL FIELD PARAMETER MEASUREMENTS
HYDRO-AIR COMPONENTS, INC
BUFFALO, NEW YORK

Location	Sample Date	Parameter (Unit): / Class GA GWQS/GV:	Conductivity (µS) na	Dissolved Oxygen (mg/L) na	Oxidation Reduction Potential (mV) na	pH (s.u.) 6.5-8.5	Temperature (Deg C) na	Turbidity (NTU) na	Alkalinity (mg/L) na	Carbon Dioxide (mg/L) na	Appearance (visual) na
A4-MW-9	6/25/2007		11150	-	207	**3.99**	18.5	383	-	-	turbid
	6/25/2007		11200	-	206	**3.96**	18.3	69.3	-	-	turbid
	1/31/2008		8280	0.95	127	**4.23**	6.4	36.7	68	0	-
	6/2/2008		11900	7.93	157	**3.9**	11.4	10.9	60	0	clear
	6/26/2009		9490	0.2	137	**5.91**	15.7	10.05	34	300	yellow tint
	6/28/2010		8700	0.1	83	**4.53**	17.6	4.92	31	315	yellow tint
	6/28/2011		3440	0.24	-42	**5.85**	18.1	5	40	513	clear
	7/5/2012		4820	0.29	-23	**5.15**	21.2	18.9	68	581	-
	7/1/2013		14400	0.12	-20	**6.31**	15.63	5.23	542	289	-
	6/2/2014		1692	0.71	-93	7.15	14.1	12.99	187	542	-
	6/25/2015		1962	0.7	-139	7.48	15.8	2.06	-	485	-
	6/22/2016		2187	0.54	-41	7.71	14.3	3.54	-	495	-
	6/22/2017		2006	0.57	-18	7.36	14.6	3.18	-	285	-
	6/25/2018		4035	2.29	-87	6.8	14.5	2.22	-	525	-
	12/19/2019		1321	6.27	-72	**8.63**	6.2	8.4	-	-	orange tint
	8/7/2020		4290	0.33	-68	**5.8**	19.75	2.5	650	-	gray tint
	7/12/2021		3230	8.01	-103	6.91	12.91	0.4	491	206	-
A4-MW-10	6/25/2007		3009	-	-81	6.73	16.7	16.9	-	-	clear
	6/25/2007		2931	-	-91	6.88	18.4	22.8	-	-	clear
	6/2/2008		3140	0.46	-24	6.4	11.1	43	560	422	clear
	6/25/2009		2400	0.15	-5	6.65	17	10.8	969	505	clear
	6/28/2010		2110	0.1	-38	7.13	18	7.5	1100	45	clear
	6/28/2011		2340	0.33	-98	6.88	16.1	5.3	1160	65	clear
	7/5/2012		2440	0.39	-56	**6.41**	19.5	6.54	1105	55	-
	7/1/2013		2820	0.46	7	**6.04**	14.81	6.5	2773	55	-
	6/2/2014		2317	0.39	-111	7.04	17.9	1.68	1105	47	-
	6/25/2015		2440	0.4	-79	6.9	13.1	1.54	-	195	-
	6/22/2016		2986	0.27	-71	7.23	13	0.98	-	200	-
	6/22/2017		2883	0.26	-14	6.82	16.1	3.89	-	210	-
	6/25/2018		3307	3.56	-79	7	16.3	4.86	-	600	-
	12/19/2019		3172	4.35	-49	6.88	7.5	40.6	-	-	orange tint
	8/6/2020		1960	0.53	-80	**6.19**	14.93	12.9	1030	-	clear
	7/12/2021		1310	2.66	-101	7.4	13.47	2.9	824	570	-

Notes:
1. Benchmark Environmental Engineering & Science conducted the 25 June 2007 sampling event.
2. Haley & Aldrich completed the February and June 2008 groundwater monitoring events.
3. TestAmerica Buffalo conducted the 25-26 June 2009, 28-29 June 2010, 28-29 June 2011, 5-6 July 2012, 1-2 July 2013, 2-3 June 2014, 25-26 June 2015, 22-23 June 2016, 22-23 June 2017, 25-26 June 2018, and 19 December 2019 sampling events. NW Contracting conducted the August 2020 and July 2021 sampling events.
4. NYSDEC Class "GA" Groundwater Quality Standards (GWQS) as published in NYSDEC Ambient Water Quality Standards/Guidance Values and Groundwater Effluent Limitations (June 1998).
5. na indicates no Class GA GWQS or GV has been established for this compound.
6. - indicates not analyzed.
7. **Bold** results indicate results outside the range of the GWQS/GV.
8. This table has been adapted from the Draft First Semi-Annual Long-Term Groundwater Monitoring Report (June 2007) by Benchmark Environmental Engineering & Science, PLLC

TABLE IV
SUMMARY OF GROUNDWATER DEPTH AND ELEVATION
HYDRO-AIR COMPONENTS, INC
BUFFALO, NEW YORK

	AREA IV - Monitoring Wells										AREA IV - In-Situ Remediation Wells					
Monitoring Location	A4-MW-5R		A4-MW-7R		A4-MW-8R		A4-MW-9		A4-MW-10		A4-ORC-1		A4-ORC-2		A4-ORC-3	
TOR Elevation[1] (fmsl)	584.23		584.95		586.53		587.1		586.55		584.75		585.11		585.06	
Total Depth[2] (fbTOR)	11.2		13.6		15.2		13.5		15.55		14.4		14.62		14.3	
	DTW	GW Elev	DTW	GW Elev	DTW	GW Elev	DTW	GW Elev	DTW	GW Elev	DTW	GW Elev	DTW	GW Elev	DTW	GW Elev
June/July 2007	4.89	579.34	4.36	580.59	5.51	581.02	7.73	579.37	7.15	579.4	9.27	575.48	6	579.11	6.68	578.38
Jan/Feb 2008	4.47	579.76	3.52	581.43	5.42	581.11	5.8	581.3	NM	NM	4.53	580.22	6.27	578.84	5.25	579.81
June 2008	4.69	579.54	3.85	581.1	5.3	581.23	6.11	580.99	6.7	579.85	3.97	580.78	3.87	581.24	4.66	580.4
June 2009	4.64	579.59	3.72	581.23	5.16	581.37	6.56	580.54	6.96	579.59	4.39	580.36	2.82	582.29	5.16	579.9
June 2010	4.4	579.83	3.28	581.67	4.6	581.93	4.58	582.52	6.29	580.26	2.6	582.15	1.92	583.19	3.57	581.49
June 2011	4.38	579.85	3.18	581.77	4.49	582.04	4.39	582.71	5.69	580.86	2.65	582.1	0.96	584.15	3.55	581.51
July 2012	5.11	579.12	4.52	580.43	8.2	578.33	4.39	582.71	8.41	578.14	4.66	580.09	2.08	583.03	5.82	579.24
July 2013	4.5	579.73	3.62	581.33	3.74	582.79	4.45	582.65	6.08	580.47	2.91	581.84	1.23	583.88	3.55	581.51
June 2014	4.61	579.62	3.73	581.22	4.99	581.54	4.87	582.23	6.37	580.18	3.53	581.22	1.52	583.59	2.9	582.16
June 2015	4.71	579.52	3.64	581.31	4.98	581.55	4.92	582.18	6.3	580.25	3.53	581.22	1.52	583.59	2.9	582.16
June 2016	4.93	579.3	4.36	580.59	5.73	580.8	6.51	580.59	8.13	578.42	4.65	580.1	2.24	582.87	5.62	579.44
June 2017	4.63	579.6	3.89	581.06	5.24	581.29	5.61	581.49	7.08	579.47	3.81	580.94	1.37	583.74	5.28	579.78
June 2018	4.61	579.62	3.5	581.45	4.89	581.64	5.62	581.48	6.38	580.17	4.95	579.8	1.18	583.93	3.81	581.25
Dec 2019	4.32	579.91	3.05	581.9	4.54	581.99	3.95	583.15	5.7	580.85	2.94	581.81	3.41	581.7	3.03	582.03
Aug 2020	5	579.23	3.6	581.35	5	581.53	6.05	581.05	6.65	579.9	4.42	580.33	1.5	583.61	6	579.06
July 2021	4.81	579.42	3.38	581.57	5	581.53	6.08	581.02	5.99	580.56	4.48	580.27	1.18	583.93	5.92	579.14

Notes:
1. Elevations at most wells were surveyed on June 5, 2007 and at A4-MW-5R on August 1, 2007 by Niagara Boundary.
2. Total depths measured in July 2021 by NW Contracting personnel.
3. DTW measurements were obtained on January 31, 2008, February 1, 2008, February 4, 2008, June 2, 2008 and June 3, 2008 by Haley & Aldrich of New York, based on surveyed well elevations.
4. June/July 2007 DTW measurements were obtained by Benchmark Environmental Engineering & Science and EnSol Environmental Solutions, Ltd. based on surveyed well elevations.
5. DTW measurements were obtained on June 25, 2009, June 28, 2010, June 28, 2011, July 5, 2012, July 1, 2013, June 2, 2014, June 25, 2015, June 22, 2016, June 22, 2017, 25-26 June 2018, and December 2019 by Test America Buffalo, based on surveyed well elevations.
6. DTW measurements were obtained in August 2020 and July 2021 by NW Contracting.
7. This table has been adapted from the Draft First Semi-Annual Long-Term Groundwater Monitoring Report (June 2007) by Benchmark Environmental Engineering & Science, PLLC.
8. DTW measured in fb TOR. GW Elev shown in (fmsl).

Definitions:
DTW = depth to water
fmsl = feet above mean sea level
fbTOR = feet below top of riser
TOR = top of riser
GW Elev = Groundwater Elevation
ORC = oxygen releasing compound
R = replacement well

Table V - 2021-2022 PRR - Stormwater Pond Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, New York

In accordance with the Corrective Measures Report (dated 14 December 2012) and the Revised Site Management Plan (dated 25 March 2014) the following pond paramaters have been monitored:

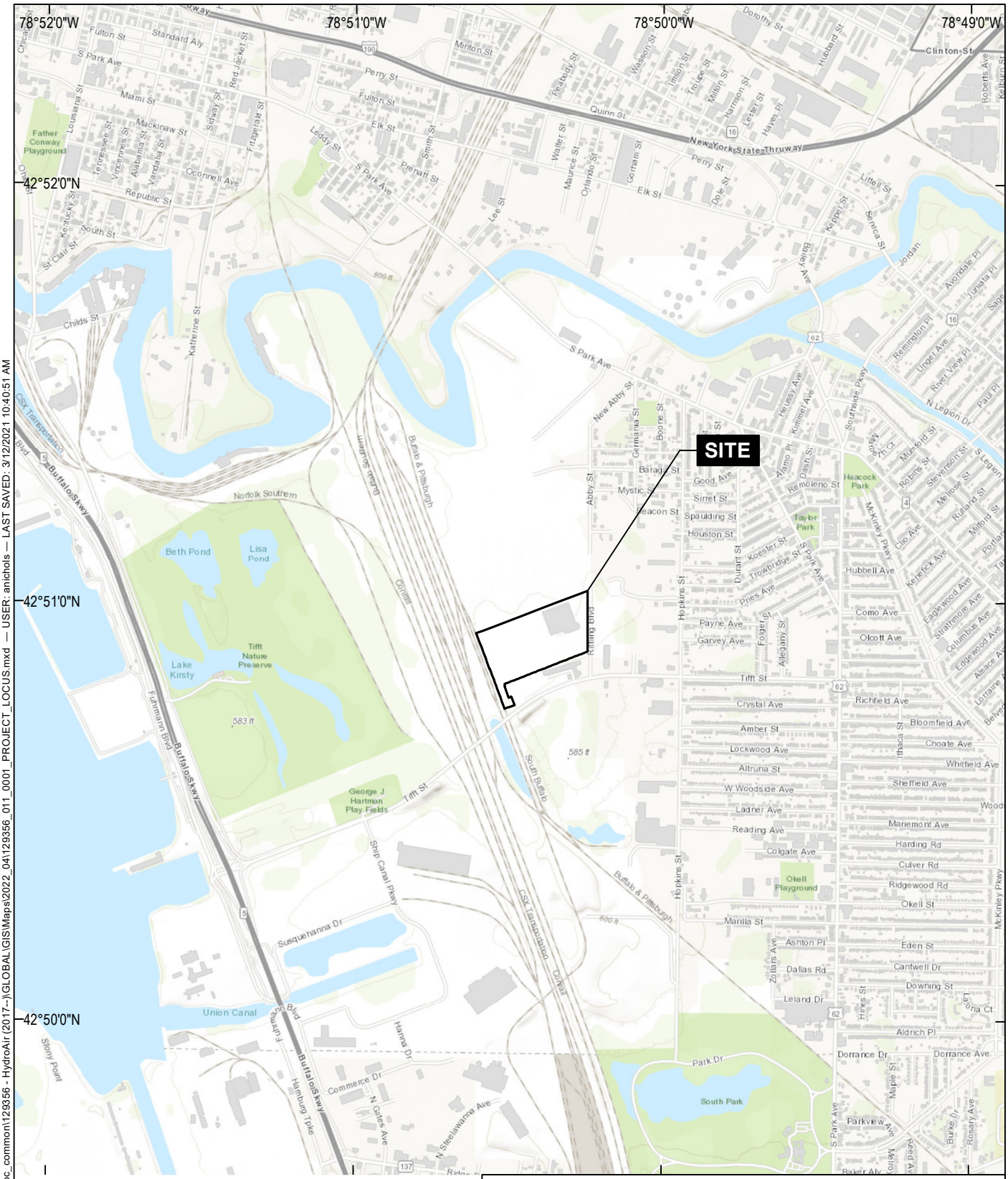
Data Collection Completed By:	Date of Measurment (DD/MM/YR)	Time of Measurement	Estimated Quantity of Water Discharged (Gallons)[3]	Measurement Location						Conditions at Pond (color, vegetation, odor, frozen, etc.)
				Discharge Pipe		Northern Embayment		Main Pond (Combined Sample)[1]		
				pH	Temp (F)	pH	Temp (F)	pH	Temp (F)	
Dale Barto	4/27/2021	6:45 AM	88,820	11.00	46	7.10	45	6.00	45	Clear
Dale Barto	5/25/2021	9:00 AM	81,090	12.00	77	7.00	73	6.50	70	Clear
Dale Barto	6/30/2021	9:00 AM	56,470	10.00	73	7.00	72	7.50	77	Clear
Dale Barto	7/28/2021	9:30 AM	102,800	12.00	67	6.00	67	6.50	68	Clear
Dale Barto	8/26/2021	9:00 AM	85,800	10.0	77	6.0	78	7.0	78	Clear
Dale Barto	9/30/2021	12:00 PM	112,000	11.0	64	6.0	58	6.5	62	Clear
Dale Barto	10/30/2021	9:00 AM	172,600	10.0	52	6.0	53	8.0	52	Clear
Dale Barto	11/29/2021	8:00 AM	197,300							Frozen
Dale Barto	12/22/2021	9:00 AM	177,300							Frozen
Dale Barto	1/31/2022	9:00 AM	204,000							Frozen
Dale Barto	2/22/2022	9:00 AM	481,600							Frozen
Dale Barto	3/28/2022	9:30 AM	177,300							Frozen
Total Reporting Period Discharge:			1,937,080							

All pH values will be evaluated against the NYSDEC TOGS 1.1.1 ambient water quality guidance value of pH 8.5 selected for protection of public health.
Exceedance of the guidance value (8.5) for > 3 consecutive monitoring events (combined sample) will trigger enhancements as descirbed in Section IV of the SMP.

Notes or Other Observations:

1. Combined sample represents the combination of the sample point at the midpoint of the main pond and the sample point near the pond outlet pipe of the main pond. These pond samples are combined in the field to provide a representative pH value for the main pond area. If separate measurments are recorded for the main pond and outlet pipe, the measurement values are averaged.
2. pH measurements were collected using a hand-held probe.
3. Water discharged is measured using a Keyence FD-Q clamp-on flow sensor. Presented values represent monthly totals reported by HydroAir personnel. The flow sensor is reset monthly.

FIGURES



HALEY ALDRICH

HYDRO-AIR COMPONENTS, INC.
100 RITTLING BOULEVARD
BUFFALO, NEW YORK

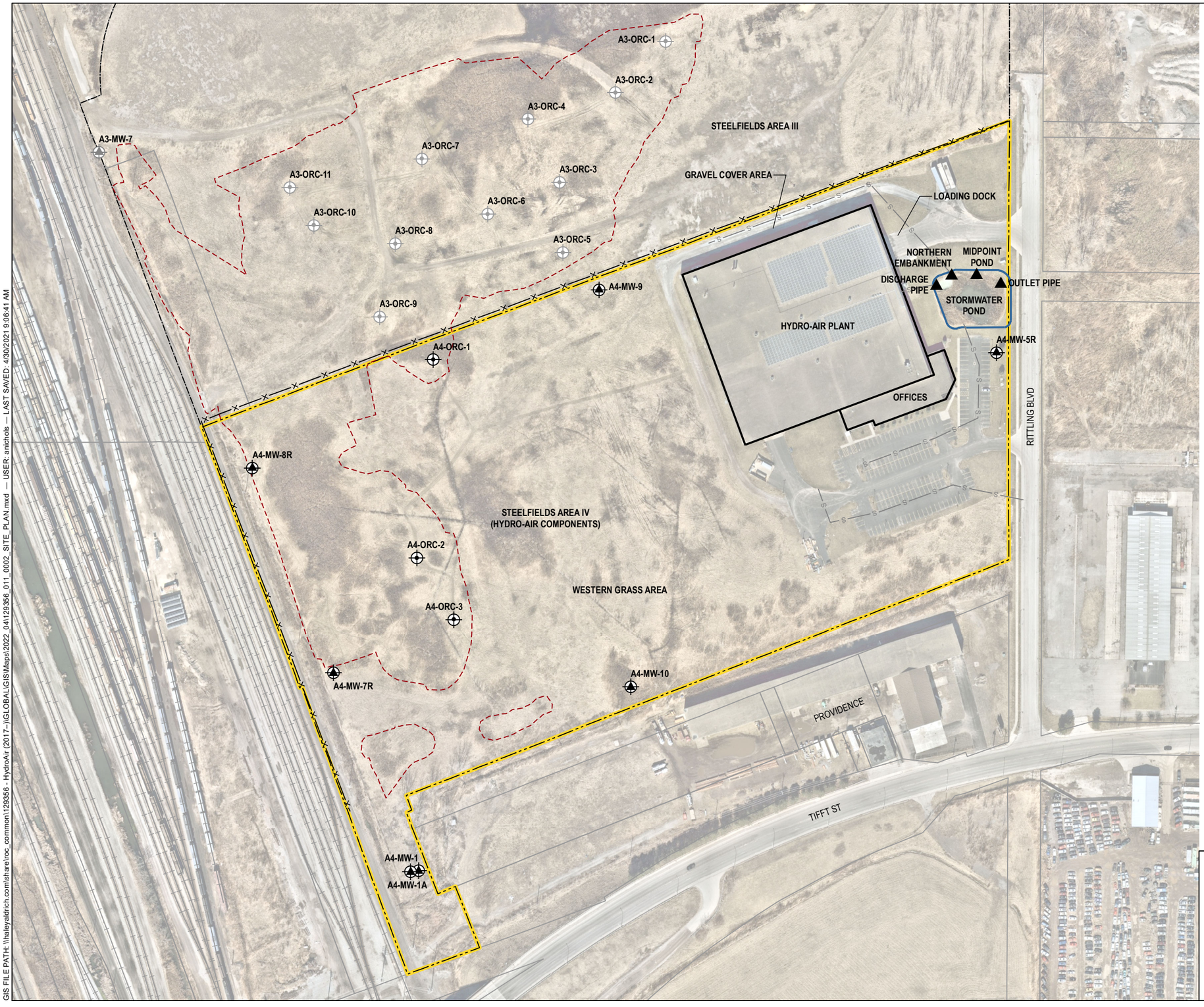
PROJECT LOCUS

MAP SOURCE: ESRI
SITE COORDINATES: 42°50'54"N, 78°50'24"W

APPROXIMATE SCALE: 1 IN = 2000 FT
APRIL 2022

FIGURE 1

GIS FILE PATH: \\haleyaldrich.com\share\roc_common\129356 - HydroAir (2017-)\GLOBAL\GIS\Maps\2022_04\129356_011_0001_PROJECT_LOCUS.mxd — USER: anichols — LAST SAVED: 3/12/2021 10:40:51 AM



LEGEND

- MONITORING WELL, HYDRO-AIR PROPERTY
- ORC WELL, HYDRO-AIR PROPERTY
- RETENTION POND MONITORING LOCATION
- MONITORING WELL, STEELFIELDS III PROPERTY
- ORC WELL, STEELFIELDS III PROPERTY
- PLANT AREA
- APPROXIMATE TAR AND BLUE SOIL/FILL EXCAVATION LIMITS
- FENCE
- POND
- STORMWATER PIPE
- RAILROAD
- TAX PARCEL BOUNDARY
- HYDRO-AIR (STEELFIELDS AREA IV)
- STEELFIELDS AREA III

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. TAX PARCEL DATA SOURCE: ERIE COUNTY
3. AERIAL IMAGERY SOURCE: NEARMAP, MARCH 2020

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

HYDRO-AIR COMPONENTS, INC.
100 RITTLING BOULEVARD
BUFFALO, NEW YORK

SITE PLAN

APRIL 2022

FIGURE 2

GIS FILE PATH: \\haleyaldrich.com\share\roc_common\129356 - HydroAir (2017-)\GLOBAL\GIS\Maps\2022_04\129356_011_0002_SITE_PLAN.mxd — USER: anichols — LAST SAVED: 4/30/2021 9:06:41 AM

DRAFT

A3-ORC-1
A3-ORC-2
A3-ORC-4
A3-MW-7
A3-ORC-7
A3-ORC-11
A3-ORC-3
A3-ORC-6
A3-ORC-10
A3-ORC-8
A3-ORC-5
A3-ORC-9
STEELFIELDS AREA III
GRAVEL COVER AREA
LOADING DOCK
STORMWATER POND
HYDRO-AIR PLANT
OFFICES
A4-MW-9
581.02
A4-ORC-1
580.27
A4-MW-5R
579.42
579.5
580.0
580.5
581.0
581.5
RITTLING BLVD
A4-MW-8R
581.53
STEELFIELDS AREA IV
(HYDRO-AIR COMPONENTS)
A4-ORC-2
583.93
WESTERN GRASS AREA
A4-ORC-3
579.14
A4-MW-10
580.56
A4-MW-7R
581.57
PROVIDENCE
TIFFT ST
A4-MW-1A
A4-MW-1

LEGEND

- MONITORING WELL, HYDRO-AIR PROPERTY, WITH GROUNDWATER ELEVATION IN FEET
- ORC SOCK WELL, HYDRO-AIR PROPERTY, WITH GROUNDWATER ELEVATION IN FEET
- MONITORING WELL, STEELFIELDS AREA III PROPERTY
- ORC SOCK WELL, STEELFIELDS AREA III PROPERTY
- GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- PLANT AREA
- APPROXIMATE TAR AND BLUE SOIL/FILL EXCAVATION LIMITS
- FENCE
- POND
- STORMWATER PIPE
- RAILROAD
- TAX PARCEL BOUNDARY
- HYDRO-AIR (STEELFIELDS AREA
- STEELFIELDS AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: ERIE COUNTY
3. GROUNDWATER DEPTHS MEASURED ON 7 AND 12 JULY 2021.
4. GROUNDWATER ELEVATIONS FROM ORC WELLS NOT USED IN CONTOURING.
5. AERIAL IMAGERY SOURCE: NEARMAP, MARCH 2020

N

0 200 400
SCALE IN FEET

HALEY ALDRICH

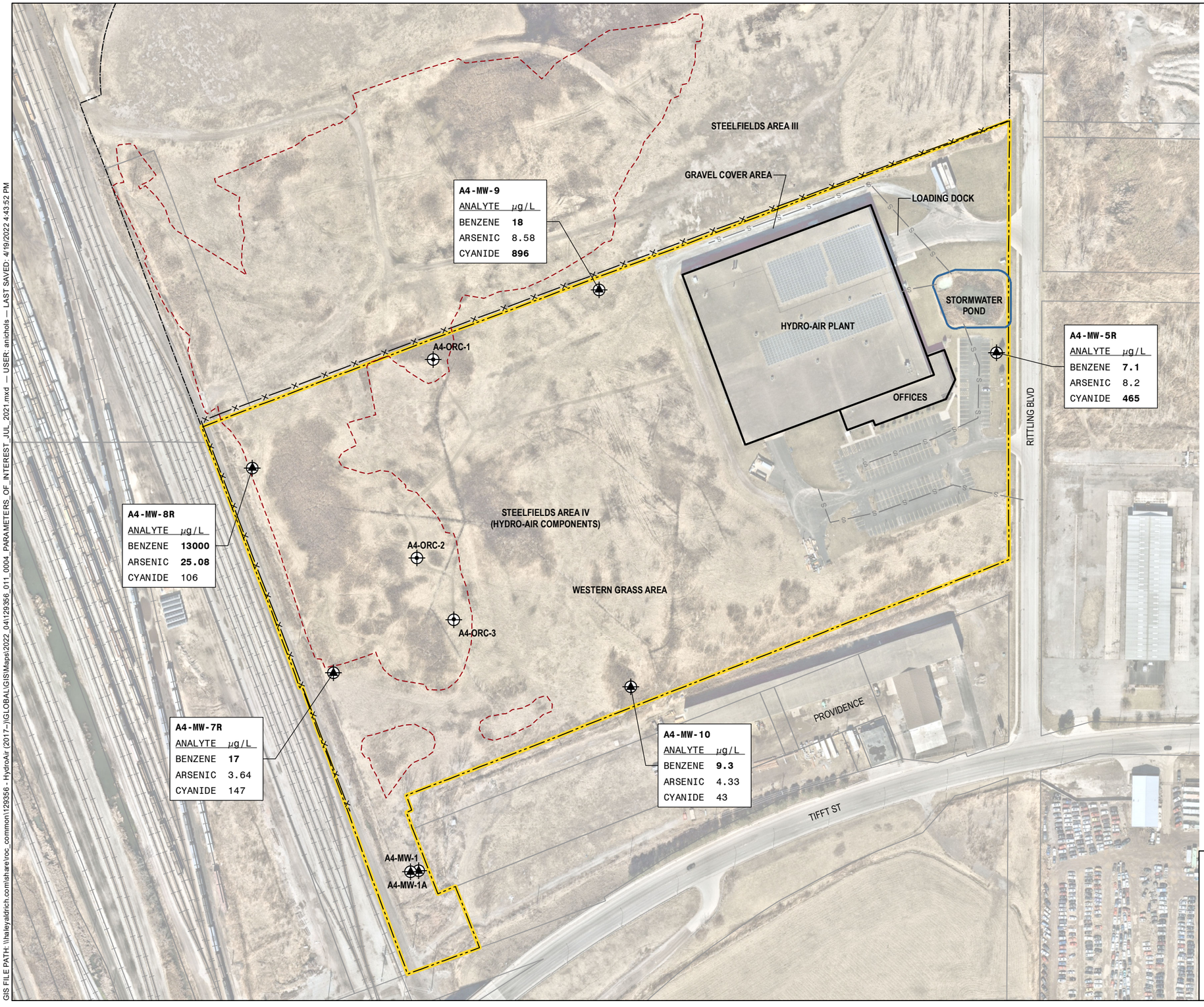
HYDRO-AIR COMPONENTS, INC.
100 RITTLING BOULEVARD
BUFFALO, NEW YORK

SHALLOW GROUNDWATER ELEVATION MAP - JULY 2021

APRIL 2022

FIGURE 3

GIS FILE PATH: \\haleyaldrich.com\share\roc_common\129356 - HydroAir (2017-)\GLOBAL\GIS\Maps\2022_04\129356_011_0003_SHALLOW_GW_ELEVATION.mxd — USER: anichols — LAST SAVED: 4/24/2022 6:31:50 AM



LEGEND

- MONITORING WELL, HYDRO-AIR PROPERTY
- ORC WELL, HYDRO-AIR PROPERTY
- PLANT AREA
- APPROXIMATE TAR AND BLUE SOIL/FILL EXCAVATION LIMITS
- FENCE
- POND
- STORMWATER PIPE
- RAILROAD
- TAX PARCEL BOUNDARY
- HYDRO-AIR (STEELFIELDS AREA IV)
- STEELFIELDS AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: ERIE COUNTY
3. µg/L = MICROGRAMS PER LITER
4. **BOLD** VALUES EXCEED NYSDEC CLASS GA GWQS.
5. AERIAL IMAGERY SOURCE: NEARMAP, MARCH 2020

N

0 200 400
SCALE IN FEET

HALEY ALDRICH

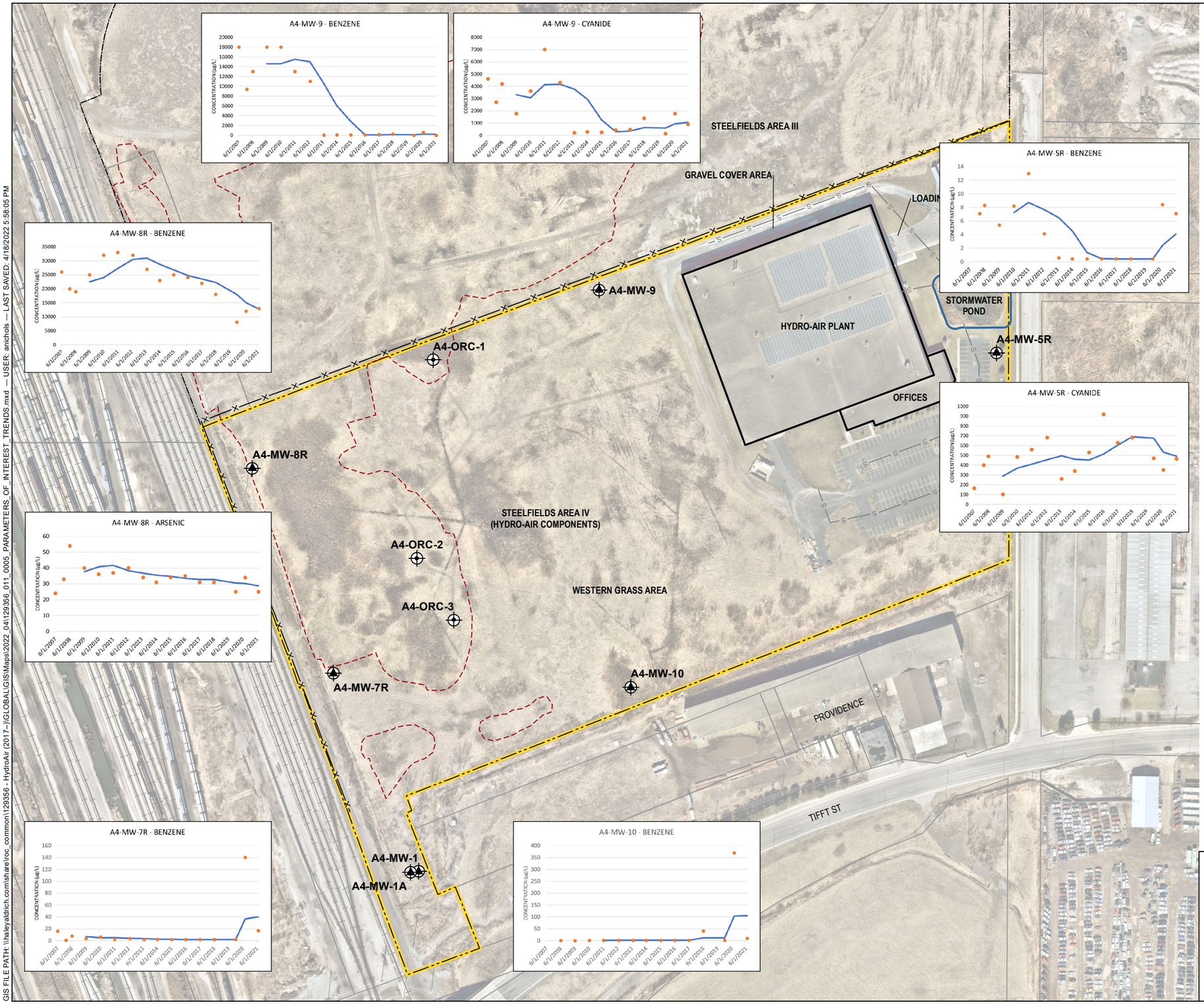
HYDRO-AIR COMPONENTS, INC.
100 RITTLING BOULEVARD
BUFFALO, NEW YORK

GROUNDWATER PARAMETERS OF INTEREST - JULY 2021

APRIL 2022

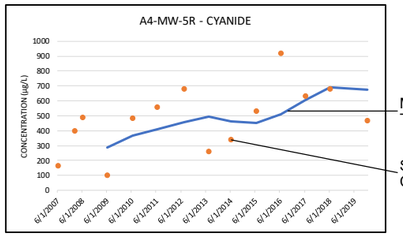
FIGURE 4

GIS FILE PATH: \\haleyaldrich.com\share\roc_common\129356 - HydroAir (2017-)\GLOBAL\GIS\Maps\2022_04\129356_011_0004_PARAMETERS_OF_INTEREST_JUL_2021.mxd — USER: anichols — LAST SAVED: 4/19/2022 4:43:52 PM



LEGEND

- MONITORING WELL, HYDRO-AIR PROPERTY
- ORC WELL, HYDRO-AIR PROPERTY
- PLANT AREA
- APPROXIMATE TAR AND BLUE SOIL/FILL EXCAVATION LIMITS
- FENCE
- POND
- STORMWATER PIPE
- RAILROAD
- TAX PARCEL BOUNDARY
- HYDRO-AIR (STEELFIELDS AREA
- STEELFIELDS AREA III



NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: ERIE COUNTY
3. µg/L = MICROGRAMS PER LITER
4. MOVING AVERAGE TRENDLINE REPRESENTS THE AVERAGE OF THE 2021 SAMPLE CONCENTRATION AND THE CONCENTRATIONS IDENTIFIED DURING THE THREE (3) PREVIOUS SAMPLING EVENTS. METHOD DETECTION LIMITS USED IN AVERAGING IF AN ANALYTE WAS NOT DETECTED.
5. AERIAL IMAGERY SOURCE: ESRI

N

0 200 400

SCALE IN FEET

HALEY ALDRICH

HYDRO-AIR COMPONENTS, INC.
100 RITTLING BOULEVARD
BUFFALO, NEW YORK

GROUNDWATER PARAMETERS OF INTEREST HISTORICAL TRENDS

APRIL 2022

FIGURE 5

GIS FILE PATH: \\haleyaldrich.com\share\roc_common\129356 - HydroAir (2017-)\GLOBAL\GIS\Maps\2022_04\129356_011_0005_PARAMETERS_OF_INTEREST_TRENDS.mxd — USER: anichols — LAST SAVED: 4/18/2022 5:58:05 PM

APPENDIX A
Institutional and Engineering Controls Certification Form

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C915204

Site Name Steelfields Area IV

Site Address: 100 Rittling Blvd. Zip Code: 14220
City/Town: Buffalo
County: Erie
Site Acreage: 30.910

Reporting Period: April 14, 2021 to April 14, 2022

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Industrial	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	NA ☐

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☐	NA ☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C915204 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
132.12-1-9.121	Hydro-Air Components, Inc.	Site Management Plan Ground Water Use Restriction Landuse Restriction Soil/Fill Management Plan

i) until the remedial goals for the Controlled Property are attained or deemed complete by the Department, the Department-approved Site Management Plan (SMP) for the implemented remedy must be adhered to.

ii) a soil cover system and vegetation in accordance with the Soil/Fill Management Plan in the SMP shall be maintained over undeveloped portions of the Controlled Property.

iii) an active subslab depressurization system (ASD) to eliminate potential soil vapor intrusion shall be installed, operated and maintained in all new buildings and building additions in accordance with the standards and procedures specified in the SMP, and the ASD already installed in the existing building shall continue to be operated and maintained in accordance with the SMP, unless the Department determines that the ASD is not necessary based on the results of a Department-approved evaluation of potential sub-slab vapor impacts.

iv) the groundwater beneath the Controlled Property cannot be used as a potable water source or for any other use without prior written permission of the Department.

v) groundwater monitoring in accordance with the SMP shall continue until the Department determines that continued monitoring is unnecessary.

vi) the in-situ treatment of residual contamination in native soils using oxygen release compounds (ORC) shall be maintained and monitored in accordance with the SMP until the Department determines that continued maintenance and monitoring of ORC is unnecessary.

vii) in areas of the Controlled Property with known groundwater impacts, storm water injection (drywells) will be prohibited and storm water conveyance pipes will be required to have gasketed joints for water tightness to prevent the infiltration of impacted groundwater into the collection system.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
132.12-1-9.121	Cover System Vapor Mitigation Maintenance of In-Situ ORC Treatment Gasketed Joints for Stormwater Conveyance

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. C915204

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Scott Pallotta (print name) at 100 Rittling Blvd, Buffalo, NY 14220 (print business address)

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

5/11/22
Date

EC CERTIFICATIONS

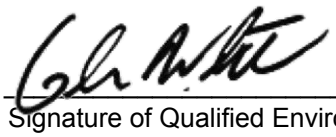
Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Glenn M. White, CHMM at Haley & Aldrich of New York 200 Town Centre Dr. Ste. 2, Rochester, NY 14623,
print name print business address

am certifying as a Qualified Environmental Professional for the Owner
(Owner or Remedial Party)



Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

12 May 2022
Date

APPENDIX B
NYSDEC Correspondence

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation
625 Broadway, 11th Floor, Albany, NY 12233-7020
P: (518)402-9543 | F: (518)402-9547
www.dec.ny.gov

2/22/2022

Robert Daigler
Vp Of Finance
Hydro-Air Components Inc.
100 Rittling Blvd
Buffalo, NY 14220
RDaigler@Zehnder-Rittling.com

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal
Site Name: Steelfields Area IV
Site No.: C915204
Site Address: 100 Rittling Blvd.
Buffalo, NY 14220

Dear Robert Daigler:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at http://www.dec.ny.gov/regulations/67386.html) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **May 14, 2022**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Qualified Environmental Professional (QEP). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.

All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

https://www.dec.ny.gov/chemical/62440.html

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

https://fts.dec.state.ny.us/fts/

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Megan Kuczka, the Project Manager, at 716-842-2175 or megan.kuczka@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation
270 Michigan Ave

Buffalo, NY 14203-2915

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures
Megan Kuczka, Project Manager
Andrea Caprio, Hazardous Waste Remediation Supervisor, Region 9

Haley & Aldrich, Inc. - Glenn White - gwhite@HaleyAldrich.com

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7**):**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C915204

Site Name Steelfields Area IV

Site Address: 100 Rittling Blvd. Zip Code: 14220
City/Town: Buffalo
County: Erie
Site Acreage: 30.910

Reporting Period: April 14, 2021 to April 14, 2022

	YES	NO
1. Is the information above correct?	☐	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☐
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☐
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☐
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☐

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Industrial	☐	☐
7. Are all ICs in place and functioning as designed?	☐	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☐

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☐	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C915204 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
132.12-1-9.121	Hydro-Air Components, Inc.	Site Management Plan Ground Water Use Restriction Landuse Restriction Soil Management Plan

i) until the remedial goals for the Controlled Property are attained or deemed complete by the Department, the Department-approved Site Management Plan (SMP) for the implemented remedy must be adhered to.

ii) a soil cover system and vegetation in accordance with the Soil/Fill Management Plan in the SMP shall be maintained over undeveloped portions of the Controlled Property.

iii) an active subslab depressurization system (ASD) to eliminate potential soil vapor intrusion shall be installed, operated and maintained in all new buildings and building additions in accordance with the standards and procedures specified in the SMP, and the ASD already installed in the existing building shall continue to be operated and maintained in accordance with the SMP, unless the Department determines that the ASD is not necessary based on the results of a Department-approved evaluation of potential sub-slab vapor impacts.

iv) the groundwater beneath the Controlled Property cannot be used as a potable water source or for any other use without prior written permission of the Department.

v) groundwater monitoring in accordance with the SMP shall continue until the Department determines that continued monitoring is unnecessary.

vi) the in-situ treatment of residual contamination in native soils using oxygen release compounds (ORC) shall be maintained and monitored in accordance with the SMP until the Department determines that continued maintenance and monitoring of ORC is unnecessary.

vii) in areas of the Controlled Property with known groundwater impacts, storm water injection (drywells) will be prohibited and storm water conveyance pipes will be required to have gasketed joints for water tightness to prevent the infiltration of impacted groundwater into the collection system.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
132.12-1-9.121	Cover System Vapor Mitigation

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☐	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☐	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. C915204

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as _____(Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

_____ _____
Signature of Owner, Remedial Party, or Designated Representative Date
Rendering Certification

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as a Qualified Environmental Professional for the _____
(Owner or Remedial Party)

_____	_____	_____
Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
   B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
   C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
   1. whether all requirements of each plan were met during the reporting period
   2. any requirements not met
   3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals
   1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
   2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7220| F: (716) 851-7226
www.dec.ny.gov

May 24, 2021

Robert Daigler
Hydro-Air Components, Inc.
100 Rittling Blvd
Buffalo, NY 14220

Re: Site Management (SM) -
Periodic Review Report (PRR) Response Letter
Steelfields Area IV, Buffalo
Erie County, Site No.: **C915204**

Dear Robert Daigler (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for the following period: January 15, 2020 to April 14, 2021. The Department hereby accepts the PRR and IC/EC Certification.

The frequency of Periodic Reviews for this site is once a year, and your next PRR will be due on May 14, 2022 (Certifying Period of April 14, 2021 to April 14, 2022). You will receive a reminder letter and updated certification form 75-days prior to the report's due date. Regardless of receipt or not of the reminder notice, the next PRR, including the signed certification form, is still due on the date specified above.

In future PRR's, please complete the following revisions:

- Include a figure of the cover system
- Include Table 3 (Groundwater Elevation Measurements) from the previous Groundwater Monitoring Reports, within the PRR's
- Complete the tile and fence repairs and note the maintenance activities within the 2021-2022 PRR

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka
Environmental Program Specialist – 1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7220| F: (716) 851-7226
www.dec.ny.gov

ec: Andrea Caprio – NYSDEC
Glenn White – Haley & Aldrich
Drew Nichols – Haley & Aldrich
Tom Robitaille – Haley & Aldrich
Scott Pallotta – Hydro-Air Components, Inc.

Nichols, Andrew

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Wednesday, July 27, 2022 8:18 AM
To: White, Glenn
Cc: 'Daigler, Robert (ZRI)'; Walsh, Thomas F.; Nichols, Andrew; Kulow, Kristin (HEALTH)
Subject: RE: 2021-2022 Periodic Review Report (PRR), Steelfields Area IV (#C915204)

CAUTION: External Email

Glenn –

Please proceed with the PRR revisions as noted below.

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

From: White, Glenn <GWhite@haleyaldrich.com>
Sent: Tuesday, July 26, 2022 2:36 PM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Cc: 'Daigler, Robert (ZRI)' <rdaigler@zehnder-rittling.com>; Walsh, Thomas F. <twalsh@barclaydamon.com>; anichols@haleyaldrich.com; Kulow, Kristin (HEALTH) <kristin.kulow@health.ny.gov>
Subject: RE: 2021-2022 Periodic Review Report (PRR), Steelfields Area IV (#C915204)

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Megan,

As requested for your review, proposed revisions to the PRR and answers to DEC's questions are included below in red text. Upon your approval, we will incorporate the responses below into the PRR.
Please let us know if you have any questions.

Regards,
Glenn

- Any building cover cracks, that are not surficial, should be repaired in order to maintain the cover system and proper operation of the SSDS system. Are any of the cracks not surficial? All observed cracks in the manufacturing space are surficial.
- Please assess in the text why cyanide concentrations are increasing at MW-9 and benzene concentrations are increasing at MW-7R, MW-10, & MW-5R Within the overall decreasing trend since 2007, there were increases in cyanide concentrations at MW-9 in the 2018 and 2020 sampling events. Although cyanide increased noticeably in 2020, it decreased in 2021. Another decreasing cyanide concentration in 2022 would suggest cyanide concentrations at MW-9 are beginning to equilibrate, while another increase beyond the concentrations detected in 2020 would suggest at least a short-term increasing trend (still within an overall decreasing trend since 2007). Per the Shallow Groundwater Elevation Map attached as Figure 3 to the 2021-2022 PRR, MW-9 functions as an upgradient well reflecting conditions emanating from off-site on Steelfields III.

  Benzene concentrations in every groundwater sample increased significantly in 2020, and then in 2021, decreased in every well except MW-8R. Particularly in MW-7R and MW-10, the 2020 results appear anomalously high, and perhaps not coincidentally, correspond to a change in sampling contractor and analytical laboratory. The current and previous sampling and analytical contractors have used similar methods and analytical techniques in accordance with the SMP. Currently, we cannot identify a readily apparent cause for the increasing benzene trend trends at MW-7R, MW-10, & MW-5R. As with the general decreasing trends in cyanide in MW-9 since 2007, the recent increases in benzene concentrations at MW-7R, MW-8R, & MW-5R rely largely on the results from the 2020 and 2021 sampling events and occur within overall declining trends since 2007. The results of the next two events will be integral for determining trends for both cyanide in MW-9 and benzene in MW-7R, MW-8R, MW-10, & MW-5R.

- Does the pond discharge to the sewer? Is there a discharge permit from the BSA associated with this? If yes, please share a copy with the Department The pond discharges to a stormwater ditch across Rittling Boulevard. There is no BSA discharge permit as the water is not discharged into the storm sewer.
- Please provide a groundwater disposal receipt Groundwater generated and containerized during the 2021-22 PRR reporting period remains at the site. It is currently being profiled for disposal and will be disposed off-site during the 2022-23 PRR reporting period. The groundwater disposal receipt will be appended to the 2022-23 PRR.
- Section 2.2.1 –
  - Please indicate the pond is part of the cover system as well This will be incorporated in the revised 2021-22 PRR.
  - Detail if any materials were imported during the certifying period No materials were imported during the 2021-22 PRR reporting period. A statement to that effect will be incorporated in the revised 2021-22 PRR.
- Section 2.2.5 – The lab methods listed are not the actual methods the laboratory used. Why were the lab methods changed? Also please input the actually used lab methods in this section The metals analytical method (6020B) corresponds to the new EPA SW-846 methods used by the analytical laboratory. An alternative alkalinity method was used by the analytical lab.
- Table 2 – Please differentiate between ND and not tested for in the alkalinity and carbon dioxide columns All dashes are for "not tested." The missing alkalinity values for the 2021 ORC wells will be added to the table.
  - It appears some wells did not have alkalinity and carbon dioxide assessed. Why is this? Testing for alkalinity in the ORC wells between June 2008 and December 2019 were not collected by the former sampling contractor. Carbon dioxide has not been monitored in the ORC wells, and that column will be removed from the table included in the revised 2021-22 PRR report.
- Table 4 – The total depth of each well changed and is not the same as the 2007 results, per footnote 2. Were these measured in the field in 2021? If yes, please revise the footnote Yes, well depths were measured in the field in 2021. We will use the measurements from 2021 and revise the table/footnote in the revised 2021-22 PRR report.
- Table 5 –

- Do the dashes mean no reading was collected or no flow occurred? Please clarify in a footnote This was a mistake made during table generation. We have reviewed flow data with Hydro-Air personnel and will revise Table V to include flow values for each month. Additionally, several flow values (July, September, and October 2021) will be revised as they were mistakenly recorded in field sheets as a factor of 10 greater than the measured value. Those values will be corrected in Table V of the revised 2021-22 PRR.
- Detail how the flow is estimated and if the flow estimates reset each month in the footnotes. Flow rate is measured monthly using a clamp-on flow sensor, from which monthly discharge volumes are calculated by Hydro-Air personnel. The flow meter is reset each month. This will be included as a footnote in Table V.

Glenn M. White, CHMM
Haley & Aldrich
Tel: 585.321.4239
Fax: 585.359.4650
gwhite@HaleyAldrich.com

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Friday, June 24, 2022 2:55 PM
To: White, Glenn <GWhite@haleyaldrich.com>
Cc: 'Daigler, Robert (ZRI)' <rdaigler@zehnder-rittling.com>; Walsh, Thomas F. <twalsh@barclaydamon.com>; Nichols, Andrew <ANichols@haleyaldrich.com>; Kulow, Kristin (HEALTH) <kristin.kulow@health.ny.gov>
Subject: RE: 2021-2022 Periodic Review Report (PRR), Steelfields Area IV (#C915204)

CAUTION: External Email

Glenn –

The requested submittal extension is acceptable.

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

From: White, Glenn <GWhite@haleyaldrich.com>
Sent: Friday, June 24, 2022 2:46 PM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Cc: 'Daigler, Robert (ZRI)' <rdaigler@zehnder-rittling.com>; Walsh, Thomas F. <twalsh@barclaydamon.com>; anichols@haleyaldrich.com; Kulow, Kristin (HEALTH) <kristin.kulow@health.ny.gov>
Subject: RE: 2021-2022 Periodic Review Report (PRR), Steelfields Area IV (#C915204)

Megan,

On behalf of Hydo-Air Components, we request an additional 30 days to revise the PRR and answer DEC's questions in your e-mail below.

Sincerely,
Glenn

Glenn M. White, CHMM
Haley & Aldrich
Tel: 585.321.4239
Fax: 585.359.4650
gwhite@HaleyAldrich.com

From: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Sent: Monday, June 13, 2022 9:05 AM
To: Nichols, Andrew <ANichols@haleyaldrich.com>
Cc: 'Daigler, Robert (ZRI)' <rdaigler@zehnder-rittling.com>; Walsh, Thomas F. <twalsh@barclaydamon.com>; White, Glenn <GWhite@haleyaldrich.com>; Nichols, Andrew <ANichols@haleyaldrich.com>; Kulow, Kristin (HEALTH) <kristin.kulow@health.ny.gov>
Subject: RE: 2021-2022 Periodic Review Report (PRR), Steelfields Area IV (#C915204)

CAUTION: External Email

Drew –

The Department has completed their review of the Steelfields Area IV PRR. Prior to approval, some revisions are requested. Please complete the following revisions/answer the following questions by June 27th:

- Any building cover cracks, that are not surficial, should be repaired in order to maintain the cover system and proper operation of the SSDS system. Are any of the cracks not surficial?
- Please assess in the text why cyanide concentrations are increasing at MW-9 and benzene concentrations are increasing at MW-7R, MW-10, & MW-5R
- Does the pond discharge to the sewer? Is there a discharge permit from the BSA associated with this? If yes, please share a copy with the Department
- Please provide a groundwater disposal receipt
- Section 2.2.1 –
    - Please indicate the pond is part of the cover system as well
    - Detail if any materials were imported during the certifying period
- Section 2.2.5 – The lab methods listed are not the actual methods the laboratory used. Why were the lab methods changed? Also please input the actually used lab methods in this section
- Table 2 – Please differentiate between ND and not tested for in the alkalinity and carbon dioxide columns
    - It appears some wells did not have alkalinity and carbon dioxide assessed. Why is this?
- Table 4 – The total depth of each well changed and is not the same as the 2007 results, per footnote 2. Were these measured in the field in 2021? If yes, please revise the footnote
- Table 5 –
    - Do the dashes mean no reading was collected or no flow occurred? Please clarify in a footnote
    - Detail how the flow is estimated and if the flow estimates reset each month in the footnotes

Feel free to reach out with any questions.

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

From: Kuczka, Megan E (DEC)
Sent: Friday, May 13, 2022 1:18 PM
To: Nichols, Andrew <ANichols@haleyaldrich.com>
Cc: 'Daigler, Robert (ZRI)' <rdaigler@zehnder-rittling.com>; Walsh, Thomas F. <twalsh@barclaydamon.com>; White, Glenn <GWhite@haleyaldrich.com>; anichols@haleyaldrich.com; Kulow, Kristin (HEALTH) <kristin.kulow@health.ny.gov>
Subject: RE: 2021-2022 Periodic Review Report (PRR), Steelfields Area IV (#C915204)

Drew -

The PRR for Steelfields Area IV has been successfully downloaded. NYSDEC and NYSDOH will review and will reach out with any questions.

Sincerely,

Megan Kuczka
she/her/hers
Environmental Program Specialist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
270 Michigan Avenue, Buffalo, NY 14203
P: (716) 851-7220 | F: (716) 851-7226 | Megan.Kuczka@dec.ny.gov
www.dec.ny.gov | | |

From: Nichols, Andrew <ANichols@haleyaldrich.com>
Sent: Friday, May 13, 2022 1:04 PM
To: Kuczka, Megan E (DEC) <Megan.Kuczka@dec.ny.gov>
Cc: 'Daigler, Robert (ZRI)' <rdaigler@zehnder-rittling.com>; Walsh, Thomas F. <twalsh@barclaydamon.com>; White, Glenn <GWhite@haleyaldrich.com>; anichols@haleyaldrich.com
Subject: 2021-2022 Periodic Review Report (PRR), Steelfields Area IV (#C915204)

Good afternoon Megan,

On behalf of Hydro-Air Components, Inc., Haley & Aldrich of New York is pleased to submit the 2021-2022 Periodic Review Report (PRR) for the Former Steelfields Area IV Site (#C915204) in Buffalo, New York. A .pdf of the PRR can be downloaded through the link enclosed in this email.

https://haleyaldrich.sharefile.com/d-sb2ef37ee36f24796b2557f792f128837

Please do not hesitate to reach out if you have any questions or concerns.

Sincerely,
Drew Nichols

Andrew L. Nichols
Technical Specialist

Haley & Aldrich, Inc.
200 Town Centre Drive | Suite 2
Rochester, NY 14623-4264
(585) 321.4220 (O)
(617) 650-2373 (C)
anichols@haleyaldrich.com

APPENDIX C
Annual Inspection Form

Environmental Inspection Form
Operation, Monitoring, & Maintenance Work Plan

Property Name:	Former Steelfields Area IV Site	Project No.:	C915204
Client:	Hydro-Air Components, Inc.		
Property Address:	100 Rittling Blvd.	City, State: Buffalo, NY	Zip Code: 14220
Property ID: (Tax Assessment Map)	Section:	Block:	Lot(s):
Preparer's Name:	Glenn White	Date/Time:	

CERTIFICATION

The results of this inspection were discussed with the owner and/or owner's representative. Any corrective actions required have been identified and noted in this report, and a supplemental Corrective Actions Form has been completed. Proper implementation of these corrective actions have been discussed with the owner, agreed upon, and scheduled.

Preparer / Inspector: Glenn White, Haley & Aldrich of NY **Date:**

Signature:

Next Scheduled Inspection (date): 3/2023

Final Surface Cover / Vegetation

In accordance with the Soil/Fill Management Plan, vegetative or other (eg. Asphalt, buildings, concrete) surface coverage over the entire redeveloped parcel is required by the developer or owner as a pre-condition of occupancy. The following documents the condition of the above.

1. Final Cover is in Place and in good condition?	☒ yes	☐ no	☐ N/A
Cover consists of (mainly):	Field grasses, buildings, asphalt parking lot, and asphalt and gravel drives.		
2. Evidence of erosion?	☐ yes	☒ no	☐ N/A
3. Cracks visible in pavement?	☐ yes	☒ no	☐ N/A
4. Evidence of distressed vegetation/turf?	☐ yes	☒ no	☐ N/A
5. Evidence of unintended traffic and/or rutting?	☐ yes	☒ no	☐ N/A
6. Evidence of uneven settlement and/or ponding?	☒ yes	☐ no	☐ N/A
7. Damage to any surface coverage?	☐ yes	☒ no	☐ N/A

If yes to any question above, please provide more information below.

See attachment

Property Security & Access

In accordance with the Soil/Fill Management Plan, fencing is required to restrict access in all undeveloped areas and as necessary in redeveloped areas. In addition, all fencing around undeveloped areas will be posted with "No Trespassing" signs.

1. Is access controlled by perimeter fencing?	☐ yes	☒ no	☐ N/A
If not, please note: Site is partially fenced			
2. Is fencing in need of repair?	☒ yes	☐ no	☐ N/A
3. Area access gates in working order?	☐ yes	☐ no	☒ N/A
4. Sufficient signage posted (No Trespassing)?	☒ yes	☐ no	☐ N/A
5. Has there been any noted or reported trespassing?	☐ yes	☒ no	☐ N/A

Please note any irregularities/ changes in site access and security:

Portions of fencing along the western site boundary are falling over. Remaining fencing still provides substantial impediment to trespassing. Hydro-Air personnel did not observe evidence of trespassing during the PRR period. Site perimeter fencing is not a Site engineering control listed in the SMP.

Property Use Changes / Site Development

Has the property usage changed, or site been redeveloped since the last inspection?

☐ yes ☒ no ☐ N/A

If so, please list with date: Property use has not changed since 2006 when HydroAir first occupied the building.

Active Sub-Slab Depressurization System (ASD)

Is there an ASD present on-site?

☒ yes ☐ no ☐ N/A

If yes, is it currently operating?

☒ yes ☐ no ☐ N/A

Is the ASD annual inspection checklist completed and enclosed?
See attachment

☒ yes ☐ no ☐ N/A

Environmental Inspection Form
Operation, Monitoring, & Maintenance Work Plan

ORC Well Monitoring and Maintenance

Is there ORC mitigation present on-site?

☒ yes ☐ no ☐ N/A

Are the wells currently intact and operational?

☒ yes ☐ no ☐ N/A

Has regular maintenance and monitoring been documented and enclosed or referenced?

☒ yes ☐ no ☐ N/A

Long-Term Ground Water Monitoring

Is there a plan in place and currently being followed?

☒ yes ☐ no ☐ N/A

Are the wells currently intact and operational?

Maintenance of well caps and locking mechanisms is recommended. ☒ yes ☐ no ☐ N/A

When was the most recent sampling event report and submittal? Date: Included with 2021-2022 PRR

When is the next projected sampling event? Date: July 2022

New Information

Has any new information been brought to the owner/engineer's attention regarding any and/or all engineering and institutional controls and their operation and effectiveness?

☐ yes ☒ no ☐ N/A

Comments:

This space for Notes and Comments

Please include the following Attachments:

1. Site Sketch
2. Photographs

Site sketch and photographs included in 2021-22 PRR report

Attachment to Page 1 of 3

Coverage in Western Grass Area

As requested by NYSDEC, french drains were installed in May 2008 to minimize ponding observed after the installation of the soil cover in 2007. Minor ponding was observed during the annual 2021-2022 PRR inspection following prior snowmelt. Wetland vegetation continues to grow in the western grass area.

Northern Loading Dock

Subsequent to corrective measures that were put into place on 1 December 2012 (per the Corrective Measures Work Plan, approved 29 December 2011 by the Department), water has not accumulated in the northeastern loading dock area. The reconfiguration of the loading dock pump system (setting to automatic pumping and raising the float set-point) enabled sufficient pumping to maintain dry conditions and has sufficiently prevented the surfacing of groundwater in the area. Hydro-Air has continued to monitor the efficacy of these controls regularly throughout the 2021-22 monitoring period.

Gravel Cover Areas

Prior to 2012, evidence of surfacing groundwater from beneath the gravel cover areas on the northern end of the Site was evident (see Figure 2). As a voluntary corrective measure, the gravel cover on the northern portion of the access road was enhanced in 2012 by the placement of additional gravel (an additional 9 to 11 inches). During the 2020-2021 PRR Site inspection on 5 January 2021, standing water was observed in compacted areas on the gravel roadway between the Site building and northern Site boundary following a period of rainfall and snowmelt. This condition was likely related to recent rainfall/snow melt/localized groundwater recharge. To limit the potential for future temporary ponding under similar conditions, Hydro-Air imported approximately 88 tons of #2 crushed limestone to elevate the compacted areas and re-grade the roadway. The crushed stone was imported to the Site on 14 April 2021, per import approval provided by NYSDEC on 24 March 2021. Hydro-Air monitored the road conditions throughout the 2021-2022 reporting period and did not observe unanticipated standing water.

APPENDIX D
Photo Log – 2021-2022 PRR Monitoring Period

Photo 1: Expansion joint separation underneath office linoleum tile and carpeting.

Photo 2: Expansion joint separation underneath office linoleum tile and carpeting.

Photo 3: Expansion joint separation underneath office linoleum tile and carpeting.

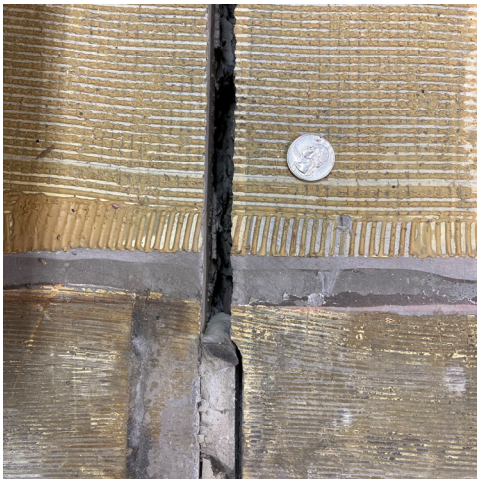


Photo 4: Expansion joint separation underneath office linoleum tile and carpeting.

Photo 5: Expansion joint sealing in office area.

Photo 6: Expansion joint sealing in office area.

Photo 7: Rips in linoleum floor tile.

Photo 8: Gravel road along north side of site building

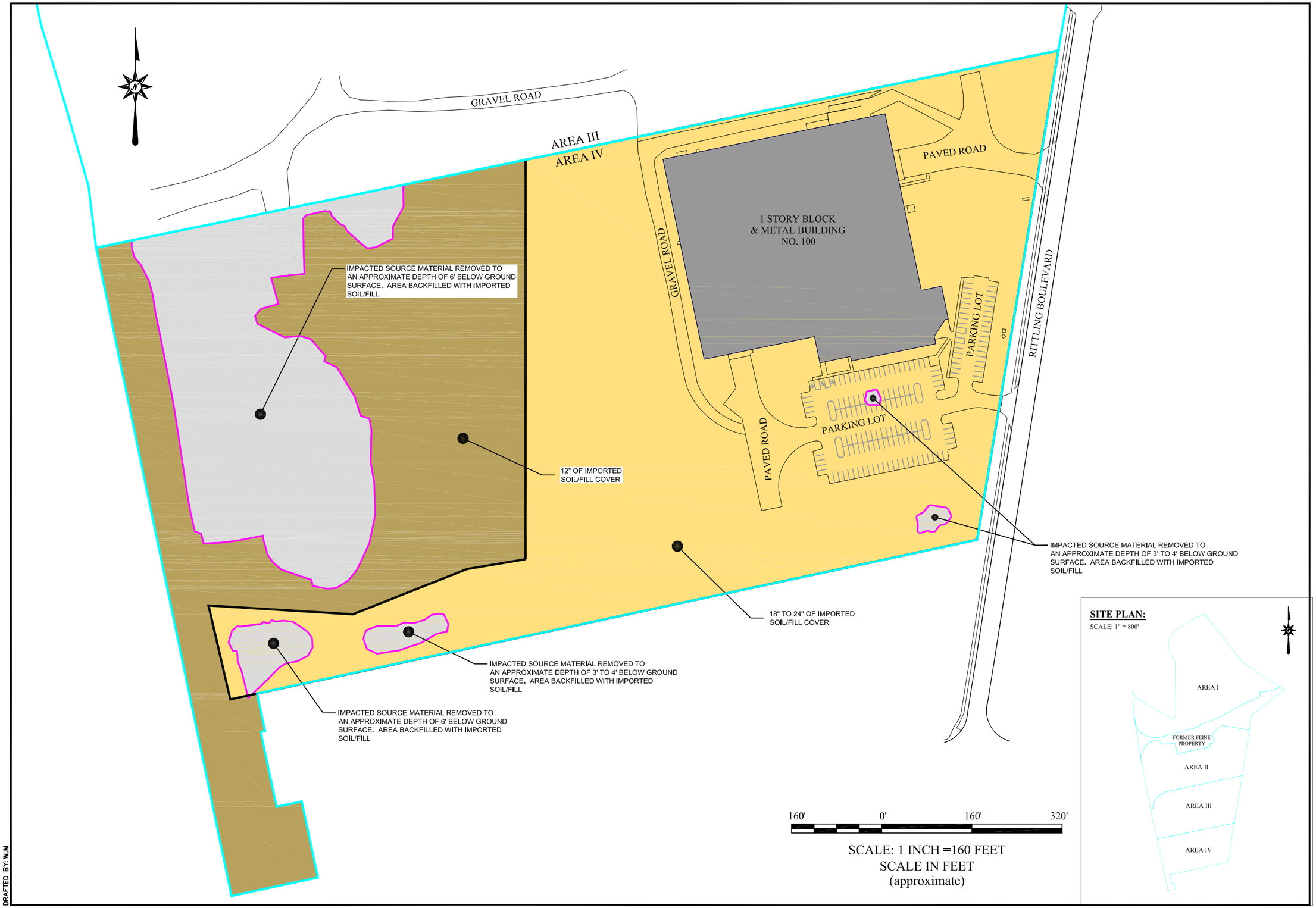
Photo 9: Fencing along western site boundary.

Photo 10: Stormwater pond.

Photo 11: Minor floor cracking in manufacturing space.

Photo 12: Minor floor cracking in manufacturing space.

APPENDIX E
Soil Cover Map



DATE: FEBRUARY 2007
DRAFTED BY: WJM

726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0599

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

JOB NO.: 0062-010-100

AREA IV - SURFACE COVERAGE
POST REMEDIAL EXCAVATION AND SOIL COVER RECORD

FINAL ENGINEERING REPORT

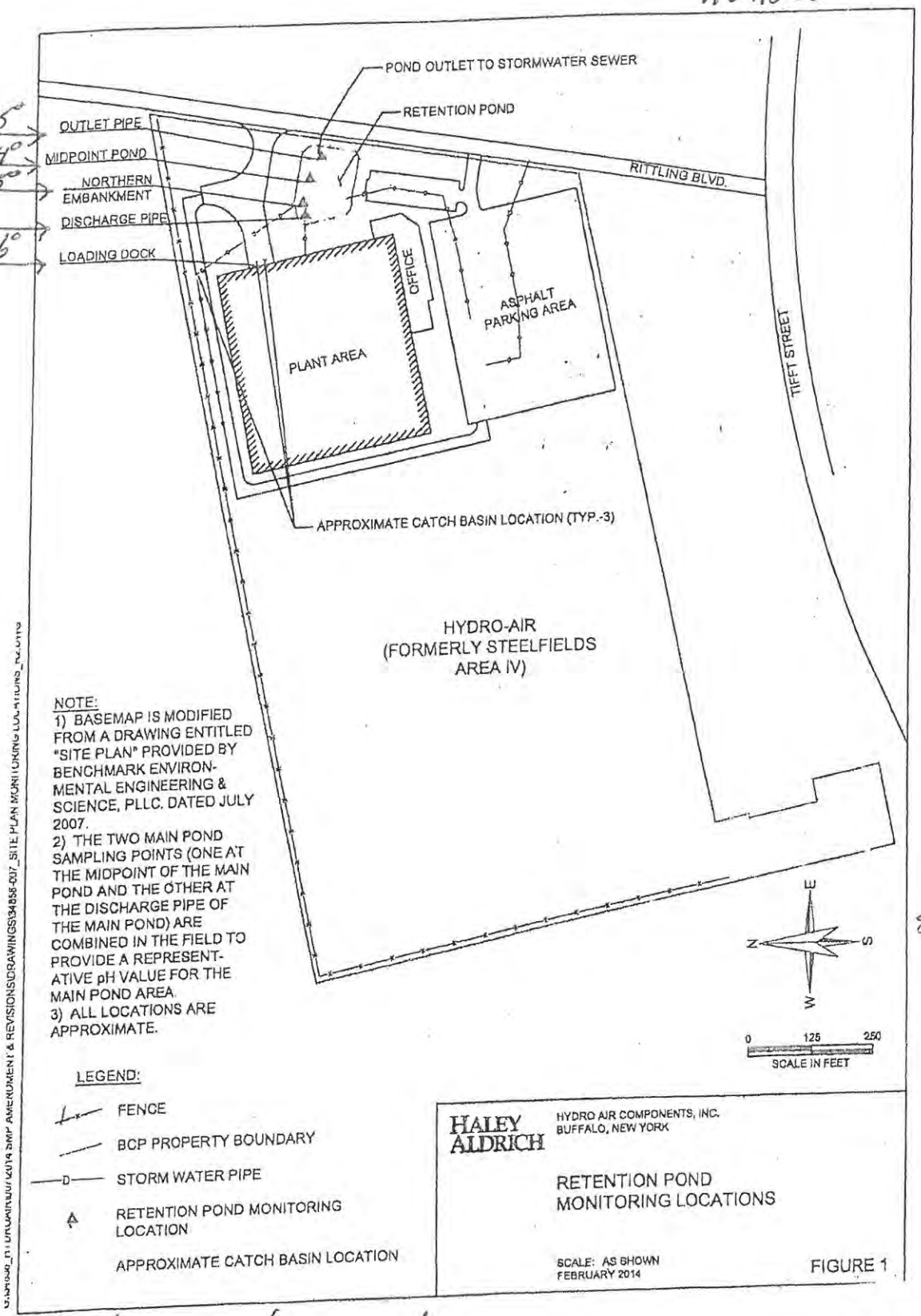
STEELFIELDS AREA IV - FORMER DONNER-HANNA COKE YARD
BUFFALO, NEW YORK

PREPARED FOR
STEELFIELDS LLC/ HYDRO-AIR COMPONENTS, INC.

FIGURE 3-6

APPENDIX F
ASD System Maintenance and Monitoring Documentation

4/27/2021 6:45 AM



6.0 45°
6.0 44°
7.1 45°
11. 46°

88,820 Gallons

1.40 SE / 1.70 NE / 1.45 NW / 1.65 SW /

1.10 Server Room

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Project Name: | Project No.:

Project Location: | Client:

Preparer's Name: Dale A Barto | Date/Time: 4/27/2021 6:45 AM

Notes:

Monthly Operating Status:

System(s) currently running? ☑ yes ☐ no

Has the system been off-line in the past month? ☐ yes ☑ no

If yes, please list the dates and brief description why (i.e. maintenance, part replacement, etc.):

What is the current Vacuum reading? 1.46

Visual Inspection:

Any piping disconnected?	☐ yes	☑ no
Any cracks visible in piping?	☐ yes	☑ no
Any new cracks visible in slab floor?	☐ yes	☑ no
Magnehelic guage reading 0?	☐ yes	☑ no

If yes to any question above, please provide more information below.

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Manufacturing

Has this general use changed in the past month? ☐ yes ☑ no

If yes, please explain:

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☑ no

If so, please list with date:

Loading Dock Discharge Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, NY

In accordance with

1. ph and temperature of a representative water from the 4 locations indicated on Figure 1.
2. weather conditions (general- wet/ dry, avg temp) since last measurement
3. estimated volume of water pumped from loading dock (based upon pump run time data)
4. notes on condition of pond (visual)

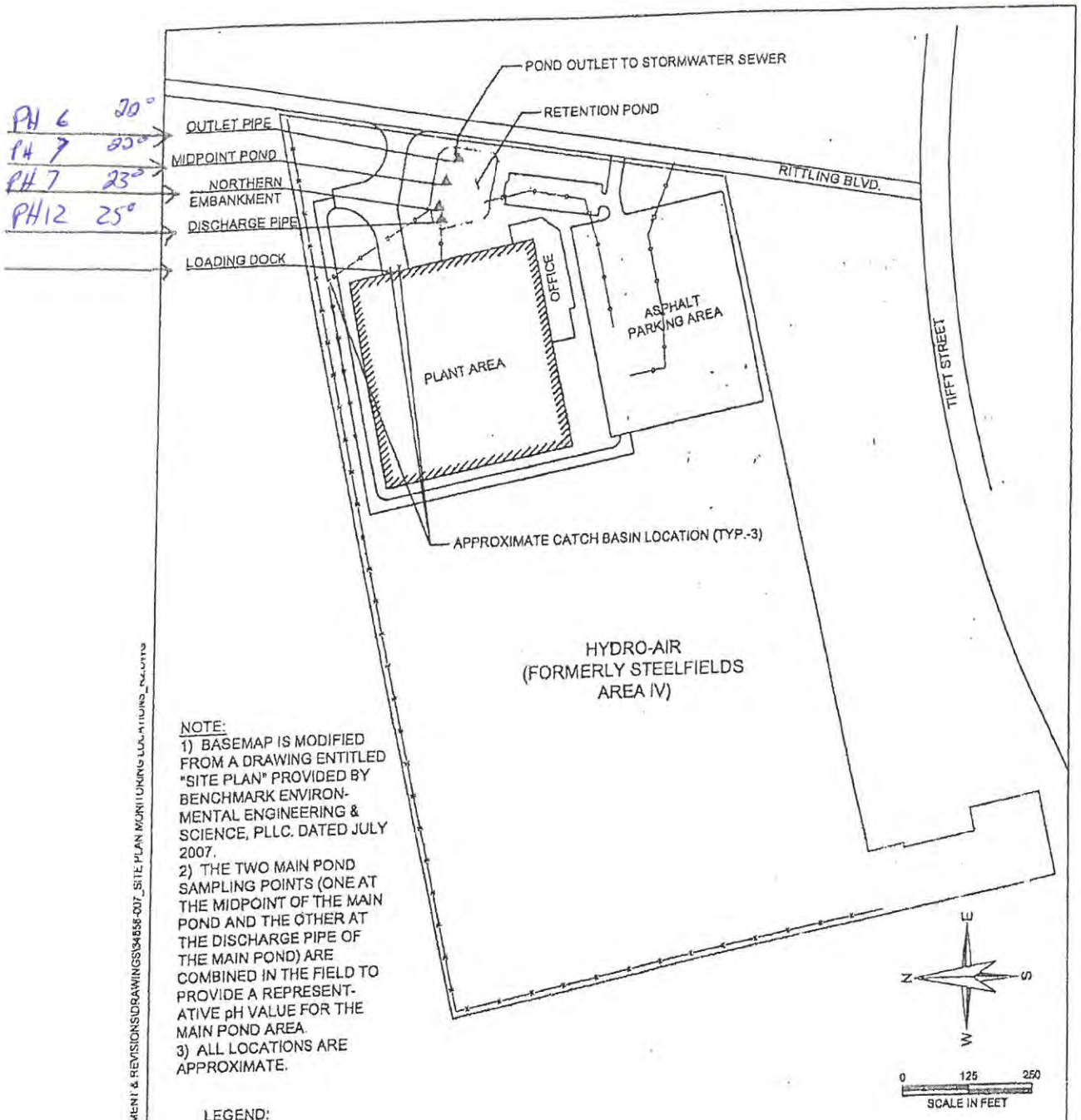
Staff Member	Date of Measure-ment	Measurement Location						Pump Run Time*	Est. Quantity of Water **	Visual Condition of Pond (color, vegetation, etc.)	Comments (e.g. weather conditions, etc)
		Discharge Pipe		Northern Embayment		Main Pond (Combined Samples)					
		ph	Temp (°F)	ph	Temp (°F)	ph	Temp (°F)				
Dale A Barto	1/27/2021 9:00am										
Dale A Barto	2/26/2021 9:00am								102,198	Cloudy	
Dale A Barto	3/31/2021 10:30am	9.00	42	10.00	41	6.00	42		54,420	Cloudy	Raining
Dale A Barto	4/27/2021 9 :30am	11.00	46	7.00	45	6.00	44		88,820	Clear	Sunny

Magnehelic Readings

#1 Server Room Office
#2 S.E. Corner Cell 600/800
#3 N.E. Corner Warehouse
#4 N.W. Corner Cell 200
#5 S.W. Corner Cell 100

Date	#1 Server Room	#2 S.E. Corner	#3 N.E. Corner	#4 N.W. Corner	#5 S.W. Corner	Average
1/27/2021	1.15	1.35	1.70	1.20	1.70	1.42
2/26/2021	1.20	1.35	1.65	1.25	1.65	1.42
3/31/2021	1.15	1.45	1.70	1.40	1.65	1.47
4/27/2021	1.10	1.40	1.70	1.45	1.65	1.46
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00

3/25/2021 9:00 AM



PH 6 20°
PH 7 25°
PH 7 23°
PH 12 25°

Gallons
81,090

1.45 SE
1.65 NE
1.50 NW
1.70 SW
1.15 Server Room

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Project Name: | Project No.:

Project Location: | Client:

Preparer's Name: Dale A Barto | Date/Time: 5/25/2021 9:00 AM

Notes:

Monthly Operating Status:

System(s) currently running? ☑ yes ☐ no

Has the system been off-line in the past month? ☐ yes ☑ no

If yes, please list the dates and brief description why (i.e. maintenance, part replacement, etc.):

What is the current Vacuum reading? 1.49

Visual Inspection:

Any piping disconnected?	☐ yes	☑ no
Any cracks visible in piping?	☐ yes	☑ no
Any new cracks visible in slab floor?	☐ yes	☑ no
Magnehelic guage reading 0?	☐ yes	☑ no

If yes to any question above, please provide more information below.

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Manufacturing

Has this general use changed in the past month? ☐ yes ☑ no

If yes, please explain:

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☑ no

If so, please list with date:

Loading Dock Discharge Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, NY

In accordance with

1. ph and temperature of a representative water from the 4 locations indicated on Figure 1.
2. weather conditions (general- wet/ dry, avg temp) since last measurement
3. estimated volume of water pumped from loading dock (based upon pump run time data)
4. notes on condition of pond (visual)

Staff Member	Date of Measure-ment	Measurement Location						Pump Run Time*	Est. Quantity of Water **	Visual Condition of Pond (color, vegetation, etc.)	Comments (e.g. weather conditions, etc)
		Discharge Pipe		Northern Embayment		Main Pond (Combined Samples)					
		ph	Temp (°F)	ph	Temp (°F)	ph	Temp (°F)				
Dale A Barto	1/27/2021 9:00am										
Dale A Barto	2/26/2021 9:00am								102,198	Cloudy	
Dale A Barto	3/31/2021 10:30am	9.00	42	10.00	41	6.00	42		54,420	Cloudy	Raining
Dale A Barto	4/27/2021 9 :30am	11.00	46	7.00	45	6.00	44		88,820	Clear	Sunny
Dale A Barto	5/25/2021 9:00am	12.00	77	7.00	73	7.00	71		81,090	Clear	Sunny
Dale A Barto											
Dale A Barto											
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Dale A BArto											
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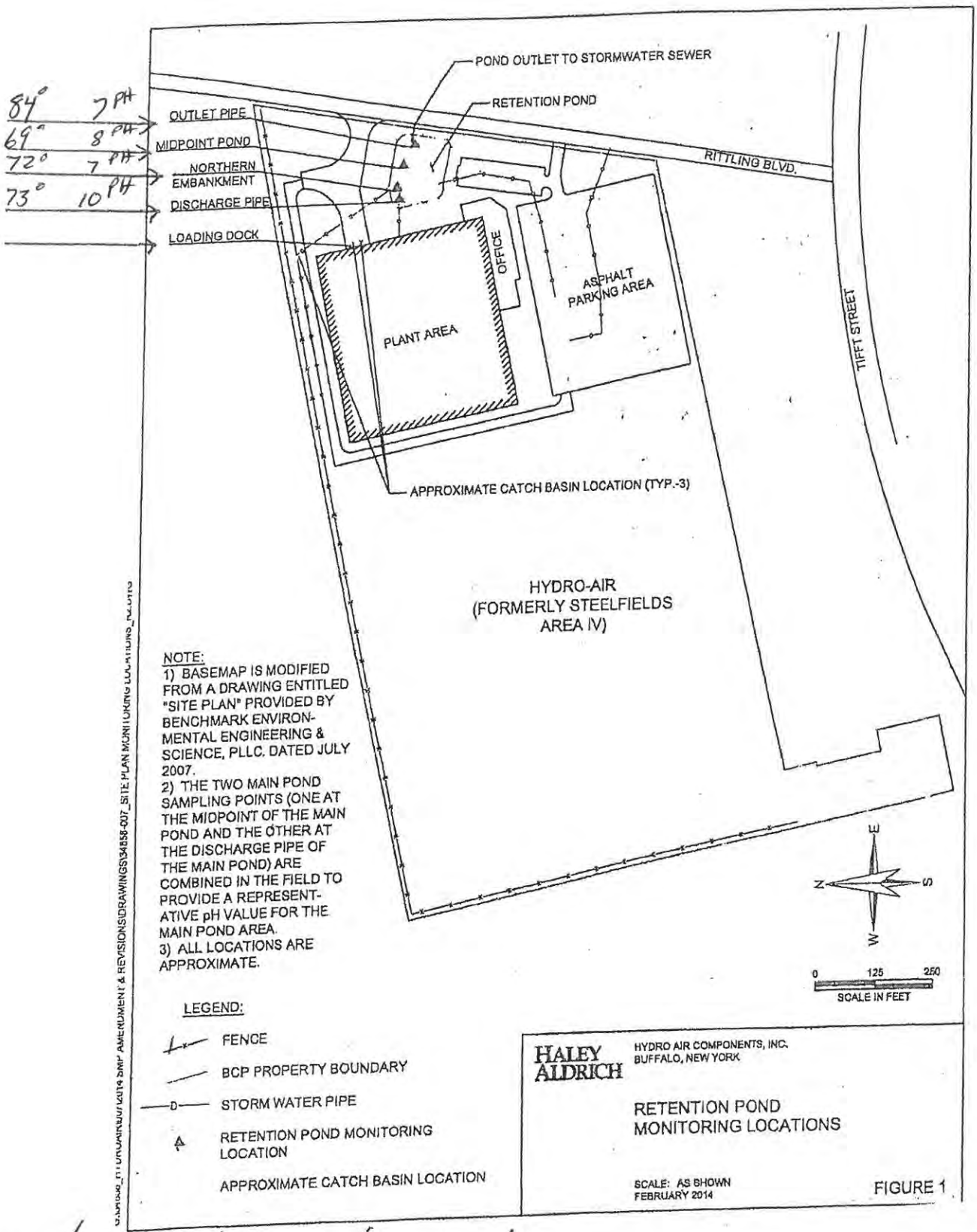
Dale A Barto											

6-30-21
9:00 Am

84° 7 PH
69° 8 PH
72° 7 PH
73° 10 PH



56,470 gallons; per HydroAir

1.10
Server Room

1.50 SE / 1.70 NE / 1.60 NW / 1.75 SW

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Project Name: | Project No.:

Project Location: | Client:

Preparer's Name: Dale A Berta | Date/Time: 6-30-21 9:00 AM

Notes:

Monthly Operating Status:

System(s) currently running? ☑ yes ☐ no

Has the system been off-line in the past month? ☐ yes ☑ no

If yes, please list the dates and brief description why (i.e. maintenance, part replacement, etc.):

What is the current Vacuum reading? 153

Visual Inspection:

Any piping disconnected?	☐ yes	☑ no
Any cracks visible in piping?	☐ yes	☑ no
Any new cracks visible in slab floor?	☐ yes	☑ no
Magnehelic guage reading 0?	☐ yes	☑ no

If yes to any question above, please provide more information below.

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Manufacturing

Has this general use changed in the past month? ☐ yes ☑ no

If yes, please explain:

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☑ no

If so, please list with date:

Loading Dock Discharge Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, NY

In accordance with

1. ph and temperature of a representative water from the 4 locations indicated on Figure 1.
2. weather conditions (general- wet/ dry, avg temp) since last measurement
3. estimated volume of water pumped from loading dock (based upon pump run time data)
4. notes on condition of pond (visual)

Staff Member	Date of Measure-ment	Measurement Location						Pump Run Time*	Est. Quantity of Water **	Visual Condition of Pond (color, vegetation, etc.)	Comments (e.g. weather conditions, etc)
		Discharge Pipe		Northern Embayment		Main Pond (Combined Samples)					
		ph	Temp (°F)	ph	Temp (°F)	ph	Temp (°F)				
Dale A Barto	1/27/2021 9:00am										
Dale A Barto	2/26/2021 9:00am								102,198	Cloudy	
Dale A Barto	3/31/2021 10:30am	9.00	42	10.00	41	6.00	42		54,420	Cloudy	Raining
Dale A Barto	4/27/2021 9 :30am	11.00	46	7.00	45	6.00	44		88,820	Clear	Sunny
Dale A Barto	5/25/2021 9:00am	12.00	77	7.00	73	7.00	71		81,090	Clear	Sunny
Dale A Barto	6/30/2021 9:00am	10.00	73	7.00	72	7.00	84		56,470	clear	Sunny
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A BArto											
Dale A Barto											
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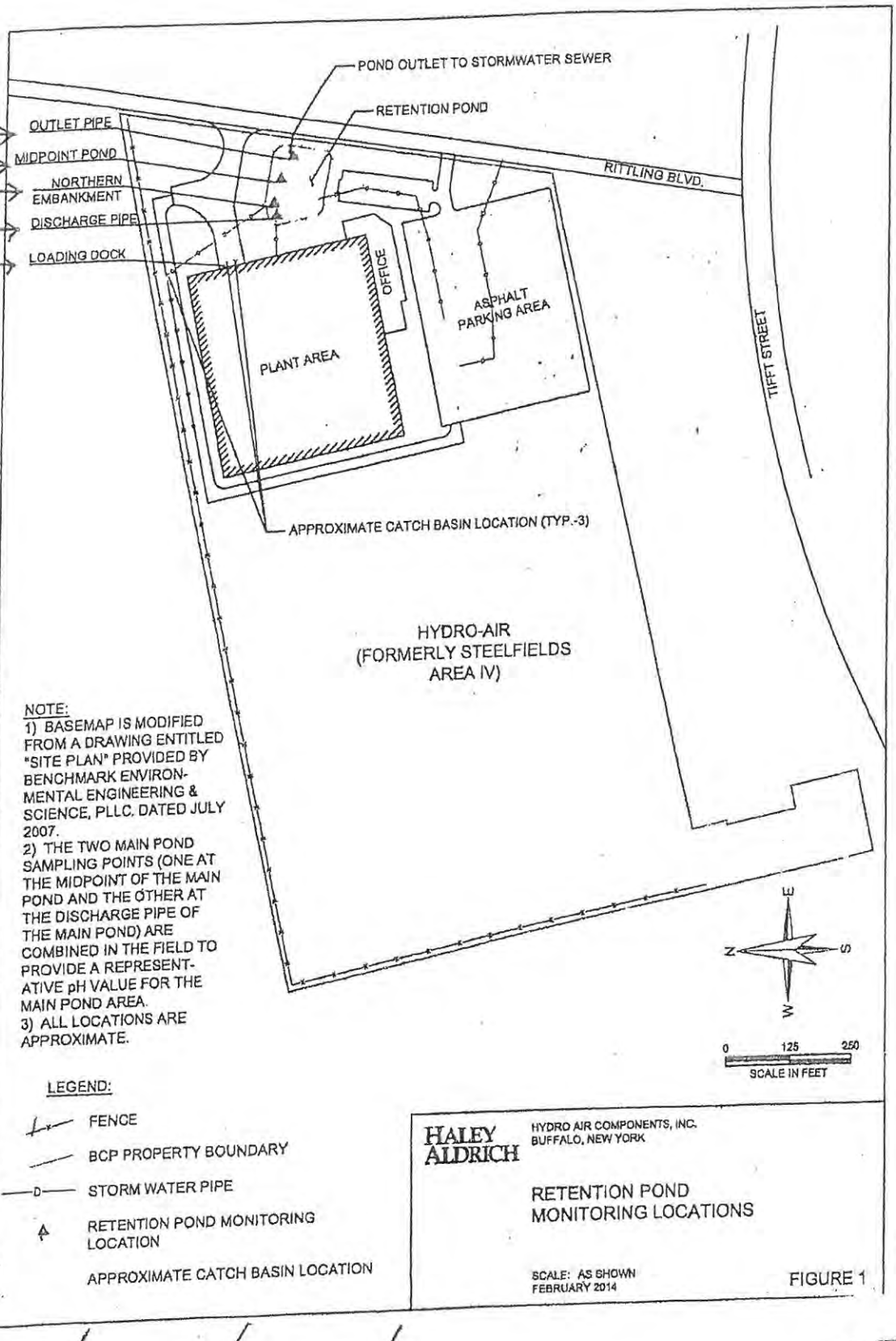
Magnehelic Readings

#1 Server Room Office
#2 S.E. Corner Cell 600/800
#3 N.E. Corner Warehouse
#4 N.W. Corner Cell 200
#5 S.W. Corner Cell 100

Date	#1 Server Room	#2 S.E. Corner	#3 N.E. Corner	#4 N.W. Corner	#5 S.W. Corner	Average
1/27/2021	1.15	1.35	1.70	1.20	1.70	1.42
2/26/2021	1.20	1.35	1.65	1.25	1.65	1.42
3/31/2021	1.15	1.45	1.70	1.40	1.65	1.47
4/27/2021	1.10	1.40	1.70	1.45	1.65	1.46
5/25/2021	1.15	1.45	1.65	1.50	1.70	1.49
6/30/2021	1.10	1.50	1.70	1.60	1.75	1.53
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00

7/28/2021

Ph 6 68°
Ph 7 68°
Ph 6 62°
Ph 12 67°



102,800 gallons; per HydroAir, 6/29/2022

~~1,028,000~~

1.10

Server Room

1.50 SE

1.70 NE

1.55 NW

1.75 SW

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Project Name: | Project No.:

Project Location: | Client:

Preparer's Name: Dale A Baito | Date/Time: 7/28/2021 9:30 AM

Notes:

Monthly Operating Status:

System(s) currently running? ☑ yes ☐ no

Has the system been off-line in the past month? ☐ yes ☑ no

If yes, please list the dates and brief description why (i.e. maintenance, part replacement, etc.):

What is the current Vacuum reading? 1.52

Visual Inspection:

Any piping disconnected?	☐ yes	☑ no
Any cracks visible in piping?	☐ yes	☑ no
Any new cracks visible in slab floor?	☐ yes	☑ no
Magnehelic guage reading 0?	☐ yes	☑ no

If yes to any question above, please provide more information below.

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Manufacturing

Has this general use changed in the past month? ☐ yes ☑ no

If yes, please explain:

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☑ no

If so, please list with date:

Magnehelic Readings

#1 Server Room Office
#2 S.E. Corner Cell 600/800
#3 N.E. Corner Warehouse
#4 N.W. Corner Cell 200
#5 S.W. Corner Cell 100

Date	#1 Server Room	#2 S.E. Corner	#3 N.E. Corner	#4 N.W. Corner	#5 S.W. Corner	Average
1/27/2021	1.15	1.35	1.70	1.20	1.70	1.42
2/26/2021	1.20	1.35	1.65	1.25	1.65	1.42
3/31/2021	1.15	1.45	1.70	1.40	1.65	1.47
4/27/2021	1.10	1.40	1.70	1.45	1.65	1.46
5/25/2021	1.15	1.45	1.65	1.50	1.70	1.49
6/30/2021	1.10	1.50	1.70	1.60	1.75	1.53
7/28/2021	1.10	1.50	1.70	1.55	1.75	1.52
						0.00
						0.00
						0.00
						0.00
						0.00

Loading Dock Discharge Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, NY

In accordance with

1. ph and temperature of a representative water from the 4 locations indicated on Figure 1.
2. weather conditions (general- wet/ dry, avg temp) since last measurement
3. estimated volume of water pumped from loading dock (based upon pump run time data)
4. notes on condition of pond (visual)

Staff Member	Date of Measure-ment	Measurement Location						Pump Run Time*	Est. Quantity of Water **	Visual Condition of Pond (color, vegetation, etc.)	Comments (e.g. weather conditions, etc)
		Discharge Pipe		Northern Embayment		Main Pond (Combined Samples)					
		ph	Temp (°F)	ph	Temp (°F)	ph	Temp (°F)				
Dale A Barto	1/27/2021 9:00am										
Dale A Barto	2/26/2021 9:00am										102,198 Cloudy
Dale A Barto	3/31/2021 10:30am	9.00	42	10.00	41	6.00	42		54,420	Cloudy	Raining
Dale A Barto	4/27/2021 9 :30am	11.00	46	7.00	45	6.00	44		88,820	Clear	Sunny
Dale A Barto	5/25/2021 9:00am	12.00	77	7.00	73	7.00	71		81,090	Clear	Sunny
Dale A Barto	6/30/2021 9:00am	10.00	73	7.00	72	7.00	84		56,470	clear	Sunny
Dale A Barto	7/28/2021 9:00am	12.00	68	6.00	67	12.00	67		1,028,000	clear	Sunny
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A BArto											
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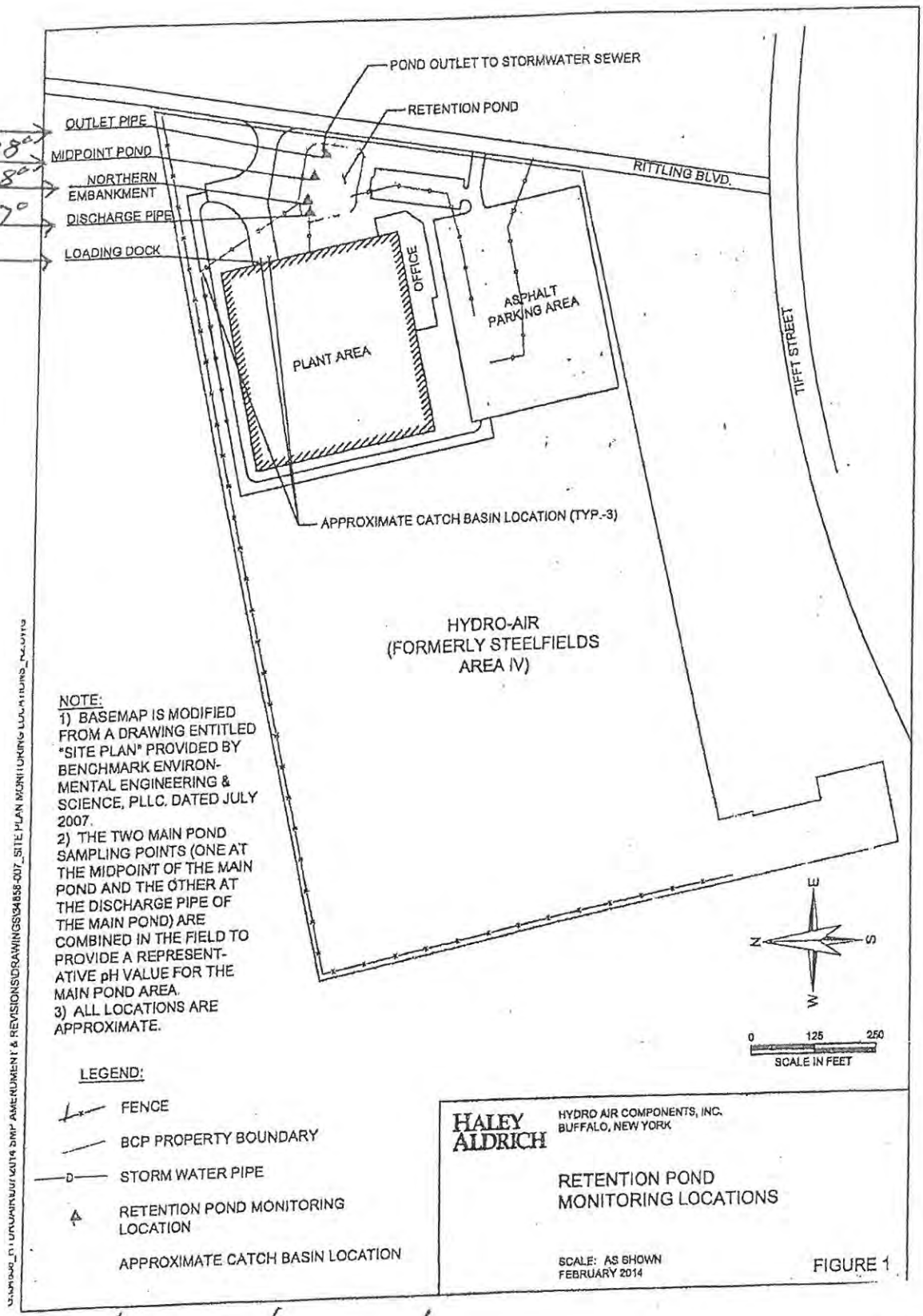
Dale A Barto											

8/26/2021
9:00 AM



7 78°
6 78°
10 77°
85,800

1.75 SE / 1.70 NE / 1.60 NW / 1.50 SW

1.15 Server Room

85,800 Pumped to Pond

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Project Name: | Project No.:

Project Location: | Client:

Preparer's Name: Dale A Barto | Date/Time: 8/26/21 9:00 Am

Notes:

Monthly Operating Status:

System(s) currently running? ☑ yes ☐ no

Has the system been off-line in the past month? ☐ yes ☑ no

If yes, please list the dates and brief description why (i.e. maintenance, part replacement, etc.):

What is the current Vacuum reading? 1.54

Visual Inspection:

Any piping disconnected?	☐ yes	☑ no
Any cracks visible in piping?	☐ yes	☑ no
Any new cracks visible in slab floor?	☐ yes	☑ no
Magnehelic guage reading 0?	☐ yes	☑ no

If yes to any question above, please provide more information below.

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Manufacturing

Has this general use changed in the past month? ☐ yes ☑ no

If yes, please explain:

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☑ no

If so, please list with date:

Loading Dock Discharge Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, NY

In accordance with

1. ph and temperature of a representative water from the 4 locations indicated on Figure 1.
2. weather conditions (general- wet/ dry, avg temp) since last measurement
3. estimated volume of water pumped from loading dock (based upon pump run time data)
4. notes on condition of pond (visual)

Staff Member	Date of Measure-ment	Measurement Location						Pump Run Time*	Est. Quantity of Water **	Visual Condition of Pond (color, vegetation, etc.)	Comments (e.g. weather conditions, etc)
		Discharge Pipe		Northern Embayment		Main Pond (Combined Samples)					
		ph	Temp (°F)	ph	Temp (°F)	ph	Temp (°F)				
Dale A Barto	1/27/2021 9:00am										
Dale A Barto	2/26/2021 9:00am									102,198	Cloudy
Dale A Barto	3/31/2021 10:30am	9.00	42	10.00	41	6.00	42		54,420	Cloudy	Raining
Dale A Barto	4/27/2021 9 :30am	11.00	46	7.00	45	6.00	44		88,820	Clear	Sunny
Dale A Barto	5/25/2021 9:00am	12.00	77	7.00	73	7.00	71		81,090	Clear	Sunny
Dale A Barto	6/30/2021 9:00am	10.00	73	7.00	72	7.00	84		56,470	clear	Sunny
Dale A Barto	7/28/2021 9:00am	12.00	68	6.00	67	12.00	67		1,028,000	clear	Sunny
Dale A Barto	8/26/2021 8:00am	10.00	77	6.00	78	7.00	78		85,800	clear	Sunny
Dale A Barto											
Dale A Barto											
Dale A BArto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
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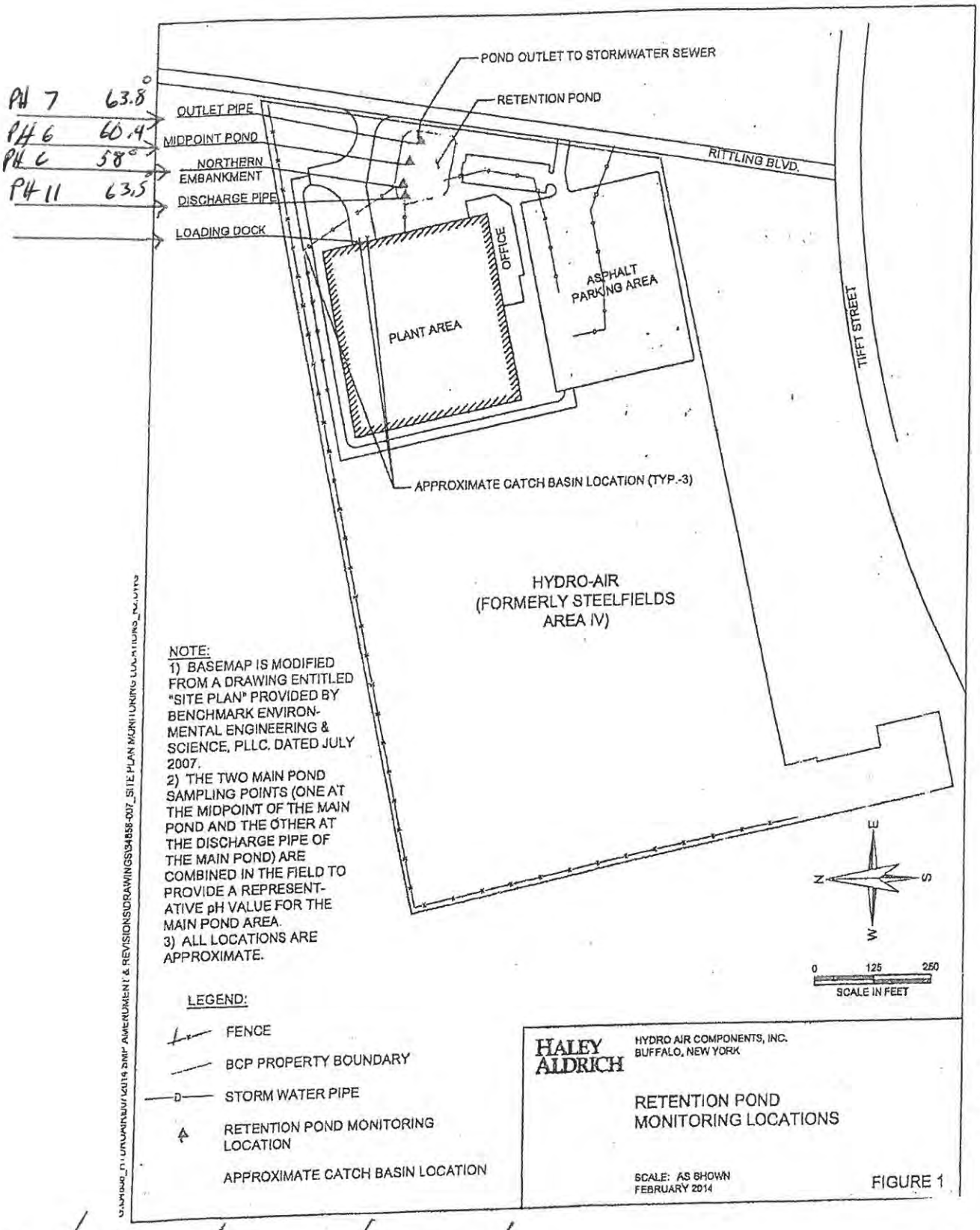
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											

Magnehelic Readings

#1 Server Room Office
#2 S.E. Corner Cell 600/800
#3 N.E. Corner Warehouse
#4 N.W. Corner Cell 200
#5 S.W. Corner Cell 100

Date	#1 Server Room	#2 S.E. Corner	#3 N.E. Corner	#4 N.W. Corner	#5 S.W. Corner	Average
1/27/2021	1.15	1.35	1.70	1.20	1.70	1.42
2/26/2021	1.20	1.35	1.65	1.25	1.65	1.42
3/31/2021	1.15	1.45	1.70	1.40	1.65	1.47
4/27/2021	1.10	1.40	1.70	1.45	1.65	1.46
5/25/2021	1.15	1.45	1.65	1.50	1.70	1.49
6/30/2021	1.10	1.50	1.70	1.60	1.75	1.53
7/28/2021	1.10	1.50	1.70	1.55	1.75	1.52
8/26/2021	1.15	1.75	1.70	1.60	1.50	1.54
						0.00
						0.00
						0.00
						0.00

9-30-21
12:00PM



pH 7 63.8°
pH 6 60.4°
pH C 58°
pH 11 63.5°

Meter Reading
112,000.

1.10
Server Room

1.50 / 1.70 / 1.55 / 1.70
SE / NE / NW / SW

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Project Name: _____ Project No.: _____

Project Location: _____ Client: _____

Preparer's Name: Dale A Barto Date/Time: 9-30-21 12:00 PM

Notes:

Monthly Operating Status:

System(s) currently running? ☑ yes ☐ no

Has the system been off-line in the past month? ☐ yes ☑ no

If yes, please list the dates and brief description why (i.e. maintenance, part replacement, etc.):

What is the current Vacuum reading? 1.51

Visual Inspection:

Any piping disconnected?	☐ yes	☑ no
Any cracks visible in piping?	☐ yes	☑ no
Any new cracks visible in slab floor?	☐ yes	☑ no
Magnehelic guage reading 0?	☐ yes	☑ no

If yes to any question above, please provide more information below.

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Manufacturing

Has this general use changed in the past month? ☐ yes ☑ no

If yes, please explain:

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☑ no

If so, please list with date:

Loading Dock Discharge Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, NY

In accordance with

1. ph and temperature of a representative water from the 4 locations indicated on Figure 1.
2. weather conditions (general- wet/ dry, avg temp) since last measurement
3. estimated volume of water pumped from loading dock (based upon pump run time data)
4. notes on condition of pond (visual)

Staff Member	Date of Measure-ment	Measurement Location						Pump Run Time*	Est. Quantity of Water **	Visual Condition of Pond (color, vegetation, etc.)	Comments (e.g. weather conditions, etc)
		Discharge Pipe		Northern Embayment		Main Pond (Combined Samples)					
		ph	Temp (°F)	ph	Temp (°F)	ph	Temp (°F)				
Dale A Barto	1/27/2021 9:00am										
Dale A Barto	2/26/2021 9:00am										
									102,198	Cloudy	
Dale A Barto	3/31/2021 10:30am	9.00	42	10.00	41	6.00	42		54,420	Cloudy	Raining
Dale A Barto	4/27/2021 9 :30am	11.00	46	7.00	45	6.00	44		88,820	Clear	Sunny
Dale A Barto	5/25/2021 9:00am	12.00	77	7.00	73	7.00	71		81,090	Clear	Sunny
Dale A Barto	6/30/2021 9:00am	10.00	73	7.00	72	7.00	84		56,470	clear	Sunny
Dale A Barto	7/28/2021 9:00am	12.00	68	6.00	67	12.00	67		1,028,000	clear	Sunny
Dale A Barto	8/26/2021 8:00am	10.00	77	6.00	78	7.00	78		85,800	clear	Sunny
Dale A Barto	9/30/2021 12:00pm	11.00	63	6.00	58	7.00	63		1,120,000	clear	cloudy
Dale A Barto											
Dale A BArto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
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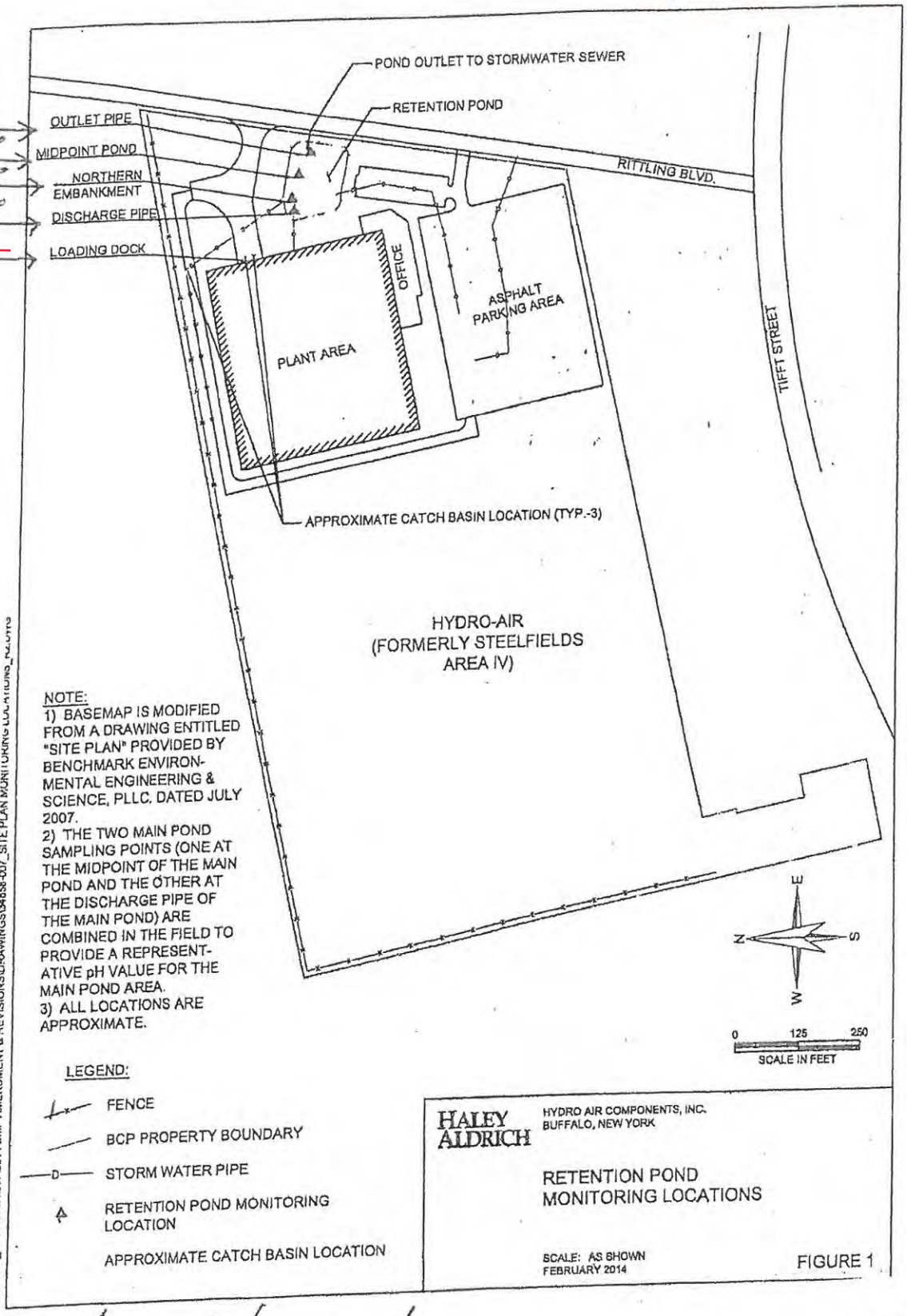
Dale A Barto											
Dale A Barto											

Magnehelic Readings

#1 Server Room Office
#2 S.E. Corner Cell 600/800
#3 N.E. Corner Warehouse
#4 N.W. Corner Cell 200
#5 S.W. Corner Cell 100

Date	#1 Server Room	#2 S.E. Corner	#3 N.E. Corner	#4 N.W. Corner	#5 S.W. Corner	Average
1/27/2021	1.15	1.35	1.70	1.20	1.70	1.42
2/26/2021	1.20	1.35	1.65	1.25	1.65	1.42
3/31/2021	1.15	1.45	1.70	1.40	1.65	1.47
4/27/2021	1.10	1.40	1.70	1.45	1.65	1.46
5/25/2021	1.15	1.45	1.65	1.50	1.70	1.49
6/30/2021	1.10	1.50	1.70	1.60	1.75	1.53
7/28/2021	1.10	1.50	1.70	1.55	1.75	1.52
8/26/2021	1.15	1.75	1.70	1.60	1.50	1.54
9/30/2021	1.10	1.50	1.70	1.55	1.70	1.51
						0.00
						0.00
						0.00

Dale & Bart
9:30 Am



pH 8 52°
pH 6 53°
pH 10 52°
~~1,726,000~~

172,600 gallons; per HydroAir, 6/29/2022

1,50 SE / 1,75 NE / 1,60 NW / 1,70 SW

1,10 Server Room

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Project Name: | Project No.:

Project Location: | Client:

Preparer's Name: Dah A Barto | Date/Time: 10/29/2021 9:30 Am

Notes:

Monthly Operating Status:

System(s) currently running? ☑ yes ☐ no

Has the system been off-line in the past month? ☐ yes ☑ no

If yes, please list the dates and brief description why (i.e. maintenance, part replacement, etc.):

What is the current Vacuum reading? 1.53

Visual Inspection:

Any piping disconnected?	☐ yes	☑ no
Any cracks visible in piping?	☐ yes	☑ no
Any new cracks visible in slab floor?	☐ yes	☑ no
Magnehelic guage reading 0?	☐ yes	☑ no

If yes to any question above, please provide more information below.

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Manufacturing

Has this general use changed in the past month? ☐ yes ☑ no

If yes, please explain:

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☑ no

If so, please list with date:

Loading Dock Discharge Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, NY

In accordance with

1. ph and temperature of a representative water from the 4 locations indicated on Figure 1.
2. weather conditions (general- wet/ dry, avg temp) since last measurement
3. estimated volume of water pumped from loading dock (based upon pump run time data)
4. notes on condition of pond (visual)

Staff Member	Date of Measure-ment	Measurement Location						Pump Run Time*	Est. Quantity of Water **	Visual Condition of Pond (color, vegetation, etc.)	Comments (e.g. weather conditions, etc)
		Discharge Pipe		Northern Embayment		Main Pond (Combined Samples)					
		ph	Temp (°F)	ph	Temp (°F)	ph	Temp (°F)				
Dale A Barto	1/27/2021 9:00am										
Dale A Barto	2/26/2021 9:00am										102,198 Cloudy
Dale A Barto	3/31/2021 10:30am	9.00	42	10.00	41	6.00	42		54,420	Cloudy	Raining
Dale A Barto	4/27/2021 9 :30am	11.00	46	7.00	45	6.00	44		88,820	Clear	Sunny
Dale A Barto	5/25/2021 9:00am	12.00	77	7.00	73	7.00	71		81,090	Clear	Sunny
Dale A Barto	6/30/2021 9:00am	10.00	73	7.00	72	7.00	84		56,470	clear	Sunny
Dale A Barto	7/28/2021 9:00am	12.00	68	6.00	67	12.00	67		1,028,000	clear	Sunny
Dale A Barto	8/26/2021 8:00am	10.00	77	6.00	78	7.00	78		85,800	clear	Sunny
Dale A Barto	9/30/2021 12:00pm	11.00	63	6.00	58	7.00	63		1,120,000	clear	cloudy
Dale A Barto	10/29/2021 9:30am	10.00	52	6.00	53	8.00	52		1,726,000	cloudy	cloudy
Dale A BArto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
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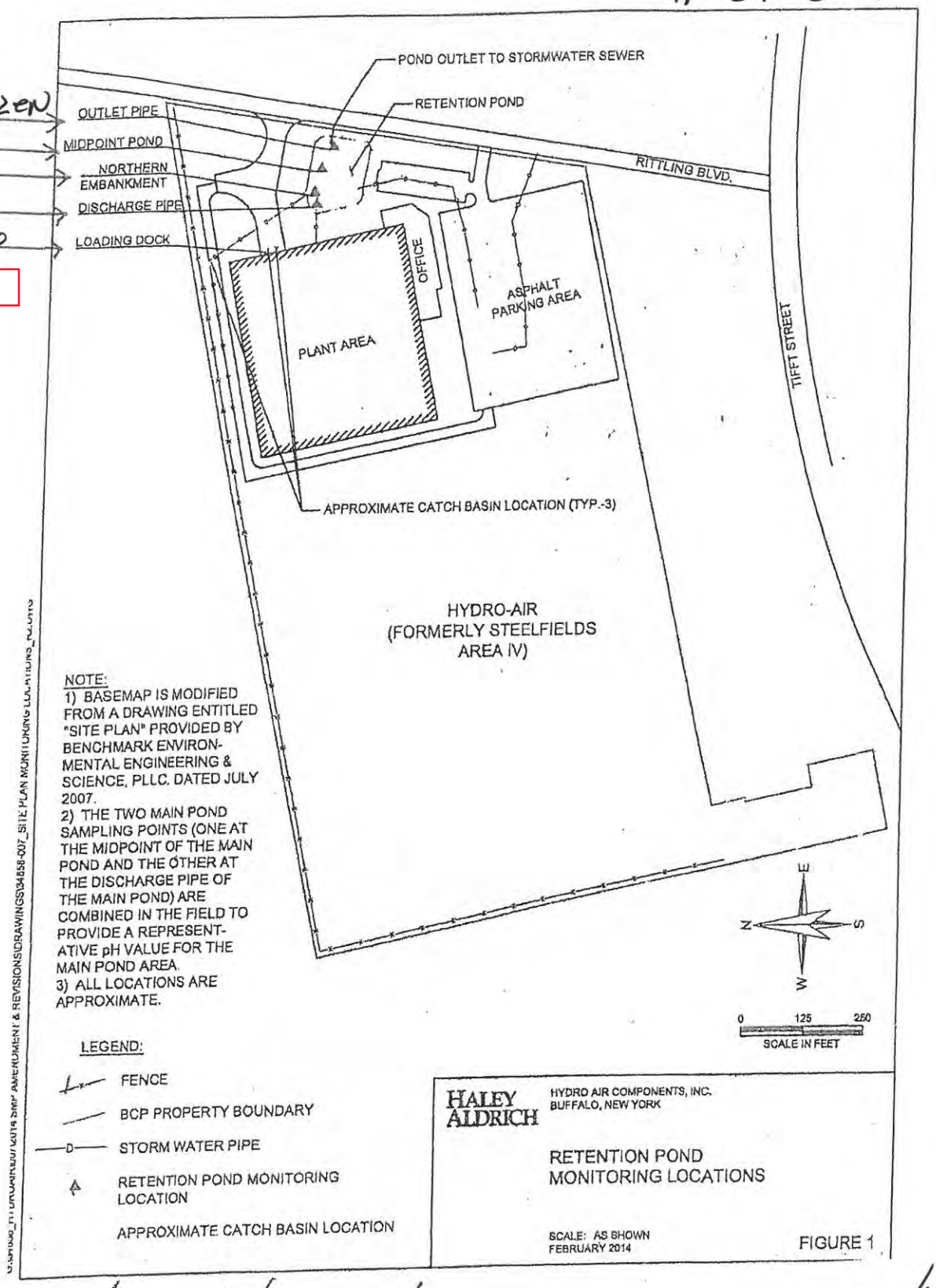
Dale A Barto											
Dale A Barto											

Magnehelic Readings

#1 Server Room Office
#2 S.E. Corner Cell 600/800
#3 N.E. Corner Warehouse
#4 N.W. Corner Cell 200
#5 S.W. Corner Cell 100

Date	#1 Server Room	#2 S.E. Corner	#3 N.E. Corner	#4 N.W. Corner	#5 S.W. Corner	Average
1/27/2021	1.15	1.35	1.70	1.20	1.70	1.42
2/26/2021	1.20	1.35	1.65	1.25	1.65	1.42
3/31/2021	1.15	1.45	1.70	1.40	1.65	1.47
4/27/2021	1.10	1.40	1.70	1.45	1.65	1.46
5/25/2021	1.15	1.45	1.65	1.50	1.70	1.49
6/30/2021	1.10	1.50	1.70	1.60	1.75	1.53
7/28/2021	1.10	1.50	1.70	1.55	1.75	1.52
8/26/2021	1.15	1.75	1.70	1.60	1.50	1.54
9/30/2021	1.10	1.50	1.70	1.55	1.70	1.51
10/29/2021	1.10	1.50	1.75	1.60	1.70	1.53
						0.00
						0.00

11-29-2021 8:00 Am



Pond Frozen

4923.00

197,300 gallons; per HydroAir, 6/29/2022

1.40 SE / 1.70 NE / 1.55 NW / 1.65 SW

1.15 Server Room

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Project Name: | Project No.:

Project Location: | Client:

Preparer's Name: Dale A Barts | Date/Time: 11-29-21 8:00 AM

Notes:

Monthly Operating Status:

System(s) currently running? ☑ yes ☐ no

Has the system been off-line in the past month? ☐ yes ☑ no

If yes, please list the dates and brief description why (i.e. maintenance, part replacement, etc.):

What is the current Vacuum reading? 1.49

Visual Inspection:

Any piping disconnected?	☐ yes	☑ no
Any cracks visible in piping?	☐ yes	☑ no
Any new cracks visible in slab floor?	☐ yes	☑ no
Magnehelic guage reading 0?	☐ yes	☑ no

If yes to any question above, please provide more information below.

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Manufacturing

Has this general use changed in the past month? ☐ yes ☑ no

If yes, please explain:

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☑ no

If so, please list with date:

Magnehelic Readings

#1 Server Room Office
#2 S.E. Corner Cell 600/800
#3 N.E. Corner Warehouse
#4 N.W. Corner Cell 200
#5 S.W. Corner Cell 100

Date	#1 Server Room	#2 S.E. Corner	#3 N.E. Corner	#4 N.W. Corner	#5 S.W. Corner	Average
1/27/2021	1.15	1.35	1.70	1.20	1.70	1.42
2/26/2021	1.20	1.35	1.65	1.25	1.65	1.42
3/31/2021	1.15	1.45	1.70	1.40	1.65	1.47
4/27/2021	1.10	1.40	1.70	1.45	1.65	1.46
5/25/2021	1.15	1.45	1.65	1.50	1.70	1.49
6/30/2021	1.10	1.50	1.70	1.60	1.75	1.53
7/28/2021	1.10	1.50	1.70	1.55	1.75	1.52
8/26/2021	1.15	1.75	1.70	1.60	1.50	1.54
9/30/2021	1.10	1.50	1.70	1.55	1.70	1.51
10/29/2021	1.10	1.50	1.75	1.60	1.70	1.53
11/29/2021	1.15	1.40	1.70	1.55	1.65	1.49
						0.00

Loading Dock Discharge Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, NY

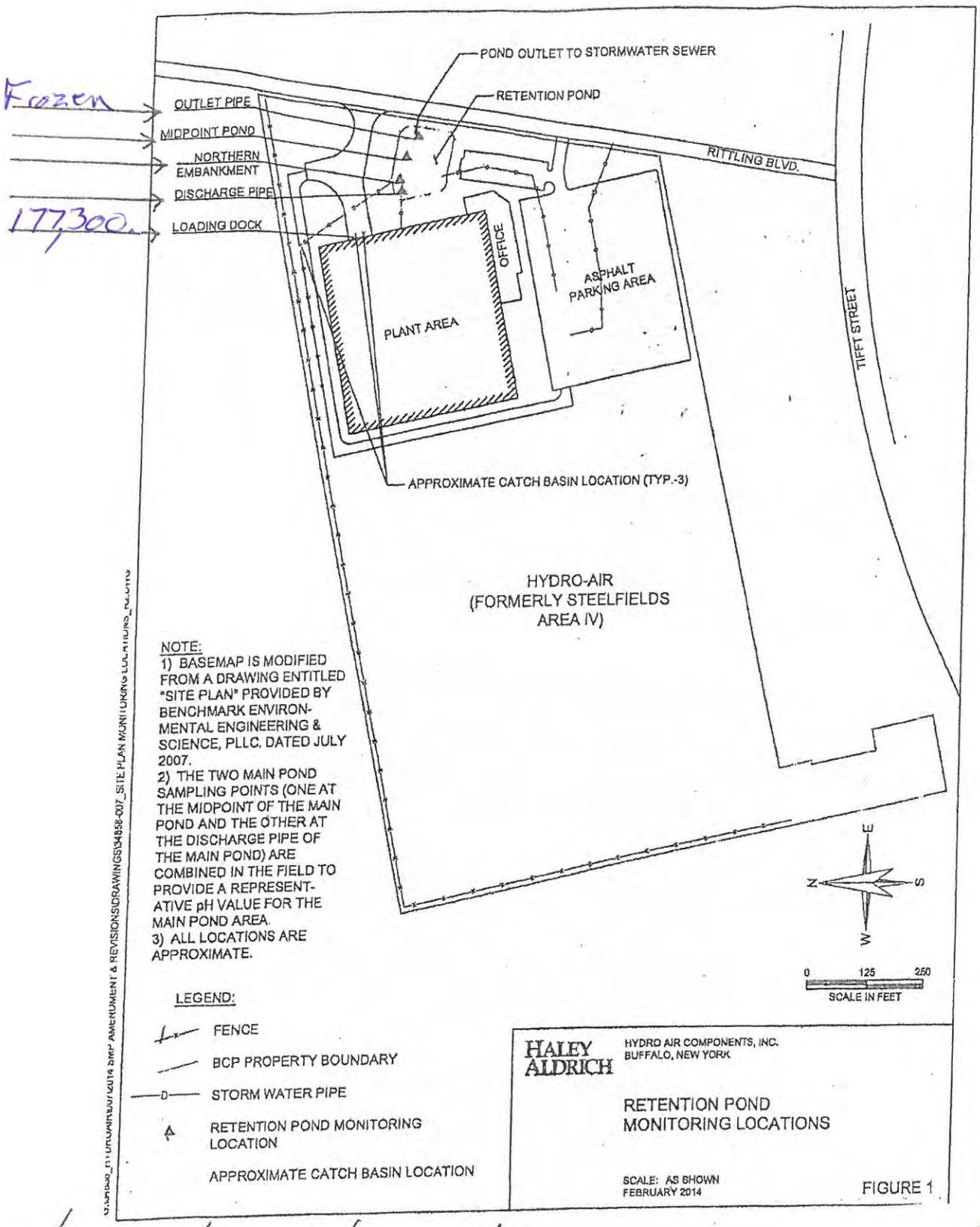
In accordance with

1. ph and temperature of a representative water from the 4 locations indicated on Figure 1.
2. weather conditions (general- wet/ dry, avg temp) since last measurement
3. estimated volume of water pumped from loading dock (based upon pump run time data)
4. notes on condition of pond (visual)

Staff Member	Date of Measure-ment	Measurement Location						Pump Run Time*	Est. Quantity of Water **	Visual Condition of Pond (color, vegetation, etc.)	Comments (e.g. weather conditions, etc)
		Discharge Pipe		Northern Embayment		Main Pond (Combined Samples)					
		ph	Temp (°F)	ph	Temp (°F)	ph	Temp (°F)				
Dale A Barto	1/27/2021 9:00am										
Dale A Barto	2/26/2021 9:00am										
Dale A Barto	3/31/2021 10:30am	9.00	42	10.00	41	6.00	42				
Dale A Barto	4/27/2021 9 :30am	11.00	46	7.00	45	6.00	44				
Dale A Barto	5/25/2021 9:00am	12.00	77	7.00	73	7.00	71				
Dale A Barto	6/30/2021 9:00am	10.00	73	7.00	72	7.00	84				
Dale A Barto	7/28/2021 9:00am	12.00	68	6.00	67	12.00	67				
Dale A Barto	8/26/2021 8:00am	10.00	77	6.00	78	7.00	78				
Dale A Barto	9/30/2021 12:00pm	11.00	63	6.00	58	7.00	63				
Dale A Barto	10/29/2021 9:30am	10.00	52	6.00	53	8.00	52				
Dale A BArto	11/29/2021 8:00am										

		102,198	Cloudy	
		54,420	Cloudy	Raining
		88,820	Clear	Sunny
		81,090	Clear	Sunny
		56,470	clear	Sunny
		1,028,000	clear	Sunny
		85,800	clear	Sunny
		1,120,000	clear	cloudy
		1,726,000	cloudy	cloudy
		197,300	frozen	snowing

12-22-21
9:00 Am



Frozen

177,300.

1,45 SE / 1,70 NE / 1,60 NW / 1,70 SW

1,15 Server Room

177,300. over to Pond

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Project Name: _____ Project No.: _____

Project Location: _____ Client: _____

Preparer's Name: Dale A Barto Date/Time: 12-22-21 9:00 AM

Notes:

Monthly Operating Status:

System(s) currently running? ☑ yes ☐ no

Has the system been off-line in the past month? ☐ yes ☑ no

If yes, please list the dates and brief description why (i.e. maintenance, part replacement, etc.):

What is the current Vacuum reading? 1.52

Visual Inspection:

Any piping disconnected?	☐ yes	☑ no
Any cracks visible in piping?	☐ yes	☑ no
Any new cracks visible in slab floor?	☐ yes	☑ no
Magnehelic guage reading 0?	☐ yes	☑ no

If yes to any question above, please provide more information below.

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Manufacturing

Has this general use changed in the past month? ☐ yes ☑ no

If yes, please explain:

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☑ no

If so, please list with date:

Loading Dock Discharge Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, NY

In accordance with

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2. weather conditions (general- wet/ dry, avg temp) since last measurement
3. estimated volume of water pumped from loading dock (based upon pump run time data)
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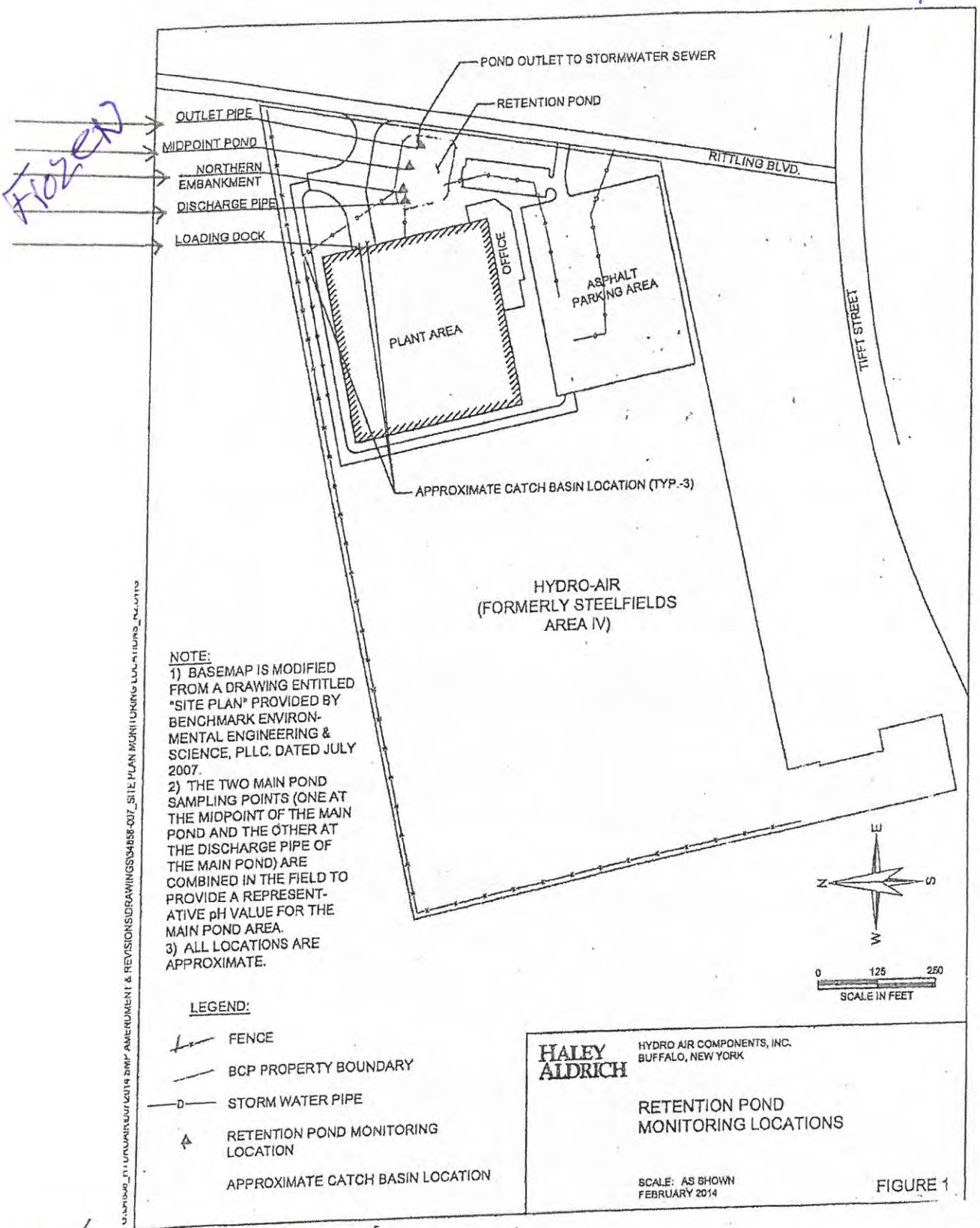
Staff Member	Date of Measure-ment	Measurement Location						Pump Run Time*	Est. Quantity of Water **	Visual Condition of Pond (color, vegetation, etc.)	Comments (e.g. weather conditions, etc)
		Discharge Pipe		Northern Embayment		Main Pond (Combined Samples)					
		ph	Temp (°F)	ph	Temp (°F)	ph	Temp (°F)				
Dale A Barto	1/27/2021 9:00am										
Dale A Barto	2/26/2021 9:00am								102,198	Cloudy	
Dale A Barto	3/31/2021 10:30am	9.00	42	10.00	41	6.00	42		54,420	Cloudy	Raining
Dale A Barto	4/27/2021 9 :30am	11.00	46	7.00	45	6.00	44		88,820	Clear	Sunny
Dale A Barto	5/25/2021 9:00am	12.00	77	7.00	73	7.00	71		81,090	Clear	Sunny
Dale A Barto	6/30/2021 9:00am	10.00	73	7.00	72	7.00	84		56,470	clear	Sunny
Dale A Barto	7/28/2021 9:00am	12.00	68	6.00	67	12.00	67		1,028,000	clear	Sunny
Dale A Barto	8/26/2021 8:00am	10.00	77	6.00	78	7.00	78		85,800	clear	Sunny
Dale A Barto	9/30/2021 12:00pm	11.00	63	6.00	58	7.00	63		1,120,000	clear	cloudy
Dale A Barto	10/29/2021 9:30am	10.00	52	6.00	53	8.00	52		1,726,000	cloudy	cloudy
Dale A BArto	11/29/2021 8:00am								197,300	frozen	snowing
Dale A Barto	12/23/2021 9:00am								177,300	Frozen	cloudy

Magnehelic Readings

#1 Server Room Office
#2 S.E. Corner Cell 600/800
#3 N.E. Corner Warehouse
#4 N.W. Corner Cell 200
#5 S.W. Corner Cell 100

Date	#1 Server Room	#2 S.E. Corner	#3 N.E. Corner	#4 N.W. Corner	#5 S.W. Corner	Average
1/27/2021	1.15	1.35	1.70	1.20	1.70	1.42
2/26/2021	1.20	1.35	1.65	1.25	1.65	1.42
3/31/2021	1.15	1.45	1.70	1.40	1.65	1.47
4/27/2021	1.10	1.40	1.70	1.45	1.65	1.46
5/25/2021	1.15	1.45	1.65	1.50	1.70	1.49
6/30/2021	1.10	1.50	1.70	1.60	1.75	1.53
7/28/2021	1.10	1.50	1.70	1.55	1.75	1.52
8/26/2021	1.15	1.75	1.70	1.60	1.50	1.54
9/30/2021	1.10	1.50	1.70	1.55	1.70	1.51
10/29/2021	1.10	1.50	1.75	1.60	1.70	1.53
11/29/2021	1.15	1.40	1.70	1.55	1.65	1.49
12/23/2021	1.15	1.45	1.70	1.60	1.70	1.52

1-31-22 9:00AM



1.40 SE / 1.70 NE / 1.50 NW / 1.70 SW

1.10 Server Room

204,000 gallons; per HydroAir tabulated data

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Project Name: | Project No.:

Project Location: | Client:

Preparer's Name: Dale A Barta | Date/Time: 1-31-22 9:00 AM

Notes:

Monthly Operating Status:

System(s) currently running? ☑ yes ☐ no

Has the system been off-line in the past month? ☐ yes ☑ no

If yes, please list the dates and brief description why (i.e. maintenance, part replacement, etc.):

What is the current Vacuum reading? 1.48

Visual Inspection:

Any piping disconnected?	☐ yes	☑ no
Any cracks visible in piping?	☐ yes	☑ no
Any new cracks visible in slab floor?	☐ yes	☑ no
Magnehelic guage reading 0?	☐ yes	☑ no

If yes to any question above, please provide more information below.

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Manufacturing

Has this general use changed in the past month? ☐ yes ☑ no

If yes, please explain:

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☑ no

If so, please list with date:

Magnehelic Readings

#1 Server Room Office
#2 S.E. Corner Cell 600/800
#3 N.E. Corner Warehouse
#4 N.W. Corner Cell 200
#5 S.W. Corner Cell 100

Date	#1 Server Room	#2 S.E. Corner	#3 N.E. Corner	#4 N.W. Corner	#5 S.W. Corner	Average
1/31/2022 9:00am	1.10	1.40	1.70	1.50	1.70	1.48
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00

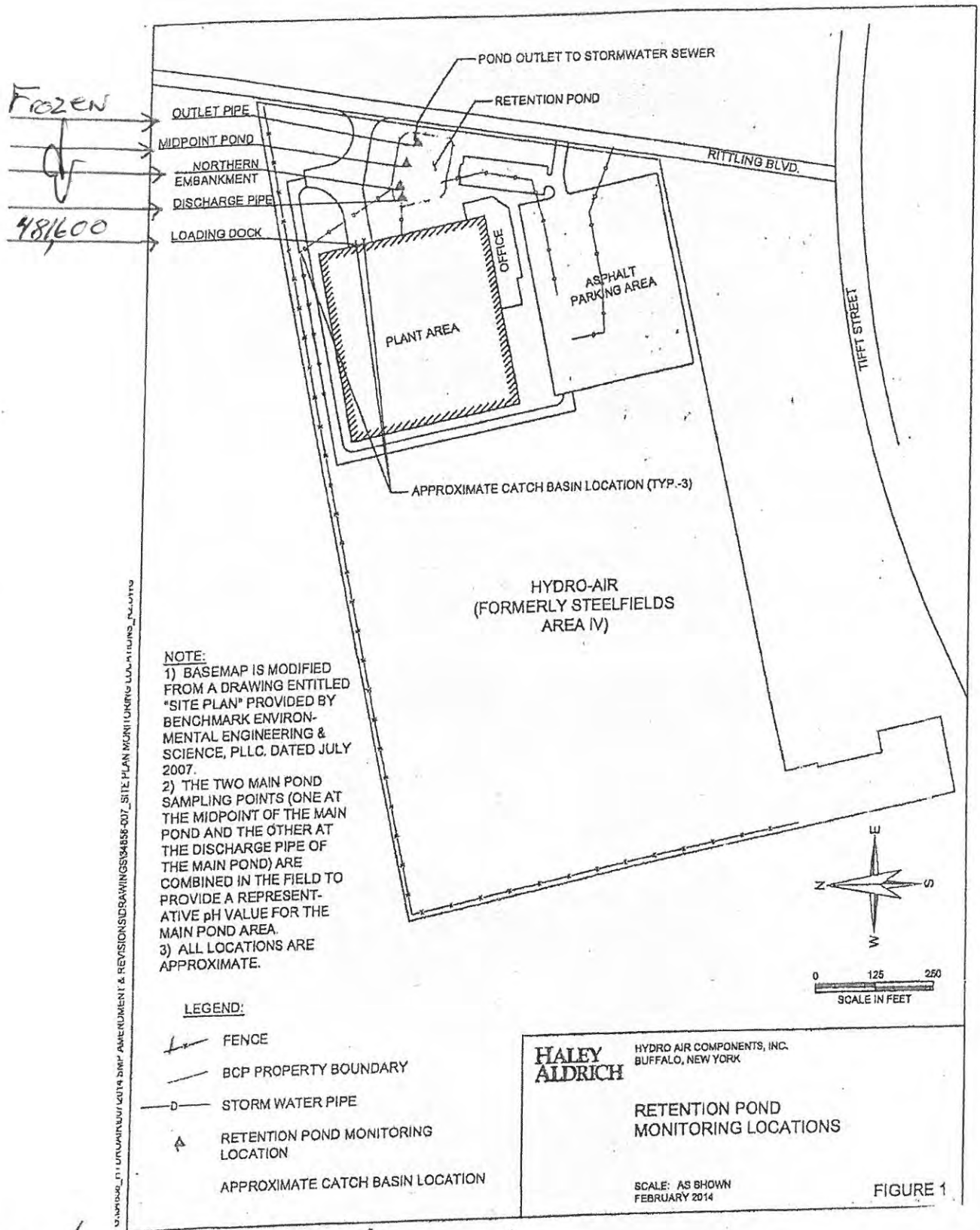
Loading Dock Discharge Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, NY

In accordance with

1. ph and temperature of a representative water from the 4 locations indicated on Figure 1.
2. weather conditions (general- wet/ dry, avg temp) since last measurement
3. estimated volume of water pumped from loading dock (based upon pump run time data)
4. notes on condition of pond (visual)

Staff Member	Date of Measure-ment	Measurement Location						Pump Run Time*	Est. Quantity of Water **	Visual Condition of Pond (color, vegetation, etc.)	Comments (e.g. weather conditions, etc)
		Discharge Pipe		Northern Embayment		Main Pond (Combined Samples)					
		ph	Temp (°F)	ph	Temp (°F)	ph	Temp (°F)				
Dale A Barto	1/31/22 9:00 AM								2o4,000	Frozen	Sunny
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A BArto											
Dale A Barto											

2/22/22
9:00 AM



Frozen

481,600

1.50 / SE

1.75 / NE

1.55 / NW

1.75 / SW

1.15 Server Room

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Project Name: | Project No.:

Project Location: | Client:

Preparer's Name: Dale A Barto | Date/Time: 2-22-22 9:00 AM

Notes:

Monthly Operating Status:

System(s) currently running? ☑ yes ☐ no

Has the system been off-line in the past month? ☐ yes ☑ no

If yes, please list the dates and brief description why (i.e. maintenance, part replacement, etc.):

What is the current Vacuum reading? 1.54

Visual Inspection:

Any piping disconnected?	☐ yes	☑ no
Any cracks visible in piping?	☐ yes	☑ no
Any new cracks visible in slab floor?	☐ yes	☑ no
Magnehelic guage reading 0?	☐ yes	☑ no

If yes to any question above, please provide more information below.

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Manufacturing

Has this general use changed in the past month? ☐ yes ☑ no

If yes, please explain:

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☑ no

If so, please list with date:

Loading Dock Discharge Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, NY

In accordance with

1. ph and temperature of a representative water from the 4 locations indicated on Figure 1.
2. weather conditions (general- wet/ dry, avg temp) since last measurement
3. estimated volume of water pumped from loading dock (based upon pump run time data)
4. notes on condition of pond (visual)

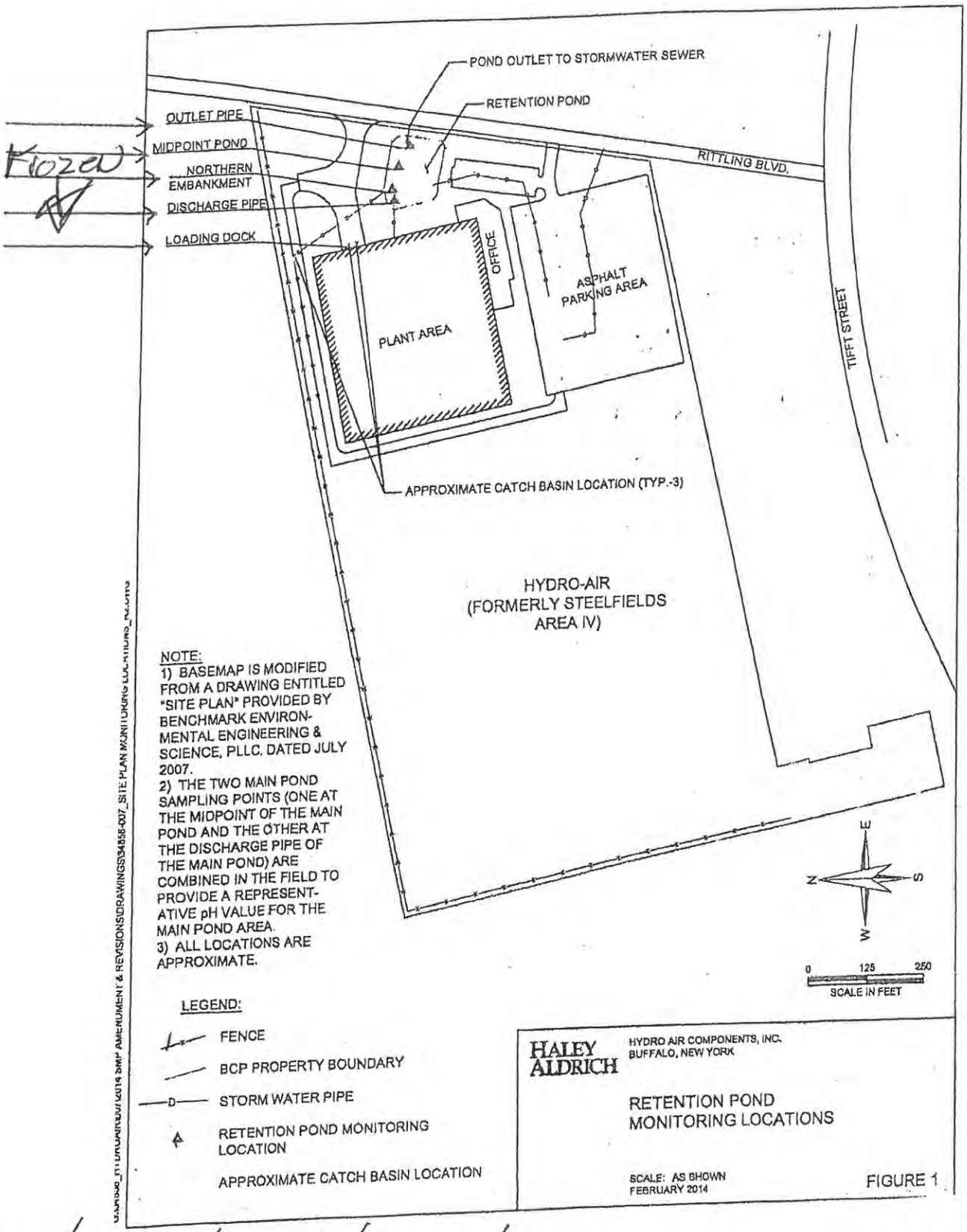
Staff Member	Date of Measure-ment	Measurement Location						Pump Run Time*	Est. Quantity of Water **	Visual Condition of Pond (color, vegetation, etc.)	Comments (e.g. weather conditions, etc)
		Discharge Pipe		Northern Embayment		Main Pond (Combined Samples)					
		ph	Temp (°F)	ph	Temp (°F)	ph	Temp (°F)				
Dale A Barto	1/31/22 9:00 AM								2o4,000	Frozen	Sunny
Dale A Barto	2/22/2022 9:00am								481,600	Frozen	Cloudy
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A BArto											
Dale A Barto											

Magnehelic Readings

#1 Server Room Office
#2 S.E. Corner Cell 600/800
#3 N.E. Corner Warehouse
#4 N.W. Corner Cell 200
#5 S.W. Corner Cell 100

Date	#1 Server Room	#2 S.E. Corner	#3 N.E. Corner	#4 N.W. Corner	#5 S.W. Corner	Average
1/31/2022 9:00am	1.10	1.40	1.70	1.50	1.70	1.48
2/22/2022	1.15	1.50	1.75	1.55	1.75	1.54
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00

3/28/2022
9:30AM



Frozen

Pump ↓
177,300

1.45 SE / 1.60 NE / 1.50 NW / 1.60 SW

1.05
Server Room

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Project Name: | Project No.:

Project Location: | Client:

Preparer's Name: Dale A Barto | Date/Time: 3/28/2022 9:30AM

Notes:

Monthly Operating Status:

System(s) currently running? ☑ yes ☐ no

Has the system been off-line in the past month? ☐ yes ☑ no

If yes, please list the dates and brief description why (i.e. maintenance, part replacement, etc.):

What is the current Vacuum reading? 1.44

Visual Inspection:

Any piping disconnected?	☐ yes	☑ no
Any cracks visible in piping?	☐ yes	☑ no
Any new cracks visible in slab floor?	☐ yes	☑ no
Magnehelic guage reading 0?	☐ yes	☑ no

If yes to any question above, please provide more information below.

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

Monthly Operation & Maintenance Log
Active Sub-Slab Depressurization System

Change in Occupancy / Use of Space:

Please indicate general use of floor space? Manufacturing

Has this general use changed in the past month? ☐ yes ☑ no

If yes, please explain:

System Modifications:

Have any modifications been made to the Sub-Slab Depressurization System? ☐ yes ☑ no

If so, please list with date:

Loading Dock Discharge Monitoring Form
Hydro-Air Components, Inc.
BCP Site #C915204, Buffalo, NY

In accordance with

1. ph and temperature of a representative water from the 4 locations indicated on Figure 1.
2. weather conditions (general- wet/ dry, avg temp) since last measurement
3. estimated volume of water pumped from loading dock (based upon pump run time data)
4. notes on condition of pond (visual)

Staff Member	Date of Measure-ment	Measurement Location						Pump Run Time*	Est. Quantity of Water **	Visual Condition of Pond (color, vegetation, etc.)	Comments (e.g. weather conditions, etc)
		Discharge Pipe		Northern Embayment		Main Pond (Combined Samples)					
		ph	Temp (°F)	ph	Temp (°F)	ph	Temp (°F)				
Dale A Barto	1/31/22 9:00 AM								2o4,000	Frozen	Sunny
Dale A Barto	2/22/2022 9:00am								481,600	Frozen	Cloudy
Dale A Barto	3/28/2022 9:30AM								177,300	Frozen	Cloudy
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A Barto											
Dale A BArto											
Dale A Barto											

Magnehelic Readings

#1 Server Room Office
#2 S.E. Corner Cell 600/800
#3 N.E. Corner Warehouse
#4 N.W. Corner Cell 200
#5 S.W. Corner Cell 100

Date	#1 Server Room	#2 S.E. Corner	#3 N.E. Corner	#4 N.W. Corner	#5 S.W. Corner	Average
1/31/2022 9:00am	1.10	1.40	1.70	1.50	1.70	1.48
2/22/2022 9:00AM	1.15	1.50	1.75	1.55	1.75	1.54
3/28/2022 9:30AM	1.05	1.45	1.60	1.50	1.60	1.44
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00

APPENDIX G
ORC Well Inspection Forms

ORC WELL ANNUAL INSPECTION FORM
Active ORC monitoring wells

Project Name: Zehnder Rifling | Project No.:

Project Location: Buffalo NY | Client:

Preparer's Name: | Date/Time: 7/7/21

	A4 - ORC - 1		A4 - ORC - 2		A4 - ORC - 3	
sampling dates:	7/7/21	1:29pm	7/7/21	10:49am	7/7/21	9:15am

Field groundwater quality measurements

	A4 - ORC - 1		A4 - ORC - 2		A4 - ORC - 3	
	TOC		TOC		TOC	
Water Level	10.32		~~12.86~~		12.61	
Bottom Depth	14.4		14.62		14.3'	
pH	3.66		3.21		4.09	
Temperature	25.8		17.42		16.28°C	
DO	6.17		3.35		8.42	
ORP	220		238		259	
Alkalinity	0		0		~180	

Refer to Figure 1 for well locations

Well integrity

Cement seal	☑ good	☐ poor	If poor please note well.
Pro - casing condition	☑ good	☐ poor	If poor please note any damage.
Lock condition	☑ good	☐ poor	If poor please note well.
Working J - plug	☑ yes	☐ no	If no please note well.

ORC Sock's

Have any Socks been replaced ☑ yes ☐ no

If replaced on what date and why. 7/7/21

- Part of annual sampling

Are socks fully submerged in well screens. ☑ yes ☐ no

If no explain why.

Are all ORC wells begin sampled and maintained according to the site management plan

☑ yes ☐ no

If no please state why.

Initial: JJ Date:

USED SOCKS WERE GIVEN TO PLANT MAINTENANCE FOR DISPOSAL (DADE BARTO)

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT: Hydro Air Sampling
LOCATION: Buffalo NY
CLIENT: Zehnder Rittling
CONTRACTOR: NW Contracting

H&A FILE NO.:
PROJECT MGR.: Jeff Jones
FIELD REP.:
SAMPLING DATE: 7/7/21

Sampling Data:

Well ID: AH-ORC-01
Start time: 1:29
Finish Time: 2:38
Well Depth: 14.4 ft from TOC
Depth To Top Of Screen: ft
Depth To Bottom Of Screen: ft
Initial Depth To Water: 4.48 ft
Depth Of Pump Intake: ft
Date Well Installed:
Purging Device: Peristaltic Pump
Tubing Present In Well: ☑ Yes ☐ No
Tubing Type: 3/8" OD

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	~~Pump Setting (ml/min) or (gal/min)~~	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C) +/-___%	pH +/-___	Conduct-ivity (us/cm) +/-___%	Dissolved Oxygen (mg/L) +/-___%	Turbidity (NTU) <___NTU	ORP/eH (mv) +/-___mv	Comments
1:29 0	4.48			0							casing height: 2.15
1:39 10	6.16		0.1	1	16.42	3.79	27.9	5.46	7.5	231	
1:49 20	7.16		0.1	2	16.87	3.74	27.1	5.51	10.3	229	water column: 9.92
1:59 30	8.07		0.1	3	16.17	3.74	26.7	6.72	8.8	227	5.67
2:08 39	8.76		0.1	4	15.64	3.71	26.8	4.41	24.4	225	well vol: 6.65 gal
2:18 49	9.48		0.1	5	15.49	3.72	26.4	4.37	16.4	223	
2:28 59	10.00		0.1	6	14.87	3.72	26.1	4.45	15.3	224	
2:38 69	10.32		0.1	7	14.93	3.66	25.8	6.10	14.3	220	
											Alkalinity: 0
											Sock changed on 7/7/21
											CO2: Water is too contaminated for test to work. - water is very off color, titration is unreliable.

Form 3010

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT: Hydro Air Sampling
LOCATION: Buffalo NY
CLIENT: Zehnder Rittling
CONTRACTOR: NW Contracting

H&A FILE NO.
PROJECT MGR.: Jerry Jones
FIELD REP.
SAMPLING DATE: 7/7/21

Sampling Data:

Well ID: A4-ORC-02
Start time: 10:49
Finish Time: 12:58
Well Depth: 14.62 ft (From TOC)
Depth To Top Of Screen: ft
Depth To Bottom Of Screen: ft
Initial Depth To Water: 1.18 ft
Depth Of Pump Intake: ft
Date Well Installed:
Purging Device: Peristaltic Pump
Tubing Present In Well: ☑ Yes ☐ No
Tubing Type: 3/8" OD

	Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C) +/-___%	pH +/-___	Conduct-ivity (us/cm) +/-___%	Dissolved Oxygen (mg/L) +/-___%	Turbidity (NTU) <___NTU	ORP/eH (mv) +/-___mv	Comments
10:49	0	1.18			~~1~~	~~16.3~~	~~3.6~~	~~35.8~~	~~6.4~~	~~44.8~~	206	casing height 2.5'
10:59	10	3.53		0.1	1	16.3	3.6	35.8	6.4	44.8	206	
11:09	20	4.65		0.1	2	15.81	3.61	24.9	5.65	27.4	210	water column: 13.44'
11:20	31	6.1		.09	3	16.22	3.58	26.2	5.16	48.8	218	
11:31	42	7.35		.09	4	16.56	3.57	26.2	4.64	39.5	218	well volume: 9 gal
11:46	57	8.58		.07	5	16.43	3.55	27.6	4.99	40.0	192	
11:57	68	9.97		.09	6	18.0	3.57	25.3	3.01	58.8	298	slow recharge
12:10	82	11.20		.07	7	16.85	3.39	36.4	4.65	47.8	234	
12:22	94	11.91		.08	8	16.3	3.4	35.6	4.52	50.9	207	sock changed on 7/7/21
12:32	104	12.05		0.1	9	14.98	3.39	35.7	3.81	34.8	218	
12:45	116	12.61		.08	10	15.41	3.41	35.3	3.28	21.8	216	
12:58	129	12.86			11	17.42	3.21	39.4	3.35	800	238	
												→ water looked cleaner - meter went up to 800 then started blinking

Form 3010

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

Page of

PROJECT: Zehnder Rittling
LOCATION: Buttalo, NY
CLIENT: Zehnder Rittling
CONTRACTOR: Nw contracting

H&A FILE NO.
PROJECT MGR.: Jerry Jones
FIELD REP.
SAMPLING DATE: 8/7/24

Sampling Data:

Well ID: AH-ORC-03
Start time: 9:28 am
Finish Time: 10:28 am
Well Depth: 14.3' from TOC ft
Depth To Top Of Screen: ft
Depth To Bottom Of Screen: ft
Initial Depth To Water: 5.92 ft
Depth Of Pump Intake: ft
Date Well Installed:
Purging Device: Positive Air
Tubing Present In Well: ☑ Yes ☐ No
Tubing Type: 3/8" OD

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C) +/-__%	pH +/-__	Conduct-ivity (us/cm) +/-__%	Dissolved Oxygen (mg/L) +/-__%	Turbidity (NTU) <__NTU	ORP/eH (mv) +/-__mv	Comments
9:26 0:00	5.92			~~1~~	~~17.18~~	4.02	~~21.5~~	~~8.35~~	~~182~~	~~277~~	8.38 - water column
9:40 12	8.23		.08	1	17.18	<1.02	21.5	8.35	182	277	x.67
9:55 27	9.37		.07	2	16.14	4.00	21.5	6.89	193	274	5.61 gal = 1 well volume
10:11 43	~~11.07~~		.06	3	16.78	4.04	21.3	6.72	156	258	
10:28 60	12.61		.06	4	16.28	4.09	17.4	8.42	356	259	
											casing height 2.25'
											Very slow recharge
											material at bottom 4" of well
											well Dry after 4 gal

Sock changed on 7/2/24

Form 3010

APPENDIX H
Groundwater Sampling Field Monitoring Forms

LOW FLOW/MNA FIELD SAMPLING FORM

HALEY ALDRICH

PROJECT: Hydro Air Sampling
LOCATION: Buffalo, NY
CLIENT: Zehnder Rittling
CONTRACTOR: NW Contracting

H&A FILE NO.:
PROJECT MGR.: Jerry Jones
FIELD REP.:
SAMPLING DATE: 7-12-21

Sampling Data:

Well ID: A4-MW-5R
Start time: 2:15
Finish Time:
Well Depth: 11.20 ← top of PVC ft
Depth To Top Of Screen: ft
Depth To Bottom Of Screen: ft
Initial Depth To Water: 4.81 ft
Depth Of Pump Intake: ft
Date Well Installed:
Purging Device: Peristatic
Tubing Present In Well: ☑ Yes ☐ No
Tubing Type: 3/8" OD

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C) +/-___%	pH +/-___	Conduct-ivity (us/cm) +/-___%	Dissolved Oxygen (mg/L) +/-___%	Turbidity (NTU) <___NTU	ORP/eH (mv) +/-___mv	Comments
2:15	0	4.81									well volume: ~~1.15 gal~~ 1.09gal
2:20	5	7.01		0.20	1	15.80	7.67	0.849	4.93	11.8	-115	11.20 - 4.81
2:26	11	8.16		0.17	2	15.27	7.31	0.957	3.51	2.0	-100	x .17
2:32	17	9.43		0.17	3	14.97	7.48	0.910	3.01	0.1	-104	~~1.15 gal~~ 1.09gal
2:39	24	10.49		0.14	4	14.69	7.36	0.838	3.30	1.1	-91	
2:49	34	10.94	slowed down pump	0.05	4.5	15.13	7.47	0.869	4.24	1.4	-89	casing height: ground level
												CO2: 96 x 2 = 192 mg/L of CO_2
												Alkalinity: 397
												Samples collected at 2:55pm
												Slow recharge

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT: Hydro Air Sampling
LOCATION: Buffalo, NY
CLIENT: Zehnler Rifling
CONTRACTOR: NW Contracting

H&A FILE NO.:
PROJECT MGR.: Jerry Jones
FIELD REP.:
SAMPLING DATE: 7-12-21

Sampling Data:

Well ID: A4-MW-7R
Start time: 12:23
Finish Time: 1:02
Well Depth: 13.60 ft
Depth To Top Of Screen: ft
Depth To Bottom Of Screen: ft
Initial Depth To Water: 3.38 ft
Depth Of Pump Intake: ft
Date Well Installed:
Purging Device: peristatic
Tubing Present In Well: ☑ Yes ☐ No
Tubing Type: 3/8" OD

	Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C) +/- ___%	pH +/- ___	Conduct-ivity (us/cm) +/- ___%	Dissolved Oxygen (mg/L) +/- ___%	Turbidity (NTU) <___NTU	ORP/eH (mv) +/- ___ mv	Comments
12:23	0	3.38										Well volume: 1.74 gal
12:29	6	6.64		0.17	1	14.96	6.60	3.25	9.00	20.8	-7	13.60 − 3.38 × .17 = 1.74 gal
12:35	12	7.35		0.17	2	13.51	6.19	3.28	8.42	4.5	-3	
12:40	17	7.40		0.20	3	13.88	6.35	3.09	3.42	0.2	-41	
12:45	22	7.42		0.20	4	13.39	6.55	2.90	3.16	0.2	-54	casing height: 2.0'
12:51	28	7.51		0.17	5	13.34	6.57	2.73	3.19	0	-58	
12:56	33	7.43		0.20	6	13.37	6.56	2.66	3.61	0	-61	CO_2: 100 · 2 = 200 mg/L of CO_2
1:02	39	7.40		0.17	7	13.38	6.60	2.60	3.16	0	-74	
												Alkalinity: 323
												SAMPLES COLLECTED AT 1:05pm

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT: Hydro Air Sampling
LOCATION: Buffalo, NY
CLIENT: Zehnler Rittling
CONTRACTOR: NW Contracting

H&A FILE NO.:
PROJECT MGR.: Jerry Jones
FIELD REP.:
SAMPLING DATE: 7-12-21

Sampling Data:

Well ID: A4-MW-8R
Start time: 10:54
Finish Time: 11:55
Well Depth: 15.2 ft
Depth To Top Of Screen: ft
Depth To Bottom Of Screen: ft
Initial Depth To Water: 5.00 ft
Depth Of Pump Intake: ft
Date Well Installed:
Purging Device: peristatic
Tubing Present In Well: ☑ Yes ☐ No
Tubing Type: 318" OD

	Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C) +/-___%	pH +/-___	Conduct-ivity (us/cm) +/-___%	Dissolved Oxygen (mg/L) +/-___%	Turbidity (NTU) <___NTU	ORP/eH (mv) +/-___mv	Comments
10:54	0	5.00										Well volume: 1.73 gal
11:03	9	6.42		0.11	1	14.88	6.57	4.08	13.66	9.8	-48	15.2 - 5.00 x .17 = 1.73 gal
11:15	21	7.85		0.08	2	15.57	6.88	4.04	3.29	29.4	-69	
11:19	25	8.55		0.25	3	13.00	6.92	3.80	4.50	12.9	-71	
11:24	30	8.90		0.20	4	12.62	6.59	3.83	3.89	8.3	-57	
11:29	35	~~8.90~~ 7.92		0.20	5	12.36	6.55	3.79	4.51	3.0	-52	casing height: 3.7'
11:34	40	7.92		0.20	6	12.55	6.66	3.83	4.21	2.4	-65	
11:40	46	~~8.92~~		0.17	7	13.05	6.57	3.89	4.11	5.3	-64	changed pump speed
11:45	51	7.95		0.20	8	12.95	6.63	3.85	4.33	4.2	-54	from 350rpm to 600rpm
11:55	61	7.95		0.10	9	12.81	6.55	3.98	3.85	0.5	-57	
												water has light yellow color ↳no sediment
												CO2: 78.2 = 156 mg/L of CO2 ←green
												Alkalinity: 929
												Samples collected at 12:00pm

Form 3010

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT: Hydro Air Sampling
LOCATION: Buffalo, NY
CLIENT: Zenner Rittling
CONTRACTOR: NW contracting

H&A FILE NO.:
PROJECT MGR.: Jerry Jones
FIELD REP.:
SAMPLING DATE: 7/12/21

Sampling Data:

Well ID: A4-MW-9 | Well Depth: 13.5 ft | Initial Depth To Water: 6.08 ft | Purging Device: peristatic
Start time: 9:12 | Depth To Top Of Screen: ft | Depth Of Pump Intake: ft | Tubing Present In Well: ☑ Yes ☐ No
Finish Time: 10:11 | Depth To Bottom Of Screen: ft | Date Well Installed: | Tubing Type: 3/8" OD

	Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temp-erature (°F) or (°C) +/- ___%	pH +/- ___	Conduct-ivity (us/cm) +/- ___%	Dissolved Oxygen (mg/L) +/- ___%	Turbidity (NTU) < ___NTU	ORP/eH (mv) +/- ___ mv	Comments
9:12	0	6.08										13.5 Casing height: 2.5
9:24	12	8.10		0.08	1	15.22	5.98	3.40	14.69	29.0	-85	- 6.08
9:33	21	8.67		0.11	2	14.31	6.91	3.05	9.49	4.8	-87	× .17
9:43	31	8.93		0.10	3	14.03	6.95	3.13	11.91	1.3	-97	1.2 Legal well volume
9:52	40	9.33		0.11	4	12.95	6.91	3.16	5.68	0.6	-95	
10:01	49	9.65		0.11	5	12.94	6.90	3.17	10.19	0.4	-94	
10:11	59	9.89		0.10	6	12.91	6.91	3.23	8.01	0.4	-103	CO_2 calculation (turned green)
												103 × 2.0 = 206 mg/L of CO_2
												Alkalinity: 491
												samples collected at 10:15 am

HALEY ALDRICH

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT: Hydro Air Sampling
LOCATION: Buffalo, NY
CLIENT: Zehnler Rittling
CONTRACTOR: NW Contracting

H&A FILE NO.:
PROJECT MGR.: Jerry Jones
FIELD REP.:
SAMPLING DATE: 7/12/21

Sampling Data:

Well ID: A4-MW-10
Start time: 1:20
Finish Time: 1:45
Well Depth: 15.55 ft
Depth To Top Of Screen: ft
Depth To Bottom Of Screen: ft
Initial Depth To Water: 5.99 ft
Depth Of Pump Intake: ft
Date Well Installed:
Purging Device: peristatic
Tubing Present In Well: ☑ Yes ☐ No
Tubing Type: 3/8" OD

	Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C) +/- ___%	pH +/- ___	Conductivity (us/cm) +/- ___%	Dissolved Oxygen (mg/L) +/- ___%	Turbidity (NTU) < ___NTU	ORP/eH (mv) +/- ___ mv	Comments
1:20	0	5.99										Well volume: 1.63 gal
1:26	6	7.11		0.17	1	14.61	7.12	1.53	2.63	10.3	-74	15.55 - 5.99 x.17 = 1.63 gal
1:30	10	7.21		0.25	2	13.33	7.28	1.43	3.16	6.5	-96	
1:35	15	7.25		0.20	3	13.25	7.30	1.39	2.88	5.0	-103	
1:40	20	7.31		0.20	4	13.31	7.31	1.34	3.22	2.5	-105	Casing height: 3.5'
1:45	25	7.35		0.20	5	13.47	7.40	1.31	2.66	2.9	-101	
												CO_2: 285 x 2 = 570 mg/L of CO_2
												↳ solid began to form
												Alkalinity: 824
												Samples collected at 1:45pm

Form 3010

APPENDIX I
Groundwater Analytical Data – July 2021

ANALYTICAL REPORT

Lab Number:	L2137489
Client:	NW Contracting 3553 Crittenden Rd Alden, NY 14004
ATTN:	Dale Gramza
Phone:	(716) 937-6527
Project Name:	ZEHNDER RITTLING HYDRO AIR
Project Number:	20-014
Report Date:	08/06/21

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ZEHNDER RITTLING HYDRO AIR
Project Number: 20-014

Lab Number: L2137489
Report Date: 08/06/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2137489-01	A4-MW-5R	WATER	BUFFALO, NY	07/12/21 14:55	07/13/21
L2137489-02	A4-MW-7R	WATER	BUFFALO, NY	07/12/21 13:05	07/13/21
L2137489-03	A4-MW-8R	WATER	BUFFALO, NY	07/12/21 12:00	07/13/21
L2137489-04	A4-MW-9	WATER	BUFFALO, NY	07/12/21 10:15	07/13/21
L2137489-05	A4-MW-10	WATER	BUFFALO, NY	07/12/21 13:45	07/13/21
L2137489-06	TRIP BLANK	WATER	BUFFALO, NY	07/12/21 00:00	07/13/21

Project Name:	ZEHNDER RITTLING HYDRO AIR	**Lab Number:**	L2137489
Project Number:	20-014	**Report Date:**	08/06/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ZEHNDER RITTLING HYDRO AIR	**Lab Number:**	L2137489
Project Number:	20-014	**Report Date:**	08/06/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2137489-05: The sample identified as "A4-MW-10R" on the chain of custody was identified as "A4-MW-10" on the container label. At the client's request, the sample is reported as "A4-MW-10".

L2137489-06: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. This sample was analyzed.

L2137489-03 and -04: Headspace was noted in the sample containers submitted for Total Alkalinity - SM 2320.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Sebastian Corbin

Title: Technical Director/Representative Date: 08/06/21

ORGANICS

VOLATILES

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-01
Client ID: A4-MW-5R
Sample Location: BUFFALO, NY

Date Collected: 07/12/21 14:55
Date Received: 07/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/23/21 03:01
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	7.1		ug/l	0.50	0.16	1
Toluene	0.72	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-02
Client ID: A4-MW-7R
Sample Location: BUFFALO, NY

Date Collected: 07/12/21 13:05
Date Received: 07/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/23/21 02:38
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	17		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	100		70-130

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-03 D
Client ID: A4-MW-8R
Sample Location: BUFFALO, NY

Date Collected: 07/12/21 12:00
Date Received: 07/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/23/21 03:24
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	13000		ug/l	50	16.	100
Toluene	ND		ug/l	250	70.	100
Ethylbenzene	ND		ug/l	250	70.	100
Methyl tert butyl ether	ND		ug/l	250	70.	100
p/m-Xylene	ND		ug/l	250	70.	100
o-Xylene	ND		ug/l	250	70.	100
n-Butylbenzene	ND		ug/l	250	70.	100
sec-Butylbenzene	ND		ug/l	250	70.	100
tert-Butylbenzene	ND		ug/l	250	70.	100
Isopropylbenzene	ND		ug/l	250	70.	100
p-Isopropyltoluene	ND		ug/l	250	70.	100
Naphthalene	ND		ug/l	250	70.	100
n-Propylbenzene	ND		ug/l	250	70.	100
1,3,5-Trimethylbenzene	ND		ug/l	250	70.	100
1,2,4-Trimethylbenzene	ND		ug/l	250	70.	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	98		70-130

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-04
Client ID: A4-MW-9
Sample Location: BUFFALO, NY

Date Collected: 07/12/21 10:15
Date Received: 07/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/23/21 02:16
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	18		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-05
Client ID: A4-MW-10
Sample Location: BUFFALO, NY

Date Collected: 07/12/21 13:45
Date Received: 07/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/23/21 01:53
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	9.3		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	100		70-130

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-06
Client ID: TRIP BLANK
Sample Location: BUFFALO, NY

Date Collected: 07/12/21 00:00
Date Received: 07/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/23/21 01:30
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	101		70-130

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/22/21 19:47
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1527144-5					
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ZEHNDER RITTLING HYDRO AIR

Project Number: 20-014

Lab Number: L2137489

Report Date: 08/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1527144-3 WG1527144-4								
Benzene	100		100		70-130	0		20
Toluene	99		98		70-130	1		20
Ethylbenzene	100		98		70-130	2		20
Methyl tert butyl ether	97		96		63-130	1		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	95		95		70-130	0		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	120		110		70-130	9		20
tert-Butylbenzene	100		100		70-130	0		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	74		75		70-130	1		20
n-Propylbenzene	100		99		69-130	1		20
1,3,5-Trimethylbenzene	100		97		64-130	3		20
1,2,4-Trimethylbenzene	98		96		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		103		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	108		106		70-130
Dibromofluoromethane	102		103		70-130

METALS

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-01 Date Collected: 07/12/21 14:55

Client ID: A4-MW-5R Date Received: 07/13/21

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00820		mg/l	0.00050	0.00016	1	07/17/21 06:10	08/05/21 13:11	EPA 3005A	1,6020B	CD
Chromium, Total	0.00077	J	mg/l	0.00100	0.00017	1	07/17/21 06:10	08/05/21 13:11	EPA 3005A	1,6020B	CD
Lead, Total	0.00036	J	mg/l	0.00100	0.00034	1	07/17/21 06:10	08/05/21 13:11	EPA 3005A	1,6020B	CD

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-02 Date Collected: 07/12/21 13:05

Client ID: A4-MW-7R Date Received: 07/13/21

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00364		mg/l	0.00050	0.00016	1	07/17/21 06:10	08/05/21 13:16	EPA 3005A	1,6020B	CD
Chromium, Total	0.00195		mg/l	0.00100	0.00017	1	07/17/21 06:10	08/05/21 13:16	EPA 3005A	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/17/21 06:10	08/05/21 13:16	EPA 3005A	1,6020B	CD

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-03 Date Collected: 07/12/21 12:00

Client ID: A4-MW-8R Date Received: 07/13/21

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.02508		mg/l	0.00050	0.00016	1	07/17/21 06:10	08/05/21 13:21	EPA 3005A	1,6020B	CD
Chromium, Total	0.00074	J	mg/l	0.00100	0.00017	1	07/17/21 06:10	08/05/21 13:21	EPA 3005A	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/17/21 06:10	08/05/21 13:21	EPA 3005A	1,6020B	CD

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-04 Date Collected: 07/12/21 10:15

Client ID: A4-MW-9 Date Received: 07/13/21

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00858		mg/l	0.00050	0.00016	1	07/17/21 06:10	08/05/21 13:25	EPA 3005A	1,6020B	CD
Chromium, Total	0.00137		mg/l	0.00100	0.00017	1	07/17/21 06:10	08/05/21 13:25	EPA 3005A	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/17/21 06:10	08/05/21 13:25	EPA 3005A	1,6020B	CD

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-05 Date Collected: 07/12/21 13:45

Client ID: A4-MW-10 Date Received: 07/13/21

Sample Location: BUFFALO, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00433		mg/l	0.00050	0.00016	1	07/17/21 06:10	08/05/21 14:33	EPA 3005A	1,6020B	CD
Chromium, Total	0.00042	J	mg/l	0.00100	0.00017	1	07/17/21 06:10	08/05/21 14:33	EPA 3005A	1,6020B	CD
Lead, Total	0.00067	J	mg/l	0.00100	0.00034	1	07/17/21 06:10	08/05/21 14:33	EPA 3005A	1,6020B	CD

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1524895-1										
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/17/21 06:10	08/05/21 11:00	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	07/17/21 06:10	08/05/21 11:00	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/17/21 06:10	08/05/21 11:00	1,6020B	CD

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ZEHNDER RITTLING HYDRO AIR

Project Number: 20-014

Lab Number: L2137489

Report Date: 08/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1524895-2								
Arsenic, Total	102		-		80-120	-		
Chromium, Total	101		-		80-120	-		
Lead, Total	102		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: ZEHNDER RITTLING HYDRO AIR
Project Number: 20-014

Lab Number: L2137489
Report Date: 08/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1524895-3 QC Sample: L2134700-03 Client ID: MS Sample												
Arsenic, Total	0.01430	0.12	0.1394	104		-	-		75-125	-		20
Chromium, Total	0.00256	0.2	0.2039	101		-	-		75-125	-		20
Lead, Total	0.00909	0.53	0.4882	90		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ZEHNDER RITTLING HYDRO AIR

Project Number: 20-014

Lab Number: L2137489

Report Date: 08/06/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1524895-4 QC Sample: L2134700-03 Client ID: DUP Sample						
Arsenic, Total	0.01430	0.01431	mg/l	0		20
Chromium, Total	0.00256	0.00246	mg/l	4		20
Lead, Total	0.00909	0.00911	mg/l	0		20

Project Name: ZEHNDER RITTLING HYDRO AIR
Project Number: 20-014

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2137489
Report Date: 08/06/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1524895-6 QC Sample: L2134700-03 Client ID: DUP Sample						
Arsenic, Total	0.01430	0.01486	mg/l	4		20

INORGANICS
&
MISCELLANEOUS

Project Name: ZEHNDER RITTLING HYDRO AIR
Project Number: 20-014
Lab Number: L2137489
Report Date: 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-01
Client ID: A4-MW-5R
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/12/21 14:55
Date Received: 07/13/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	438.		mg CaCO3/L	2.00	NA	1	-	07/15/21 05:52	121,2320B	JB
Cyanide, Total	0.465		mg/l	0.005	0.001	1	07/16/21 11:00	07/16/21 14:51	1,9010C/9012B	CR

Project Name: ZEHNDER RITTLING HYDRO AIR
Project Number: 20-014
Lab Number: L2137489
Report Date: 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-02
Client ID: A4-MW-7R
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/12/21 13:05
Date Received: 07/13/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	258.		mg CaCO3/L	2.00	NA	1	-	07/15/21 05:52	121,2320B	JB
Cyanide, Total	0.147		mg/l	0.005	0.001	1	07/16/21 11:00	07/16/21 15:21	1,9010C/9012B	CR

Project Name: ZEHNDER RITTLING HYDRO AIR
Project Number: 20-014
Lab Number: L2137489
Report Date: 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-03
Client ID: A4-MW-8R
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/12/21 12:00
Date Received: 07/13/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	645.		mg CaCO3/L	10.0	NA	5	-	07/15/21 05:52	121,2320B	JB
Cyanide, Total	0.106		mg/l	0.005	0.001	1	07/16/21 11:00	07/16/21 14:55	1,9010C/9012B	CR

Project Name: ZEHNDER RITTLING HYDRO AIR
Project Number: 20-014
Lab Number: L2137489
Report Date: 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-04
Client ID: A4-MW-9
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water
Date Collected: 07/12/21 10:15
Date Received: 07/13/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	390.		mg CaCO3/L	2.00	NA	1	-	07/15/21 05:52	121,2320B	JB
Cyanide, Total	0.896		mg/l	0.025	0.009	5	07/16/21 11:00	07/16/21 15:24	1,9010C/9012B	CR

Project Name: ZEHNDER RITTLING HYDRO AIR
Project Number: 20-014
Lab Number: L2137489
Report Date: 08/06/21

SAMPLE RESULTS

Lab ID: L2137489-05
Client ID: A4-MW-10
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Water

Date Collected: 07/12/21 13:45
Date Received: 07/13/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	709.		mg CaCO3/L	10.0	NA	5	-	07/15/21 05:52	121,2320B	JB
Cyanide, Total	0.043		mg/l	0.005	0.001	1	07/16/21 11:00	07/16/21 15:04	1,9010C/9012B	CR

Project Name: ZEHNDER RITTLING HYDRO AIR **Lab Number:** L2137489

Project Number: 20-014 **Report Date:** 08/06/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1524240-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	07/15/21 05:52	121,2320B	JB
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1524626-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/16/21 11:00	07/16/21 14:47	1,9010C/9012B	CR

Lab Control Sample Analysis

Batch Quality Control

Project Name: ZEHNDER RITTLING HYDRO AIR

Project Number: 20-014

Lab Number: L2137489

Report Date: 08/06/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1524240-2								
Alkalinity, Total	104		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1524626-2 WG1524626-3								
Cyanide, Total	91		90		85-115	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ZEHNDER RITTLING HYDRO AIR
Project Number: 20-014

Lab Number: L2137489
Report Date: 08/06/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1524240-4 QC Sample: L2137771-01 Client ID: MS Sample												
Alkalinity, Total	78.6	100	177	98		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1524626-4 WG1524626-5 QC Sample: L2137489-01 Client ID: A4-MW-5R												
Cyanide, Total	0.465	0.2	0.632	84		0.649	92		80-120	3		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ZEHNDER RITTLING HYDRO AIR

Project Number: 20-014

Lab Number: L2137489

Report Date: 08/06/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1524240-3 QC Sample: L2137771-01 Client ID: DUP Sample						
Alkalinity, Total	78.6	79.0	mg CaCO3/L	1		10

Project Name: ZEHNDER RITTLING HYDRO AIR
Project Number: 20-014

Lab Number: L2137489
Report Date: 08/06/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2137489-01A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-01B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-01C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-01D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2137489-01E	Plastic 250ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180)
L2137489-01F	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2137489-02A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-02B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-02C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-02D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2137489-02E	Plastic 250ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180)
L2137489-02F	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2137489-03A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-03B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-03C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-03D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2137489-03E	Plastic 250ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180)
L2137489-03F	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2137489-04A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-04B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-04C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-04D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2137489-04E	Plastic 250ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: ZEHNDER RITTLING HYDRO AIR
Project Number: 20-014

Lab Number: L2137489
Report Date: 08/06/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2137489-04F	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2137489-05A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-05B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-05C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-05D	Plastic 250ml unpreserved/No Headspace	A	NA		2.8	Y	Absent		ALK-T-2320(14)
L2137489-05E	Plastic 250ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180)
L2137489-05F	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2137489-06A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-06B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2137489-06C	Vial HCl preserved	A	NA		2.8	Y	Absent		-
L2137489-06D	Vial HCl preserved	A	NA		2.8	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	ZEHNDER RITTLING HYDRO AIR	**Lab Number:**	L2137489
Project Number:	20-014	**Report Date:**	08/06/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ZEHNDER RITTLING HYDRO AIR	**Lab Number:**	L2137489
Project Number:	20-014	**Report Date:**	08/06/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ZEHNDER RITTLING HYDRO AIR	**Lab Number:**	L2137489
Project Number:	20-014	**Report Date:**	08/06/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name:	ZEHNDER RITTLING HYDRO AIR	**Lab Number:**	L2137489
Project Number:	20-014	**Report Date:**	08/06/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 7/14/21

ALPHA Job #: L2137489

Client Information

Client: NW Contracting
Address: 3553 Crittenden Rd
Aiden, NY 14004
Phone: 716-937-6527
Fax:
Email: JJones@Nwcontracting.com

Project Information

Project Name: Zehnder Rittling Hydro Air
Project Location: Buffalo NY
Project # 20-014
(Use Project name as Project #) ☐
Project Manager: Jerry Jones
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☑ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Only the STARS List VOCs needs to be reported

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260C	6010C	9012B	Alkalinity (310.2)					Total Bottle
37489-01	A4-MW-5R	7/12/21	2:55	GW	JJ	3	1	1	1					6
-02	A4-MW-7R	7/12/21	1:05	GW	JJ	3	1	1	1					6
-03	A4-MW-8R	7/12/21	12:00	GW	JJ	3	1	1	1					6
-04	A4-MW-9	7/12/21	10:15	GW	JJ	3	1	1	1					6
-05	A4-MW-10R	7/12/21	1:45	GW	JJ	3	1	1	1					6

Container Type: A P P P
Preservative: HCl C E A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	7/13/21 1230		7/13/21 1230
AHL	7/13/21 1400		7/14/21 09:40

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

APPENDIX J
Historical Groundwater Analytical Data Tables (2015-2021)

TABLE A1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
HYDRO-AIR COMPONENTS, INC
BUFFALO, NEW YORK

Location	Ambient Water	A4-MW-5R							A4-MW-7R							A4-MW-8R						
Sample Date	Quality Standards	06/25/2015	06/22/2016	06/22/2017	06/25/2018	12/19/2019	08/07/2020	07/12/2021	06/25/2015	06/22/2016	06/22/2017	06/26/2018	12/19/2019	08/06/2020	07/12/2021	06/25/2015	06/22/2016	06/22/2017	06/25/2018	12/19/2019	08/07/2020	07/12/2021
Inorganic Compounds (ug/L)																						
Arsenic, Total	25	**5.8 J**	**5.9 J**	ND (15)	ND (15)	ND (15)	**6.61**	**8.2**	ND (15)	ND (15)	ND (15)	ND (15)	ND (75)	**5.19**	**3.64**	**34** [A]	**35** [A]	**31** [A]	**31** [A]	**25**	**33.88** [A]	**25.08** [A]
Chromium, Total	50	ND (4)	ND (4)	ND (4)	ND (4)	**1 J**	**0.98 J**	**0.77 J**	**8.2 J**	**7.3**	**6.3 J**	**6.5 J**	ND (20)	**3.29**	**1.95**	ND (4)	ND (4)	**1.3 J**	ND (4)	ND (4)	**1.2**	**0.74 J**
Lead, Total	25	ND (10)	**3.7 J**	**3.6 J**	ND (10)	ND (10)	**0.7 J**	**0.36 J**	ND (50)	**17**	**13 J**	ND (200)	ND (50)	ND (1)	ND (1)	**3.3 J**	**7 J**	**4.7 J**	ND (200)	**3.1 J**	ND (1)	ND (1)
Other																						
Alkalinity, Total (as CaCO3) (ug/L)	-	**508000 B**	**555000 B**	**379000**	**433000 B**	**272000**	**420000**	**438000**	**28300**	ND (10000)	ND (10000)	**158000 B**	**43800 B**	**230000**	**258000**	**737000**	**492000 B**	**485000**	**708000 B**	**668000**	**878000**	**645000**
Cyanide (ug/L)	200	**530** [A]	**920** [A]	**630** [A]	**680** [A]	**470** [A]	**350** [A]	**465** [A]	**14**	**66**	**89**	**33**	**74**	**500** [A]	**147**	**120**	**160**	**120**	**140**	**130**	**111**	**106**
Volatile Organic Compounds (ug/L)																						
1,1,1-Trichloroethane	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
1,1,2,2-Tetrachloroethane	5	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (50)	-
1,1,2-Trichloroethane	1	-	-	-	-	-	ND (1.5)	-	-	-	-	-	-	ND (1.5)	-	-	-	-	-	-	ND (150)	-
1,1-Dichloroethane	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
1,1-Dichloroethene	5	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (50)	-
1,2,3-Trichlorobenzene	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
1,2,4-Trichlorobenzene	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
1,2,4-Trimethylbenzene	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)	ND (500)	ND (500)	ND (50)	ND (500)	ND (200)	-	ND (250)
1,2-Dibromo-3-chloropropane (DBCP)	0.04	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	-	-	-	-	-	ND (2)	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-	ND (200)	-
1,2-Dichlorobenzene	3	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
1,2-Dichloroethane	0.6	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (50)	-
1,2-Dichloropropane	1	-	-	-	-	-	ND (1)	-	-	-	-	-	-	ND (1)	-	-	-	-	-	-	ND (100)	-
1,3,5-Trimethylbenzene	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)	ND (500)	ND (500)	ND (50)	ND (500)	ND (200)	-	ND (250)
1,3-Dichlorobenzene	3	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
1,4-Dichlorobenzene	3	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
1,4-Dioxane	-	-	-	-	-	-	ND (250)	-	-	-	-	-	-	ND (250)	-	-	-	-	-	-	ND (25000)	-
2-Butanone (Methyl Ethyl Ketone)	50	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (500)	-
2-Hexanone (Methyl Butyl Ketone)	50	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (500)	-
2-Phenylbutane (sec-Butylbenzene)	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)	ND (500)	ND (500) F2	ND (50)	ND (500)	ND (200)	-	ND (250)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	-	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (500)	-
Acetone	50	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (500)	-
Benzene	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	**8.4** [A]	**7.1** [A]	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	**140** [A]	**17** [A]	**25000** [A]	**24000** [A]	**22000** [A]	**18000** [A]	**8100** [A]	**12000** [A]	**13000** [A]
Bromodichloromethane	50	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (50)	-
Bromoform	50	-	-	-	-	-	ND (2)	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-	ND (200)	-
Bromomethane (Methyl Bromide)	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
Carbon disulfide	60	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (500)	-
Carbon tetrachloride	5	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (50)	-
Chlorobenzene	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
Chlorobromomethane	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
Chloroethane	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
Chloroform (Trichloromethane)	7	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
Chloromethane (Methyl Chloride)	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
cis-1,2-Dichloroethene	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
cis-1,3-Dichloropropene	0.4	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (50)	-
Cyclohexane	-	-	-	-	-	-	ND (10)	-	-	-	-	-	-	ND (10)	-	-	-	-	-	-	ND (1000)	-
Cymene (p-Isopropyltoluene)	-	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)	ND (500)	ND (500)	ND (50)	ND (500)	ND (200)	-	ND (250)
Dibromochloromethane	50	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (50)	-
Dichlorodifluoromethane (CFC-12)	5	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (500)	-
Ethylbenzene	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2.5)	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2.5)	ND (2.5)	ND (500)	ND (500) F2	ND (50)	ND (500)	ND (200)	ND (250)	ND (250)
Isopropylbenzene (Cumene)	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2.5)	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2.5)	ND (2.5)	ND (500)	ND (500) F1	ND (50)	ND (500)	ND (200)	ND (250)	ND (250)
m,p-Xylenes	5	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2.5)	ND (2.5)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	**0.97 J**	ND (2.5)	ND (1000)	ND (1000)	ND (100)	ND (1000)	ND (400)	ND (250)	ND (250)
Methyl acetate	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-	ND (200)	-
Methyl Tert Butyl Ether (MTBE)	10	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2.5)	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2.5)	ND (2.5)	ND (500)	ND (500)	ND (50)	ND (500)	ND (200)	ND (250)	ND (250)
Methylcyclohexane	-	-	-	-	-	-	ND (10)	-	-	-	-	-	-	ND (10)	-	-	-	-	-	-	ND (1000)	-
Methylene chloride (Dichloromethane)	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
Naphthalene	10	**2.9**	ND (1)	ND (1)	ND (1)	**0.5 J**	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)	ND (500)	ND (500)	ND (50)	ND (500)	ND (200)	-	ND (250)
n-Butylbenzene	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)	ND (500)	ND (500) F2	ND (50)	ND (500)	ND (200)	-	ND (250)
n-Propylbenzene	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)	ND (500)	ND (500) F2	ND (50)	ND (500)	ND (200)	-	ND (250)
o-Xylene	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2.5)	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (2.5)	ND (2.5)	ND (500)	ND (500)	ND (50)	ND (500)	ND (200)	ND (250)	ND (250)
Styrene	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
tert-Butylbenzene	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)	ND (500)	ND (500) F2	ND (50)	ND (500)	ND (200)	-	ND (250)
Tetrachloroethene	5	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (50)	-
Toluene	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (2.5)	**0.72 J**	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	**22** [A]	ND (2.5)	ND (500)	ND (500)	ND (50)	ND (500)	ND (200)	ND (250)	ND (250)
trans-1,2-Dichloroethene	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
trans-1,3-Dichloropropene	0.4	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (50)	-
Trichloroethene	5	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-	ND (50)	-
Trichlorofluoromethane (CFC-11)	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
Trifluorotrichloroethane (Freon 113)	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (250)	-
Vinyl chloride	2	-	-	-	-	-	ND (1)	-	-	-	-	-	-	ND (1)	-	-	-	-	-	-	ND (100)	-
Xylene (total)	5	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	ND (1000)	ND (1000)	ND (100)	ND (1000)	ND (400)	-	-

Notes:
1. Results in **bold** were detected.
2. [A] - Results in red exceed NYSDEC Ambient Water Quality Standards and Guidance Values - Class GA – June 1998
3. ND - Not detected above the reporting limit
   J - Estimated value
   B - Anaylte found in laboratory blank

TABLE A1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
HYDRO-AIR COMPONENTS, INC
BUFFALO, NEW YORK

Location	Ambient Water	A4-MW-9							A4-MW-10						
Sample Date	Quality Standards	06/25/2015	06/22/2016	06/22/2017	06/25/2018	12/19/2019	08/07/2020	07/12/2021	06/25/2015	06/22/2016	06/22/2017	06/25/2018	12/19/2019	08/06/2020	07/12/2021
Inorganic Compounds (ug/L)															
Arsenic, Total	25	ND (15)	**5.6 J**	ND (15)	ND (15)	ND (15)	**18.22**	**8.58**	**8 J**	**8.9 J**	**11 J**	**10 J**	**43** [A]	**5.47**	**4.33**
Chromium, Total	50	ND (4)	ND (4)	ND (4)	**1.4 J**	ND (4)	**4.14**	**1.37**	ND (4)	ND (4)	ND (4)	ND (4)	**3.6 J**	**0.98 J**	**0.42 J**
Lead, Total	25	ND (10)	**4.6 J**	ND (10)	ND (200)	ND (10)	**0.6 J**	ND (1)	ND (10)	**5.1 J**	ND (10)	ND (20)	**9.3 J**	**0.92 J**	**0.67 J**
Other															
Alkalinity, Total (as CaCO3) (ug/L)	-	**312000**	**303000**	**364000**	**226000 B**	**359000**	**320000**	**390000**	**1220000**	**1200000**	**1100000**	**1170000 B**	**1040000**	**854000**	**709000**
Cyanide (ug/L)	200	**250** [A]	**420** [A]	**450** [A]	**1400** [A]	**140**	**1760** [A]	**896** [A]	**55**	**88**	**79**	**73**	**61**	**61**	**43**
Volatile Organic Compounds (ug/L)															
1,1,1-Trichloroethane	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
1,1,2,2-Tetrachloroethane	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2)	-
1,1,2-Trichloroethane	1	-	-	-	-	-	ND (7.5)	-	-	-	-	-	-	ND (6)	-
1,1-Dichloroethane	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
1,1-Dichloroethene	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2)	-
1,2,3-Trichlorobenzene	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
1,2,4-Trichlorobenzene	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
1,2,4-Trimethylbenzene	5	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)
1,2-Dibromo-3-chloropropane (DBCP)	0.04	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	-	-	-	-	-	ND (10)	-	-	-	-	-	-	ND (8)	-
1,2-Dichlorobenzene	3	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
1,2-Dichloroethane	0.6	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2)	-
1,2-Dichloropropane	1	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (4)	-
1,3,5-Trimethylbenzene	5	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)
1,3-Dichlorobenzene	3	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
1,4-Dichlorobenzene	3	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
1,4-Dioxane	-	-	-	-	-	-	ND (1200)	-	-	-	-	-	-	ND (1000)	-
2-Butanone (Methyl Ethyl Ketone)	50	-	-	-	-	-	ND (25)	-	-	-	-	-	-	ND (20)	-
2-Hexanone (Methyl Butyl Ketone)	50	-	-	-	-	-	ND (25)	-	-	-	-	-	-	ND (20)	-
2-Phenylbutane (sec-Butylbenzene)	5	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	-	-	-	-	-	-	ND (25)	-	-	-	-	-	-	ND (20)	-
Acetone	50	-	-	-	-	-	ND (25)	-	-	-	-	-	-	**7.4 J**	-
Benzene	1	**90** [A]	**90** [A]	**150** [A]	**260** [A]	ND (5)	**590** [A]	**18** [A]	ND (5)	ND (5)	ND (5)	**41** [A]	ND (5)	**370** [A]	**9.3** [A]
Bromodichloromethane	50	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2)	-
Bromoform	50	-	-	-	-	-	ND (10)	-	-	-	-	-	-	ND (8)	-
Bromomethane (Methyl Bromide)	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
Carbon disulfide	60	-	-	-	-	-	**5 J**	-	-	-	-	-	-	ND (20)	-
Carbon tetrachloride	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2)	-
Chlorobenzene	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
Chlorobromomethane	-	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
Chloroethane	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
Chloroform (Trichloromethane)	7	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
Chloromethane (Methyl Chloride)	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
cis-1,2-Dichloroethene	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
cis-1,3-Dichloropropene	0.4	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2)	-
Cyclohexane	-	-	-	-	-	-	ND (50)	-	-	-	-	-	-	ND (40)	-
Cymene (p-Isopropyltoluene)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)
Dibromochloromethane	50	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2)	-
Dichlorodifluoromethane (CFC-12)	5	-	-	-	-	-	ND (25)	-	-	-	-	-	-	ND (20)	-
Ethylbenzene	5	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (12)	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (2.5)
Isopropylbenzene (Cumene)	5	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (12)	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (2.5)
m,p-Xylenes	5	ND (4)	ND (4)	ND (4)	ND (4)	ND (10)	ND (12)	ND (2.5)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (2.5)
Methyl acetate	-	-	-	-	-	-	ND (10)	-	-	-	-	-	-	ND (8)	-
Methyl Tert Butyl Ether (MTBE)	10	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (12)	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (2.5)
Methylcyclohexane	-	-	-	-	-	-	ND (50)	-	-	-	-	-	-	ND (40)	-
Methylene chloride (Dichloromethane)	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
Naphthalene	10	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)
n-Butylbenzene	5	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)
n-Propylbenzene	5	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)
o-Xylene	5	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (12)	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (2.5)
Styrene	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
tert-Butylbenzene	5	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	-	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	ND (2.5)
Tetrachloroethene	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2)	-
Toluene	5	ND (2)	ND (2)	ND (2)	ND (2)	ND (5)	ND (12)	ND (2.5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	**40** [A]	ND (2.5)
trans-1,2-Dichloroethene	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
trans-1,3-Dichloropropene	0.4	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2)	-
Trichloroethene	5	-	-	-	-	-	ND (2.5)	-	-	-	-	-	-	ND (2)	-
Trichlorofluoromethane (CFC-11)	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
Trifluorotrichloroethane (Freon 113)	5	-	-	-	-	-	ND (12)	-	-	-	-	-	-	ND (10)	-
Vinyl chloride	2	-	-	-	-	-	ND (5)	-	-	-	-	-	-	ND (4)	-
Xylene (total)	5	ND (4)	ND (4)	ND (4)	ND (4)	ND (10)	-	-	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	-

Notes:
1. Results in **bold** were detected.
2. [A] - Results in red exceed NYSDEC Ambient Water Quality Standards
3. ND - Not detected above the reporting limit
   J - Estimated value
   B - Anaylte found in laboratory blank