PERIODIC REVIEW REPORT
MARCH 2021 – FEBRUARY 2022

RANDO MACHINE CORPORATION SITE
MONITORING PROGRAM
MACEDON, NEW YORK 14502

NYSDEC Site No. 859014
Work Assignment No. D009812-11

Prepared for:

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

Division of Environmental Remediation
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APRIL 2022

TRC Project No. 413002

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LIST OF ACRONYMS AND ABBREVIATIONS

COCs	Contaminants of Concern
DER	Department of Environmental Remediation
DUSRs	Data Usability Summary Report
EC	Engineering Control
EDD	Electronic Data Deliverable
EE	Environmental Easement
Eurofins/TestAmerica	Eurofins/TestAmerica Laboratories of Amherst, New York
FS	Feasibility Study
GWMR	Groundwater Monitoring Report
IC	Institutional Control
IHWDS	Inactive Hazardous Waste Disposal Site
MCL	Maximum Contaminant Level
M&M	Maintenance and Monitoring
NYSDEC	New York State Department of Environmental Conservation
NYSDEC DER-10	NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation
NYSDOH	New York State Department of Health
PRR	Periodic Review Report
RI	Remedial Investigation
ROD	Record of Decision
Site	Rando Machine Corporation Site
SM	Site Management
SMP	Site Management Plan
SSD	Sub-Slab Depressurization
SGVs	Standard Guidance Values
TAL	Target Analyte List
USEPA	United States Environmental Protection Agency
WA	Work Assignment

Executive Summary

Category	Summary/Results
Engineering Controls	• Vapor Mitigation (Sub-Slab Depressurization System installed March 2013).
Institutional Controls	Environmental Easement which includes: • Maintenance and Monitoring Plan; • Groundwater Use Restriction; • Land-use Restriction; • O&M Plan; and • IC/EC Plan.
Site Classification	The Site is currently classified as Class 4 Inactive Hazardous Waste site.
Site Management Plan	The Revised Monitoring and Maintenance Plan is dated July 1999 (certified 2018).
Certification/Reporting Period	The Certification Period is Annual. This Periodic Review Report (PRR) covers the time frame from March 2021 through February 2022. The next Periodic Review Report will cover the period of March 2022 through February 2023.
Site Inspection	Annual site inspections to continue as recommended in this PRR.
Groundwater Monitoring	Groundwater monitoring conducted every 5th quarter as recommended in this PRR.
Prior PRR/GWMR Recommendations	A Site Management PRR for this Site was prepared for the period of March 2020 to February 2021 and transmitted to the NYSDEC via email on June 28, 2021. Recommendations included: the Site inspection frequency be continued at least once every year to ensure that building occupancy changes are identified promptly followed up with an inspection report; monitoring wells B103-OW-A and B206-OW-C receive repairs; two new monitoring wells be installed on-Site to evaluate potential migration of 1,4-dioxane; completion of a well survey to evaluate groundwater flow direction; discontinue VOC analysis during the subsequent groundwater monitoring events; and that an SMP be prepared to consolidate various documentations, procedures, and frequencies.
Site Management Activities (Routine)	Site visits were conducted from October 29th through November 5th for installation of new monitoring wells B412-OW-D and B412-OW-E. Groundwater sampling was conducted on November 30, and December 1, 2021 with samples collected from existing monitoring wells B103-OW-A, B206-OW-B, and B206-OW-C, as well as the two new wells listed above. Soil samples were also collected of the IDW/drill cuttings generated during the well installations. All groundwater samples were analyzed for 1,4-Dioxane using USEPA Method 8270D. Soil samples were analyzed for waste characterization parameters.
Site Management Activities (Non-Routine)	An evaluation of the sub-slab depressurization system (SSDS) was not performed during this reporting period as the main building is unoccupied, and all utilities are shut down (including power to the SSDS). Maintenance was performed on monitoring wells B103-OW-A (repaired broken protective casing hinge) and B206-OW-C (reinstalled the well riser and protective casing). In addition, two new monitoring wells were installed as listed above.

Significant Findings or Concerns	1. 1,4-Dioxane was detected in groundwater samples collected from all but monitoring well B103-OW-A during the reporting period. All detections were only slightly above the detection limit except for B206-OW-C, where the concentration of 1,4-Dioxane was 2 to 3 orders of magnitude above the surrounding wells.
Recommendations	1. The Site inspection frequency should continue on an annual basis to evaluate building occupancy. Annual inspections and evaluations of the SSDS should then continue once the building is re-occupied, to certify that the ICs/ECs are functioning as intended. A Site inspection report should be completed following each inspection event. Preparation of PRRs should continue on an annual basis to certify the ICs/ECs are in-place, effective and protective of human health and the environment.
Cost Evaluation	The total cost of TRC's site management activities for the period March 2021 through February 2022 was approximately $45,000. This cost only includes engineering (e.g., labor and expenses). It should be noted that this total does not include any direct costs incurred by the NYSDEC.

1.0 Introduction

This Periodic Review Report (PRR) has been prepared for the Rando Machine Corporation (Rando) Site (the Site) and covers the period March 2021 through February 2022. This PRR was prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC) Department of Environmental Remediation (DER) Work Assignment (WA) No. D009812-11 Notice to Proceed dated September 17, 2020, the subsequent WA Package Approval dated November 25, 2020, and NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation (NYSDEC DER-10). This PRR discusses the site management (SM) activities and results from those activities, performed by TRC during the referenced reporting period. Portions of this report include pertinent historical background information and monitoring data from documents pertaining to activities completed by others and are incorporated only by reference where applicable:

- Sub-Slab Depressurization System (SSDS) Construction Completion Report (May 2013)
- Site Periodic Review Report (June 2021)

The Site and applicable remedial program information is summarized below.

Site Information			
Site Name:	Rando Corporation	**NYSDEC Site No:**	859014
Site Location:	The Commons, 1071 NY-31, Macedon, Wayne County, NY	**Remedial Program:**	State Superfund Program
Site Type:	Commercial/Industrial	**Classification:**	04
Parcel Identification(s):	62111-00-212778 (1071 NY-31)	**Parcel Acreage / EE Acreage:**	5.01 (1071 NY-31)
Selected Remedy:	No Further Action (ROD 1998)	**Site COC(s):**	• 1,1,1-Trichloroethane • Chloroethane • 1,1-Dichloroethane • 1,2-Dichloroethane • 1,1-Dichloroethene • 1,4 Dioxane
Current Remedial Program Phase:	Post RA Site Monitoring; Site Management	**Institutional Controls:**	EE which includes: • M&M Plan • Groundwater Use Restriction • Land-use Restriction • O&M Plan • IC/EC Plan
Post-Remediation Monitoring and Sampling Frequency:	Annual groundwater monitoring and Site Inspections	**Engineering Controls:**	Vapor Mitigation (SSDS Installed March 2013)
Monitoring Well Network:	Five (5) Monitoring Wells: - B103-OW-A - B206-OW-B - B206-OW-C - B412-OW-D - B412-OW-E	**Required Reporting**	• GWMR – Annual for the first five years following completion of remedial construction then at a frequency determined by the NYSDEC. • PRR – Annual following issuance of the Certificate of Completion.

1.1 Site Location, Ownership, and Description

The Site is located in a suburban portion of Wayne County on Route 31, just west of the Village of Macedon. The Site is approximately 5 acres in size and located in a 60-acre industrial park known as The Commons (**Figure 1**). The Site is primarily occupied by a one-story industrial structure (approximately 35,000 square foot). The remainder of the property is a combination of pavement and landscaped/grass areas. The surrounding parcels to the north, south, and west are used for a combination of light industrial and commercial purposes, and agricultural purposes (farmed field) to the east. A regulated Class III wetland is located approximately 0.25 miles north. The Erie Barge Canal is located approximately one mile north of the Site.

Rando manufactured and assembled industrial machines from approximately 1975 through September 2019. The machines were cleaned, painted, packaged, and shipped from the facility. The cleaning and painting process utilized the chlorinated solvent 1,1,1-Trichloroethane (TCA). Between the time that operations began and the mid-1980s, floor drains from the TCA storage area reportedly drained into a buried container, also called a dry crock, located immediately outside the northeast corner of the building. During its past operation, contents of the dry crock were reportedly removed for off-site disposal. Rando's use of TCA in the cleaning and painting process and collection of drainage in a dry crock at the northeast corner of the Site building, appears to be the root cause of the groundwater contamination at the Site.

The Village of Macedon operated a well field as a source of public water approximately 0.25 miles north-northeast of the Site. Analytical results from a NYSDOH sampling event conducted in 1986 at the Village of Macedon municipal water supply Well #2 detected TCA contamination. This detection eventually led to the investigation at the Rando Site. As a result of the contamination observed at Well #2, the Village of Macedon immediately stopped the use of this well and the adjacent municipal water supply Well #1 as a source of public drinking water and began purchasing part of its drinking water from the Monroe County Water Authority.

1.2 Investigation/Remedial History

As indicated above, analytical results from a NYSDOH sampling event conducted in 1986 at a Village of Macedon municipal water supply well led to the investigation at the Site. A preliminary investigation conducted by the NYSDEC in 1987 identified Rando as a potentially responsible party with the dry crock as the likely source of the TCA contamination. In 1988, Rando conducted a soil vapor survey. It was determined that the volatile organic compound (VOC) groundwater plume extended beyond the Site's eastern boundary towards the Village of Macedon wellfield.

In 1989, Rando conducted a subsurface investigation (SSI) consisting of the installation of groundwater monitoring wells. The results of this investigation confirmed that the dry crock was the source of the TCA

contamination. Additional VOCs, including 1,1-Dichloroethane (1,1-DCA) and 1,1-Dichloroethene (1,1-DCE) were also detected in groundwater near the dry crock. As a result, Rando conducted a voluntary source removal (soil excavation) under NYSDEC observation in 1989. Post excavation soil sampling from the source area did not indicate any residual soil contamination.

Remedial investigation (RI) activities were conducted at the Site from 1991 through 1993. A Feasibility Study (FS) was also completed and approved, and a Proposed Remedial Action Plan (PRAP) was issued by the NYSDEC in 1995. Based on the Village of Macedon decision to permanently discontinue the use of groundwater for a source of public water, Rando submitted an FS Addendum in 1996. The DEC did additional groundwater sampling in January of 1997 which showed groundwater contaminant levels had decreased. The Record of Decision (ROD) was subsequently issued by NYSDEC in March 1998.

The NYSDEC selected Alternative 1 (no further action) as the remedy for the Site as presented in the 1998 ROD. As part of Alternative 1, periodic groundwater monitoring (semi-annual for five years and annual thereafter) would be conducted from selected groundwater monitoring wells. In addition, the remedy required administrative controls be placed on the Site property to restrict public access to contaminated groundwater.

A Maintenance and Monitoring Plan (M&M Plan) was prepared for the Site in July 1999. A Declarations of Covenants and Restrictions to restrict public access to contaminated groundwater was filed with Wayne County on December 23, 2009.

On April 1, 2013, a SSDS was installed beneath and encompassing the entire footprint of the Site building as outlined in Mitigation Tech's May 20, 2013, construction completion letter report (CCR). Based on a review of select correspondence between NYSDEC and Rando, it appears the SSDS was installed in lieu of evaluating the Site in accordance with the NYSDOH's "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (2006). Although not included in the M&M Plan, this PRR has a section to perform evaluations and give recommendations for operations and maintenance in regard to the installed SSDS. It should be noted that since the building has been shut down and is not occupied, the SSDS evaluation component of the field work could not be completed for this PRR.

1.3 Residual Contamination

Based on the 2021 groundwater monitoring results, the residual contamination consisting of TCA, 1,1-DCA, 1,1-DCE, 1,2-Dichloroethane (1,2-DCA), and Chloroethane were not detected within the Site's groundwater, as shown on **Table 1** and **Figure 2**. All VOCs analyzed for came back as non-detected. While there is no standards or guidance value for 1,4-Dioxane, it should be noted that detected concentrations remained relatively consistent in previously sampled wells, with only a slight increase in well B206-OW-

C (from 430 ug/L in 2021 Q1 to 460 µg/L in 2021 Q4). Trace amounts of the 1,4-Dioxane were also found within the two new wells B412-OW-D and B412-OW-E; 1.6 and 0.28 µg/L, respectively.

1.4 Regulatory Requirements/Cleanup Goals

As presented in the previous PRR and the ROD, the goals for this Site are to:

- Mitigate all significant threats to the public health and to the environment posed by contaminated groundwater at the site; and
- Provide for attainment of SCGs for groundwater quality at the limits of the area of concern, to the extent practicable.

2.0 Institutional and Engineering Control Plan Compliance

The ROD established the application of administrative controls on the Site property to restrict public access to contaminated groundwater. The engineering controls and/or mechanical systems that have been installed on-Site (i.e., the SSDS) is not a component of the original Site remedy outlined in the ROD, but was instead installed in 2013 in response to the potential for vapor intrusion. The operation and maintenance of the SSDS is outlined in the CCR, dated May 20, 2013. The Site management activities specified in the M&M Plan include annual Site inspections, annual groundwater monitoring, and non-routine inspections and/or maintenance, as needed.

2.1 Institutional Controls

The Site is managed as part of New York State's Superfund Program. The Site's inclusion in the Registry as a Class 4 Inactive Hazardous Waste Site acts as an Institutional Control (IC). In addition, Declaration of Covenants and Restrictions (deed restrictions) were filed with the Wayne County Clerk's office to restrict public access to groundwater in perpetuity.

2.2 Engineering Controls

Engineering controls were not a component of the site remedy presented in the ROD. As indicated above, an SSDS was installed by the owner of the Site in 2013. The sub-slab vacuum monitoring results from February 2020 indicated the system was working effectively at the time of the previous inspection. The SSDS is currently offline due to the fact that the building is vacant and electrical power has been shut off.

3.0 Monitoring and Maintenance Plan Compliance

The monitoring scope for the Site as specified in the M&M Plan includes annual Site inspections and annual groundwater sampling. Presented below is a summary of the monitoring activities performed throughout this reporting period, as well as an evaluation of Site-related data relative to remedy performance, effectiveness, and protectiveness, as appropriate. A summary of the current M&M Plan requirements is presented below:

Summary of 2021 SMP Site Monitoring and Sampling Plan

Site Management Activity	Frequency	Location	Laboratory Analysis
Site Inspection	Annual	Site Property	Not Applicable
Groundwater Sampling	Annual / 5th Quarter	• B103-OW-A • B206-OW-B • B206-OW-C • B412-OW-D • B412-OW-E	• 1,4-Dioxane by USEPA Method 8270D
SSDS Inspection and Evaluation	Annual	Site Building	Not Applicable/Not Completed
Groundwater and Site Inspection Report	Annual	Not Applicable	Not Applicable
PRR	Annual	Not Applicable	Not Applicable

Notes:
USEPA – United States Environmental Protection Agency.

3.1 Monitoring Well Installation

Between October 29th and November 5th 2021, two new monitoring wells (B412-OW-D and B412-OW-E) were installed per the previous PRR recommendations. Monitoring well B412-OW-D was installed to the north of the historic source area (B206-OW-C), and monitoring well B412-OW-E was installed to the northeast of the historic source area. The primary purpose of these new wells was to identify any migration of 1,4-Dioxane in those directions. LaBella Associates (LaBella) used a hollow-stem auger drill rig to install the wells. Although the initial overall depth of the wells was targeted at 25 feet bgs, the boring at location B412-OW-D was advanced to approximately 30 feet bgs before contacting saturated soils. Each well was subsequently completed with a 10-foot PVC well screen and a 10 foot riser pipe to the surface. Following completion of the well installations, a site survey was performed to both locate the new monitoring wells and establish top of casing elevations for each of the new and existing monitoring wells on-Site. A photolog, daily reports, and well construction log are available within **Appendix B**.

3.2 Site Inspection

In December of 2021, after monitoring well installations and repair activities, TRC performed an annual Site inspection and groundwater sampling event in accordance with the SMP. The Site inspection included an evaluation of the current Site and surrounding property uses, condition of the limited soil cover system, vegetation, monitoring wells, access gates, roads, etc. Overall, the inspection revealed no unusual conditions and nothing requiring corrective action. There was also no new development in the surrounding properties/parcels noted.

A summary of the November and December 2021 Site Management activities are provided in the table below:

Summary of Site Management Activities
November and December 2021

Site Management Activity	Summary of Results	Maintenance/Corrective Measure
General Site property, eastern fence, and paved and grassed areas	The Site property, building, and surrounding areas appeared to be stable and in good condition. The eastern perimeter fence, adjacent to the parking area, appeared to be in good condition with no visible indications of damage.	No routine maintenance or corrective measures needed at this time.
Drainage	No vegetation or other impediments that would inhibit stormwater sheet flow offsite were observed. No noticeable areas of active erosion were observed.	No routine maintenance or corrective measures needed at this time.
Monitoring well network	The five active monitoring wells were located for the purposes of inspection and sampling. The recently repaired and installed monitoring wells were in the same condition as when they were altered; no settlement construction issues were observed, and materials appeared to be in fine condition.	No routine maintenance or corrective measures needed at this time.
Groundwater gauging and sampling	In November and December of 2021, all five of the monitoring wells were gauged and sampled utilizing USEPA low-flow sampling methods. Typical historical trends/values were observed.	No routine maintenance or corrective measures needed at this time.
Monitoring sub-slab vacuum	The SSDS inspection and evaluation could not be completed during the 2021 reporting period since the building has been closed/vacated and the utilities, including electric are not currently in service.	Monitor building occupancy and perform SSDS inspection and evaluation upon re-energizing the building.

Field activity reports, photographic logs, and low-flow groundwater sampling records from annual inspection and sampling event can be found in **Appendix B**.

3.3 Groundwater Monitoring Summary

3.3.1 Groundwater Gauging

On November 30th and December 1st, 2021, prior to groundwater sample collection, all viable wells were gauged for depth to groundwater to determine groundwater flow direction. A summary of the Site Geology and Hydrogeology, including depth to groundwater and overall depth of well measurements collected, and inferred groundwater flow direction is presented in the table below:

Site Geology and Hydrogeologic Summary					
Known Geology					
• Bedrock is generally located at 60 ft below ground and is overlain with a clay/silt till • A regulated wetland is located 1/4 mile north and the Erie Barge Canal is located approximately 1 mile north of Rando					
Number of Gauged Wells					
5 / 5					
November 2021 Groundwater Elevations and Well Depths					
Well ID	Top of Casing Elevation (ft amsl)	Depth to Water	Water Table Elevation (ft amsl)	Depth to Bottom[1]	Bottom of Well Elevation (ft amsl)
B103-OW-A[1]	501.98 ft	16.12 ft	485.86	58.70 ft	443.28 ft
B206-OW-B[1]	504.46 ft	18.65 ft	485.81	35.00 ft	469.46 ft
B206-OW-C[2]	504.35 ft	19.50 ft	485.34	26.60 ft	478.24 ft
B412-OW-D[2]	500.78 ft	18.72 ft	484.29	32.20 ft	470.81 ft
B412-OW-E[2]	503.31 ft	24.75 ft	478.75	28.45 ft	475.05 ft
Inferred Groundwater Flow Direction					
North-Northeast toward the Village Extraction Wells and the Erie Barge Canal. Depth to water measurement are consistent with previous measurements.					

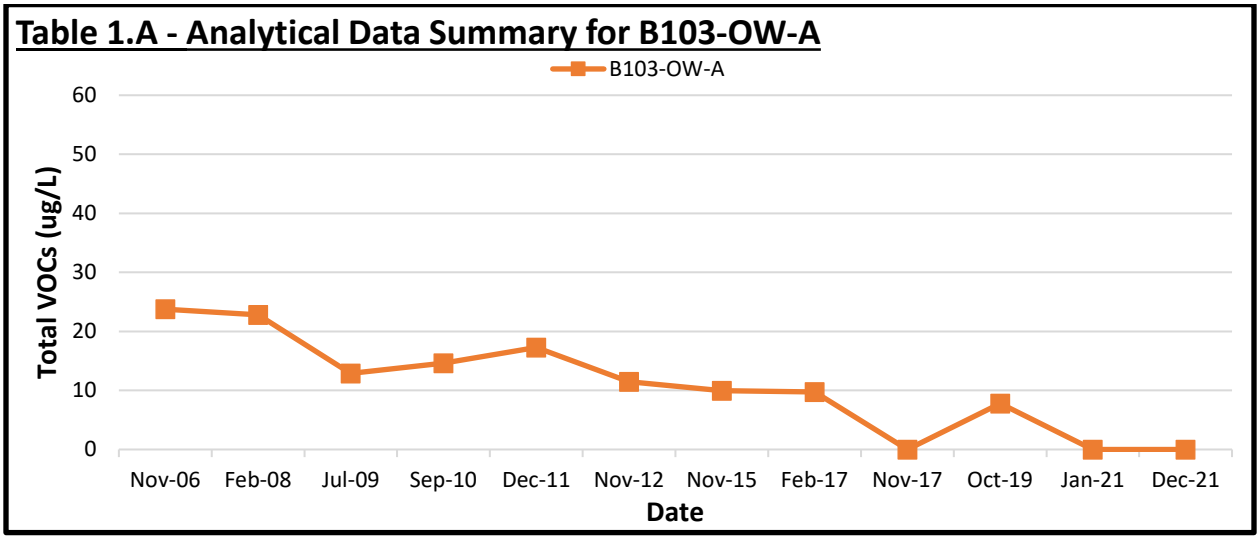
Notes:
ft – feet
amsl – above mean sea level
[1] – All depths measured from top of PVC well casing.
[2] – All depths measured from top of protective casing.

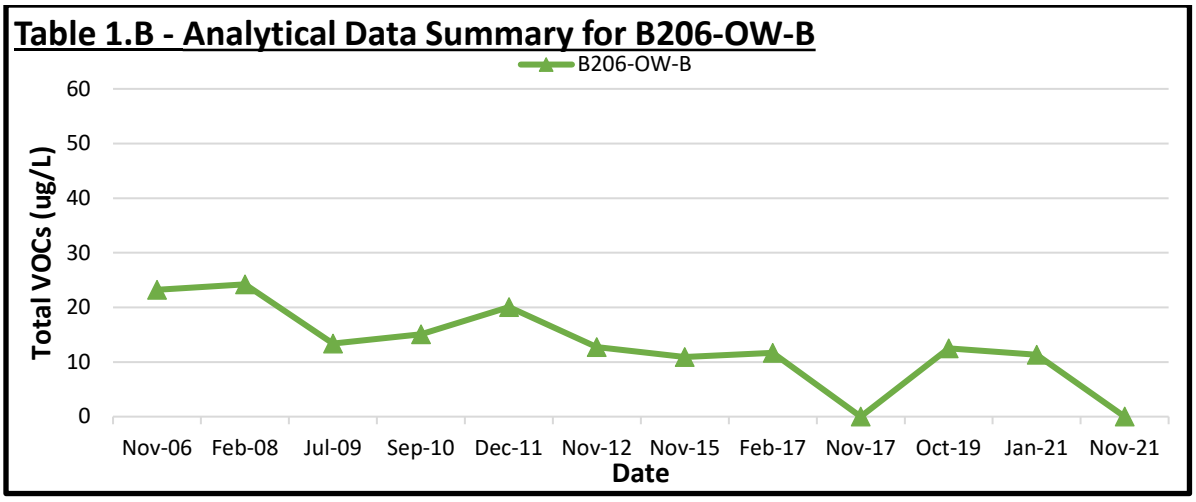
3.3.2 Groundwater Monitoring

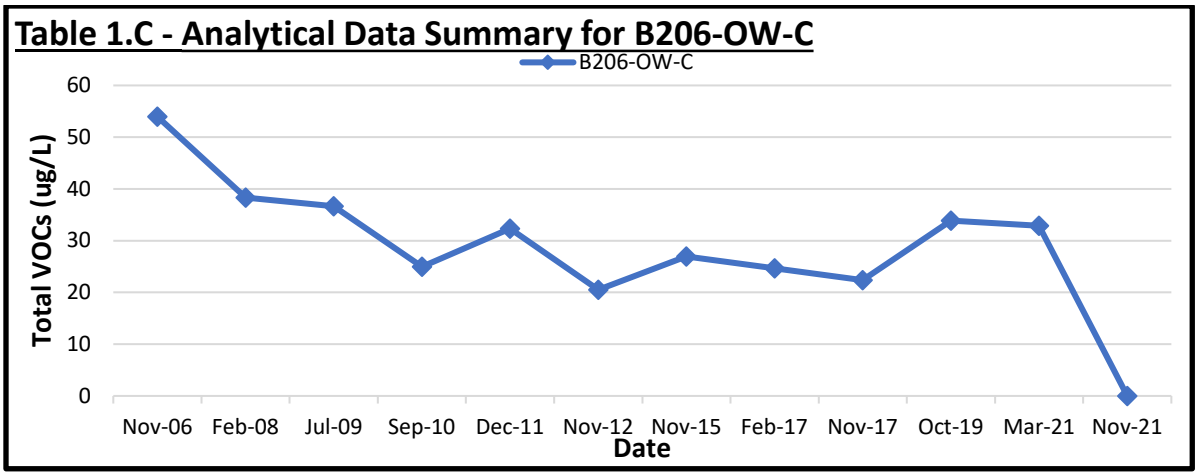
TRC collected groundwater samples from each of the five monitoring wells utilizing USEPA low-flow sampling techniques. All five groundwater samples were submitted to the NYSDEC callout laboratory, Eurofins/TestAmerica Laboratories of Amherst, New York (Eurofins/TestAmerica), for analysis of Target Compound List (TCL) VOCs by USEPA Method 8260C and 1,4-Dioxane by USEPA Method 8270D.

3.3.3 Groundwater Analytical Results

A summary of historic groundwater analytical data for detected VOCs and 1,4-Dioxane can be found in **Table 1**. A full listing of all data generated during the reporting period is contained in the data usability summary report (DUSR), which is included in **Appendix A**. **Figure 2** illustrates the location of the five monitoring wells sampled and indicates the current concentrations of detected compounds in comparison to the SCGs. Total VOC concentration trend line graphs for each of the previously sampled monitoring wells (B103-OW-A, B206-OW-B, and B206-OW-C) are provided below:







An exceedance summary of the groundwater analytical results is outlined below:

Exceedance Summary of Laboratory Analytical Results in Groundwater December 2021				
Constituent	**Class GA SGV***	**Concentration Range (µg/L)**	**Location with Highest Detection**	**Frequency Exceeding Class GA Value**
SVOCs, Total				
1,4-Dioxane	NS	ND – 460	B206-OW-C	N/A

Notes:

ND – Not detected above the specified quantitation limit.

NS – No Standard or Guidance Value.

N/A – Not applicable, no standard.

µg/L – micrograms per liter.

* - NYSDEC TOGS 1.1.1 - Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.

4.0 Cost Summary

The total estimated cost of TRC's site management activities for the period March 2021 through February 2022 is approximately $45,000. Site management activities included the repair of two on-Site monitoring wells, the installation of two new monitoring wells, groundwater sampling all on-Site monitoring wells for 1,4-Dioxane, annual Site inspection, and preparation of this PRR. The total cost includes engineering and subcontractor costs, as well as direct project expenses. It should be noted that the total does not include costs incurred by NYSDEC in support of the project (i.e. NYSDEC staff). A summary of the site management costs is presented below:

Summary of Site Management Costs - TRC
March 2021 through February 2022

Cost Item	Amount Expended	Percent of Total Cost (Rounded)
Engineering Support		
TRC	$26,500	59%
Subcontractors		
Eurofins/Test America	$1,000	2%
Greenstar Environmental Solutions, LLC	$1,800	4%
HEPACO, LLC	$2,400	5%
Susan M. Anacker, PLS	$3,000	7%
LaBella Associates, P.C.	$8,900	20%
Expenses		
TRC	$1,400	3%
Total Cost	**$45,000**	100%

The following is included in each cost item indicated in the table above:

- Engineering support includes labor costs associated with project management (e.g., WA Package preparation, monthly invoicing, project scheduling and coordination, etc.), site inspections, groundwater monitoring, and reporting (i.e., site inspection report, DUSR, electronic data deliverable (EDD) preparation, and a PRR).
- Subcontractors include underground utility locator, surveyor, driller, IDW disposal, and analytical laboratory costs associated with the groundwater sampling event.
- Expense costs include travel, equipment, and supplies in support of the site inspections, groundwater sampling event, and site maintenance activities.

5.0 Conclusions and Recommendations

5.1 Conclusions

The only contaminant analyzed during this reporting period in the groundwater was 1,4-Dioxane, which was detected in four of the five groundwater samples; however, no SCG is available for this compound at this time. Based on the information presented in this PRR, the following conclusions are made regarding the concentration of this groundwater contaminant:

- 1,4-Dioxane was detected in four of the five monitoring wells.
- The highest concentration and the only significant detection was at B206-OW-C, which had been broken, allowing surface water to drain into the well (broken for several years).
- Site and groundwater use are consistent with the restrictions set forth in the ROD.
- The remedy continued to be protective of human health and the environment during this reporting period.

5.2 Recommendations

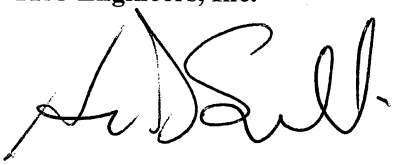
- It is recommended that the Site inspection frequency be continued at least once every year to ensure that building occupancy changes are identified promptly and Site conditions remain unchanged. Once the building is again reoccupied and utility service restored, SSDS inspections should again continue on an annual basis. A Site inspection report should be completed following each inspection event and at least annually.
- It is recommended that the groundwater sampling and analysis for 1,4-Dioxane be continued on a frequency of once every 5th quarter. Based on this recommended frequency, the subsequent groundwater monitoring event following winter of 2021 would be scheduled for the spring of 2023.
- Preparation of a Site Management Plan is underway and will consolidate the various plan documents for this Site and include engineering controls that have been incorporated at the at the Site (i.e., SSDS) and update sampling/inspection procedures and frequencies.
- PRRs should continue to be prepared annually, until such time that the building is reoccupied, and the SSDS can be evaluated and site conditions assessed during operations. The next reporting period would be March 2022 through February 2023.

6.0 Certification of Engineering and Institutional Controls

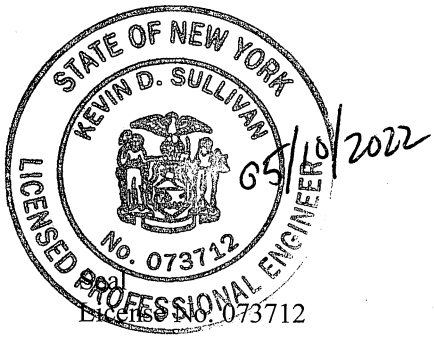
For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:

- The institutional and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by DER;
- Nothing has occurred that would impair the ability of such control to protect public health and the environment; and,
- Nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control.

TRC Engineers, Inc.



Kevin D. Sullivan, P.E.
Principal Engineer



License No. 073712

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. 859014

Site Name Rando Corporation

Site Address: The Commons, Rt 31 Zip Code: 14502
City/Town: Macedon
County: Wayne
Site Acreage: 0.500

Reporting Period: March 30, 2021 to March 30, 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?	☑	☐
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

SITE NO. 859014 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
30111-00-184774		Monitoring Plan
		Groundwater Use Restriction **Box 4**
		Landuse Restriction
		O&M Plan

Description of Engineering Controls

Parcel	Engineering Control
30111-00-184774	Vapor Mitigation
SSD system installed March 2013.	Building is vacant, power is shut down, including power to the SSDS. SSDS is expected to be operable and will be evaluated once building is again re-occupied.

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.

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 Kevin D. Sullivan (print name) at TRC Engineers, Inc., W. Seneca, NY 14224 (print business address),

am certifying as Designated Representative of Remedial Party (NYSDEC) (Owner or Remedial Party)

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

TRC Engineers, Inc.

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

05/10/2022

Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer 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 Kevin D. Sullivan (print name) at TRC Engineers, Inc., W. Seneca, NY 14224 (print business address),

am certifying as a Professional Engineer for the Remedial Party (NYSDEC) (Owner or Remedial Party)

STATE OF NEW YORK
KEVIN D. SULLIVAN
No. 073712
LICENSED PROFESSIONAL ENGINEER

TRC Engineers, Inc.

5/10/2022

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

Stamp (Required for PE)

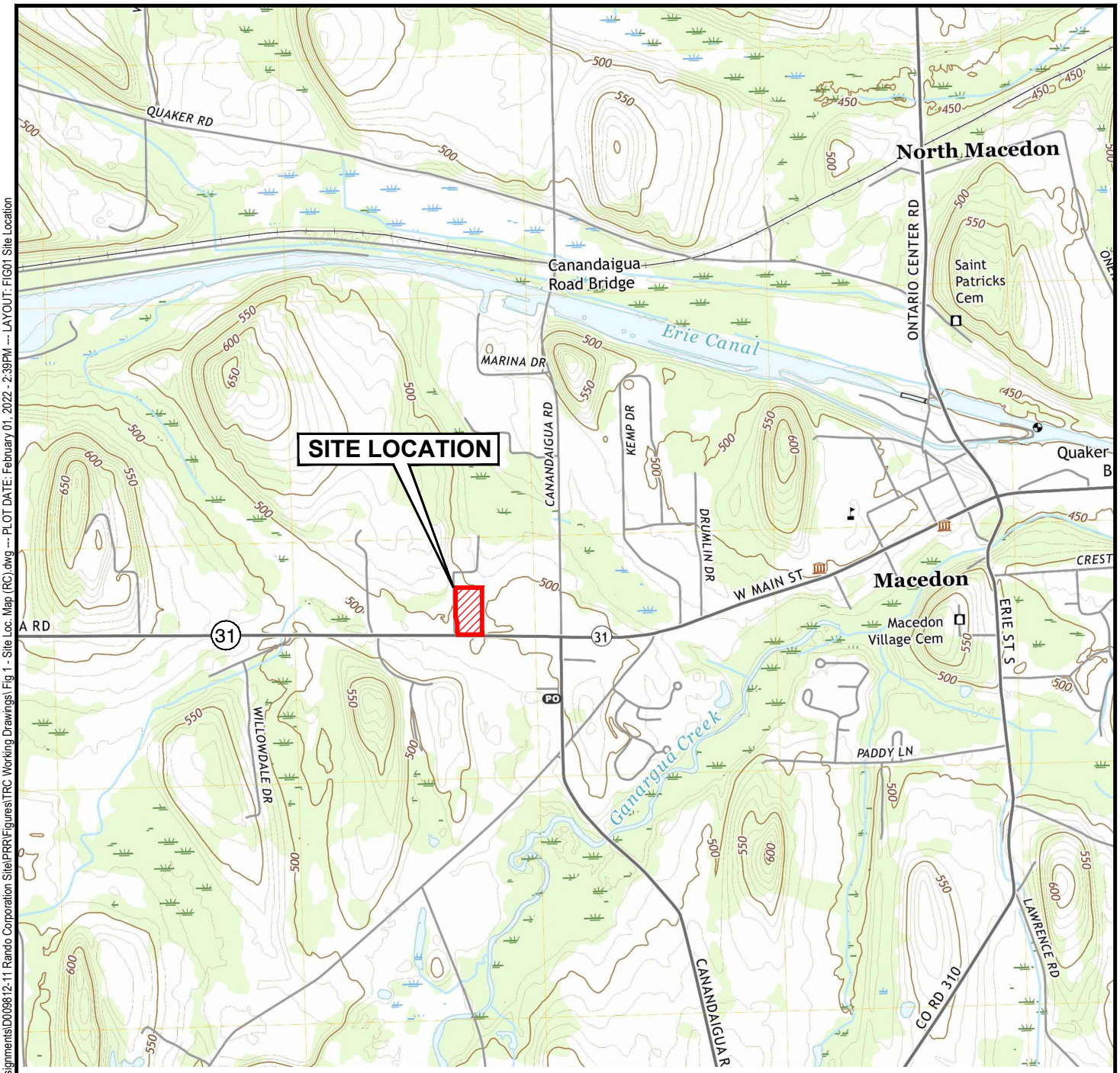
Date

7.0 Future Site Activities

Based on the recommendations provided in **Section 5.0**, the following site management activities will be completed during the next PRR reporting period (March 2022 to February 2023):

- Site Inspections – Annual (next scheduled: Fall 2022)
- Groundwater Sampling – once every 5th quarter (next scheduled: Spring 2023, then Summer 2024)
- SSDS Vacuum Monitoring – Annual (next scheduled: TBD)
- PRR – 1 Year Frequency (next scheduled: March 2023)

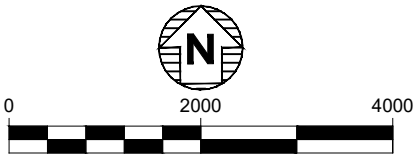
FIGURES



MAP SOURCE:

MAP DEVELOPED FROM THE MACEDON,
NEW YORK 7.5 MINUTE U.S.G.S.
TOPOGRAPHIC QUADRANGLE, DATED 2019.

QUADRANGLE LOCATION



APPROXIMATE SCALE IN FEET

TRC
10 Maxwell Drive, Suite 200
Clifton Park, NY 12065
Phone: 518.348.1190
www.trccompanies.com

PROJECT:

NYSDEC SITE NO. 859014
RANDO CORPORATION SITE
1071 NY-31, MACEDON, NEW YORK 14502

TITLE:

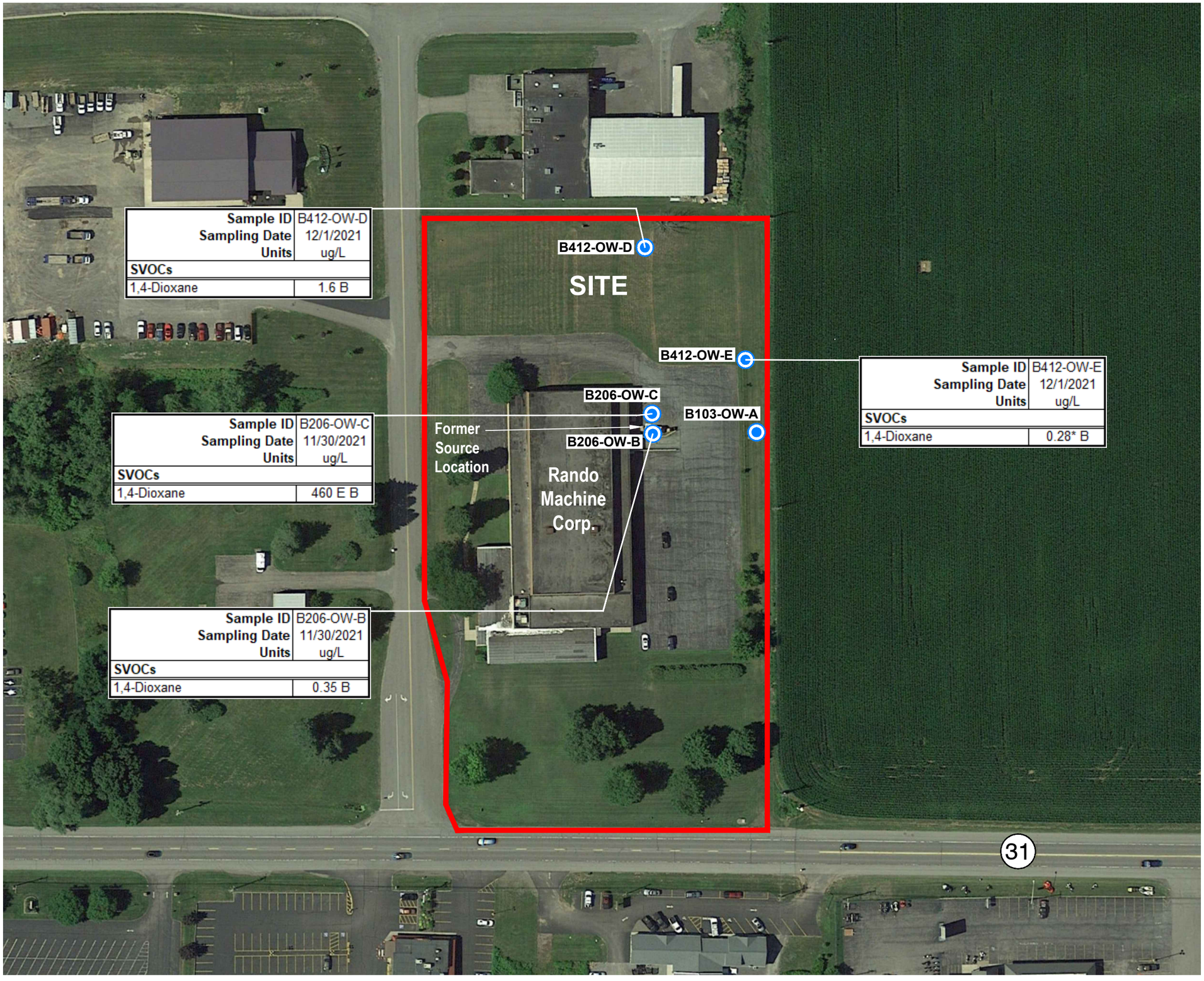
SITE LOCATION MAP

DRAWN BY:	D. STEHLE / H. DELGADO
CHECKED BY:	J. YAEGER
APPROVED BY:	K. SULLIVAN
DATE:	JANUARY 2022
PROJ. NO.:	413002.0000.03.02
FILE:	Fig 1 - Site Loc. Map (RC).dwg

FIGURE 1

8.5x11 -- USER: HDelgado -- ATTACHED XREFS: -- ATTACHED IMAGES: NY_Macedon 7.5.2019;
DRAWING NAME: \\cliftonpark-vfp\cliftonpark\ECR\Projects\NYSDEC\D009812\Work Assignments\D009812-11 Rando Corporation Site\PRR\Figures\TRC Working Drawings\ Fig 1 - Site Loc. Map (RC).dwg --- PLOT DATE: February 01, 2022 - 2:39PM --- LAYOUT: FIG01 Site Location

Version: 2017-10-21



Sample ID	B412-OW-D
Sampling Date	12/1/2021
Units	ug/L
SVOCs	
1,4-Dioxane	1.6 B

Sample ID	B412-OW-E
Sampling Date	12/1/2021
Units	ug/L
SVOCs	
1,4-Dioxane	0.28* B

Sample ID	B206-OW-C
Sampling Date	11/30/2021
Units	ug/L
SVOCs	
1,4-Dioxane	460 E B

Sample ID	B206-OW-B
Sampling Date	11/30/2021
Units	ug/L
SVOCs	
1,4-Dioxane	0.35 B

LEGEND

APPROXIMATE SITE BOUNDARY

MONITORING WELL

Data Key

*	AVERAGE VALUE TAKEN FROM TWO SAMPLES
B	COMPOUND WAS FOUND IN THE BLANK AND SAMPLE
E	RESULT EXCEEDED CALIBRATION RANGE
F1	MS AND/OR MSD RECOVERY EXCEEDS CONTROL LIMITS
J	ESTIMATED VALUE OR LIMIT
ug/L	MICROGRAMS PER LITER
SVOCS	SEMI-VOLATILE ORGANIC COMPOUNDS
U	ANALYZED FOR BUT NOT DETECTED
VOCs	VOLATILE ORGANIC COMPOUNDS

N

0 100 200

APPROXIMATE SCALE IN FEET

PROJECT:

NYSDEC SITE NO. 859014
RANDO CORPORATION SITE
1071 NY-31, MACEDON, NEW YORK 14502

TITLE:

SITE LAYOUT WITH GROUNDWATER SAMPLING RESULTS

DRAWN BY:	D. STEHLE/ H. DELGADO	PROJ NO.:	413002.0000.03.02
CHECKED BY:	J. YAEGER		
APPROVED BY:	K. SULLIVAN		**FIGURE 2**
DATE:	JANUARY 2022		

TRC
10 Maxwell Drive, Suite 200
Clifton Park, NY 12065
Phone: 518.348.1190
www.trccompanies.com

FILE NO.:

TABLES

TABLE 1
New York State Department of Environmental Conservation Site No. 859014
Rando Machine Corporation Site
1071 NY-31, Macedon, New York 14502
Analytical Data Summary (2006 through 2021)

Parameter/Analysis	Unit	TOGS 1.1.1 SGV[n]	B103-OW-A											
			11/21/06	2/6/08	7/7/09	9/17/10	12/8/11	11/7/12	11/12/15	2/28/17	11/27/17	10/30/19	1/20/21	12/1/21
VOCs														
Chloromethane	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromomethane	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Vinyl Chloride	ug/L	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Chloroethane	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Methylene Chloride	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,1-Dichloroethane	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,1-Dichloroethene	ug/L	5	2.96	3.51	ND	ND	2.17	ND	ND	ND	ND	0.8 J	ND	NS
1,2-Dichloroethene	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Chloroform	ug/L	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,2-Dichloroethane	ug/L	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,1,1-Trichloroethane	ug/L	5	**20.8**	**19.3**	**12.9**	**14.6**	**15.1**	**11.5**	**9.94**	**9.75**	ND	**7.00**	ND	NS
Carbon Tetrachloride	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromodichloromethane	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,2-Dichloropropane	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
cis-1,3-Dichloropropene	ug/L	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Trichloroethene	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Dibromochloromethane	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,1,2-Trichloroethane	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
trans-1,3-Dichloropropene	ug/L	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromoform	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Tetrachloroethene	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Additional Parameters														
SVOCs														
1,4-Dioxane	ug/L	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	0.13 J	ND

Notes
ug/l - All values presented in micrograms per liter
ND - Analyzed for but not detected
NS - Not sampled
J - Estimated value or limit
B - Compound was found in the blank and sample
F1 - MS and/or MSD recovery exceeds control limits
E - Result exceeded calibration range
NA - No Standard or Guidance Value Available
Exceeds Class GA Standard or Guidance Value
* - Averaged value
[n] - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.

TABLE 1
New York State Department of Environmental Conservation Site No. 859014
Rando Machine Corporation Site
1071 NY-31, Macedon, New York 14502
Analytical Data Summary (2006 through 2021)

Parameter/Analysis	Unit	TOGS 1.1.1 SGV[n]	B206-OW-B											
			11/21/06	2/6/08	7/7/09	9/17/10	12/8/11	11/7/12	11/12/15	2/28/17	11/27/17	10/30/19	1/20/21	11/30/21
VOCs														
Chloromethane	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromomethane	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Vinyl Chloride	ug/L	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Chloroethane	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Methylene Chloride	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,1-Dichloroethane	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,1-Dichloroethene	ug/L	5	2.24	3.23	ND	ND	2.05	ND	ND	ND	ND	1.2	0.83 J	NS
1,2-Dichloroethene	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Chloroform	ug/L	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,2-Dichloroethane	ug/L	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,1,1-Trichloroethane	ug/L	5	**18.8**	**18.5**	**13.4**	**11.6**	**15.6**	**10.5**	**10.9**	**11.7**	ND	**9.7**	**8.7**	NS
Carbon Tetrachloride	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromodichloromethane	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,2-Dichloropropane	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
cis-1,3-Dichloropropene	ug/L	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Trichloroethene	ug/L	5	2.16	2.49	ND	3.45	2.39	2.21	ND	ND	ND	1.6	1.8	NS
Dibromochloromethane	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,1,2-Trichloroethane	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
trans-1,3-Dichloropropene	ug/L	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromoform	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Tetrachloroethene	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND F1	NS
Additional Parameters														
SVOCs														
1,4-Dioxane	ug/L	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.35	0.096 J	0.35 B

Notes
ug/l - All values presented in micrograms per liter
ND - Analyzed for but not detected
NS - Not sampled
J - Estimated value or limit
B - Compound was found in the blank and sample
F1 - MS and/or MSD recovery exceeds control limits
E - Result exceeded calibration range
NA - No Standard or Guidance Value Available
Exceeds Class GA Standard or Guidance Value
* - Averaged value
[n] - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.

TABLE 1
New York State Department of Environmental Conservation Site No. 859014
Rando Machine Corporation Site
1071 NY-31, Macedon, New York 14502
Analytical Data Summary (2006 through 2021)

Parameter/Analysis	Unit	TOGS 1.1.1 SGV[n]	B206-OW-C											
			11/21/06	2/6/08	7/7/09	9/17/10	12/8/11	11/7/12	11/12/15	2/28/17	11/27/17	10/30/19	3/30/21	11/30/21
VOCs														
Chloromethane	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromomethane	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Vinyl Chloride	ug/L	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Chloroethane	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10.7**	NS
Methylene Chloride	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,1-Dichloroethane	ug/L	5	**27.1**	**14.1**	**11.6**	**10.5**	**12.2**	**9.35**	**10.7**	**9.79**	**13.8**	**13**	**10 F1**	NS
1,1-Dichloroethene	ug/L	5	**7.87**	**9.33**	**8.85**	**5.25**	**7.82**	4.57	**6.58**	**6.95**	**8.56**	**10**	**9.9 F1**	NS
1,2-Dichloroethene	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Chloroform	ug/L	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,2-Dichloroethane	ug/L	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1**	NS
1,1,1-Trichloroethane	ug/L	5	**19**	**14.9**	**16.2**	**9.22**	**12.3**	**6.57**	**9.64**	**7.89**	ND	**9.3**	ND	NS
Carbon Tetrachloride	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromodichloromethane	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,2-Dichloropropane	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
cis-1,3-Dichloropropene	ug/L	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Trichloroethene	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	1.3	NS
Dibromochloromethane	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
1,1,2-Trichloroethane	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
trans-1,3-Dichloropropene	ug/L	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Bromoform	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Tetrachloroethene	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
Additional Parameters														
SVOCs														
1,4-Dioxane	ug/L	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	380 E	430 E	460 E B

Notes
ug/l - All values presented in micrograms per liter
ND - Analyzed for but not detected
NS - Not sampled
J - Estimated value or limit
B - Compound was found in the blank and sample
F1 - MS and/or MSD recovery exceeds control limits
E - Result exceeded calibration range
NA - No Standard or Guidance Value Available
Exceeds Class GA Standard or Guidance Value
* - Averaged value
[n] - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.

TABLE 1
New York State Department of Environmental Conservation Site No. 859014
Rando Machine Corporation Site
1071 NY-31, Macedon, New York 14502
Analytical Data Summary (2006 through 2021)

Parameter/Analysis	Unit	TOGS 1.1.1 SGV[n]	B412-OW-D 12/1/21	B412-OW-E 12/1/21
VOCs				
Chloromethane	ug/L	5	NS	NS
Bromomethane	ug/L	5	NS	NS
Vinyl Chloride	ug/L	2	NS	NS
Chloroethane	ug/L	5	NS	NS
Methylene Chloride	ug/L	5	NS	NS
1,1-Dichloroethane	ug/L	5	NS	NS
1,1-Dichloroethene	ug/L	5	NS	NS
1,2-Dichloroethene	ug/L	5	NS	NS
Chloroform	ug/L	7	NS	NS
1,2-Dichloroethane	ug/L	0.6	NS	NS
1,1,1-Trichloroethane	ug/L	5	NS	NS
Carbon Tetrachloride	ug/L	5	NS	NS
Bromodichloromethane	ug/L	50	NS	NS
1,2-Dichloropropane	ug/L	1	NS	NS
cis-1,3-Dichloropropene	ug/L	0.4	NS	NS
Trichloroethene	ug/L	5	NS	NS
Dibromochloromethane	ug/L	50	NS	NS
1,1,2-Trichloroethane	ug/L	1	NS	NS
trans-1,3-Dichloropropene	ug/L	0.4	NS	NS
Bromoform	ug/L	50	NS	NS
Tetrachloroethene	ug/L	5	NS	NS
Additional Parameters				
SVOCs				
1,4-Dioxane	ug/L	NA	1.6 B	0.28* B

Notes
ug/l - All values presented in micrograms per liter
ND - Analyzed for but not detected
NS - Not sampled
J - Estimated value or limit
B - Compound was found in the blank and sample
F1 - MS and/or MSD recovery exceeds control limits
E - Result exceeded calibration range
NA - No Standard or Guidance Value Available
Exceeds Class GA Standard or Guidance Value
* - Averaged value
[n] - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.

APPENDIX A

Data Usability Summary Report

Site: Rando Corp Site - NYS Standby
Laboratory: Eurofins TestAmerica – Amherst, NY
SDG No.: 480-192931-1
Parameters: 1,4-Dioxane
Data Reviewer: Kristen Morin/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: January 19, 2022

Samples Reviewed and Evaluation Summary

6 Groundwater Samples: RC-OW-A, RC-OW-B, RC-OW-C, RC-OW-D, RC-OW-E, RC-OW-DUPE*

*Field duplicate of sample RC-OW-E

The above-listed groundwater samples were collected on November 30 and December 1, 2021 and were analyzed for 1,4-dioxane by SW-846 Method 8270D with Selective Ion Monitoring (SIM).

The data validation was performed in accordance with *USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-20-005),* November 2020, modified for the SW-846 methodology utilized.

The data were evaluated based on the following parameters:

* • Overall Evaluation of Data and Potential Usability Issues
* • Data Completeness
* • Holding Times and Sample Preservation
* • Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
* • Initial and Continuing Calibrations
• Blanks
* • Surrogate Recoveries
* • Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
* • Laboratory Control Sample (LCS) Results
* • Internal Standards
* • Field Duplicate Results
• Sample Results and Reported Quantitation Limits (QLs)
* • Target Compound Identification

* - All criteria were met.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. There were no qualifications applied to the data because of sampling or analytical error.

Data Completeness

The data package was a complete Level IV data deliverable.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All relative response factors and percent relative standard deviations in the initial calibrations and all percent differences in the continuing calibration standards associated with the samples in this data set were within acceptance criteria.

Blanks

The following table summarizes the compounds found in the laboratory method blanks, the concentrations detected, the associated samples, and the resulting validation actions.

Blank ID	Compound	Blank Result (µg/L)	2x Blank Result (µg/L)	Validation Actions
MB 480-607415/1-A	1,4-Dioxane	0.215 J	0.430	Qualification was not required for the associated samples since 1,4-dioxane was either nondetect or detected at a concentration >2x the blank concentration.
Associated samples: RC-OW-A, RC-OW-C				
MB 480-607729/1-A	1,4-Dioxane	0.133 J	0.266	Qualification was not required for the associated samples since 1,4-dioxane was detected at a concentration >2x the blank concentration.
Associated samples: RC-OW-B, RC-OW-D, RC-OW-E, RC-OW-DUPE				
Criteria: • If concentration in sample is <QL, replace result with QL flagged with "U" • If concentration in sample ≥QL and <2x blank concentration, report concentration with "U" • If concentration in sample ≥QL and ≥2x blank concentration, no qualification				

Surrogate Recoveries

The surrogate percent recoveries (%Rs) met the laboratory acceptance criteria.

MS/MSD Results

MS/MSD analyses were performed on sample RC-OW-A. The %Rs and relative percent difference met the laboratory acceptance criteria.

LCS Results

The LCS %Rs were within the laboratory acceptance criteria..

Internal Standards

The %Rs for the internal standards met the laboratory limits.

Field Duplicate Results

Samples RC-OW-E and RC-OW-DUPE were submitted as the field duplicate pair with this data set. The duplicate RPD is not applicable for comparison of results if either concentration is <5x the QL; comparison is based on the absolute difference (AbsD) between the results in this case. The acceptance limits for field duplicates in aqueous media is ≤30% for the RPD (where appropriate) and ≤QL for the AbsD. The following table summarizes the detected results and AbsD value for the detected analytes in the field duplicate pair and the resulting validation actions. All criteria were met.

Analyte	QL (µg/L)	RC-OW-E (µg/L)	RC-OW-DUPE (µg/L)	AbsD (µg/L)	Validation Actions
1,4-Dioxane	0.20	0.27	0.29	0.02	None. All criteria were met.

Sample Results and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted.

A 10-fold dilution was performed on sample R-OW-C for 1,4-dioxane due to the concentration of 1,4-dioxane that would have exceeded the calibration range if analyzed undiluted. The result for 1,4-dioxane in this sample was flagged with an “E” by the laboratory due to a calibration range exceedance after the raw result was corrected for the recovery of the 1,4-dioxane-d8 isotope; however, the actual response for 1,4-dioxane in this sample was not above the calibration range prior to correction for the recovery of the 1,4-dioxane-d8 isotope. Therefore, no validation actions were taken on this basis.

Target Compound Identification

All criteria were met.

QUALIFIED FORM 1s

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-192931-1

SDG No.:

Client Sample ID: RC-OW-A Lab Sample ID: 480-192931-1

Matrix: Water Lab File ID: U33165152.D

Analysis Method: 8270D SIM ID Date Collected: 12/01/2021 10:20

Extract. Method: 3510C Date Extracted: 12/02/2021 14:21

Sample wt/vol: 250(mL) Date Analyzed: 12/03/2021 15:18

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 607522 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	33		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-192931-1

SDG No.:

Client Sample ID: RC-OW-B Lab Sample ID: 480-192931-2

Matrix: Water Lab File ID: U33165279.D

Analysis Method: 8270D SIM ID Date Collected: 11/30/2021 15:15

Extract. Method: 3510C Date Extracted: 12/06/2021 14:52

Sample wt/vol: 250(mL) Date Analyzed: 12/13/2021 02:46

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 608156 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.35	~~B~~	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-192931-1

SDG No.:

Client Sample ID: RC-OW-C Lab Sample ID: 480-192931-3

Matrix: Water Lab File ID: U33165162.D

Analysis Method: 8270D SIM ID Date Collected: 11/30/2021 16:50

Extract. Method: 3510C Date Extracted: 12/02/2021 14:21

Sample wt/vol: 250(mL) Date Analyzed: 12/06/2021 12:24

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 607670 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	460	~~E B~~	2.0	1.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	44		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-192931-1

SDG No.:

Client Sample ID: RC-OW-D Lab Sample ID: 480-192931-4

Matrix: Water Lab File ID: U33165280.D

Analysis Method: 8270D SIM ID Date Collected: 12/01/2021 14:00

Extract. Method: 3510C Date Extracted: 12/06/2021 14:52

Sample wt/vol: 250(mL) Date Analyzed: 12/13/2021 03:09

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 608156 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.6	~~B~~	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	32		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-192931-1

SDG No.:

Client Sample ID: RC-OW-E Lab Sample ID: 480-192931-5

Matrix: Water Lab File ID: U33165281.D

Analysis Method: 8270D SIM ID Date Collected: 12/01/2021 11:30

Extract. Method: 3510C Date Extracted: 12/06/2021 14:52

Sample wt/vol: 250(mL) Date Analyzed: 12/13/2021 03:33

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 608156 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.27	B	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	31		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-192931-1

SDG No.:

Client Sample ID: RC-OW-DUPE Lab Sample ID: 480-192931-8

Matrix: Water Lab File ID: U33165282.D

Analysis Method: 8270D SIM ID Date Collected: 12/01/2021 08:00

Extract. Method: 3510C Date Extracted: 12/06/2021 14:54

Sample wt/vol: 250(mL) Date Analyzed: 12/13/2021 03:57

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 608156 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.29	~~B~~	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	36		15-110

QC NONCONFORMANCE DOCUMENTATION

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-192931-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-607415/1-A

Matrix: Water Lab File ID: U33165148.D

Analysis Method: 8270D SIM ID Date Collected:

Extract. Method: 3510C Date Extracted: 12/02/2021 14:21

Sample wt/vol: 250(mL) Date Analyzed: 12/03/2021 13:44

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 607522 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.215		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	47		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-192931-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-607729/1-A

Matrix: Water Lab File ID: U33165266.D

Analysis Method: 8270D SIM ID Date Collected:

Extract. Method: 3510C Date Extracted: 12/06/2021 14:52

Sample wt/vol: 250(mL) Date Analyzed: 12/12/2021 21:38

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 608156 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.133	J	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	40		15-110

APPENDIX B

TRC		**DATE: Friday, October 29, 2021**
		REPORT NO. 20210330
		PAGE NO. 1 OF 2
		PROJECT NO. 413002.0000.0000
		LOGBOOK NO. -- PAGES -- to --

DAILY FIELD ACTIVITY REPORT

PROJECT	Rando Machine Corporation Site
LOCATION	Macedon, New York
ATTACHMENTS	Photo Log

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Partly Cloudy	09:30	47°F	68%	10 - 15	ESE

SITE CONDITIONS: Cloudy skies with periods of light rain

WORK GOAL FOR DAY: Utility mark-outs

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Josh Yaeger	TRC Engineers, Inc.	07:30	10:00
Greenstar Field Worker	Greenstar	07:45	09:30

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Jonathan Bone

H & S NOTES: Site work performed in Level D PPE

TRC		**DATE: Friday, October 29, 2021**
		REPORT NO. 20210330
		PAGE NO. 2 OF 2
		PROJECT NO. 413002.0000.0000

DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) conducted a supplemental site inspection to the quarterly done back in spring 2021 in order to perform an annual groundwater gauging, a groundwater sampling event, preform various repairs as previously denoted for monitoring well B103-OW-A, B206-OW-C, and install monitoring wells B412-OW-D, B412-OW-E on Friday, October 29, 2021 at the Rando Machine Corporation Site (Site). The Site is located in a suburban portion of Wayne County on Route 31, just west of the Village of Macedon in the Town of Macedon, NY. A site visit was performed to mark out the utility lines and locate subterranean obstructions for future well installations, document the inspection of the existing groundwater monitoring wells while ensuring all other control implementations remained unchanged since last spring.

TRC conducted a quick site walk, visual inspection and observed Greenstar as they scanned the vicinity of the Site where the future well were to be installed. All Site wells were still in fair condition, with the exception of B206-OW-C's riser and B103-OW-A's damaged hinge as mentioned in the previous field report.

The site inspection involved walking the perimeter of the building and surrounding parking lot. The surrounding lot was stable with no visible erosion, cracks, settlement or seeps. The asphalt appeared intact and in fine condition. The drainage swales and channels did not show any water retention. The drainage swales and channels appear to be in good condition do not contain any obstructions which could potentially prohibit stormwater flow.

The ground surface vicinity for the monitoring wells appeared to be in good condition without any evidence of settlement. No animal borrows, or voids, were observed around the wells, and no gas odors or issues related to vapor accumulation were observed during the site inspection.

Overall, the second quarter inspection showed the Site to be in good condition, although the interior facility is still unknown. The Site's grading and drainage system appear to be functioning as intended. TRC recommends repairs be made to both damaged wells on-Site.

PREPARED BY (OBSERVER):	**REVIEWED BY:**
PRINT NAME: Josh Yaeger	**PRINT NAME:**

TRC		**DATE: Monday, November 1, 2021**
		REPORT NO. 20211101
		PAGE NO. 1 OF 2
		PROJECT NO. 413002.0000.0000
		LOGBOOK NO. -- PAGES -- to --

DAILY FIELD ACTIVITY REPORT

PROJECT	Rando Machine Corporation Site
LOCATION	Macedon, New York
ATTACHMENTS	Photo Log

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Clear	07:40	43°F	6%	10-22	WSW
Clear	13:15	50°F	3%	10-22	W

SITE CONDITIONS: Mostly sunshine

WORK GOAL FOR DAY: Site inspection and monitoring well installations

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Josh Yaeger	TRC Engineers, Inc.	07:30	16:30
LaBella Field Workers (x3)	LaBella	07:45	16:15
NYSDEC Rep.	NYSDEC	09:00	09:15

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Jonathan Bone

H & S NOTES: Site work performed in Level D PPE

TRC		**DATE: Monday, November 1, 2021**
		REPORT NO. 20211101
		PAGE NO. 2 OF 2
		PROJECT NO. 413002.0000.0000

DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) conducted a supplemental site inspection to the quarterly done back in January in order to perform an annual groundwater gauging, and groundwater sampling event for monitoring well B206-OW-C on Tuesday, March 30, 2021 at the Rando Machine Corporation Site (Site). The Site is located in a suburban portion of Wayne County on Route 31, just west of the Village of Macedon in the Town of Macedon, NY. A site visit was performed to document the inspection of groundwater monitoring well B206-OW-C while ensuring all other control implementations remained unchanged since January.

TRC conducted a quick site walk, visual inspection and then oversaw the installation of wells B412-OW-D and B412-OW-E. All Site wells were still in fair condition, with the exception of B206-OW-C's riser and B103-OW-A's damaged hinge as mentioned in the previous field report.

The site inspection involved walking the perimeter of the building and surrounding parking lot. The surrounding lot was stable with no visible erosion, cracks, settlement or seeps. The asphalt appeared intact and in fine condition. The drainage swales and channels did not show any water retention. The drainage swales and channels appear to be in good condition do not contain any obstructions which could potentially prohibit stormwater flow.

Starting at 0845 after a health and safety meeting debriefing, LaBella began hand/jet-clearing out the boring location for B412-OW-D and B412-OW-E. Auger drilling at B412-OW-E finished up around 0930 with the water table being encountered at 1030. At 1100, Labell began pouring sand/grout down the bore shaft, setting all materials in place by 1145. By 1200, LaBella engaged in decontamination activities in order to begin efforts on the boring location for B412-OW-D. Auger efforts post hand/jet-clearing went from 1230 to 1530 with various mechanical issues occurring during efforts to hit the water table. Ball bearings were cracked, and efforts were halted until the next morning, given the need for replacement parts.

The ground surface vicinity for the monitoring wells appeared to be in good condition without any evidence of settlement. No animal borrows, or voids, were observed around the wells, and no gas odors or issues related to vapor accumulation were observed during the site inspection.

Overall, the second quarter inspection showed the Site to be in good condition, although the interior facility is still unknown. The Site's grading and drainage system appear to be functioning as intended. TRC recommends repairs be made to both damaged wells on-Site.

PREPARED BY (OBSERVER):	**REVIEWED BY:**
PRINT NAME: Josh Yaeger	**PRINT NAME:**

TRC		**DATE: Tuesday, November 2, 2021**
		REPORT NO. 20211102
		PAGE NO. 1 OF 2
		PROJECT NO. 413002.0000.0000
		LOGBOOK NO. -- PAGES -- to --

DAILY FIELD ACTIVITY REPORT

PROJECT	Rando Machine Corporation Site
LOCATION	Macedon, New York
ATTACHMENTS	Photo Log

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Clear	07:59	37°F	13%	10-15	SSW
Cloudy	13:53	47°F	8%	12-17	WSW

SITE CONDITIONS: Sunshine / Clouds

WORK GOAL FOR DAY: Site inspection and monitoring well installations / repairs

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Josh Yaeger	TRC Engineers, Inc.	08:00	16:30
LaBella Field Workers (x3)	LaBella	08:00	16:15

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Jonathan Bone

H & S NOTES: Site work performed in Level D PPE

TRC		**DATE: Tuesday, November 2, 2021**
		REPORT NO. 20211102
		PAGE NO. 2 OF 2
		PROJECT NO. 413002.0000.0000

DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) conducted a supplemental site inspection to the quarterly done back in January in order to perform an annual groundwater gauging, and groundwater sampling event for monitoring well B206-OW-C on Tuesday, March 30, 2021 at the Rando Machine Corporation Site (Site). The Site is located in a suburban portion of Wayne County on Route 31, just west of the Village of Macedon in the Town of Macedon, NY. A site visit was performed to document the inspection of groundwater monitoring well B206-OW-C while ensuring all other control implementations remained unchanged since January.

TRC conducted a quick site walk, visual inspection and then oversaw the installation of well B412-OW-D. All Site wells were still in fair condition, with the exception of B206-OW-C's riser and B103-OW-A's damaged hinge as mentioned in the previous field report.

The site inspection involved walking the perimeter of the building and surrounding parking lot. The surrounding lot was stable with no visible erosion, cracks, settlement or seeps. The asphalt appeared intact and in fine condition. The drainage swales and channels did not show any water retention. The drainage swales and channels appear to be in good condition do not contain any obstructions which could potentially prohibit stormwater flow.

Starting at 0830 after a health and safety meeting debriefing, LaBella began repairs to the downed mechanism from the previous day. Auger drilling down to the 25-ft bgs failed to result in any water table encounter in the bore location for B412-OW-D; after consulting higher management, B412-OW-D was bore down to ±30-ft bgs before pouring sand/grout down the bore shaft around 1115. After setting the final grout layer and stabilizer rods, LaBella returned to setting the final grout layer for B412-OW-E and decon until 1315; same as B412-OW-D.

By 1415, LaBella began to cut out the 2-ft x 2-ft area around the base of B206-OW-C in order to pour the new base and riser; this finished around 1530. Following B206-OW-C's repair efforts, LaBella began to stage the soil drums by their associated bore locations, wrapping the day's efforts up around 1600.

The ground surface vicinity for the monitoring wells appeared to be in good condition without any evidence of settlement. No animal borrows, or voids, were observed around the wells, and no gas odors or issues related to vapor accumulation were observed during the site inspection.

Overall, the second quarter inspection showed the Site to be in good condition, although the interior facility is still unknown. The Site's grading and drainage system appear to be functioning as intended. TRC recommends repairs still be made to monitoring well B103-OW-A's damaged hinge when LaBella's scheduling allows given illness of field staff resulting in labor resource shortages on LaBella's side.

PREPARED BY (OBSERVER):	**REVIEWED BY:**
PRINT NAME: Josh Yaeger	**PRINT NAME:**

TRC		**DATE: Friday, November 5, 2021**
		REPORT NO. 20211105
		PAGE NO. 1 OF 2
		PROJECT NO. 413002.0000.0000
		LOGBOOK NO. -- PAGES -- to --

DAILY FIELD ACTIVITY REPORT

PROJECT	Rando Machine Corporation Site
LOCATION	Macedon, New York
ATTACHMENTS	Photo Log

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Partly Cloudy	08:17	31°F	9%	0-4	WSW

SITE CONDITIONS: Sunshine / Clouds

WORK GOAL FOR DAY: Site inspection and monitoring well installations / repairs

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Josh Yaeger	TRC Engineers, Inc.	08:15	09:45
LaBella Field Workers (x2)	LaBella	08:15	09:45

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL
PID	MiniRAE 3000		
Oil/Water Interface Probe	Heron		
YSI	Pro DSS		
Peristaltic Pump	Geotech		

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Steve Johansson

H & S NOTES: Site work performed in Level D PPE

TRC		**DATE: Friday, November 5, 2021**
		REPORT NO. 20211105
		PAGE NO. 2 OF 2
		PROJECT NO. 413002.0000.0000

DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) conducted a supplemental site inspection to the quarterly done back in January in order to perform an annual groundwater gauging, and groundwater sampling event for monitoring well B206-OW-C on Tuesday, March 30, 2021 at the Rando Machine Corporation Site (Site). The Site is located in a suburban portion of Wayne County on Route 31, just west of the Village of Macedon in the Town of Macedon, NY. A site visit was performed to document the inspection of groundwater monitoring well B206-OW-C while ensuring all other control implementations remained unchanged since January.

TRC conducted a quick site walk, visual inspection and then oversaw the development of wells B412-OW-D and B412-OW-E. All Site wells were still in fair condition, with the exception of B103-OW-A's damaged hinge as mentioned in the previous field report.

The site inspection involved walking the perimeter of the building and surrounding parking lot. The surrounding lot was stable with no visible erosion, cracks, settlement or seeps. The asphalt appeared intact and in fine condition. The drainage swales and channels did not show any water retention. The drainage swales and channels appear to be in good condition do not contain any obstructions which could potentially prohibit stormwater flow.

Starting at 0815 after a health and safety meeting debriefing, LaBella began developing monitoring well B412-OW-D until 0845. Following this, B412-OW-E was developed the same until 0915. At 0930, TRC was present during a property showing; however, no means of building access or power were available to attempt or gather information pertaining to any subsurface vapor elements. LaBella began work on repairs to B103-OW-A's damaged hinge in that the cap was removed and taken by LaBella to be refabricated with a new hinge. This would then be mounted back on by LaBella's GM at a later date with correspondence to provide proof of completion wrapping the day's efforts up around 1100.

The ground surface vicinity for the monitoring wells appeared to be in good condition without any evidence of settlement. No animal borrows, or voids, were observed around the wells, and no gas odors or issues related to vapor accumulation were observed during the site inspection.

Overall, the second quarter inspection showed the Site to be in good condition, although the interior facility is still unknown. The Site's grading and drainage system appear to be functioning as intended.

PREPARED BY (OBSERVER):	**REVIEWED BY:**
PRINT NAME: Josh Yaeger	**PRINT NAME:**

TRC		**DATE: Tuesday, November 30, 2021**
		REPORT NO. 20211130
		PAGE NO. 1 OF 2
		PROJECT NO. 413002.0000.0000
		LOGBOOK NO. -- PAGES -- to --

DAILY FIELD ACTIVITY REPORT

PROJECT	Rando Machine Corporation Site
LOCATION	Macedon, New York
ATTACHMENTS	Photo Log

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Cloudy	10:56	35°F	58%	5-10	SW
Cloudy	16:29	37°F	41%	10-20	SSW

SITE CONDITIONS: Mostly Cloudy

WORK GOAL FOR DAY: Site inspection and groundwater sampling

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Josh Yaeger	TRC Engineers, Inc.	10:45	16:45

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL
Oil/Water Interface Probe	Heron		
YSI	Pro DSS		
Peristaltic Pump	Geotech		

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Jonathan Bone

H & S NOTES: Site work performed in Level D PPE

TRC		**DATE: Tuesday, November 30, 2021**
		REPORT NO. 20211130
		PAGE NO. 2 OF 2
		PROJECT NO. 413002.0000.0000

DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) conducted a supplemental site inspection to the quarterly done back in January in order to perform an annual groundwater gauging, and groundwater sampling event for monitoring well B206-OW-C on Tuesday, March 30, 2021 at the Rando Machine Corporation Site (Site). The Site is located in a suburban portion of Wayne County on Route 31, just west of the Village of Macedon in the Town of Macedon, NY. A site visit was performed to document the inspection of groundwater monitoring well B206-OW-C while ensuring all other control implementations remained unchanged since January.

TRC conducted a quick site walk, visual inspection and gauged monitoring wells B206-OW-B and B206-OW-C. All Site wells were still in fair condition, all damages previously mentioned in field reports have been addressed.

The site inspection involved walking the perimeter of the building and surrounding parking lot. The surrounding lot was stable with no visible erosion, cracks, settlement or seeps. The asphalt appeared intact and in fine condition. The drainage swales and channels did not contain any water. The drainage swales and channels appear to be in good condition do not contain any obstructions which could potentially prohibit stormwater flow.

The ground surface vicinity for the monitoring wells appeared to be in good condition without any evidence of settlement. No animal borrows, or voids, were observed around the wells, and no gas odors or issues related to vapor accumulation were observed during the site inspection.

TRC collected groundwater samples from monitoring well B206-OW-B and B206-OW-C. The groundwater samples were submitted to TestAmerica/Eurofins Laboratories, Inc. for analysis of Target Compound List (TCL) Volatile Organic Compounds (VOCs) via EPA method 8260 and 1,4-Dioxane via EPA method 8270. Overall, the second quarter inspection showed the Site to be in good condition, although the interior facility is still unknown. The Site's grading and drainage system appear to be functioning as intended.

PREPARED BY (OBSERVER):	**REVIEWED BY:**
PRINT NAME: Josh Yaeger	**PRINT NAME:**

TRC		**DATE: Wednesday, December 1, 2021**
		REPORT NO. 20211201
		PAGE NO. 1 OF 2
		PROJECT NO. 413002.0000.0000
		LOGBOOK NO. -- PAGES -- to --

DAILY FIELD ACTIVITY REPORT

PROJECT	Rando Machine Corporation Site
LOCATION	Macedon, New York
ATTACHMENTS	Photo Log

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Cloudy	08:54	35°F	14%	5-10	SW
Cloudy	13:25	43°F	20%	0-6	SW

SITE CONDITIONS: Mostly Cloudy

WORK GOAL FOR DAY: Site inspection and groundwater sampling

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Josh Yaeger	TRC Engineers, Inc.	08:45	14:30

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL
Oil/Water Interface Probe	Heron		
YSI	Pro DSS		
Peristaltic Pump	Geotech		

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Jonathan Bone

H & S NOTES: Site work performed in Level D PPE

TRC		**DATE: Wednesday, December 1, 2021**
		REPORT NO. 20211201
		PAGE NO. 2 OF 2
		PROJECT NO. 413002.0000.0000

DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) conducted a supplemental site inspection to the quarterly done back in January in order to perform an annual groundwater gauging, and groundwater sampling event for monitoring well B206-OW-C on Tuesday, March 30, 2021 at the Rando Machine Corporation Site (Site). The Site is located in a suburban portion of Wayne County on Route 31, just west of the Village of Macedon in the Town of Macedon, NY. A site visit was performed to document the inspection of groundwater monitoring well B206-OW-C while ensuring all other control implementations remained unchanged since January.

TRC conducted a quick site walk, visual inspection and gauged monitoring wells B103-OW-A, B412-OW-D and B412-OW-E. All Site wells were still in fair condition, all damages previously mentioned in field reports have been addressed.

The site inspection involved walking the perimeter of the building and surrounding parking lot. The surrounding lot was stable with no visible erosion, cracks, settlement or seeps. The asphalt appeared intact and in fine condition. The drainage swales and channels did not contain any water. The drainage swales and channels appear to be in good condition do not contain any obstructions which could potentially prohibit stormwater flow.

The ground surface vicinity for the monitoring wells appeared to be in good condition without any evidence of settlement. No animal borrows, or voids, were observed around the wells, and no gas odors or issues related to vapor accumulation were observed during the site inspection.

TRC collected groundwater samples from monitoring well B103-OW-A, B412-OW-D and B412-OW-E. The groundwater samples were submitted to TestAmerica/Eurofins Laboratories, Inc. for analysis of Target Compound List (TCL) Volatile Organic Compounds (VOCs) via EPA method 8260 and 1,4-Dioxane via EPA method 8270. Overall, the second quarter inspection showed the Site to be in good condition, although the interior facility is still unknown. The Site's grading and drainage system appear to be functioning as intended.

PREPARED BY (OBSERVER):	**REVIEWED BY:**
PRINT NAME: Josh Yaeger	**PRINT NAME:**

NYSDEC Rando Machine Corporation Site
Photograph Log
Date: October 29, 2021

Photo 1: View of the subsurface obstructions marked out by Greencastle; assumed to be large field stones left within the swale embankment area near B412-OW-D's future location.

Photo 2: Proposed location of B412-OW-D's installation site.

Photo 3: Proposed location of B412-OW-E's installation site; looking back at Site building.

Photo 4: Proposed location of B412-OW-E's installation site; looking out at neighboring agricultural fields.

NYSDEC Rando Machine Corporation Site
Photograph Log
Date: October 29, 2021

Photo 5: Proposed location of B412-OW-E's installation site; looking out at neighboring industrial warehouse.

Photo 6: Proposed location of B412-OW-D's installation site; looking out at neighboring industrial warehouse.

Photo 7: Access means of vehicle access for monitoring well B412-OW-D to drop off materials.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
413002.0000 .0000	Josh Yaeger	2 of 2	NYSDEC	Rando Machine Corp Site Macedon, NY	TRC

NYSDEC Rando Machine Corporation Site
Photograph Log
Date: November 01, 2021

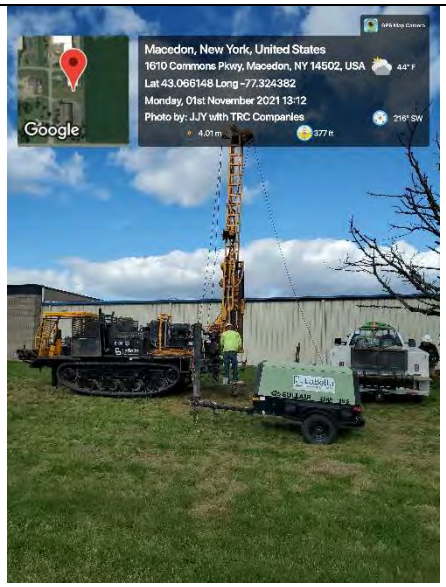


Photo 1: LaBella driving the well casing into the soil for B412-OW-D's installation.

Photo 2: Decon station for LaBella PC within the Facility's parking lot; rolled up to prevent debris blowout from the previous days waste.

Photo 3: Location of B412-OW-E's installation site; soil barrels staged for sampling and removal.

Photo 4: LaBella driving the well casing into the soil for B412-OW-E's installation.

NYSDEC Rando Machine Corporation Site
Photograph Log
Date: November 01, 2021

Photo 5: Example of excavated soil from the B412-OW-E location.

Photo 6: B412-OW-E receiving grout for casing stabilization.

Photo 7: Example of excavated soil from the B412-OW-D location.

Photo 8: Sheered ball bearing from when mechanical issues arose at the B412-OW-D location.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
413002.0000 .0000	Josh Yaeger	2 of 2	NYSDEC	Rando Machine Corp Site Macedon, NY	TRC

NYSDEC Rando Machine Corporation Site
Photograph Log
Date: November 02, 2021

Photo 1: Final vicinity shot of B412-OW-E and its staged drums of soil excavation; grouted in place.

Photo 2: Final vicinity shot of B412-OW-D and its staged drums of soil excavation; grouted in place.

Photo 3: LaBella cutting the asphalt area around the base of B206-OW-C in order to replace the riser.

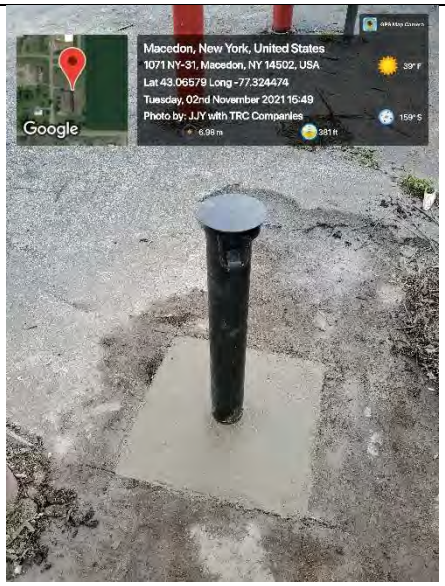


Photo 4: Final vicinity shot of B206-OW-C and its new riser and cap; grouted in place.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
413002.0000 .0000	Josh Yaeger	1 of 1	NYSDEC	Rando Machine Corp Site Macedon, NY	TRC

NYSDEC Rando Machine Corporation Site
Photograph Log
Date: November 05, 2021

Photo 1: Final vicinity shot of B412-OW-E and its staged drums of soil excavation; grouted in place.

Photo 2: Final vicinity shot of B412-OW-D and its staged drums of soil excavation; grouted in place.

Photo 3: LaBella cutting the asphalt area around the base of B206-OW-C in order to replace the riser.

Photo 4: Final vicinity shot of B206-OW-C and its new riser and cap; grouted in place.

NYSDEC Rando Machine Corporation Site
Photograph Log
Date: November 05, 2021

Photo 5: B103-OW-A's new cap and hinge; as fabricated by LaBella.

Photo 6: B103-OW-A's new cap and hinge; staged in the mount position.

Photo 7: B103-OW-A's new cap and hinge; attached to the riser in the final position.

Photo 8: Final vicinity shot of B103-OW-A's new cap and hinge.

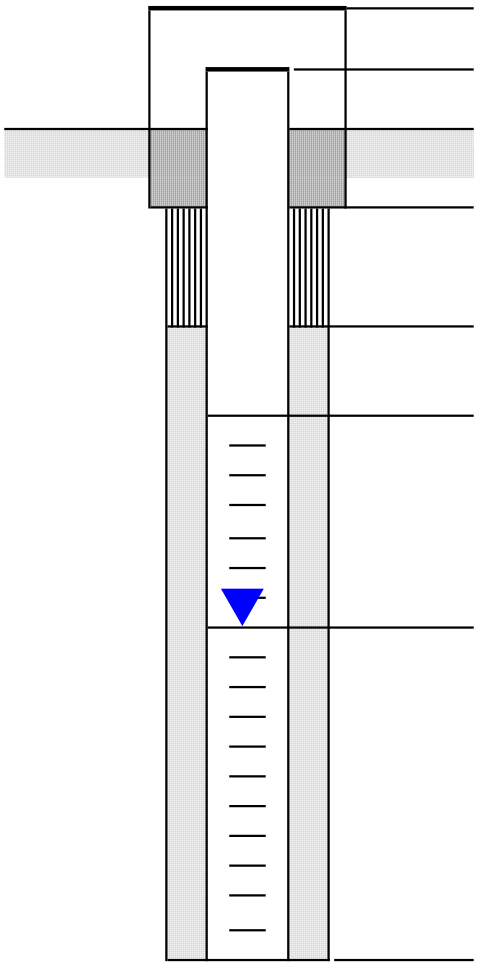
TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
413002.0000 .0000	Josh Yaeger	2 of 2	NYSDEC	Rando Machine Corp Site Macedon, NY	TRC

STICK-UP WELL CONSTRUCTION LOG

WELL: B412-OW-D
SHEET 1 **OF** 2

PROJECT NAME:	Rando Machine Corp	WELL NUMBER:	B412-OW-D
ADDRESS:	1071 NY-31, Macedon, NY	DRILLING METHOD:	Hollow stem auger/bore
INSTALLATION DATE:	11/2/21	DRILLER:	LaBella
DEVELOPMENT DATE:	11/5/21	GAUGING DATE:	12/1/21
HEIGHT OF STICK-UP:	2.9	DEPTH TO WATER[2]:	18.72
ELEVATION[1]:			
DATUM:		DEPTH TO PRODUCT[2]:	
CASING MATERIAL:	PVC	SCREEN MATERIAL:	PVC - Slotted
FILTER PACK TYPE:	Sand	SEAL TYPE:	

Depth from Ground Surface (feet)	Elevation[1]	
2.88		Top
0.67		Top of Casing (TOC)
0.00		Ground Surface
1.50		
2.50		Top of Bentonite Slurry/Bottom of Concrete Collar
5.00		Top of Sand Pack/ Bottom of Bentonite Slurry
17.00		Top of Well Screen
		Slot Size: standard
18.72		Depth to Water
27.00		End of Well Screen
32.20		End of Boring



Not to Scale

Notes:
[1]Feet above datum
[2]Feet below top of casing

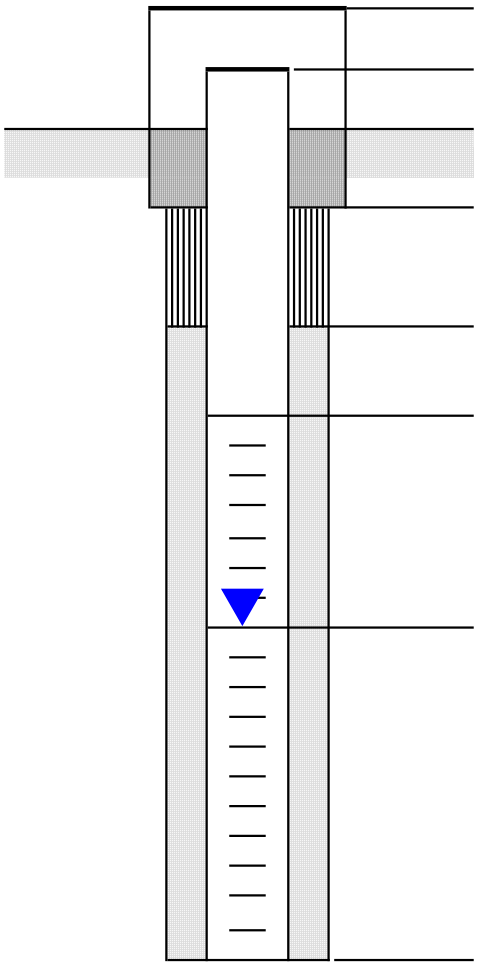
NOT TO SCALE

STICK-UP WELL CONSTRUCTION LOG

WELL: B412-OW-E
SHEET 2 **OF** 2

PROJECT NAME:	Rando Machine Corp	WELL NUMBER:	B412-OW-E
ADDRESS:	1071 NY-31, Macedon, NY	DRILLING METHOD:	Hollow stem auger/bore
INSTALLATION DATE:	11/2/21	DRILLER:	LaBella
DEVELOPMENT DATE:	11/5/21	GAUGING DATE:	12/1/21
HEIGHT OF STICK-UP:	3.4	DEPTH TO WATER[2]:	24.75
ELEVATION[1]:			
DATUM:		DEPTH TO PRODUCT[2]:	
CASING MATERIAL:	PVC	SCREEN MATERIAL:	PVC - Slotted
FILTER PACK TYPE:	Sand	SEAL TYPE:	

Depth from Ground Surface (feet)	Elevation[1]	
3.42		Top
3.21		Top of Casing (TOC)
0.00		Ground Surface
1.50		
2.50		Top of Bentonite Slurry/Bottom of Concrete Collar
5.00		Top of Sand Pack/ Bottom of Bentonite Slurry
15.00		Top of Well Screen
		Slot Size: standard
24.75		Depth to Water
25.00		End of Well Screen
28.45		End of Boring



Not to Scale

Notes:
[1]Feet above datum
[2]Feet below top of casing

NOT TO SCALE

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
RANDO MACHINE CORP		B103-OW-A	12/1/2021
PROJECT NUMBER		**START TIME**	**END TIME**
413002.0000.0000		940	1030
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
RC-OW-A	1020	859014	1 OF

WELL DIAMETER (INCHES) ☐ 1 ■ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ■ OTHER 0.17

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

INITIAL DTW (BMP)	16.12 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	23.5 IN	**TOC/TOR DIFFERENCE**	-0.5 IN
WELL DEPTH (BMP)	58.7 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
940	**BEGIN PURGING**									
950	16.27	250	12.8	0.574	8.27	11.32		87		
1000	16.22	-	12.8	0.76	7.69	10.42		115		
1005	-	-	12.7	0.78	7.63	11.14		120.5		
1010	-	-	12.9	0.78	7.61	10.41		128		
1015	-	-	12.8	0.78	7.6	11.15		127.6		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☐ SUBMERSIBLE
- ☐ BLADDER _____
- ☐ WATTERA
- ☐ OTHER _____
- ☐ OTHER _____

DECON FLUIDS USED
- ☐ LIQUINOX
- ☐ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ TEFLON TUBING
- ☐ TEFLON LINED TUBING
- ☐ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER _____
- ☐ OTHER _____

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ TEFLON BLADDER
- ☐ OTHER _____
- ☐ OTHER _____
- ☐ OTHER _____

EQUIPMENT USED
- ☐ WL METER _____
- ☐ PID _____
- ☐ WQ METER _____
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☐ NO ☐

NO-PURGE METHOD UTILIZED YES ☐ NO ☐

NUMBER OF GALLONS GENERATED _____

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Joshua J Yaeger Print Name: Joshua J Yaeger

Checked By: Date:

TRC

LOW FLOW GROUNDWATER SAMPLING RECORD

10 Maxwell Drive, Suite 200, Clifton Park, NY 12065

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
RANDO MACHINE CORP		B206-OW-B	11/30/2021
PROJECT NUMBER		**START TIME**	**END TIME**
413002.0000.0000		1435	1530
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
RC-OW-B	1515	859014	1 OF

WELL DIAMETER (INCHES) ☐ 1 ■ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ■ OTHER 0.17

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ■ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

INITIAL DTW (BMP)	18.65 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	26 IN	**TOC/TOR DIFFERENCE**	1 IN
WELL DEPTH (BMP)	35 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1435	**BEGIN PURGING**									
1445	18.78	250	15	0.482	7.73	7.07		115		
1455	-	-	14.6	0.512	7.65	7		122.4		
1500	-	-	14.7	0.513	7.66	6.94		126.5		
1505		-	14.5	0.511	7.65	6.99		129.5		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
☐ PERISTALTIC	☐ LIQUINOX	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☐ WL METER
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☐ TEFLON TUBING	☐ PVC PUMP MATERIAL	☐ PID
☐ BLADDER	☐ POTABLE WATER	☐ TEFLON LINED TUBING	☐ GEOPROBE SCREEN	☐ WQ METER
	☐ NITRIC ACID	☐ HDPE TUBING	☐ TEFLON BLADDER	☐ TURB. METER
☐ WATTERA	☐ HEXANE	☐ LDPE TUBING	☐ OTHER	☐ PUMP
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER
☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☐ NO ☐

NO-PURGE METHOD UTILIZED YES ☐ NO ☐

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
RANDO MACHINE CORP		B206-OW-C	11/30/2021
PROJECT NUMBER		**START TIME**	**END TIME**
413002.0000.0000		1545	1700
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
RC-OW-C	1650	859014	1 OF

WELL DIAMETER (INCHES) ☐ 1 ■ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ■ OTHER 0.17

MEASUREMENT POINT (MP) ■ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

INITIAL DTW (BMP)	19.5 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	32.5 IN	**TOC/TOR DIFFERENCE**	-5.5 IN
WELL DEPTH (BMP)	26.6 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1545	**BEGIN PURGING**									
1555	20.28	250	15.4	0.546	7.37	0.78		-118		
1605	20.8	-	15.3	0.64	7.34	0.44		-122.6		
1610	20.91	-	13.5	0.74	7.38	2.09		-122.3		
1615	21.16	-	13.4	0.72	7.37	1.21		-126		
1620	21.35	-	12.8	0.69	7.36	1.24		-125.4		
1625	21.58	-	13.6	0.7	7.34	0.93		-124		
1630	21.88	-	13.1	0.73	7.33	0.59		-122.6		
1635	22.1	-	12.8	0.73	7.33	0.56		-122		
1640	22.22	-	13.3	0.74	7.34	0.74		-122.8		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
☐ PERISTALTIC	☐ LIQUINOX	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☐ WL METER
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☐ TEFLON TUBING	☐ PVC PUMP MATERIAL	☐ PID
☐ BLADDER	☐ POTABLE WATER	☐ TEFLON LINED TUBING	☐ GEOPROBE SCREEN	☐ WQ METER
	☐ NITRIC ACID	☐ HDPE TUBING	☐ TEFLON BLADDER	☐ TURB. METER
☐ WATTERA	☐ HEXANE	☐ LDPE TUBING	☐ OTHER	☐ PUMP
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER
☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☐ NO ☐

NO-PURGE METHOD UTILIZED YES ☐ NO ☐

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
RANDO MACHINE CORP		B412-OW-D	12/1/2021
PROJECT NUMBER		**START TIME**	**END TIME**
413002.0000.0000		1230	1415
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
RC-OW-D	1400	859014	1 OF

WELL DIAMETER (INCHES) ☐ 1 ■ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ■ OTHER 0.17

MEASUREMENT POINT (MP) ■ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

INITIAL DTW (BMP)	18.72 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	34.5 IN	**TOC/TOR DIFFERENCE**	-26.5 IN
WELL DEPTH (BMP)	32.2 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1315	**BEGIN PURGING**									
1325	22.1	250	13.2	0.86	8.08	4.78		-156.4		
1335	23.2	-	13.2	0.85	8.07	1.97		-201.1		
1340	23.4	-	13.3	0.84	8.05	3.32		-207.5		
1345	23.71	-	13.2	0.84	8.05	3.48		-194.1		
1350	23.8	-	13.2	0.85	8.06	3.43		-202.6		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
☐ PERISTALTIC	☐ LIQUINOX	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☐ WL METER
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☐ TEFLON TUBING	☐ PVC PUMP MATERIAL	☐ PID
☐ BLADDER	☐ POTABLE WATER	☐ TEFLON LINED TUBING	☐ GEOPROBE SCREEN	☐ WQ METER
	☐ NITRIC ACID	☐ HDPE TUBING	☐ TEFLON BLADDER	☐ TURB. METER
☐ WATTERA	☐ HEXANE	☐ LDPE TUBING	☐ OTHER	☐ PUMP
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER
☐ OTHER	☐ OTHER	☐ OTHER	☐ OTHER	☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
☐								
☐								
☐								
☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☐ NO ☐

NO-PURGE METHOD UTILIZED YES ☐ NO ☐

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
RANDO MACHINE CORP		B412-OW-E	12/1/2021
PROJECT NUMBER		**START TIME**	**END TIME**
413002.0000.0000		1045	1145
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
RC-OW-E	1130	859014	1 OF

WELL DIAMETER (INCHES) ☐ 1 ■ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ■ OTHER 0.17

MEASUREMENT POINT (MP) ■ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

INITIAL DTW (BMP)	24.75 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	41 IN	**TOC/TOR DIFFERENCE**	-2.5 IN
WELL DEPTH (BMP)	28.45 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1045	**BEGIN PURGING**									
1055	26.75	250	12.9	0.534	7.52	9.76		48.2		
1105	28.35	-	12.9	0.526	7.42	11.81		49.7		
1110	28.45	-	12.2	0.525	7.41	9.84		69.1		
1115	-	-	11.9	0.525	7.37	9.47		82.9		
1120	-	-	12.1	0.526	7.45	9.08		82.8		
1125	-	-	12	0.525	7.42	8.82		80.9		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☐ SUBMERSIBLE
- ☐ BLADDER _____
- ☐ WATTERA
- ☐ OTHER _____
- ☐ OTHER _____

DECON FLUIDS USED
- ☐ LIQUINOX
- ☐ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ TEFLON TUBING
- ☐ TEFLON LINED TUBING
- ☐ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER _____
- ☐ OTHER _____

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ TEFLON BLADDER
- ☐ OTHER _____
- ☐ OTHER _____
- ☐ OTHER _____

EQUIPMENT USED
- ☐ WL METER _____
- ☐ PID _____
- ☐ WQ METER _____
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☐								
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☐								
☐								
☐								

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☐ NO ☐

NO-PURGE METHOD UTILIZED YES ☐ NO ☐

NUMBER OF GALLONS GENERATED _____

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

Sampler Signature: Print Name:

Checked By: Date:

SKETCH/NOTES

DUPE COLLECTED HERE: RC-OW-DUPE