



engineering and constructing a better tomorrow

September 2, 2020

Mr. Matthew Dunham

Project Manager

Division of Environmental Remediation

Remedial Bureau E, 12th Floor

New York State Department of Environmental Conservation

625 Broadway

Albany, New York 12233-7016

Subject: **Dinaburg Distributing, Inc. (NYSDEC Site 828103)**
 July 2020 Groundwater Sampling Report
 MACTEC Engineering and Geology, P. C., Project No. 3617187420

Dear Mr. Dunham:

MACTEC Engineering and Geology, P.C. (MACTEC), under contract to the New York State Department of Environmental Conservation (NYSDEC) is submitting this Letter Report (Report) for groundwater sampling at the Dinaburg Distribution, Inc. site (Site). The Site is listed as Class 2 hazardous waste Site No. 828103 in the Registry of Hazardous Waste Sites in New York State (Figure 1). This Report has been prepared in accordance with the NYSDEC requirements in Work Assignment No. D007619-44.

OBJECTIVES

This Report presents results of groundwater monitoring of site contaminants. The purpose of the sampling is to assess if there are any temporal trends in groundwater conditions at and in the vicinity of the Site and to monitor effects of the electrical resistance heating (ERH) remedial action conducted in the contaminant source area from May through December 2015. ERH was chosen as the approved remedial approach for the Site as outlined in the Record of Decision (ROD) (NYSDEC, 2011). Implementation of the site remedy is described in the Construction Completion Report (MACTEC, 2017a).

BACKGROUND

The Site is located at 1012 South Clinton Avenue in the City of Rochester in Monroe County, New York (see Figure 1). The property, vacant since 1995, consists of two parcels totaling 0.25 acres and is located in a mixed commercial/residential area just inside the Rochester City limits.

The property and buildings were reportedly used as an automobile repair shop from around 1950 through approximately 1969. From 1971 to 1993, the Site was occupied by Dinaburg Distributing, Inc., which operated a dry-cleaning supply company and sold chemical solvents to various dry cleaners in the area. Dinaburg stored trichloroethylene (TCE) and tetrachloroethene (PCE) in above ground storage tanks located within the north area of the former site building. Because of previous site operations, solvents and fuels were either spilled to the ground surface or to floor drains, where they flowed/leaked into the soils at the Site. The former site building and an adjacent house at 350 Benton Street were demolished in 2004 (MACTEC, 2011).

Previous investigations at the Site identified high concentrations of PCE, TCE, and their breakdown products in Site soils and groundwater. Previous remediations at the Site included a multi-phase extraction system (MPE) installed in shallow overburden that ran from 2006 to 2011 and an ERH system installed to the top of bedrock that ran from May to December 2015. The ERH system was installed as per the 2011 ROD (NYSDEC, 2011).

Several rounds of groundwater samples have been collected post the ERH remedial action, including the installation and sampling of additional wells as part of the Operable Unit 2 (groundwater) RI conducted in 2018 and 2019.

The groundwater sampling conducted in July 2020 described in this Report includes the collection and analysis of groundwater from the same wells 33 wells sampled in November 2018 and February 2019 during the OU2 RI.

FIELD ACTIVITIES

The performance of this field work was governed by MACTEC's Field Activities Plan (MACTEC, 2018). The NYSDEC call-out contractor TestAmerica Laboratories, Inc., provided the laboratory analytical services.

The field work included completion of the following activities:

- collection of groundwater samples from the 33 Site monitoring wells for analysis of Target Compound List VOCs.

The field activities were performed by MACTEC during the week of July 17, 2020.

Synoptic water levels were not recorded during this monitoring event, but initial depth to water was measured at each well (Figure 2) during sampling. resulting groundwater elevation measurements are presented in Table 1. As per previous reports, groundwater elevations generally indicate that groundwater flow from the site in both overburden and bedrock/overburden interface is to the west and northwest, with some apparent groundwater mounding in the overburden at the Site.

Groundwater Sampling. Sampling of the 33 available Site wells was conducted using low-flow sampling techniques. Samples were submitted for analysis of VOCs by United States Environmental Protection Agency (USEPA) Method 8260C.

Field measurements for pH, temperature, specific conductivity, oxidation reduction potential, and dissolved oxygen were collected through a flow through cell from each monitoring well during pre-sample purging. Turbidity was measured separately with a turbidity meter. Field measurements and monitoring well sampling activities were documented on Low Flow Groundwater Data Records included in Attachment 1.

Groundwater purged during monitoring well sampling was containerized and treated on-site using a portable granular activated carbon unit and allowed to infiltrate into the ground in an impervious area of the Site.

Used disposable equipment and personal protective clothing was double bagged in polyethylene trash bags and sealed with twist ties. The disposable equipment was disposed of as nonhazardous municipal solid waste.

ANALYTICAL RESULTS

Laboratory analytical results were validated and found to be usable as reported by the laboratory or qualified as documented in the Data Usability Summary Report (DUSR). VOC analytical data for the groundwater samples collected in July 2020 are summarized in Table 2. Analytical results and the DUSR are included in Attachment 2.

VOCs

Figure 3 presents isoconcentration lines for total chlorinated VOCs (CVOCs) for the overburden wells sampled in July 2020. The CVOCs that comprise the totals include cis-1,2-dichloroethene (cis-1,2-DCE), PCE, TCE, and vinyl chloride (VC). As presented, the data is reported to two significant figures. The wells with the highest concentrations of CVOCs are MW-20S and MW-19S, both of which are in the same area of the Site that has historically shown the highest contaminant concentrations.

Figure 4 presents isoconcentration lines for total CVOCs for the overburden/bedrock interface wells sampled in July 2020. The highest areas for total CVOCs are centered around MW-14KA and MW-13K, and although neither of these wells are in the vicinity of the historic discharge areas, they have historically contained some of the highest overburden/bedrock interface groundwater concentrations. As discussed in previous reports, it is possible that the contaminants originally migrated as dense nonaqueous-phase liquid (DNAPL), following permeable lenses within the till; DNAPL can flow counter to groundwater flow. The vertical hydraulic gradients are in the downward direction, and it is also likely that contaminants have migrated in the dissolved phase from the apparent historic overburden source areas to the groundwater in the overburden/bedrock interface.

ANALYTICAL TRENDS

The VOC groundwater data was reviewed to evaluate contaminant trends from before and after the ERH remedial action. Specifically, concentrations of the CVOCs PCE, TCE, cis-1,2-DCE, and VC detected in groundwater were compared in seven select wells for the following time periods (historic data presented in the referenced documents):

- just prior to commencement of ERH treatment (in April 2015) (MACTEC, 2017a)
- four months after the completion of ERH treatment (in April 2016) (MACTEC, 2017a)
- one year and five months following the completion of the ERH treatment (in May 2017) (MACTEC, 2017b)
- two years and eleven months following the completion of the ERH treatment (in November 2018) (MACTEC, 2020)
- four years and seven months following the completion of the ERH treatment (in July 2020) (this document)

In addition, concentrations in one well, MW-13K, were compared for the following time periods: May 2009 (MACTEC, 2011), July 2012 (MACTEC, 2012), May 2017 (MACTEC, 2017b), November 2018 (MACTEC, 2020), and July 2020.

Trend plots from the select wells are presented in Attachment 3. Although concentrations continue to exceed groundwater standards, total CVOC groundwater concentrations in the overburden source area at MW-21S have decreased from 34,000 micrograms per liter (µg/L) in April 2015 to 10 µg/L in July 2020. CVOC concentrations in most of the overburden monitoring wells near the perimeter of the Site exhibit downward trends, although not as significantly as concentrations in source area wells; however, concentrations of total CVOCs in well MW-20S increased from 4,058 µg/L in April 2015 to a maximum of 22,280 µg/L in May 2016. Concentrations decreased in subsequent sampling events and have approached their initial values in the most recent round of sampling, 4,284 µg/L in July 2020.

The concentration of total CVOCs in the overburden/bedrock interface well MW-03A, located in

the former source area, decreased from 16,900 µg/L prior to the commencement of the ERH treatment to 85 µg/L in May 2017; concentration has since increased to 713 µg/L in July 2020. Total CVOCs in the bedrock well MW-03CA, located in the former source area, increased from 7,651.5 µg/L in May 2015 to 9,060 µg/L in May 2017, but have since decreased to 309.2 in July 2020.

Concentrations of total CVOCs in MW-13K, located approximately 120 feet downgradient of the former source area, have fluctuated over time, but have generally decreased since prior to the ERH treatment, from 24,590 µg/L in July 2012 to 9,310 µg/L in July 2020.

In general, groundwater concentrations have decreased at most monitored locations in the source area as reported before and after ERH treatment; however, New York Class GA groundwater standards are currently exceeded at many locations in the site area.

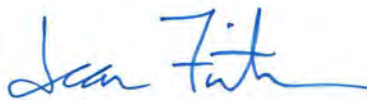
If you have any questions or concerns, please feel free to call us at 207-775-5401.

Sincerely,

MACTEC Engineering and Geology, P.C.



Charles Staples, PG
Project Manager



Jean Firth, PG.
Technical Reviewer



Attachments:

- Attachment 1: Field Data Records
- Attachment 2: Data Usability Summary Report
- Attachment 3: Groundwater Containment Trend Plots

REFERENCES

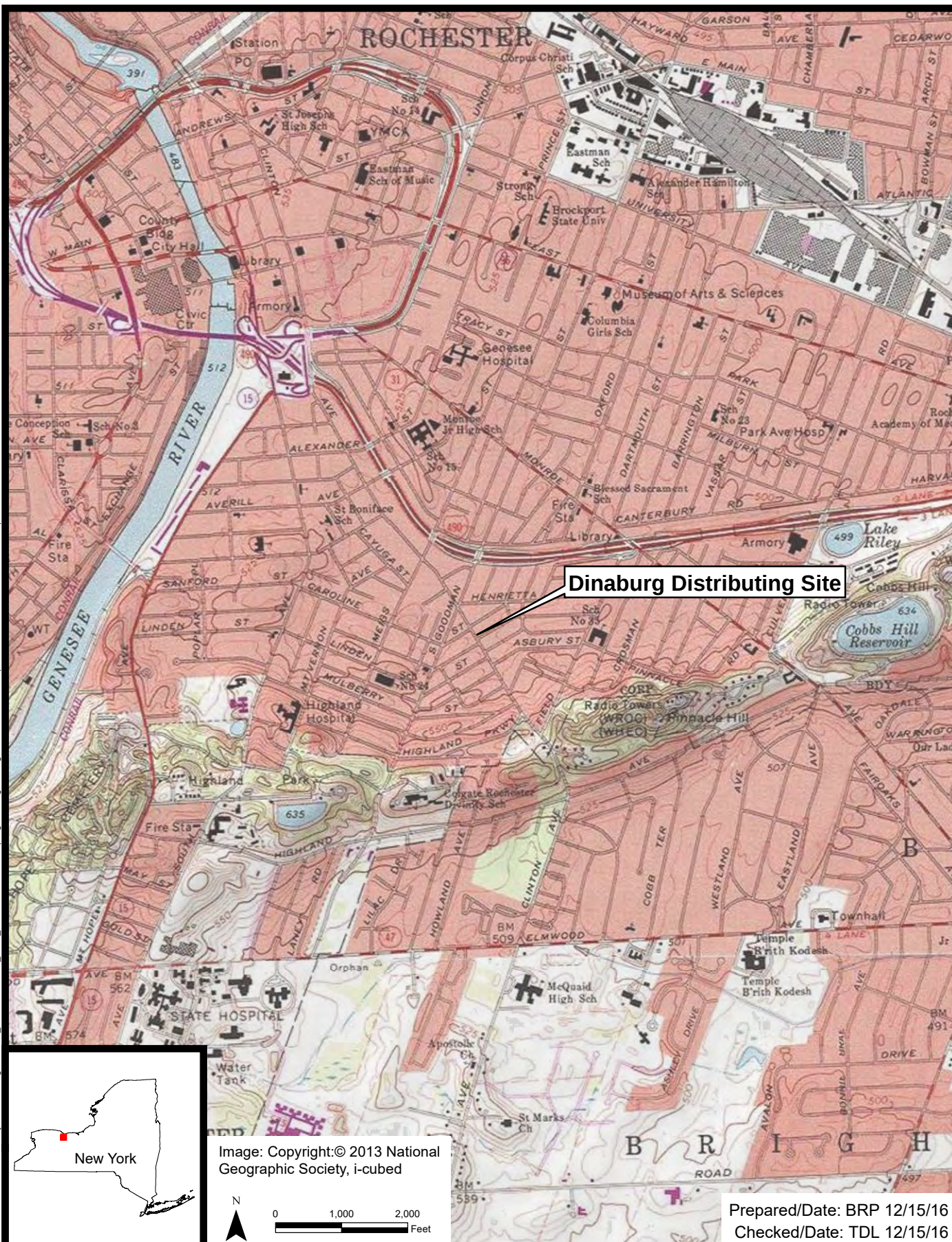
- MACTEC, 2020. Remedial Investigation/Feasibility Report, Dinaburg Distributing, Inc., Operable Unit 2. Prepared for New York State Department of Environmental Conservation, Albany, New York. February 2020.
- MACTEC, 2018. Remedial Investigation Field Activities Plan, Dinaburg Distributing, Inc., Operable Unit 2. Prepared for New York State Department of Environmental Conservation, Albany, New York
- MACTEC, 2017a. Final Construction Completion Report, Former Dinaburg Distributing, Inc., Remedial Action. Prepared for New York State Department of Environmental Conservation, Albany, New York. March 2017.
- MACTEC, 2017b. Dinaburg Distributing, Inc. (NYSDEC Site 828103), May 2017 Groundwater Sampling Report. November 30, 2017.
- MACTEC, 2012. Remedial Design Baseline Groundwater Sampling Letter Report, Dinaburg Distributing, Inc., Site No. 828103, prepared for the New York State Department of Environmental Conservation. September 7, 2012.
- MACTEC, 2011. Final Remedial Investigation/Feasibility Study Report, Dinaburg Distributing, Inc., prepared for the New York State Department of Environmental Conservation. February 2011.
- New York State Department of Environmental Conservation (NYSDEC), 2011, Record of Decision, Dinaburg Distributing, Inc., Operable Unit Number: 01, City of Rochester, Monroe County, New York, Site Number 828103. March 2011.

LIST OF ACRONYMS AND ABBREVIATIONS

CVOC	Chlorinated Volatile Organic Compound
DCE	dichloroethene
DNAPL	dense nonaqueous-phase liquid
DUSR	Data Usability Summary Report
ERH	electrical resistance heating
MACTEC	MACTEC Engineering & Geology, P.C.
µg/L	micrograms per liter
MPE	multi-phase extraction
NYSDEC	New York State Department of Environmental Conservation
PCE	tetrachloroethene
RI	Remedial Investigation
ROD	Record of Decision
Site	Dinaburg Distributing site
TCE	trichloroethylene
TCL	Target Compound List
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound

FIGURES

Document: P:\Projects\jysd\Contract D004434 and D004444\Projects\Dinaburg Distributing\4.0_Deliverables\GIS\MapDocument\Site_Location_8x11P.mxd
PDF: P:\Projects\jysd\Contract D007619\Projects\Dinaburg_CO4.0_Deliverables\4.2_Work_Plans\2017 GW Sampling FAP\Figures\Figure 1 - Site Location.pdf 12/15/2016 12:48 PM brian.peters



DINABURG DISTRIBUTING
ROCHESTER, NEW YORK



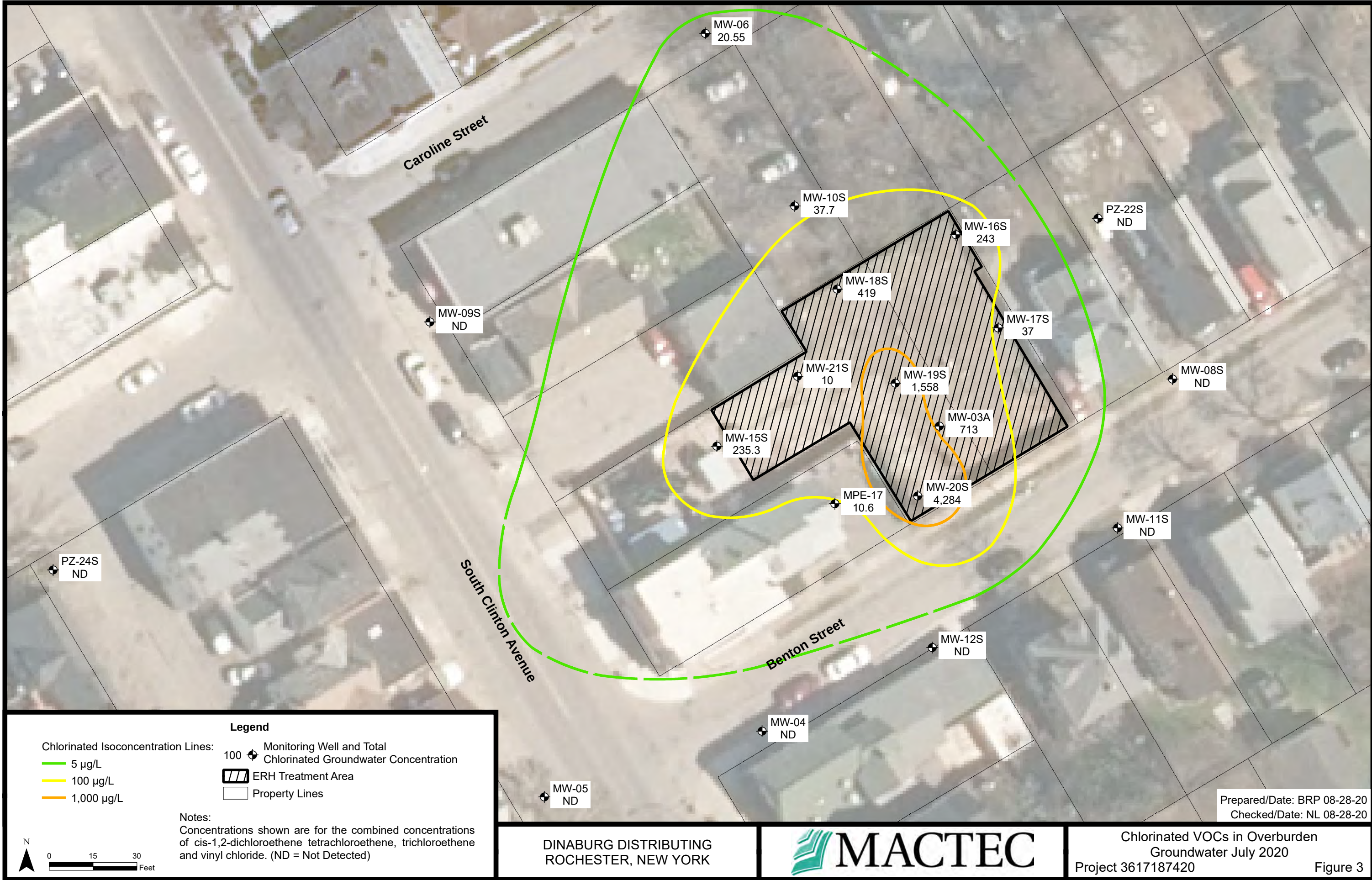
Prepared/Date: BRP 12/15/16
Checked/Date: TDL 12/15/16

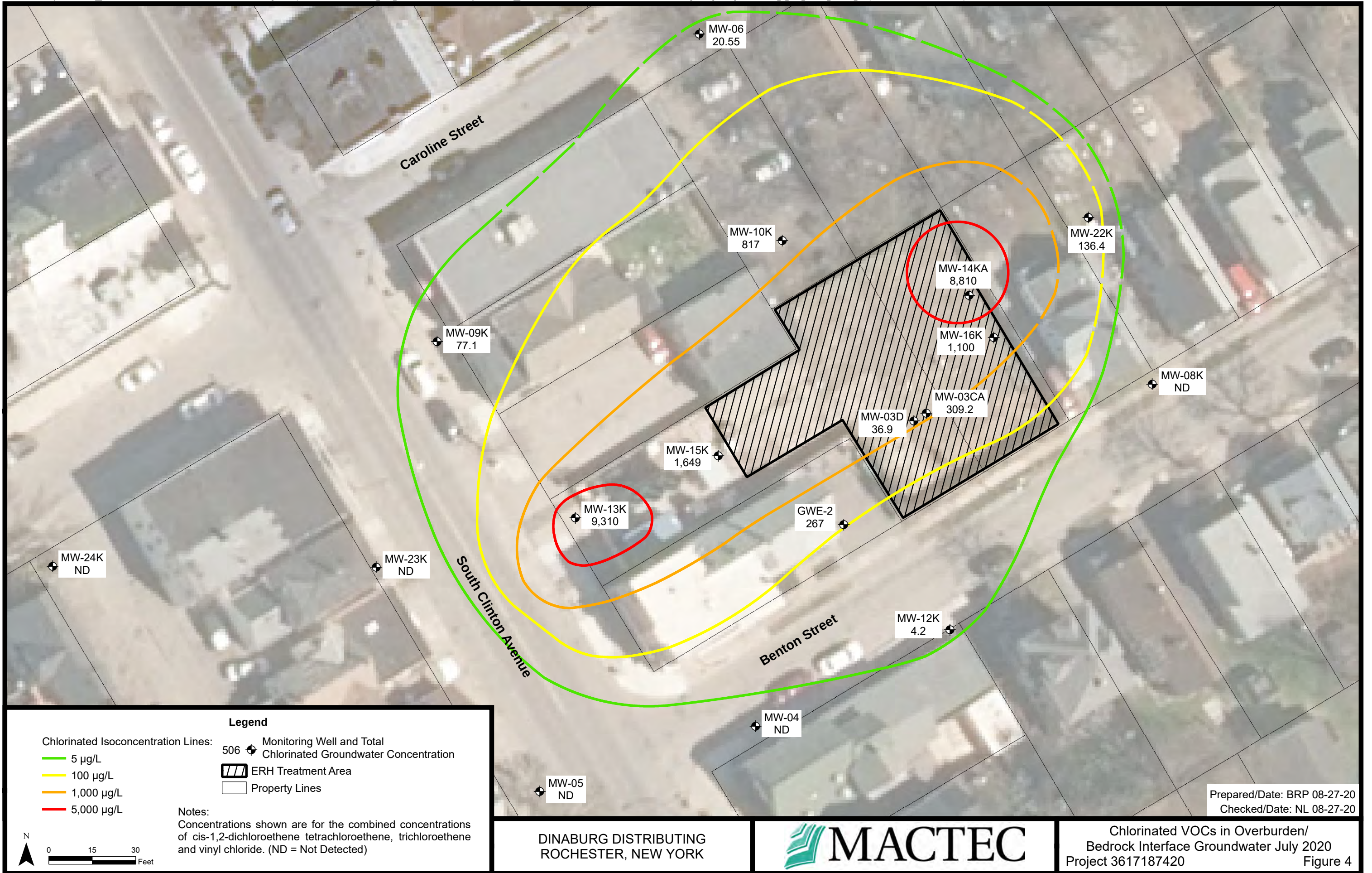
Site Location

Project 3617187420

Figure 1







TABLES

Table 1: Groundwater Elevation Data 5/22/2017, 11/27/2018, and 7/13/2020

Well ID	Total Depth			Depth Bedrock Encountere d (ft)	Screen Length	Screened Length in Bedrock (ft)	Screened Zone	Measuring Point (TOR, ft)	Depth to Water (ft, BTOR) (5/22/17)	Water Elevation (ft) 2017	Depth to Water (ft, BTOR) (11/27/18)	Water Elevation (ft) 2018	Depth to Water (ft, BTOR) (7/13/20)	Water Elevation (ft) 2020
	As Built (ft BGS?)	As (ft TOR) Measured (11/27/18)	TOR to TOC/Ground Surface (ft)											
MW-01	20.4	NA	NA	NA	5	20.7	interface	512.06	NA	NA	NA	NA	NA	NA
MW-01A	8	NA	NA	NA	5	--	overburden	512.05	NA	NA	NA	NA	NA	NA
MW-04	24.1	23.05	0.19	23.1	15	1	overburden/interface	512.01	8.80	503.21	8.86	503.15	9.23	502.78
MW-05	24.6	22.65	0.22	23.6	15	1	overburden/interface	512.49	8.86	503.63	9.12	503.37	9.55	502.94
MW-06	20.6	19.85	0.50	19.9	15	0.7	overburden/interface	510.54	7.22	503.32	6.52	504.02	7.63	502.91
MW-08K	19.2	18.80	0.35	17.8	10	1.4	interface	511.24	5.63	505.61	6.22	505.02	6.86	504.38
MW-08S	16.0	10.30	0.13	NA	10	--	overburden	511.27	6.41	504.86	5.85	505.42	7.11	504.16
MW-09K	22.7	23.50	0.19	23.3	10	--	interface	512.01	8.82	503.19	8.84	503.17	9.24	502.77
MW-09S	16	14.90	0.15	NA	10	--	overburden	511.87	7.60	504.27	7.28	504.59	7.94	503.93
MW-10K	21.8	21.60	0.37	22	10	--	interface	511.49	7.63	503.86	6.58	504.91	7.77	503.72
MW-10S	16	15.25	0.18	NA	10	--	overburden	511.25	5.81	505.44	5.32	505.93	5.81	505.44
MW-11K*	18.2	NM	NM	17.50	10	0.70	interface	511.12	NA	NA	NA	NA	NA	NA
MW-11S	14	13.65	0.18	NA	10	--	overburden	511.36	6.98	504.38	4.85	506.51	7.81	503.55
MW-12K	19.5	18.70	0.48	19.3	5	0.2	interface	511.67	8.17	503.5	8.17	503.50	8.63	503.04
MW-12S	14	13.65	0.48	NA	5	--	overburden	511.53	6.01	505.52	5.48	506.05	6.65	504.88
MW-13K	21.5	20.25	0.25	19.2	5	0.6	interface	512.13	8.78	503.35	8.77	503.36	9.17	502.96
MW-03A	24.5	24.40	0.29	21.8	5	2.7	interface	512.12	8.80	503.32	8.85	503.27	9.24	502.88
MW-03CA	30.5	30.05	0.53	22.9	5	5	bedrock	511.78	12.30	499.48	7.61	504.17	12.12	499.66
MW-03D	51.65	51.65	0.69	22	10	10	bedrock	511.84	NA	NA	17.26	494.58	18.20	493.64
MW-14KA	24.4	24.10	0.30	21	5	3.4	interface	511.78	9.08	502.7	8.60	503.18	8.89	502.89
MW-15K	25.3	25.00	0.27	23.5	5	1.8	interface	512.74	9.69	503.05	9.47	503.27	9.86	502.88
MW-15S	15	14.95	0.52	NA	10	--	overburden	512.52	6.23	506.29	4.64	507.88	6.11	506.41
MW-16K	25.5	25.00	0.42	23.2	5	2.3	interface	511.83	8.60	503.23	8.54	503.29	9.02	502.81
MW-16S	15	15.25	0.20	NA	10	--	overburden	512.48	7.04	505.44	7.14	505.34	7.77	504.71
MW-17S	15	14.95	0.58	NA	10	--	overburden	511.59	6.42	505.17	4.40	507.19	4.39	507.20
MW-18S	15	14.90	0.24	NA	10	--	overburden	512.74	7.71	505.03	7.41	505.33	7.80	504.94
MW-19S	15	14.95	0.15	NA	10	--	overburden	512.54	7.50	505.04	5.84	506.70	7.04	505.50
MW-20S	15	14.95	0.21	NA	10	--	overburden	512.67	7.42	505.25	6.20	506.47	6.22	506.45
MW-21S	15	14.95	0.39	NA	10	--	overburden	512.44	6.95	505.49	6.08	506.36	7.13	505.31
MW-22K	28.2	28.20	0.35	17.5	10	10	interface	511.48	NA	NA	8.36	503.12	9.12	502.36
PZ-22S	12.7	12.70	0.37	NA	10	--	overburden	511.47	NA	NA	4.54	506.93	6.88	504.59
MW-23K	30.25	30.25	0.77	21.5	10	9.3	interface	511.69	NA	NA	8.37	503.32	8.70	502.99
MW-24K	27.9	27.90	0.41	18	10	9.9	interface	512.06	NA	NA	8.71	503.35	9.08	502.98
PZ-24S	12.3	12.30	0.41	NA	10	--	overburden	512.06	NA	NA	7.53	504.53	7.63	504.43

Notes:
Elevation in feet above mean sea level
TOR = top of riser
BTOR = below top of riser
ft = feet
interface = overburden/bedrock interface well
NA = not available/not located
NM = not measured
* = well is not usable due to siltation/kink
-- = overburden well not screened in bedrock

Prepared by: NRL 8/30/20
Checked by: CRS 8/31/20

Table 2: VOC Results

Location			GWE-2		MPE-17		MW-03A		MW-03C		MW-03D		MW-04		MW-05	
Sample Date			7/16/2020		7/16/2020		7/16/2020		7/16/2020		7/16/2020		7/15/2020		7/14/2020	
Sample ID			828103-GWE2021		828103-MPE17012		828103-MW03A015		828103-MW03CA030		828103-MW03D50		828103-MW040020		828103-MW050020	
Qc Code			FS		FS		FS		FS		FS		FS		FS	
Parameter	GA	GV	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethane	5	NS	4.8		1	U	4	U	5	U	1	U	1	U	1	U
1,1-Dichloroethene	5	NS	2 J		1	U	4	U	5	U	1	U	1	U	1	U
Acetone	NS	50	40	U	10	U	40	U	50	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	5	NS	97		1	U	310		260		12		1	U	1	U
Methyl Tertbutyl Ether	NS	10	4	U	1	U	4	U	5	U	1	U	0.22	J	1	U
Tetrachloroethene	5	NS	110		10		24		8.2		6.5		1	U	1	U
trans-1,2-Dichloroethene	5	NS	4	U	1	U	4	U	5	U	1	U	1	U	1	U
Trichloroethene	5	NS	60		0.6	J	19		11		14		1	U	1	U
Vinyl chloride	2	NS	4	U	1	U	360		30		4.4		1	U	1	U

Notes:

Samples analyzed for VOCs, USEPA Method 8260C.

Results in micrograms per liter (µg/L)

(detections in bold)

GA = Class GA Groundwater standards

GV = Groundwater Guidance Value

Results exceed GA Standard or Guidance Value

Qualifier: J = estimated value; U = compound not detected at concentrations above reporting limit

QC Code: FS = Field Sample

FD = Field Duplicate

Table 2: VOC Results

Location			MW-06		MW-08K		MW-08S		MW-09K		MW-09S		MW-10K		MW-10S	
Sample Date			7/14/2020		7/15/2020		7/15/2020		7/15/2020		7/15/2020		7/15/2020		7/14/2020	
Sample ID			828103-MW06018		828103-MW08K		828103-MW08S011		828103-MW09K018		828103-MW09S012		828103-MW10K018		828103-MW10S012	
Qc Code			FS		FS		FS		FS		FS		FS		FS	
Parameter	GA	GV	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethane	5	NS	1	U	1	U	1	U	1	U	1	U	5.8	J	1	U
1,1-Dichloroethene	5	NS	1	U	1	U	1	U	1	U	1	U	10	U	1	U
Acetone	NS	50	10	U	10	U	10	U	10	U	10	U	100	U	10	U
cis-1,2-Dichloroethene	5	NS	12		1	U	1	U	44		1	U	260		2.7	
Methyl Tertbutyl Ether	NS	10	1	U	1	U	1	U	1	U	1	U	10	U	1	U
Tetrachloroethene	5	NS	2.5		1	U	1	U	14		1	U	67		16	
trans-1,2-Dichloroethene	5	NS	1	U	1	U	1	U	1	U	1	U	10	U	1	U
Trichloroethene	5	NS	5.1		1	U	1	U	15		1	U	490		19	
Vinyl chloride	2	NS	0.95	J	1	U	1	U	4.1		1	U	10	U	1	U

Notes:
Samples analyzed for VOCs, USEPA Method 8260
Results in micrograms per liter (µg/L)
(detections in bold)
GA = Class GA Groundwater standards
GV = Groundwater Guidance Value
Results exceed GA Standard or Guidance Value
Qualifier: J = estimated value; U = compound not detected at concentrations above reporting limit
QC Code: FS = Field Sample
FD = Field Duplicate

Table 2: VOC Results

Location			MW-11S		MW-12K		MW-12S		MW-12S		MW-13K		MW-14K		MW-14K	
Sample Date			7/14/2020		7/14/2020		7/15/2020		7/15/2020		7/14/2020		7/17/2020		7/17/2020	
Sample ID			828103-MW11S010		828103-MW12K018		828103-MW12S010		828103-MW12S010D		828103-MW13K018		828103-MW14KA022		828103-MW14KA022	
Qc Code			FS		FS		FS		FD		FS		FS		FD	
Parameter	GA	GV	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethane	5	NS	1 U		1 U		1 U		1 U		130 U		130 U		130 U	
1,1-Dichloroethene	5	NS	1 U		1 U		1 U		1 U		130 U		130 U		130 U	
Acetone	NS	50	10 U		10 U		10 U		10 U		1300 U		1300 U		1300 U	
cis-1,2-Dichloroethene	5	NS	1 U		1 U		1 U		1 U		3100		3300		3200	
Methyl Tertbutyl Ether	NS	10	1 U		1 U		1 U		1 U		130 U		130 U		130 U	
Tetrachloroethene	5	NS	1 U		1 U		1 U		1 U		4300		1700		1600	
trans-1,2-Dichloroethene	5	NS	1 U		1 U		1 U		1 U		130 U		130 U		130 U	
Trichloroethene	5	NS	1 U		4.2		1 U		1 U		1500		3700		3900	
Vinyl chloride	2	NS	1 U		1 U		1 U		1 U		410		110 J		110 J	

Notes:
Samples analyzed for VOCs, USEPA Method 8260
Results in micrograms per liter (µg/L)
(detections in bold)
GA = Class GA Groundwater standards
GV = Groundwater Guidance Value
Results exceed GA Standard or Guidance Value
Qualifier: J = estimated value; U = compound not detected at concentrations above reporting limit
QC Code: FS = Field Sample
FD = Field Duplicate

Table 2: VOC Results

Location			MW-15K		MW-15S		MW-16K		MW-16S		MW-17S		MW-18S		MW-19S	
Sample Date			7/15/2020		7/15/2020		7/16/2020		7/17/2020		7/17/2020		7/16/2020		7/17/2020	
Sample ID			828103-MW15K022		828103-MW15S010		828103-MW16K022		828103-MW16S010		828103-MW17S010		828103-MW18S010		828103-MW19S010	
Qc Code			FS		FS		FS		FS		FS		FS		FS	
Parameter	GA	GV	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethane	5	NS	12	J	2	U	20	U	8	U	1	U	5	U	4	U
1,1-Dichloroethene	5	NS	11	J	2	U	20	U	8	U	1	U	5	U	4	U
Acetone	NS	50	200	U	20	U	200	U	80	U	10	U	50	U	40	U
cis-1,2-Dichloroethene	5	NS	280		3.3		420		8	U	1	U	140		1300	
Methyl Tertbutyl Ether	NS	10	20	U	2	U	20	U	8	U	1	U	5	U	4	U
Tetrachloroethene	5	NS	930		150		300		23		25		220		110	
trans-1,2-Dichloroethene	5	NS	20	U	2	U	20	U	8	U	1	U	5	U	8.9	
Trichloroethene	5	NS	420		82		380		220		12		59		120	
Vinyl chloride	2	NS	19	J	2	U	20	U	8	U	1	U	5	U	28	

Notes:
Samples analyzed for VOCs, USEPA Method 8260
Results in micrograms per liter (µg/L)
(detections in bold)
GA = Class GA Groundwater standards
GV = Groundwater Guidance Value
Results exceed GA Standard or Guidance Value
Qualifier: J = estimated value; U = compound not detected at concentrations above reporting limit
QC Code: FS = Field Sample
FD = Field Duplicate

Table 2: VOC Results

Location			MW-20S		MW-21S		MW-22K		MW-23K		MW-24K		PZ-22S		PZ-24S	
Sample Date			7/17/2020		7/16/2020		7/15/2020		7/14/2020		7/14/2020		7/15/2020		7/14/2020	
Sample ID			828103-MW20S010		828103-MW21S010		828103-MW22K028		828103-MW23K025		828103-MW24K025		828103-PZ22S010		828103-PZ24S010	
Qc Code			FS		FS		FS		FS		FS		FS		FS	
Parameter	GA	GV	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethane	5	NS	80	U	8	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	5	NS	80	U	8	U	0.3	J	1	U	1	U	1	U	1	U
Acetone	NS	50	800	U	80	U	10	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	5	NS	80	U	10		97		1	U	1	U	1	U	1	U
Methyl Tertbutyl Ether	NS	10	80	U	8	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	NS	4200		8	U	13		1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	NS	80	U	8	U	1	U	1	U	1	U	1	U	1	U
Trichloroethene	5	NS	84		8	U	21		1	U	1	U	1	U	1	U
Vinyl chloride	2	NS	80	U	8	U	5.4		1	U	1	U	1	U	1	U

Notes:
Samples analyzed for VOCs, USEPA Method 8260
Results in micrograms per liter (µg/L)
(detections in bold)
GA = Class GA Groundwater standards
GV = Groundwater Guidance Value
Results exceed GA Standard or Guidance Value
Qualifier: J = estimated value; U = compound not detected at concentrations above reporting limit
QC Code: FS = Field Sample
FD = Field Duplicate

ATTACHMENT 1

FIELD DATA RECORDS

FIELD INSTRUMENTATION CALIBRATION RECORD

PROJECT NAME: Dinaburg Distributing OU2 RI

PROJECT NUMBER: 3617187420

PROJECT LOCATION: City of Rochester, NY

WEATHER CONDITIONS (AM): 70°F, SUNNY, CLEAR

WEATHER CONDITIONS (PM): 80°F, SUNNY, P.C.

TASK NO:

DATE: 2-14-2020

MACTEC CREW:

JR 440 MB

SAMPLER NAME:

MAPPY BRUNO

SAMPLER SIGNATURE:

M. B.

CHECKED BY: J. B.

DATE: 2/20/20

MULTI-PARAMETER WATER QUALITY METER

METER TYPE

YSI

MODEL NO.

556 MES

UNIT ID NO.

M015-05

Start Time 0715 / End Time 0740

Start Time 1715 / End Time 1730

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	9.00	+/- 0.1 pH Units
pH (7)	SU	7.0	7.00	+/- 0.1 pH Units
pH (10)	SU	10.0	-	+/- 0.1 pH Units
Redox	+/- mV	240	240.0	+/- 10 mV
Conductivity	mS/cm	1.413	1.413	+/- 0.5 % of standard
DO (saturated)	%	100	99.5	+/- 2% of standard
DO (saturated) mg/L ¹ (see Chart 1)		9.25	9.27	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	-	< 0.5 mg/L
Temperature	°C		19.61	
Baro. Press.	mmHg		762.0	

	Standard Value	Meter Value	*Acceptance Criteria (PM)
pH (4)	7.0	7.17	+/- 0.3 pH Units
Redox	240	230.5	+/- 10 mV
Conductivity	1.413	1.419	+/- 5% of standard
DO (saturated)	9.25	8.82	+/- 0.5 mg/L of standard
DO (<0.1)		22.01	
Baro. Press.		754.3	

TURBIDITY METER

METER TYPE

HACH

MODEL NO.

2100 Q

UNIT ID NO.

M024-27

	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1 Standard	NTU	<0.1	9.78	+/- 0.3 NTU of stan.
20 Standard	NTU	20	20.3	+/- 5% of standard
100 Standard	NTU	100	97.6	+/- 5% of standard
800 Standard	NTU	800	789	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE

Background

ppmv

<0.1

MODEL NO.

UNIT ID NO.

Span Gas

ppmv

100

<0.1	within 5 ppmv of BG
100	+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE

Methane

%

50

MODEL NO.

O₂

%

20.9

UNIT ID NO.

H₂S

ppmv

25

CO

ppmv

50

50	+/- 10% of standard
20.9	+/- 10% of standard
25	+/- 10% of standard
50	+/- 10% of standard

OTHER METER

METER TYPE

MODEL NO.

UNIT ID NO.

See Notes Below for Additional Information

☒ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.

☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source:

Portland FOS

Lot#/Date Produced:

Trip Blank Source:

LAB

Sample Preservatives Source:

LAB

Disposable Filter Type:

0.45µm cellulose

Calibration Fluids / Standard Source:

- DO Calibration Fluid (<0.1 mg/L)

Portland FOS

- Other

- Other

- Other

	Cal. Standard Lot Number	Exp. Date
pH (4)	96F1020	5-21
pH (7)	96F1325	5-21
pH (10)	-	-
ORP	06B510	11-20
Conductivity	06D741	4-21
<0.1 Turb. Stan.	A9270	1-21
20 Turb. Stan.	A9287	1-21
100 Turb. Stan.	A9277	1-21
800 Turb. Stan.	A9275	1-21
PID Span Gas	-	-
O ₂ -LEL Span Gas	-	-
Other	-	-

NOTES:

NONE

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.



511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENTATION CALIBRATION RECORD

PROJECT NAME: Dinaburg Distributing OU2 RI

PROJECT NUMBER: 3617187420

PROJECT LOCATION: City of Rochester, NY

WEATHER CONDITIONS (AM): Sunny, 65°F, calm

WEATHER CONDITIONS (PM): Sunny, 80°F, light breeze

TASK NO: 02

DATE: 7/14/20

MACTEC CREW: LFGW

SAMPLER NAME: Jerry Rawicki

SAMPLER SIGNATURE: [Signature]

CHECKED BY: [Signature]

DATE: 7/15/20

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: YSI

MODEL NO: 556 MP5

UNIT ID NO: M125-02

AM CALIBRATION

Start Time: 0655 / End Time: 0735

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	4.00	+/- 0.1 pH Units
pH (7)	SU	7.0	7.00	+/- 0.1 pH Units
pH (10)	SU	10.0		+/- 0.1 pH Units
Redox	+/- mV	240	737.6	+/- 10 mV
Conductivity	mS/cm	1.413	1.413	+/- 0.5 % of standard
DO (saturated)	%	100	98.5	+/- 2% of standard
DO (saturated) mg/L	mg/L	28.8	8.81	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1		< 0.5 mg/L
Temperature	°C		20.80	
Baro. Press.	mmHg		749.7	

POST CALIBRATION CHECK

Start Time: 1745 / End Time: 1800

	Standard Value	Meter Value	*Acceptance Criteria (PM)
pH	7.0	6.97	+/- 0.3 pH Units
Redox	240	230.2	+/- 10 mV
Conductivity	1.413	1.413	+/- 5% of standard
DO (saturated)	28.8	7.43	+/- 0.5 mg/L of standard
Temperature		27.56	
Baro. Press.		749.9	

TURBIDITY METER

METER TYPE: HACH

MODEL NO: 2100 Q

UNIT ID NO: M024-29

	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1 Standard	NTU	10	10.5	+/- 0.2 NTU of stan.
20 Standard	NTU	20	20.3	+/- 5% of standard
100 Standard	NTU	100	102	+/- 5% of standard
800 Standard	NTU	800	795	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE: Background

MODEL NO: Span Gas

UNIT ID NO: ppmv

	Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1	<0.1		within 5 ppmv of BG
100	100		+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE: Methane

MODEL NO: O₂

UNIT ID NO: H₂S

	Standard Value	Meter Value	*Acceptance Criteria (PM)
50	50		+/- 10% of standard
20.9	20.9		+/- 10% of standard
25	25		+/- 10% of standard
50	50		+/- 10% of standard

OTHER METER

METER TYPE: See Notes Below

MODEL NO: for Additional

UNIT ID NO: Information



Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.



Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS

Lot#/Date Produced: _____

Trip Blank Source: _____

Sample Preservatives Source: _____

Disposable Filter Type: 0.45µm cellulose

Calibration Fluids / Standard Source: _____

- DO Calibration Fluid (<0.1 mg/L) Portland FOS

- Other _____

- Other _____

- Other _____

Cal. Standard Lot Number

pH (4): 96E1020

pH (7): 96E1325

pH (10): _____

ORP: 06B510

Conductivity: 06D741

10 Turb. Stan. A 9155

20 Turb. Stan. A 9157A

100 Turb. Stan. A 9155

800 Turb. Stan. A 9155

PID Span Gas _____

O₂-LEL Span Gas _____

Other _____

Exp. Date

5/21

5/21

1/20

4/21

9/20

↓

NOTES:

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.



511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

WIP

FIELD INSTRUMENTATION CALIBRATION RECORD					
PROJECT NAME: Dinaburg Distributing OU2 RI			TASK NO: 02		
PROJECT NUMBER: 3617187420			DATE: 7/15/20		
PROJECT LOCATION: City of Rochester, NY			MACTEC CREW: LF GW (con, mB)		
WEATHER CONDITIONS (AM): Sunny, 65°F, calm			SAMPLER NAME: Terry Rawls		
WEATHER CONDITIONS (PM): Sunny to Partly Cloudy, 85°F, light breeze			SAMPLER SIGNATURE: Terry Rawls		
			CHECKED BY: MMR DATE: 7/15/20		
MULTI-PARAMETER WATER QUALITY METER					
METER TYPE: YSI					
MODEL NO.: 350MP5					
UNIT ID NO.: M015-02					
AM CALIBRATION					
Start Time: 0655 / End Time: 0735					
	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)	
pH (4)	SU	4.0	4.00	+/- 0.1 pH Units	
pH (7)	SU	7.0	7.00	+/- 0.1 pH Units	
pH (10)	SU	10.0	—	+/- 0.1 pH Units	
Redox	+/- mV	240	236.2	+/- 10 mV	
Conductivity	mS/cm	1.413	1.412	+/- 0.5 % of standard	
DO (saturated)	%	100	99.1	+/- 2% of standard	
DO (saturated)	mg/L ¹ (see Chart 1)	8.65	8.65	+/- 0.2 mg/L	
DO (<0.1)	mg/L	<0.1	—	< 0.5 mg/L	
Temperature	°C	—	22.0	—	
Baro. Press.	mmHg	—	752.8	—	
POST CALIBRATION CHECK					
Start Time: 1715 / End Time: 1755					
	Standard Value	Meter Value	*Acceptance Criteria (PM)		
	7.0	6.94	+/- 0.3 pH Units		
	240	227.5	+/- 10 mV		
	1.413	1.415	+/- 5% of standard		
	—	92.5%	+/- 0.5 mg/L of standard		
	8.65	6.87	+/- 0.5 mg/L of standard		
	—	31.07	—		
	—	756.0	—		
TURBIDITY METER					
METER TYPE: HACH					
MODEL NO.: 2100 Q					
UNIT ID NO.: M024-29					
	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)	
10 Standard	NTU	10	10.0	+/- 0.3 NTU of stan.	
20 Standard	NTU	20	19.9	+/- 5% of standard	
100 Standard	NTU	100	100	+/- 5% of standard	
800 Standard	NTU	800	793	+/- 5% of standard	
PHOTOIONIZATION DETECTOR					
METER TYPE: Background					
MODEL NO.: —					
UNIT ID NO.: —					
	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)	
Background	ppmv	<0.1	—	within 5 ppmv of BG	
Span Gas	ppmv	100	—	+/- 10% of standard	
O₂-LEL 4 GAS METER					
METER TYPE: Methane					
MODEL NO.: —					
UNIT ID NO.: —					
	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)	
Methane	%	50	—	+/- 10% of standard	
O ₂	%	20.9	—	+/- 10% of standard	
H ₂ S	ppmv	25	—	+/- 10% of standard	
CO	ppmv	50	—	+/- 10% of standard	
OTHER METER					
METER TYPE: —					
MODEL NO.: —					
UNIT ID NO.: —					
See Notes Below for Additional Information					
☒ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above. ☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.					
MATERIALS RECORD					
Deionized Water Source: Portland FOS			Cal. Standard Lot Number		
Lot#/Date Produced: —			Exp. Date		
Trip Blank Source: —			pH (4): 9661020		
Sample Preservatives Source: —			pH (7): 9661325		
Disposable Filter Type: 0.45µm cellulose			pH (10): —		
Calibration Fluids / Standard Source: —			ORP: 068510		
- DO Calibration Fluid (<0.1 mg/L) Portland FOS			Conductivity: 060741		
- Other: —			70 ± Turb. Stan: A9155		
- Other: —			20 Turb. Stan: A9151A		
- Other: —			100 Turb. Stan: A9155		
- Other: —			800 Turb. Stan: A9155		
			PID Span Gas: —		
			O ₂ -LEL Span Gas: —		
			Other: —		
NOTES: (X) ORP slightly low at end of day. It is slowly trending up towards criteria but I do not want to wait 30 minutes for it to come in.					
* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations. ** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries. 1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.					

MACTEC
511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENTATION CALIBRATION RECORD

PROJECT NAME: Dinaburg Distributing OU2 RI

PROJECT NUMBER: 3617187420

PROJECT LOCATION: City of Rochester, NY

WEATHER CONDITIONS (AM):

WEATHER CONDITIONS (PM):

70°F Sunny Clear
85°F, Sunny

TASK NO:

DATE: 7-15-2020

MACTEC CREW:

JP + MB

SAMPLER NAME:

M. Bruno

SAMPLER SIGNATURE:

M. Bruno

CHECKED BY:

DATE: 7/20/20

MULTI-PARAMETER WATER QUALITY METER

METER TYPE

YSI

MODEL NO.

556 MD5

UNIT ID NO.

M015-05

AM CALIBRATION

Start Time 0700 / End Time 0735

Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	+/- 0.1 pH Units
pH (7)	SU	7.00	+/- 0.1 pH Units
pH (10)	SU	10.0	+/- 0.1 pH Units
Redox	+/- mV	240.0	+/- 10 mV
Conductivity	mS/cm	1.413	+/- 0.5 % of standard
DO (saturated)	%	100.5	+/- 2% of standard
DO (saturated) mg/L ¹ (see Chan 1)		9.00	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	< 0.5 mg/L
Temperature	°C	19.92	
Baro. Press.	mmHg	755.9	

POST CALIBRATION CHECK

Start Time 0730 / End Time 1840

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0	7.20	+/- 0.3 pH Units
240	225.2	+/- 10 mV
1.413	1.403	+/- 5% of standard
7.90	8.03	+/- 0.5 mg/L of standard
	27.06	
	755.2	

TURBIDITY METER

METER TYPE

HA01

MODEL NO.

2100A

UNIT ID NO.

M024-27

Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1 Standard	NTU	<0.1	+/- 0.3 NTU of stan.
20 Standard	NTU	20.5	+/- 5% of standard
100 Standard	NTU	96.0	+/- 5% of standard
800 Standard	NTU	799	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE

Background

ppmv

<0.1

MODEL NO.

UNIT ID NO.

Span Gas

ppmv

100

<0.1		within 5 ppmv of BG
100		+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE

Methane

%

50

MODEL NO.

O₂

%

20.9

UNIT ID NO.

H₂S

ppmv

25

CO

ppmv

50

50		+/- 10% of standard
20.9		+/- 10% of standard
25		+/- 10% of standard
50		+/- 10% of standard

OTHER METER

METER TYPE

MODEL NO.

UNIT ID NO.

See Notes Below for Additional Information

☐ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.

☒ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**. SEE NOTE

MATERIALS RECORD

Deionized Water Source:

Portland FOS

Lot#/Date Produced:

Trip Blank Source:

LAP

Sample Preservatives Source:

LAB

Disposable Filter Type:

0.45µm cellulose

Calibration Fluids / Standard Source:

- DO Calibration Fluid (<0.1 mg/L)

Portland FOS

- Other

- Other

- Other

Cal. Standard Lot Number	Exp. Date
pH (4) 9GE1020	5-21
pH (7) 9GE1325	5-21
pH (10) 9GB510	11-00
ORP 9GB741	4-21
Conductivity 9A270	1-21
<0.1 Turb. Stan. 9A287	
20 Turb. Stan. 9A271	
100 Turb. Stan. 9A275	
800 Turb. Stan.	
PID Span Gas	
O ₂ -LEL Span Gas	
Other	

NOTES:

ORP slightly low during PM bump check

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** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

¹ = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010

MACTEC
511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENTATION CALIBRATION RECORD

PROJECT NAME: Dinaburg Distributing OU2 RI

PROJECT NUMBER: 3617187420

PROJECT LOCATION: City of Rochester, NY

WEATHER CONDITIONS (AM): Partly cloudy, 75°F humid light breeze

WEATHER CONDITIONS (PM): Rain, 70°F, calm to breezy

TASK NO: 02

DATE: 7/16/20

MACTEC CREW: LFCW-JR, MB

SAMPLER NAME: Jerry Rawls

SAMPLER SIGNATURE: Jerry Rawls

CHECKED BY: MFL DATE: 7/22/20

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: YSI

MODEL NO.: 556 MPS

UNIT ID NO.: M015-02

AM CALIBRATION

Start Time: 0655 / End Time: 0730

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	4.00	+/- 0.1 pH Units
pH (7)	SU	7.0	7.00	+/- 0.1 pH Units
pH (10)	SU	10.0	—	+/- 0.1 pH Units
Redox	+/- mV	240	240.0	+/- 10 mV
Conductivity	mS/cm	1.413	1.413	+/- 0.5 % of standard
DO (saturated)	%	100	100.1	+/- 2% of standard
DO (saturated) mg/L ¹ (see Chm 1)		~8.1	8.23	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	—	< 0.5 mg/L
Temperature	°C		25.27	
Baro. Press.	mmHg		750.7	

POST CALIBRATION CHECK

Start Time: 1800 / End Time: 1815

	Standard Value	Meter Value	*Acceptance Criteria (PM)
pH	7.0	7.05	+/- 0.3 pH Units
Redox	240	243.2	+/- 10 mV
Conductivity	1.413	1.410	+/- 5% of standard
DO (saturated)	~8.35	8.12	+/- 0.5 mg/L of standard
Temperature		23.28	
Baro. Press.		749.3	

TURBIDITY METER

METER TYPE: HACH

MODEL NO.: 2100Q

UNIT ID NO.: M024-29

	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
10 Standard	NTU	10	10.3	+/- 0.3 NTU of stan.
20 Standard	NTU	20	20.1	+/- 5% of standard
100 Standard	NTU	100	100	+/- 5% of standard
800 Standard	NTU	800	791	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE: Background

MODEL NO.: —

UNIT ID NO.: —

	Units	Standard Value	*Acceptance Criteria (PM)
Background	ppmv	<0.1	within 5 ppmv of BG
Span Gas	ppmv	100	+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE: —

MODEL NO.: —

UNIT ID NO.: —

	Units	Standard Value	*Acceptance Criteria (PM)
Methane	%	50	+/- 10% of standard
O ₂	%	20.9	+/- 10% of standard
H ₂ S	ppmv	25	+/- 10% of standard
CO	ppmv	50	+/- 10% of standard

OTHER METER

METER TYPE: —

MODEL NO.: —

UNIT ID NO.: —

	Units	Standard Value	*Acceptance Criteria (PM)
			See Notes Below for Additional Information



Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.



Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS

Lot#/Date Produced: —

Trip Blank Source: —

Sample Preservatives Source: —

Disposable Filter Type: 0.45µm cellulose

Calibration Fluids / Standard Source: —

- DO Calibration Fluid (<0.1 mg/L) Portland FOS

- Other —

- Other —

- Other —

	Cal. Standard Lot Number	Exp. Date
pH (4)	9681020	5/21
pH (7)	9681325	5/21
pH (10)	—	—
ORP	068510	11/20
Conductivity	068741	4/21
<0.1 Turb. Stan.	A9155	9/20
20 Turb. Stan.	A9151A	↓
100 Turb. Stan.	A9155	↓
800 Turb. Stan.	A9155	↓
PID Span Gas	—	—
O ₂ -LEL Span Gas	—	—
Other	—	—

NOTES:

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.

FIELD INSTRUMENTATION CALIBRATION RECORD

PROJECT NAME: Dinaburg Distributing OU2 RI

PROJECT NUMBER: 3617187420

PROJECT LOCATION: City of Rochester, NY

WEATHER CONDITIONS (AM):

WEATHER CONDITIONS (PM):

75° light breeze, partly cloudy
70° rain

TASK NO:

DATE: 7-16-2020

MACTEC CREW:

JP + MB

SAMPLER NAME:

M. B. (N/O)

SAMPLER SIGNATURE:

M. B.

CHECKED BY:

DATE: 7/29/20

MULTI-PARAMETER WATER QUALITY METER

METER TYPE

YSI

MODEL NO.

556 MP5

UNIT ID NO.

NO15-05

Start Time

AM CALIBRATION

0705/End Time 0720

POST CALIBRATION CHECK

Start Time 1740 /End Time 1800

Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	+/- 0.1 pH Units
pH (7)	SU	7.00	+/- 0.1 pH Units
pH (10)	SU	10.0	+/- 0.1 pH Units
Redox	+/- mV	240	+/- 10 mV
Conductivity	mS/cm	1.413	+/- 0.5 % of standard
DO (saturated)	%	101.0	+/- 2% of standard
DO (saturated)	mg/L ¹ (see Chart 1)	8.65	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	< 0.5 mg/L
Temperature	°C	22.31	
Baro. Press.	mmHg	754.1	

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0	7.25	+/- 0.3 pH Units
240	232.8	+/- 10 mV
1.413	1.432	+/- 5% of standard
8.61	7.46	+/- 0.5 mg/L of standard
	22.10	
	752.8	

TURBIDITY METER

METER TYPE

HACH

MODEL NO.

2100A

UNIT ID NO.

NO24-27

Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1 Standard	NTU	<0.1	+/- 0.3 NTU of stan.
20 Standard	NTU	20	+/- 5% of standard
100 Standard	NTU	100	+/- 5% of standard
800 Standard	NTU	800	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE

Background

MODEL NO.

Span Gas

UNIT ID NO.

ppmv

Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1		within 5 ppmv of BG
100		+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE

Methane

MODEL NO.

O₂

UNIT ID NO.

H₂S

Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
%	50		+/- 10% of standard
%	20.9		+/- 10% of standard
ppmv	25		+/- 10% of standard
ppmv	50		+/- 10% of standard

OTHER METER

METER TYPE

MODEL NO.

UNIT ID NO.

See Notes Below for Additional Information

☒ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.

☒ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source:

Portland FOS

Lot#/Date Produced:

LAB

Trip Blank Source:

LAB

Sample Preservatives Source:

Disposable Filter Type:

0.45µm cellulose

Calibration Fluids / Standard Source:

- DO Calibration Fluid (<0.1 mg/L)

Portland FOS

- Other

- Other

- Other

Cal. Standard Lot Number	Exp. Date
pH (4) 9GE1020	5-21
pH (7) 9GE1325	5-21
pH (10) -	-
ORP 0CB510	11-20
Conductivity 0GB741	4-21
<0.1 Turb. Stan. A9270	1-21
20 Turb. Stan. A9287	1-21
100 Turb. Stan. A9277	1-21
800 Turb. Stan. A9275	1-21
PID Span Gas -	-
O ₂ -LEL Span Gas -	-
Other -	-

NOTES:

* DO TRENDED LOW AT AM BUMP CHECK

* Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.

MACTEC
511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENTATION CALIBRATION RECORD

PROJECT NAME: Dinaburg Distributing OU2 RI

PROJECT NUMBER: 3617187420

PROJECT LOCATION: City of Rochester, NY

WEATHER CONDITIONS (AM): Overcast, light showers, 70°F

WEATHER CONDITIONS (PM): Partly cloudy, 80°F, light breeze

TASK NO: 02

DATE: 7/17/20

MACTEC CREW: LFGW JR/mbs

SAMPLER NAME: Jerry Rausch

SAMPLER SIGNATURE: [Signature]

CHECKED BY: [Signature]

DATE: 7/17/20

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: YS I

MODEL NO: 556 WPS

UNIT ID NO: M015-02

AM CALIBRATION

Start Time: 0705 / End Time: 0740

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	4.00	+/- 0.1 pH Units
pH (7)	SU	7.0	7.00	+/- 0.1 pH Units
pH (10)	SU	10.0	—	+/- 0.1 pH Units
Redox	+/- mV	240	240.0	+/- 10 mV
Conductivity	mS/cm	1.413	1.413	+/- 0.5 % of standard
DO (saturated)	%	100	101.4	+/- 2% of standard
DO (saturated)	mg/L ¹ (see Chart 1)	8.5	8.70	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	—	< 0.5 mg/L
Temperature	°C	—	22.94	—
Baro. Press.	mmHg	—	750.0	—

POST CALIBRATION CHECK

Start Time: 1300 / End Time: 1320

	Standard Value	Meter Value	*Acceptance Criteria (PM)
pH	7.0	6.98	+/- 0.3 pH Units
Redox	240	233.9	+/- 10 mV
Conductivity	1.413	1.417	+/- 5% of standard
DO (saturated)	—	102.3	—
DO (<0.1)	—	7.90	+/- 0.5 mg/L of standard
Temperature	—	28.75	—
Baro. Press.	—	750.7	—

TURBIDITY METER

METER TYPE: HACH

MODEL NO: 2100 Q

UNIT ID NO: M024-29

	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
10 Standard	NTU	10	10.5	+/- 0.3 NTU of stan.
20 Standard	NTU	20	20.3	+/- 5% of standard
100 Standard	NTU	100	101	+/- 5% of standard
800 Standard	NTU	800	784	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE: —

MODEL NO: —

UNIT ID NO: —

Background	ppmv	<0.1	—	within 5 ppmv of BG
Span Gas	ppmv	100	—	+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE: —

MODEL NO: —

UNIT ID NO: —

Methane	%	50	—	+/- 10% of standard
O ₂	%	20.9	—	+/- 10% of standard
H ₂ S	ppmv	25	—	+/- 10% of standard
CO	ppmv	50	—	+/- 10% of standard

OTHER METER

METER TYPE: —

MODEL NO: —

UNIT ID NO: —

See Notes Below for Additional Information



Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.



Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS

Lot#/Date Produced: —

Trip Blank Source: —

Sample Preservatives Source: —

Disposable Filter Type: 0.45µm cellulose

Calibration Fluids / Standard Source:

- DO Calibration Fluid (<0.1 mg/L) Portland FOS

- Other

- Other

- Other

	Cal. Standard Lot Number	Exp. Date
pH (4)	96E1020	5/21
pH (7)	96E1325	5/21
pH (10)	—	—
ORP	06B510	4/20
Conductivity	06D741	4/21
10 Turb. Stan.	A9155	9/20
20 Turb. Stan.	A9151A	—
100 Turb. Stan.	A9151	—
800 Turb. Stan.	A9151	—
PID Span Gas	—	—
O ₂ -LEL Span Gas	—	—
Other	—	—

NOTES:

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511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENTATION CALIBRATION RECORD

PROJECT NAME: Dinaburg Distributing OU2 RI

PROJECT NUMBER: 3617187420

PROJECT LOCATION: City of Rochester, NY

WEATHER CONDITIONS (AM): OVERCAST, 75°F

WEATHER CONDITIONS (PM): SUNNY, 80°F

TASK NO: 02 DATE: 7-17-2020

MACTEC CREW:

SAMPLER NAME: M. BRUNO

SAMPLER SIGNATURE: Madeira Bruno

CHECKED BY: JR DATE: 7/20/20

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: YSI

MODEL NO.: 556 MP

UNIT ID NO.: M015-05

Start Time AM CALIBRATION 0705 / End Time 0725

Start Time POST CALIBRATION CHECK 1126 / End Time 1138

Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	+/- 0.1 pH Units
pH (7)	SU	7.00	+/- 0.1 pH Units
pH (10)	SU	10.0	+/- 0.1 pH Units
Redox	+/- mV	2400	+/- 10 mV
Conductivity	mS/cm	1.413	+/- 0.5 % of standard
DO (saturated)	%	100	+/- 2% of standard
DO (saturated) mg/L ¹ (see Chart 1)		8.83	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	< 0.5 mg/L
Temperature	°C	21.03	
Baro. Press.	mmHg	753.4	

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0	7.19	+/- 0.3 pH Units
240	292.0	+/- 10 mV
1.413	1.463	+/- 5% of standard
8.25	8.65	+/- 0.5 mg/L of standard
8.83	8.49	
22.96	22.96	
753.4	753.4	

TURBIDITY METER

METER TYPE: HACH

MODEL NO.: 2100Q

UNIT ID NO.: M024-27

Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1 Standard	NTU	10.0	+/- 0.3 NTU of stan.
20 Standard	NTU	20.0	+/- 5% of standard
100 Standard	NTU	96.7	+/- 5% of standard
800 Standard	NTU	797	+/- 5% of standard

Standard Value	Meter Value	*Acceptance Criteria (PM)
10.0	9.95	+/- 0.3 NTU of stan.
20	20.7	+/- 5% of standard
100	98.1	+/- 5% of standard
800	807	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE: Background

MODEL NO.:

UNIT ID NO.:

Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
ppmv	<0.1		within 5 ppmv of BG
ppmv	100		+/- 10% of standard

Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1		within 5 ppmv of BG
100		+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE:

MODEL NO.:

UNIT ID NO.:

Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
Methane %	50		+/- 10% of standard
O ₂ %	20.9		+/- 10% of standard
H ₂ S ppmv	25		+/- 10% of standard
CO ppmv	50		+/- 10% of standard

Standard Value	Meter Value	*Acceptance Criteria (PM)
50		+/- 10% of standard
20.9		+/- 10% of standard
25		+/- 10% of standard
50		+/- 10% of standard

OTHER METER

METER TYPE:

MODEL NO.:

UNIT ID NO.:

Units	Standard Value	Meter Value	*Acceptance Criteria (PM)

Standard Value	Meter Value	*Acceptance Criteria (PM)



Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.



Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source:

Portland FOS

Lot#/Date Produced:

Trip Blank Source: LAB

Sample Preservatives Source: LAB

Disposable Filter Type:

0.45µm cellulose

Calibration Fluids / Standard Source:

- DO Calibration Fluid (<0.1 mg/L)

Portland FOS

- Other

- Other

- Other

Cal. Standard Lot Number	Exp. Date
pH (4) <u>9GE1020</u>	<u>5/21</u>
pH (7) <u>9GE1325</u>	<u>5/21</u>
pH (10) <u>9GE1325</u>	<u>5/21</u>
ORP <u>DGB510</u>	<u>11/20</u>
Conductivity <u>DGB741</u>	<u>4/21</u>
<0.1 Turb. Stan. <u>A9276</u>	<u>1-21</u>
20 Turb. Stan. <u>A9287</u>	
100 Turb. Stan. <u>A9277</u>	
800 Turb. Stan. <u>A9275</u>	
PID Span Gas	
O ₂ -LEL Span Gas	
Other	

NOTES:

NONE

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511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENTATION CALIBRATION RECORD - PORTLAND FOS

Please Retain For Project Records

PROJECT NAME: _____

DATE: 7/6/2020 TIME: _____

PROJECT NUMBER: 3017187420.02

CALIBRATED BY: BC

MULTI-PARAMETER WATER QUALITY METER METER TYPE YSI MODEL NO. 556 UNIT ID NO. _____

	Units	Standard Value	Meter Value	Acceptance Criteria*	Cal. Standard Lot #	Exp. Date
pH (4)	SU	4.0	_____	+/- 0.2 pH Units	_____	_____
pH (7)	SU	7.0	_____	+/- 0.2 pH Units	_____	_____
pH (10)	SU	10.0	_____	+/- 0.2 pH Units	_____	_____
Redox	+/- mV	240	_____	+/- 10 mV	_____	_____
Conductivity	mS/cm	1.413	_____	+/- 0.5% of standard	_____	_____
DO (saturated)	%	100	_____	+/- 2% of standard	DO Cal. Solution Source	Prep. Date
DO (saturated)	mg/L ¹	_____	_____	+/- 0.2 mg/L	Portland FOS	_____
DO (<0.1)	mg/L	<0.1	_____	≤ 0.5 mg/L	_____	_____
Baro. Press.	mmHg	_____	_____	_____	NIST Serial #	Certificate #
Temperature	°C	_____	_____	+/- 0.2 °C	4F2160	2448.01

TURBIDITY METER mg/L¹ METER TYPE HACH MODEL NO. 2100Q UNIT ID NO. 11024-29

					Cal. Standard Lot #	Exp. Date
<0.1 Standard	NTU	<0.1	<u>10.2</u>	w/in 0.3 NTU	<u>A9155</u>	<u>9/20</u>
20 Standard	NTU	20	<u>19.7</u>	+/- 5% of standard	<u>A9151A</u>	<u>9/20</u>
100 Standard	NTU	100	<u>99.6</u>	+/- 5% of standard	<u>A9155</u>	<u>9/20</u>
800 Standard	NTU	800	<u>795</u>	+/- 5% of standard	<u>A9155</u>	<u>9/20</u>

PHOTOIONIZATION DETECTOR METER TYPE _____ MODEL NO. _____ UNIT ID NO. _____

Background (BG)	ppmv	<0.1	_____	within 5 ppmv of BG	Cal. Standard Lot #	Exp. Date
Span Gas	ppmv	100	_____	+/- 10% of standard	_____	_____

☐

Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.

☐

Equipment (not) calibrated within the Acceptance Criteria** specified for each of the parameters listed above.

NOTES:

wood. 511 Congress Street.
Portland Maine 04101

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

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FIELD INSTRUMENTATION CALIBRATION RECORD - PORTLAND FOS

Please Retain For Project Records

PROJECT NAME: _____

DATE: 7/9/2020 TIME: _____

PROJECT NUMBER: 3617187420.02.***

CALIBRATED BY: BC

MULTI-PARAMETER WATER QUALITY METER METER TYPE YSI MODEL NO. 556 UNIT ID NO. M015-02

	Units	Standard Value	Meter Value	Acceptance Criteria*	Cal. Standard Lot #	Exp. Date
pH (4)	SU	4.0	<u>4.00</u>	+/- 0.2 pH Units	<u>9GE1020</u>	<u>5/21</u>
pH (7)	SU	7.0	<u>7.00</u>	+/- 0.2 pH Units	<u>9GE1325</u>	<u>5/21</u>
pH (10)	SU	10.0		+/- 0.2 pH Units		
Redox	+/- mV	240	<u>240</u>	+/- 10 mV	<u>0GB510</u>	<u>11/20</u>
Conductivity	mS/cm	1.413	<u>1.413</u>	+/- 0.5% of standard	<u>0GD741</u>	<u>4/21</u>
DO (saturated)	%	100	<u>100.0</u>	+/- 2% of standard	DO Cal. Solution Source	Prep. Date
DO (saturated)	mg/L ¹			+/- 0.2 mg/L	Portland FOS	
DO (<0.1)	mg/L	<0.1		≤ 0.5 mg/L		
Baro. Press.	mmHg				NIST Serial #	Certificate #
Temperature	°C	<u>22.5</u>	<u>22.7</u>	+/- 0.2 °C	<u>4F2160</u>	<u>2448.01</u>

TURBIDITY METER	mg/L ¹	METER TYPE	HACH	MODEL NO.	2100Q	UNIT ID NO.
					Cal. Standard Lot #	Exp. Date
<0.1 Standard	NTU	<0.1		w/in 0.3 NTU		
20 Standard	NTU	20		+/- 5% of standard		
100 Standard	NTU	100		+/- 5% of standard		
800 Standard	NTU	800		+/- 5% of standard		

PHOTOIONIZATION DETECTOR	METER TYPE	MODEL NO.	UNIT ID NO.
Background (BG)	ppmv	<0.1	within 5 ppmv of BG
Span Gas	ppmv	100	+/- 10% of standard

☐ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.

☐ Equipment (not) calibrated within the Acceptance Criteria** specified for each of the parameters listed above.

NOTES:

wood. 511 Congress Street.
Portland Maine 04101

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.

FIELD INSTRUMENTATION CALIBRATION RECORD - PORTLAND FOS

Please Retain For Project Records

PROJECT NAME: _____

DATE: 7/9/2020 TIME: _____

PROJECT NUMBER: 3617187420-02.xxxx

CALIBRATED BY: BC

MULTI-PARAMETER WATER QUALITY METER METER TYPE YSI MODEL NO. 556 UNIT ID NO. M015-05

	Units	Standard Value	Meter Value	Acceptance Criteria*	Cal. Standard Lot #	Exp. Date
pH (4)	SU	4.0	<u>4.00</u>	+/- 0.2 pH Units	<u>9GE1020</u>	<u>5/21</u>
pH (7)	SU	7.0	<u>7.00</u>	+/- 0.2 pH Units	<u>9GE1325</u>	<u>5/21</u>
pH (10)	SU	10.0		+/- 0.2 pH Units		
Redox	+/- mV	240	<u>240</u>	+/- 10 mV	<u>0GB510</u>	<u>11/20</u>
Conductivity	mS/cm	1.413	<u>1.413</u>	+/- 0.5% of standard	<u>0GD741</u>	<u>4/21</u>
DO (saturated)	%	100	<u>100.5</u>	+/- 2% of standard	DO Cal. Solution Source	Prep. Date
DO (saturated)	mg/L ¹			+/- 0.2 mg/L	Portland FOS	
DO (<0.1)	mg/L	<0.1		≤ 0.5 mg/L		
Baro. Press.	mmHg				NIST Serial #	Certificate #
Temperature	°C	<u>22.4</u>	<u>22.7</u>	+/- 0.2 °C	<u>4F2160</u>	<u>2448.01</u>

TURBIDITY METER	mg/L ¹	METER TYPE	HACH	MODEL NO.	2100Q	UNIT ID NO.
					Cal. Standard Lot #	Exp. Date
<0.1 Standard	NTU	<0.1		w/in 0.3 NTU		
20 Standard	NTU	20		+/- 5% of standard		
100 Standard	NTU	100		+/- 5% of standard		
800 Standard	NTU	800		+/- 5% of standard		

PHOTOIONIZATION DETECTOR	METER TYPE	MODEL NO.	UNIT ID NO.
Background (BG)	ppmv	<0.1	within 5 ppmv of BG
Span Gas	ppmv	100	+/- 10% of standard

☐

Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.

☐

Equipment (not) calibrated within the Acceptance Criteria** specified for each of the parameters listed above.

NOTES:

wood. 511 Congress Street.
Portland Maine 04101

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1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.

FIELD INSTRUMENTATION CALIBRATION RECORD - PORTLAND FOS

Please Retain For Project Records

PROJECT NAME: _____

DATE: 7/6/2020 TIME: _____

PROJECT NUMBER: 3617187420.02

CALIBRATED BY: BC

MULTI-PARAMETER WATER QUALITY METER METER TYPE YSI MODEL NO. 556 UNIT ID NO. _____

	Units	Standard Value	Meter Value	Acceptance Criteria*	Cal. Standard Lot #	Exp. Date
pH (4)	SU	4.0	_____	+/- 0.2 pH Units	_____	_____
pH (7)	SU	7.0	_____	+/- 0.2 pH Units	_____	_____
pH (10)	SU	10.0	_____	+/- 0.2 pH Units	_____	_____
Redox	+/- mV	240	_____	+/- 10 mV	_____	_____
Conductivity	mS/cm	1,413	_____	+/- 0.5% of standard	_____	_____
DO (saturated)	%	100	_____	+/- 2% of standard	DO Cal. Solution Source	Prep. Date
DO (saturated)	mg/L ¹	_____	_____	+/- 0.2 mg/L	Portland FOS	_____
DO (<0.1)	mg/L	<0.1	_____	≤ 0.5 mg/L	_____	_____
Baro. Press.	mmHg	_____	_____	_____	NIST Serial #	Certificate #
Temperature	°C	_____	_____	+/- 0.2 °C	4F2160	2448.01

TURBIDITY METER		mg/L ¹	METER TYPE <u>HACH</u>	MODEL NO. <u>2100Q</u>	UNIT ID NO. <u>4024-27</u>	
					Cal. Standard Lot #	Exp. Date
<0.1 Standard	NTU	<0.1	<u>9.64</u>	w/in 0.3 NTU	<u>A9270</u>	<u>1/21</u>
20 Standard	NTU	20	<u>19.7</u>	+/- 5% of standard	<u>A9287</u>	<u>1/21</u>
100 Standard	NTU	100	<u>98.5</u>	+/- 5% of standard	<u>A9277</u>	<u>1/21</u>
800 Standard	NTU	800	<u>802</u>	+/- 5% of standard	<u>A9275</u>	<u>1/21</u>

PHOTOIONIZATION DETECTOR		METER TYPE	MODEL NO.	UNIT ID NO.	
Background (BG)	ppmv	<0.1	within 5 ppmv of BG	Cal. Standard Lot #	Exp. Date
Span Gas	ppmv	100	+/- 10% of standard		

☐

Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.

☐

Equipment (not) calibrated within the Acceptance Criteria** specified for each of the parameters listed above.

NOTES:

wood. 511 Congress Street,
Portland Maine 04101

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW03A015	SAMPLE TIME 1220

LOCATION ID MW03A	DATE 7-16-2020
START TIME 1015	END TIME 1225
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____	WELL INTEGRITY YES NO N/A CAP _____ CASING _____ LOCKED _____ COLLAR _____
TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____	
MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____	
INITIAL DTW (BMP) 9.24 FT	FINAL DTW (BMP) 9.41 FT
WELL DEPTH (BMP) 24.42 FT	SCREEN LENGTH 5 FT
WATER COLUMN 15.68 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) +0.03 GAL
CALCULATED GAL/VOL 2.57 GAL	TOTAL VOL. PURGED 3.52 GAL
(column X well diameter squared X 0.041)	(mL per minute X total minutes X 0.00026 gal/mL)
PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.3 FT
PID AMBIENT AIR ☒ PPM	REFILL TIMER SETTING — SEC
PID WELL MOUTH ☒ PPM	DISCHARGE TIMER SETTING — SEC
DRAWDOWN/ TOTAL PURGED 0.008	PRESSURE TO PUMP — PSI

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
1022	BEGIN PURGING									
1030	9.39	110	17.32	0.606	7.43	0.46	52.3	-74.7	~15	↑ PUMP SPEED BASED
1040	9.41	150	15.74	0.606	7.44	0.27	56.5	-85.8	~15	
1050	9.41	150	15.56	0.604	7.44	0.22	59.3	-90.4	~15	
1055	9.41	150	15.32	0.606	7.44	0.22	71.9	-94.1	~15	
1100	9.41	150	15.32	0.605	7.44	0.21	90.9	-95.9	~15	
1105	9.41	150	15.49	0.609	7.43	0.24	109	-98.9	~15	
1110	9.41	150	15.45	0.612	7.43	0.23	112	-100.3	~15	↓ PUMP SPEED
1115	9.41	150	15.60	0.618	7.43	0.28	113	-102.1	~15	
1120	9.41	120	15.83	0.625	7.41	0.31	94.1	-106.3	~15	
1125	9.41	120	14.48	0.639	7.45	0.34	108	-81.1	~15	
1130	9.41	120	14.36	0.643	7.41	0.21	94.0	-88.7	~15	
1135	9.41	120	14.39	0.648	7.40	0.18	90.6	-95.4	~15	
1140	9.41	120	15.28	0.656	7.40	0.21	83.7	-91.0	~15	
1145	9.41	120	15.27	0.659	7.40	0.27	59.3	-98.6	~15	
1150	9.41	120	13.31	0.718	7.37	0.31	52.8	-99.7	~15	
1155	9.41	120	13.45	0.742	7.36	0.38	50.1	-102.4	~15	
1200	9.41	120	15.47	0.747	7.36	0.40	38.3	-102.9	~15	
1205	9.41	120	15.84	0.884	7.30	0.49	25.6	-101.2	~15	
1210	9.41	120	15.76	0.906	7.29	0.52	15.9	-105.6	~15	
1215	9.41	120	15.66	0.945	7.27	0.55	16.4	-105.8	~15	Purged 2 hours collecting sample.
1220	SAMPLE									

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

16 **0.945** **7.3** **0.6** **16.4** **-110**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.695 = 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 Geopump ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER Distilled	TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☐ STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☒ TEFLON BLADDER ☐ OTHER ☐ OTHER ☐ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. _____ TYPE _____
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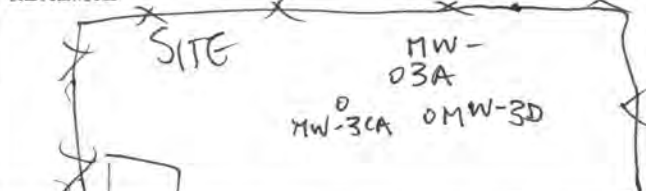
ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOCs	8260B	NLO	HCl, 4°C	3 ± 50	YES	N6	828103-MW03A015

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO	NUMBER OF GALLONS GENERATED ~4.0
NO-PURGE METHOD UTILIZED ☐ YES ☒ NO	If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Maely Bruno

Sampler Signature:

Print Name:

Checked By: **Jerry Pauloff**

Date:

7/20/20



511 Congress Street, Portland Maine 04101

LOW FLOW GROUNDWATER SAMPLING RECORD

LOW FLOW GROUNDWATER SAMPLING RECORD

LOCATION ID MW-03CA	DATE 7-16-2020
START TIME 0740	END TIME 1015
SITE NAME/NUMBER 828103	PAGE 1 OF 1

CAP			
CASING			
LOCKED			
COLLAR			

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

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)

TYPE OF PUMP		DECOR FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☐	PERISTALTIC	☒	LINQUIN	☐	S. STEEL PUMP MATERIAL	☐	WL METER
☐	SUBMERISBLE	☒	DEIONIZED WATER	☐	PVC PUMP MATERIAL	☐	PID
☐	BLADDER	☐	POTABLE WATER	☐	GEOPROBE SCREEN	☐	WQ METER
☐		☐	NITRIC ACID	☐	TEFLON BLADDER	☐	TURB METER
☐	WATTERA	☒	HEXANE	☐	OTHER	☐	PUMP
☐	OTHER	☐	METHANOL	☐	OTHER	☐	OTHER
☐	OTHER	☒	OTHER <i>Deionized</i>	☐	OTHER	☐	FILTERS

[illegible]

SKETCH/NOTES

ENTRANCE

accident

030

030A

030B

N



MACTEC

LOW FLOW GROUNDWATER SAMPLING RECORD

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Dinaburg Distributing OU2 RI

PROJECT NUMBER
3617187420

SAMPLE ID
828103-MW03DSO

SAMPLE TIME
1340

LOCATION ID
MW03D

DATE
7-16-2020

START TIME
1220

END TIME
1350

SITE NAME/NUMBER
828103

PAGE
1 OF 1

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

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

MEASUREMENT POINT (MF) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY
YES NO N/A

CAP ☒ ☐ ☐

CASING ☒ ☐ ☐

LOCKED ☒ ☐ ☐

COLLAR ☒ ☐ ☐

INITIAL DTW (BMP) 18.20 FT FINAL DTW (BMP) 19.96 FT PROT. CASING STICKUP (AGS) 0 FT

WELL DEPTH (BMP) 51.55 FT SCREEN LENGTH 10 FT PID AMBIENT AIR - PPM

WATER COLUMN 8335 FT DRAWDOWN VOLUME 0.29 GAL PID WELL MOUTH - PPM

CALCULATED GAL/VOL 5.47 GAL TOTAL VOL. PURGED 2.03 GAL DRAWDOWN/ TOTAL PURGED 0.15

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

TOC/TOR DIFFERENCE 0.67 BMP FT

REFILL TIMER SETTING - SEC

DISCHARGE TIMER SETTING - SEC

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
1222	BEGIN PURGING									
1230	19.70	120	14.81	4.976	7.10	0.16	9.26	-284.8	~48	↓ pm = SPEED
1240	19.81	90	17.12	4.990	7.07	0.83	28.1	-303.0	~48	
1250	19.79	100	16.73	5.145	7.05	1.60	22.2	-309.9	~48	↑ PUMP SPEED
1300	19.81	100	16.62	5.137	7.06	1.92	19.2	-318.6	~48	
1305	20.01	100	17.35	4.985	7.07	1.95	13.2	-304.5	~48	
1310	19.99	100	17.52	4.915	7.06	1.91	9.53	-304.1	~48	
1315	19.99	100	17.62	4.899	7.06	1.96	5.28	-306.3	~48	
1320	19.99	100	17.45	4.988	7.05	2.03	4.88	-307.7	~48	
1325	19.97	100	17.42	5.128	7.04	2.01	8.80	-309.4	~48	
1330	19.96	100	17.29	5.182	7.05	1.99	8.95	-309.6	~48	
1335	19.96	100	17.17	5.128	7.05	1.99	8.95	-309.5	~48	TURB = 6.97
1340	SAMPLE		17.08	5.128	7.06	1.95	7.54	-308.5	~48	

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

17 5.12 7.1 2.0 7.5 -310

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 3333 = 3330, 0.895 = 0.896)
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 ☒ Geopump

DECON FLUIDS USED: LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER DEDICATED ☒

TUBING/PUMP/BLADDER MATERIALS: SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ OTHER ☐

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

EQUIPMENT USED: WL METER 1203-79 ☒ PID ☐ WQ METER M015-08 ☒ TURB. METER M024-27 ☒ PUMP S008-44 ☒ OTHER ☐

FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE # NUMBERS
80Cs	82605	NO	Hcl, 4°C	3x50	YES	NO	828103-MW03DSO

PURGE OBSERVATIONS

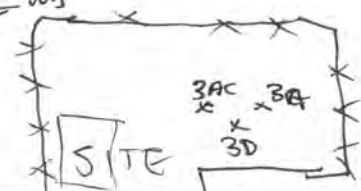
PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 2.5

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

SKETCH/NOTES

EGG  - ROTTEN EGG-LIKE ODOR.

Sampler Signature: M.B. Print Name: M. BRUNO

Checked By: Jerry Rauloff Date: 7/20/20

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW04020	SAMPLE TIME 1540

LOCATION ID MW-04	DATE 7-15-2020
START TIME 1415	END TIME 1610
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER	WELL INTEGRITY YES NO N/A
TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☒ 1/2 ☐ 5/8 ☐ OTHER	CAP ☒ YES ☐ NO ☐ N/A
MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER	CASING ☒ YES ☐ NO ☐ N/A
INITIAL DTW (BMP) 9.23 FT	TOC/TOR DIFFERENCE 0.2 FT
FINAL DTW (BMP) 9.74 FT	REFILL TIMER SETTING
WELL DEPTH (BMP) 23.04 FT	DISCHARGE TIMER SETTING
SCREEN LENGTH 10 FT	PRESSURE TO PUMP
WATER COLUMN 13.81 FT	
DRAWDOWN VOLUME +0.08 GAL	
(initial DTW - final DTW X well diam. squared X 0.041)	
TOTAL VOL. PURGED 2.57 GAL	
(mL per minute X total minutes X 0.00026 gal/mL)	
CALCULATED GAL/VOL 2.26 GAL	
(column X well diameter squared X 0.041)	
PROT. CASING STICKUP (AGS) 0 FT	
PID AMBIENT AIR	
PID WELL MOUTH	
DRAWDOWN/ TOTAL PURGED 0.032	

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
BEGIN PURGING										
1435	9.73	180	18.12	1.038	7.13	1.16	230	54.1	~20	↓ PUMP SPEED
1440	9.74	150	17.62	1.014	7.12	0.81	101	53.9	~20	
1445	9.74	150	17.99	1.008	7.11	0.59	78.4	53.4	~20	
1450	9.74	150	17.83	1.004	7.11	0.51	38.3	54.0	~20	
1455	9.74	150	17.85	1.000	7.11	0.43	19.4	52.3	~20	
1500	9.74	150	17.44	0.996	7.10	0.45	10.8	50.9	~20	
1505	9.74	150	17.58	0.996	7.11	0.50	7.50	50.4	~20	
1510	9.74	150	17.84	0.993	7.12	0.56	4.74	50.1	~20	
1515	9.74	150	18.21	0.997	7.12	0.82	7.66	48.6	~20	
1520	9.74	150	18.30	0.995	7.10	0.80	4.80	42.8	~20	
1525	9.74	150	17.76	0.993	7.12	1.29	3.49	41.1	~20	DO = 1.05
1530	9.74	150	17.47	0.993	7.10	1.33	6.10	41.7	~20	
1535	9.74	160	17.23	0.992	7.11	1.29	3.34	38.2	~20	
1540	COLLECT SAMPLES									

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

17 0.992 7.1 1.3 3.3 38

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 3333 = 3330, 0.095 = 0.096)
pH: nearest tenth (ex. 3.53 = 3.5)
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	DECON FLUIDS USED ☐ LIQUINOX ☒ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER Delicatel	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 M203-79 PID WQ METER M015-05 TURB. METER M024-27 PUMP 5008-99 Geyser OTHER FILTERS NO. TYPE
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOCs	8260B	No	HCl, 4°C	9x50	YES	YES	828103-MW04020

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED	YES ☒ NO ☐	NUMBER OF GALLONS GENERATED	~2.6
NO-PURGE METHOD UTILIZED	YES ☐ NO ☒	If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.	

SKETCH/NOTES

MS/MSD COLLECTED
S. CLINTON
M. BRUNO
7/20/20
SITE

Sampler Signature: M. Bruno
Checked By: Jerry Ruff

Print Name: M. BRUNO
Date: 7/20/20

511 Congress Street, Portland Maine 04101

LOW FLOW GROUNDWATER SAMPLING RECORD

LOCATION ID mw-6	DATE 2/14/20
START TIME 0755	END TIME 0935
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☐	☒	☐
COLLAR	☒	☐	☐

No well caps
No bulbs

INITIAL DTW (BMP)	7.63 FT	FINAL DTW (BMP)	8.45 FT	PROT. CASING STICKUP (AGS)	0 FT	TOC/TOR DIFFERENCE	0.52 FT
WELL DEPTH (BMP)	19.8 FT	SCREEN LENGTH	15 FT	PID AMBIENT AIR	— PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	12.17 FT	DRAWDOWN VOLUME (initial DTW- final DTW X well diam. squared X 0.041)	.14 GAL	PID WELL MOUTH	— PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.9 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.2 GAL	DRAWDOWN/ TOTAL PURGED	0.062	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)	FUMP INTAKE DEPTH (ft)	COMMENTS
0902	BEGIN PURGING									
0915	8.54	120	15.7	1.482	7.0	3.3	4.8	131		
0925	8.47	120	15.7	1.485	7.1	2.5	3.5	-1		
0930	8.46	115	15.6	1.486	7.1	3.2	2.7	-37		
0935	8.45	120	15.6	1.488	7.1	3.2	1.9	-49		
0940	8.46	120	15.6	1.488	7.1	2.8	1.7	-52		
0945	8.47	110	15.5	1.489	7.1	2.3	1.3	-51		
0950	8.44	115	15.6	1.489	7.1	2.0	0.9	-47		
0955	8.45	120	15.5	1.490	7.1	1.8	1.0	-45		
0900	8.45	-	15.5	1.491	7.1	1.6	1.1	-37		
0905	8.48	125	15.4	1.492	2.6	1.4	-	490		pH & ORP suddenly went way out of precision. Water for DO test was in plastic beaker, so I refilled with water.
0910	8.48	125	15.4	1.492	3.2	1.4	1.5	520		
0915	8.48	125	15.4	1.493	3.5	1.3	1.4	543		
										Going to attempt recalc.

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		DECONT. FLUIDS USED		TUBING/TUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒	PERISTALTIC	☐	LQUINOX	☒	SILICON TUBING	☒	WL METER <i>14mm</i>
☒	SUBMERSIBLE	☐	DEIONIZED WATER	☐	TEFLON TUBING	☒	W/
☐	BLADDER	☐	POTABLE WATER	☐	TEFLON LINED TUBING	☒	W/ METER <i>75 PSI 556 GPMPS</i>
		☐	NITRIC ACID	☐	HDPE TUBING	☒	TURB. METER <i>14mm 12mm</i>
	WATERA	☐	HEXANE	☒	LDPE TUBING	☒	PUMP <i>Geopipe</i>
☐	OTHER	☐	METHANOL	☐	OTHER	☐	OTHER
☐	OTHER	☒	OTHER <i>Dedicated</i>	☐	OTHER	☐	FILTERS NO. TYPE

ANALYTICAL PARAMETERS

[illegible]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED	YES ☒	NO ☐	NUMBER OF GALLONS GENERATED	2.2
NO-PURGE METHOD UTILIZED	YES ☐	NO ☐	If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location	

SKETCH/NOTES

Print Name:

Date: 7/22/20

LOW FLOW GROUNDWATER SAMPLING RECORD

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI		LOCATION ID MW-8K		DATE 7/15/20	
PROJECT NUMBER 3617187420		START TIME 0820		END TIME 1005	
SAMPLE ID 828103-MW08/10/17 (MS/MSD)		SAMPLE TIME 1000		SITE NAME/NUMBER 828103	
PAGE 1 OF 1					

WELL DIAMETER (INCHES)	☐ 1	☒ 2	☐ 4	☐ 6	☐ 8	☐ OTHER _____	WELL INTEGRITY	YES	NO	N/A
TUBING ID (INCHES)	☐ 1/8	☐ 1/4	☒ 3/8	☐ 1/2	☐ 5/8	☐ OTHER _____	CAP	☒	☐	☐
MEASUREMENT POINT (MP)	☒ TOP OF RISER (TOR)	☐ TOP OF CASING (TOC)	☐ OTHER _____	CASING	☒	☐	LOCKED	☒	☐	☐
				COLLAR	☒	☐		☐	☐	☐

INITIAL DTW (BMP)	6.86 FT	FINAL DTW (BMP)	9.08 FT	PROT. CASING STICKUP (AGS)	0 FT	TOC/TOR DIFFERENCE	0.34 FT
WELL DEPTH (BMP)	18.85 FT	SCREEN LENGTH	10 FT	PID AMBIENT AIR	— PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	11.99 FT	DRAWDOWN VOLUME	0.37 GAL	PID WELL MOUTH	— PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL	1.9 GAL	TOTAL VOL. PURGED	2.5 GAL	DRAWDOWN/ TOTAL PURGED	0.05	PRESSURE TO PUMP	— PSI

(column X well diameter squared X 0.041)
(initial DTW- final DTW X well diam. squared X 0.041)
(mL per minute X total minutes X 0.00026 gal/mL.)

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

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

TEMP.: nearest tenth (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		DEC. FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED			
☒	PERISTALTIC	☐	LINQUOX	☒	SILICON TUBING	☐	S. STEEL PUMP MATERIAL	☒	W. METER <u>Hezon</u>
☐	SUBMERSIBLE	☐	DEIONIZED WATER	☐	TEFLON TUBING	☐	PVC PUMP MATERIAL	☐	PID
☐	BLADDER	☐	POTABLE WATER	☐	TEFLON LINED TUBING	☐	GEOPROBE SCREEN	☒	WQ METER <u>YSI 556 MP's</u>
		☐	NITRIC ACID	☒	HDPE TUBING	☐	TEFLON BLADDER	☒	TURB. METER <u>HACH 21012</u>
	WATTERA	☐	HEXANE	☐	LDPE TUBING	☐	OTHER	☒	PUMP <u>6 pump</u>
	OTHER	☐	METHANOL	☐	OTHER	☐	OTHER	☐	OTHER
	OTHER	☒	OTHER <u>Dedicated</u>	☐	OTHER	☐	OTHER	☐	FILTERS NO. TYPE

ANALYTICAL PARAMETERS

[illegible]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO NUMBER OF GALLONS GENERATED 2.5

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

Sampler Signature: _____

Jerry Rawcliffe
Print Name:

Checked By:

Date: _____

SKETCH/NOTES

Hand-drawn sketch of a building layout. The sketch shows a rectangular building with several internal divisions. Labels include:

- Top right: S. C. Window
- Left side: Behind St. (with an arrow pointing to a small rectangular area)
- Bottom left: m.w.-8K
- Bottom left: m.w.-8S
- Bottom right: #354
- Bottom right: #255

LOW FLOW GROUNDWATER SAMPLING RECORD

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Dinaburg Distributing OU2 RI

PROJECT NUMBER
3617187420

SAMPLE ID
828103-MW09S012

SAMPLE TIME
0910

LOCATION ID
MW-09S

DATE
7-15-2020

START TIME
0735

END TIME
0920

SITE NAME/NUMBER
828103

PAGE
1 OF 1

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

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

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

WELL INTEGRITY
YES NO N/A

CAP ☒ ☐ ☐

CASING ☒ ☐ ☐

LOCKED ☒ ☐ ☐

COLLAR ☒ ☐ ☐

INITIAL DTW (BMP) **7.99** FT

FINAL DTW (BMP) **9.89** FT

PROT. CASING STICKUP (ACS) **0** FT

TOCTOR DIFFERENCE **20.1** FT *we have*

WELL DEPTH (BMP) **14.90** FT

SCREEN LENGTH **10** FT

PID AMBIENT AIR **-** PPM

REFILL TIMER SETTING **-** SEC

WATER COLUMN **6.96** FT

DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) **+0.37** GAL

PID WELL MOUTH **-** PPM

DISCHARGE TIMER SETTING **-** SEC

CALCULATED GAL/VOL (column X well diameter squared X 0.041) **1.19** GAL

TOTAL VOL. PURGED **2.03** GAL

DRAWDOWN/ TOTAL PURGED **-0.16** *0.15*

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
0752	BEGIN PURGING									
0755	8.64	100	19.22	2.921	7.44	1.27	23.3	89.7	~12	
0800	8.80	100	19.48	2.911	7.48	1.41	16.0	86.3	~12	
0805	8.89	100	19.64	2.900	7.50	1.38	14.6	85.2	~12	
0810	9.05	100	19.65	2.892	7.53	1.86	13.7	83.5	~12	
0815	9.13	100	19.88	2.839	7.57	2.12	8.28	80.4	~12	
0820	9.21	100	19.93	2.839	7.56	2.15	7.16	80.2	~12	
0825	9.27	100	20.03	2.854	7.60	2.21	5.80	80.1	~12	
0830	9.35	100	20.10	2.896	7.62	2.10	4.78	78.4	~12	
0835	9.41	100	20.03	2.949	7.62	2.05	4.11	77.2	~12	
0840	9.50	100	19.90	2.968	7.62	1.91	3.97	75.8	~12	
0845	9.62	100	19.89	2.973	7.62	1.78	3.30	75.8	~12	
0850	9.70	100	19.91	2.984	7.62	1.68	2.50	75.1	~12	
0855	9.60	100	20.02	3.019	7.62	1.44	2.54	74.9	~12	Required project casing, cut down riser to 11.6 ft.
0900	9.83	100	20.17	3.023	7.62	1.41	2.48	74.3	~12	
0905	9.89	100	20.30	3.028	7.62	1.46	2.56	74.2	~12	
0910	SAMPLE									
0915										

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW09K018	SAMPLE TIME 1135

LOCATION ID MW-09K	DATE 7-15-2020
START TIME 0950	END TIME 1150
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____	WELL INTEGRITY YES NO N/A CAP ☒ YES ☐ NO ☐ N/A CASING ☒ YES ☐ NO ☐ N/A LOCKED ☒ YES ☐ NO ☐ N/A COLLAR ☒ YES ☐ NO ☐ N/A
TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____	
MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____	
INITIAL DTW (BMP) 9.24 FT	FINAL DTW (BMP) 9.26 FT
WELL DEPTH (BMP) 23.5 FT	SCREEN LENGTH 10 FT
WATER COLUMN 14.26 FT	DRAWDOWN VOLUME +0.003 GAL
CALCULATED GAL/VOL 2.34 GAL	TOTAL VOL. 2.88 GAL
(column X well diameter squared X 0.041)	(mL per minute X total minutes X 0.00026 gal/mL)
PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 10.2 FT
PID AMBIENT AIR _____ PPM	REFILL TIMER SETTING _____ SEC
PID WELL MOUTH _____ PPM	DISCHARGE TIMER SETTING _____ SEC
DRAWDOWN/ TOTAL PURGED +0.001	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
1000	BEGIN PURGING									
1005	9.25	90	17.21	2.397	7.16	0.40	64.7	-20.3	~18	INCREASED ↑ SPEED
1010	9.26	115	17.82	2.338	7.20	0.39	69.6	-21.9	~18	SEE NOTE
1015	9.26	140	17.35	2.254	7.15	0.39	72.2	-23.5	~18	
1020	9.25	125	17.42	2.158	7.12	0.30	54.7	-21.3	~18	
1025	9.25	125	17.12	2.124	7.10	0.29	46.6	-23.0	~18	
1030	9.25	125	17.18	2.108	7.10	0.28	43.8	-23.9	~18	
1035	9.24	125	17.18	2.080	7.09	0.31	42.7	-21.1	~18	
1040	9.24	125	17.25	2.013	7.05	0.66	39.8	-21.5	~18	
1045	9.25	125	17.34	1.940	7.07	0.73	38.0	-22.6	~18	
1050	9.24	125	17.68	1.942	7.07	0.90	32.3	-22.0	~18	
1055	9.24	125	17.75	1.939	7.08	1.17	27.8	-18.8	~18	
1100	9.26	125	17.53	1.910	7.06	1.15	22.4	-21.6	~18	
1105	9.26	125	17.24	1.865	7.07	1.07	23.1	-22.2	~18	
1110	9.27	125	17.12	1.846	7.07	1.00	25.7	-22.6	~18	
1115	9.26	125	16.70	1.844	7.07	0.99	23.8	-22.5	~18	
1120	9.26	125	16.52	1.810	7.07	0.97	21.6	-21.9	~18	
1125	9.26	125	16.39	1.807	7.07	0.95	20.2	-20.8	~18	
1130	9.26	125	16.34	1.808	7.07	0.94	19.4	-19.0	~18	
1135	SAMPLE									

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

16 1.81 7.1 0.9 19.4 -19

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 (5.19 = 5.2, 101 = 101)
ORP: 2 SF (48.1 = 48, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☐ LIQUINOX ☒ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☒ METHANOL ☐ OTHER <i>Delicel</i>	TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☒ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER ☐ OTHER	EQUIPMENT USED WL METER <i>M203-79</i> PID WQ METER <i>M025-05</i> TURB. METER <i>M029-25</i> PUMP <i>3008-44-27</i> OTHER FILTERS NO. TYPE
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE # NUMBERS
8260B	VOCs	NO	HCl, 4°C	3x50	YES	NO	828103-MW09K018 3

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED	☒ YES ☐ NO	NUMBER OF GALLONS GENERATED	~3.0
NO-PURGE METHOD UTILIZED	☐ YES ☒ NO	If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.	

SKETCH/NOTES

HAVING TROUBLE W/ PUMP SPEED CONSISTENCY.
 W/ BARRIER
 3.115
 S. CLINTON

Sampler Signature: *M.B.*

Print Name: H. BRUNO

Checked By: *Jerry Kallf*

Date: 7/20/20

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW105012	SAMPLE TIME 1200

LOCATION ID mw-105	DATE 7/14/20
START TIME 1050	END TIME 1205
SITE NAME/NUMBER 828103	PAGE 1 OF 1

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

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

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

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP) 5.81 FT	FINAL DTW (BMP) 7.75 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.15 FT
WELL DEPTH (BMP) 15.25 FT	SCREEN LENGTH 10 FT	PID AMBIENT AIR PPM	REFILL TIMER SETTING SEC
WATER COLUMN 9.44 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) 0.31 GAL	PID WELL MOUTH PPM	DISCHARGE TIMER SETTING SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 1.5 GAL	TOTAL VOL. PURGED 1.8 GAL	DRAWDOWN/ TOTAL PURGED 0.17	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
1058	BEGIN PURGING									
1110	6.52	110	16.6	1.381	6.8	3.5	2.9	146	14'	
1120	6.81	110	16.7	1.377	6.8	2.1	1.9	134		Checked on MIB
1135	7.23	115	16.6	1.348	6.8	1.8	3.0	128		
1140	7.34	115	16.6	1.341	6.8	2.0	1.8	124		
1145	7.47	115	16.7	1.341	6.8	2.1	1.7	121		
1150	7.61	120	16.7	1.345	6.8	2.1	1.2	119		
1155	7.75	120	16.7	1.347	6.8	1.9	1.1	117		
Parameters stable, have purged 5x drawdown.										

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

17 1.35 6.8 1.9 1.1 120

TEMP: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.695 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (ex. 6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER <u>Dedicated</u>	TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☒ WL METER <u>Hecon</u> ☐ PID ☒ WQ METER <u>YSZ 55amps</u> ☒ TURB. METER <u>114C12103 Q</u> ☒ PUMP <u>Geopump</u> ☐ OTHER ☐ OTHER
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE NUMBERS
☒ VOCs	8260C	N	4% HCl	3x40ml	Yes	-	- 3
☐							
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

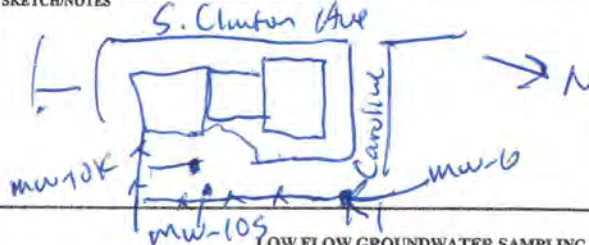
PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 1.8

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

SKETCH/NOTES



Sampler Signature: Jerry Rawcliffe
 Checked By: Jerry Rawcliffe
 Date: 7/14/20

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW10K018	SAMPLE TIME 0810 7/15/20

LOCATION ID MW-10K	DATE 7/14/20
START TIME 1205	END TIME 7/15/20 0815
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER	WELL INTEGRITY YES NO N/A CAP ☒ ☐ ☐ CASING ☒ ☐ ☐ LOCKED ☒ ☐ ☐ COLLAR ☒ ☐ ☐
TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER 0.0	
MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER	
INITIAL DTW (BMP) 7.77 FT	FINAL DTW (BMP) 21.55 FT
WELL DEPTH (BMP) 21.55 FT	SCREEN LENGTH 10 FT
WATER COLUMN 13.78 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) GAL
CALCULATED GAL/VOL 2.2 GAL	TOTAL VOL. PURGED 3.8 GAL
(column X well diameter squared X 0.041)	(mL per minute X total minutes X 0.00026 gal/mL)
PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.41 FT
PID AMBIENT AIR PPM	REFILL TIMER SETTING SEC
PID WELL MOUTH PPM	DISCHARGE TIMER SETTING SEC
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
1212	BEGIN PURGING									
1230	10.77	150	14.8	1.488	6.9	1.1	30	18		Iron Flock in well
1235	11.31	140	15.0	1.487	6.9	0.9	28	20		
1240	11.89	130	15.2	1.489	6.9	0.9	30	23		Pump at lowest setting
1250	12.54	135	15.1	1.489	6.9	0.9	27	26		Casing cap missing
1300	13.42	130	15.1	1.486	6.9	0.9	25	23		well top on riser
1310	14.39	135	15.2	1.484	6.9	0.9	22	22		casing broken by place
1320	15.35	140	15.0	1.481	6.9	1.0	17	17		
1330	16.44	130	14.9	1.479	6.9	1.1	16	12		
1340	17.49	130	14.9	1.478	6.9	1.2	23	10		
1350	Well looks like it will purge dry before 2 hours - going to increase rate									
1356	19.41	340	14.5	1.485	7.0	1.5	470	2		Iron Flock
1356	21.5	Purge Dry								
7/15/20										
0805	8.01									
0810	Collected grab sample of Recharge									

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 ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☒ METHANOL ☐ OTHER Reductant	TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☒ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☒ WL METER Itron ☐ PID ☒ WQ METER YSI 551 Mps ☒ TURB. METER HANNA HI9142 ☐ PUMP ☐ OTHER ☐ OTHER ☐ FILTERS NO. TYPE
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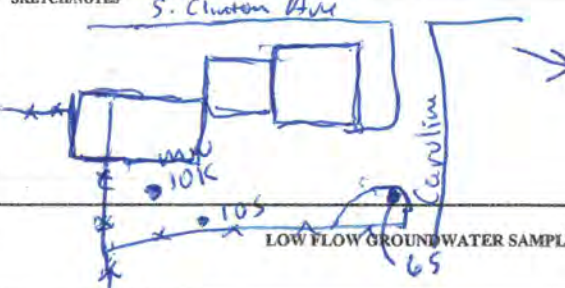
ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
✓ VOCs	8260C	N	4°C/1H	3x40ml	✓		

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO	NUMBER OF GALLONS GENERATED 3.8
NO-PURGE METHOD UTILIZED ☐ YES ☒ NO	If yes, purged approximately 1 standing volume prior to sampling or mL for this sample location.

SKETCH/NOTES



Sampler Signature: *Jeffery Rawliff*

Print Name: *Jeffery Rawliff*

Checked By: *MDH*

Date: 7/22/20



511 Congress Street, Portland Maine 04101

LOW FLOW GROUNDWATER SAMPLING RECORD

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW115010	SAMPLE TIME 1240

LOCATION ID MW-115	DATE 7-14-2020
START TIME 1125	END TIME 1155
SITE NAME/NUMBER 828103	PAGE 1 OF 1

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

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☒ 1/2 ☐ 5/8 ☐ OTHER _____

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

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP) 7.81 FT	FINAL DTW (BMP) 9.68 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.18 FT
WELL DEPTH (BMP) 13.6 FT	SCREEN LENGTH 10 FT	PID AMBIENT AIR PPM	REFILL TIMER SETTING SEC
WATER COLUMN 5.79 FT	DRAWDOWN VOLUME +0.30 GAL	PID WELL MOUTH PPM	DISCHARGE TIMER SETTING SEC
CALCULATED GAL/VOL 0.95 GAL	TOTAL VOL. PURGED 1.3 GAL	DRAWDOWN/ TOTAL PURGED +0.28	PRESSURE TO PUMP PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

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
1140	BEGIN PURGING									
1145	8.21	100	17.72	0.937	6.79	1.50	679.1	65.5	~10	LOWERED PUMP SPEED
1150	8.39	90	18.31	0.954	6.79	1.28	15.2	66.3	~10	
1155	8.51	90	18.76	0.979	6.77	1.19	25.9	66.1	~10	
1200	8.87	90	18.08	0.996	6.77	1.28	21.9	65.0	~10	
1205	9.09	90	18.22	0.984	6.77	1.21	19.5	64.1	~10	
1210	9.13	90	18.76	0.957	6.78	1.24	13.6	62.8	~10	
1215	9.22	90	18.94	0.932	6.77	1.19	12.1	61.8	~10	
1220	9.34	90	18.48	0.915	6.81	+2.1	7.86	62.8	~10	DO = 1.53 mg/L
1225	9.44	90	18.56	0.893	6.82	1.97	8.90	64.5	~10	
1230	9.53	90	17.99	0.898	6.82	2.00	9.70	65.5	~10	
1235	SAMPLE									
1235	9.68	90	17.02	0.913	6.82	2.12	-	66.3	~10	
1240	SAMPLE									

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

17 0.913 6.8 2.1 4.7 66

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 3333 = 3330, 0.695 = 0.695)
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 ☐ WATERA ☐ 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	EQUIPMENT USED ☒ WL METER M200-79 ☒ PID ☒ WQ METER M016-05 ☒ TURB. METER M24-27 ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOCs	8260B	NO	HCl	3x50mL	YES		828103-MW115010

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 1.3

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

SKETCH/NOTES



Sampler Signature: MB

Print Name: M. BRUNO

Checked By: Jerry Ruff

Date: 7/20/20



511 Congress Street, Portland Maine 04101

LOW FLOW GROUNDWATER SAMPLING RECORD

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW12S010	SAMPLE TIME 1330

LOCATION ID MW-12S	DATE 7-15-2020
START TIME 1235	END TIME 1345
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____		WELL INTEGRITY YES NO N/A	
TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____		CAP _____ CASING _____ LOCKED _____ COLLAR _____	
MEASUREMENT POINT (MF) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____			
INITIAL DTW (BMP) <u>6.65</u> FT	FINAL DTW (BMP) <u>8.71</u> FT	PROT. CASING STICKUP (AGS) <u>0</u> FT	TOC/TOR DIFFERENCE <u>0.48</u> FT
WELL DEPTH (BMP) <u>13.65</u> FT	SCREEN LENGTH <u>2.06</u> FT	PID AMBIENT AIR _____ PPM	REFILL TIMER SETTING _____ SEC
WATER COLUMN <u>7.0</u> FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) <u>10.38</u> GAL	PID WELL MOUTH _____ PPM	DISCHARGE TIMER SETTING _____ SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) <u>1.148</u> GAL	TOTAL VOL. PURGED <u>1.1</u> GAL	DRAWDOWN/ TOTAL PURGED <u>0.30</u>	PRESSURE TO PUMP _____ PSI

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
1245	BEGIN PURGING									
1250	7.35	90	17.38	0.630	7.20	0.67	14.6	61.2	10	
1255	7.78	90	17.72	0.630	7.19	0.58	6.04	60.0	10	
1300	7.94	90	17.62	0.629	7.19	0.56	6.36	59.0	10	
1305	8.12	100	17.67	0.630	7.20	0.58	6.60	58.5	10	
1310	8.45	90	17.59	0.639	7.21	0.67	7.20	57.9	10	
1315	8.54	90	17.90	0.638	7.22	0.71	6.98	57.8	10	
1320	8.62	90	17.94	0.640	7.22	0.71	7.26	57.6	10	
1325	8.71	90	17.90	0.642	7.23	0.72	8.40	57.5	10	
1330	SAMPLE									
										Did not meet 5X drawdown criteria. (M)
										(MR)

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

18 0.642 7.2 0.7 8.4 58

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.33 = 5.3)
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 ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER <u>Deductor</u>	TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☒ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER ☐ OTHER ☐ WL METER <u>M203-09</u> ☐ WQ METER <u>M015-05</u> ☐ TURB. METER <u>M024-07</u> ☐ PUMP <u>8008-44 (Geoprop)</u> ☐ OTHER ☐ FILTERS NO. _____ TYPE _____
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE NUMBERS
VOCs	8260B	NO	HC, 4°C	6 x 50	YES	YES, DVP	828103-MW12S0100

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED	☒ YES ☐ NO	NUMBER OF GALLONS GENERATED	<u>~1.2</u>
NO-PURGE METHOD UTILIZED	☐ YES ☒ NO	If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.	

SKETCH/NOTES

- Brown flocking in water and samples.
- Connected DVP. SITE
BENSON

Sampler Signature: [Signature]

Print Name: M. BRUNO

Checked By: [Signature]

Date: 7/20/20



511 Congress Street, Portland Maine 04101

LOW FLOW GROUNDWATER SAMPLING RECORD

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME: Dinaburg Distributing OU2 RI
 PROJECT NUMBER: 3617187420
 SAMPLE ID: 828103-MW12K08
 SAMPLE TIME: 1450

LOCATION ID: MW-12K
 DATE: 7-14-2020
 START TIME: 1340
 END TIME: 1500
 SITE NAME/NUMBER: 828103
 PAGE: 1 OF 1

WELL DIAMETER (INCHES): ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER
 TUBING ID (INCHES): ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER
 MEASUREMENT POINT (MP): ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY
 YES NO N/A

CAP: ☒
 CASING: ☒
 LOCKED: ☒
 COLLAR: ☒

INITIAL DTW (BMP): 8.63 FT
 FINAL DTW (BMP): 9.62 FT
 PROT. CASING STICKUP (AGS): 0 FT
 TOC/TOR DIFFERENCE: 0.48 FT
 WELL DEPTH (BMP): 18.7 FT
 SCREEN LENGTH: 10 FT
 PID AMBIENT AIR: - PPM
 REFILL TIMER SETTING: - SEC
 WATER COLUMN: 10.07 FT
 DRAWDOWN VOLUME: 0.16 GAL
 PID WELL MOUTH: - PPM
 DISCHARGE TIMER SETTING: - SEC
 CALCULATED GAL/VOL: 1.65 GAL
 TOTAL VOL. PURGED: 1.59 GAL
 DRAWDOWN/TOTAL PURGED: 0.018
 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
1345	BEGIN PURGING									
1351	9.80	120	15.43	0.924	6.95	2.79	22.4	42.9	~18	LOWERED PUMP SPEED
1355	9.81	100	15.79	0.899	6.96	1.94	14.6	46.9	~18	
1400	9.85	100	16.04	0.889	6.97	1.81	6.82	49.6	~18	
1405	9.85	100	15.67	0.880	6.97	1.75	7.96	51.1	~18	
1410	9.89	100	16.28	0.888	6.96	3.18	9.74	54.1	~18	
1415	9.71	100	16.06	0.899	7.00	5.69	8.89	63.2	~18	
1420	9.65	100	17.05	0.911	7.02	5.44	8.26	63.8	~18	
1425	9.65	100	17.14	0.914	7.03	5.36	7.07	64.6	~18	
1430	9.64	100	17.12	0.920	7.03	5.12	4.50	66.2	~18	
1435	9.62	100	17.23	0.927	7.02	4.81	4.37	68.1	~18	
1440	9.61	100	17.30	0.932	7.03	4.78	4.22	68.2	~18	
1445	9.62	100	17.36	0.936	7.05	4.71	4.58	69.0	~18	
1450	SAMPLE									

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

17.4 0.936 7.1 4.7 4.6 69

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
 WATTEA: ☐ OTHER: ☐ OTHER: ☐
 DECON FLUIDS USED: ☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER: Delutated
 TUBING/PUMP/BLADDER MATERIALS: ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ OTHER: ☐
 S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER: ☐
 EQUIPMENT USED: ☐ WL METER: M200-79 ☐ PID ☐ WQ METER: M205-05 ☐ TURB. METER: M22-27 ☒ PUMP: Cerypump ☐ OTHER: ☐ FILTERS: NO TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOCs	8260B	NO	HCL, 4°C	3.150	YES	NO	828103-MW12K018

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☒ YES ☐ NO
 NO-PURGE METHOD UTILIZED: ☐ YES ☒ NO
 NUMBER OF GALLONS GENERATED: 1.6
 If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

HAD TO CONSTANTLY ADJUST PUMP TO KEEP SPEED CONSISTENT

Sampler Signature: M. Brund

Print Name: M. BRUND

Checked By: Jerry Buliff

Date: 7/20/20



511 Congress Street, Portland Maine 04101

LOW FLOW GROUNDWATER SAMPLING RECORD

S. CLINTON

LOW FLOW GROUNDWATER SAMPLING RECORD

LOCATION ID MW-131K	DATE 7/14/20
START TIME 1600	END TIME 1740
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL INTEGRITY

	WELL INTEGRITY		
	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP)	9.17 FT	FINAL DTW (BMP)	9.39 FT	PROT. CASING STICKUP (AGS)	0 FT	TOC/TOR DIFFERENCE	0.25 FT
WELL DEPTH (BMP)	20.2 FT	SCREEN LENGTH	5.0 FT	PID AMBIENT AIR	— PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	11.03 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041)	0.22 GAL	PID WELL MOUTH	— PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.8 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.9 GAL	DRAWDOWN/ TOTAL PURGED	0.076	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

[illegible]

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	☐	LQUINOX	☒	SILICON TUBING	☐	S. STEEL PUMP MATERIAL	☒	WL METER <i>Herou</i>
☐	SUBMERSIBLE	☐	DEIONIZED WATER	☐	TEFLON TUBING	☐	PVC PUMP MATERIAL	☐	PID
☐	BLADDER	☐	POTABLE WATER	☐	TEFLON LINED TUBING	☐	GEO PROBE SCREEN	☒	WQ METER <i>YSC 55amps</i>
☐		☐	NITRIC ACID	☐	HDPE TUBING	☐	TEFLON BLADDER	☒	TURB. METER <i>1 inch + 21092</i>
☐	WATTERA	☐	HEXANE	☒	LDPE TUBING	☐	OTHER	☒	PUMP <i>600gpm</i>
☐	OTHER	☐	METHANOL	☐	OTHER	☐	OTHER	☐	OTHER
☐	OTHER	☒	OTHER <i>Wacke-ster?</i>	☐	OTHER	☐	OTHER	☐	FILTERS NO. TYPE

ANALYTICAL PARAMETERS

[illegible]

PURGE OBSERVATIONS	SKETCH/NOTES
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PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 2.9

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




Sampler Signature: 12/10 Print Name: Jerry Rawcliffe

Checked By: [Signature] Date: 7/22/20

SKETCH/NOTES



LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MWKA022	SAMPLE TIME 1110

LOCATION ID MW-14KA	DATE 7-17-2020
START TIME 0948	END TIME 1130
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____	WELL INTEGRITY YES NO N/A CAP CASING ☒ ☐ ☐ LOCKED COLLAR ☒ ☐ ☐
TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☒ 5/8 ☐ OTHER _____	
MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____	
INITIAL DTW (BMP) 8.89 FT	FINAL DTW (BMP) 9.38 FT
WELL DEPTH (BMP) 24.1 FT	SCREEN LENGTH 10 FT
WATER COLUMN 15.2 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) -1.92 GAL
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 2.49 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL) 3.12 GAL
PROT. CASING STICKUP (AGS) 0 FT	PID AMBIENT AIR - PPM
PID WELL MOUTH - PPM	DISCHARGE TIMER SETTING - SEC
DRAWDOWN/ TOTAL PURGED 0.62 PSI	PRESSURE TO PUMP - PSI
TOC/TOR DIFFERENCE 0.30 FT	REFILL TIMER SETTING - SEC

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
0950	BEGIN PURGING									
1000	9.50	200	13.51	0.886	7.12	1.82	17.3	63.1	~22	
1010	9.50	200	13.49	0.981	7.13	0.57	6.64	12.0	~22	
1015	9.50	160	13.65	1.011	7.15	0.72	9.76	9.5	~22	
1020	9.34	160	13.74	1.029	7.16	0.74	5.22	11.2	~22	
1025	9.31	160	13.77	1.044	7.16	0.80	2.04	14.9	~22	
1030	9.39	160	13.62	1.060	7.16	0.92	1.88	17.8	~22	
1035	9.38	160	13.61	1.066	7.16	0.96	2.46	19.2	~22	
1040	9.39	160	13.63	1.091	7.16	1.63	2.99	15.8	~22	
1045	9.39	160	13.57	1.098	7.17	1.73	3.04	16.3	~22	
1050	9.39	160	13.55	1.098	7.17	1.77	5.57	16.7	~22	
1055	9.39	160	13.50	1.110	7.17	1.89	2.09	19.4	~22	
1100	9.38	160	13.50	1.112	7.18	1.90	1.24	19.0	~22	
1105	9.38	160	13.52	1.115	7.17	1.92	3.79	20.0	~22	
1110	SAMPLED									

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

14 1.12 7.2 2.0 3.8 -20

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.096 = 0.096)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.31 = 3.3)
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 ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER DEDICATED	TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☒ WL METER 11003-79 ☒ PID ☒ WQ METER 11015-05 ☒ TURB. METER 11024-27 ☒ PUMP 8008-44 ☐ OTHER ☐ FILTERS NO. _____ TYPE _____
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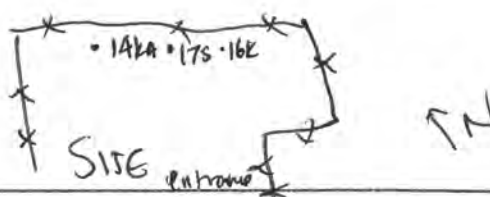
ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE NUMBERS
☒ VOCs	8260B	NO	HCl, 4°C	3x50	YES	YES	828103-MW14KA022 3

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED	☒ YES ☐ NO	NUMBER OF GALLONS GENERATED ~3.5 If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.
NO-PURGE METHOD UTILIZED	☐ YES ☒ NO	

SKETCH/NOTES



Sampler Signature: *M. Brunio* Print Name: **M. BRUNIO**
 Checked By: *Jerry Ruffolo* Date: **7/20/20**

[illegible]

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW15K022	SAMPLE TIME 1810

LOCATION ID MW-15K	DATE 7-15-2020
START TIME 1630	END TIME 1830
SITE NAME/NUMBER 828103	PAGE 1 OF 1

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

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MF) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP) 9.86 FT	FINAL DTW (BMP) 10.11 FT	PROT. CASING STICKUP (ACS) 0 FT	TOC/TOR DIFFERENCE 0.2 FT
WELL DEPTH (BMP) 24.95 FT	SCREEN LENGTH 10 FT	PID AMBIENT AIR - PPM	REFILL TIMER SETTING - SEC
WATER COLUMN 15.09 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) -0.041 GAL	PID WELL MOUTH - PPM	DISCHARGE TIMER SETTING - SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 2.47 GAL	TOTAL VOL. PURGED 3.16 GAL	DRAWDOWN/ TOTAL PURGED -0.013	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 R 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
1638	BEGIN PURGING									
1650	10.14	140	18.40	0.872	7.47	0.39	4.35	45.2	~22	
1655	10.12	125	18.12	0.874	7.43	0.22	9.38	30.7	~22	
1700	10.11	140	18.89	0.879	7.44	0.24	5.81	28.8	~22	
1705	10.10	125	18.81	0.883	7.42	0.21	4.22	23.7	~22	
1710	10.13	160	18.00	0.888	7.41	0.21	9.30	10.9	~22	
1715	10.12	140	18.20	0.887	7.40	0.19	11.30	1.8	~22	
1720	10.12	140	18.51	0.896	7.39	0.17	9.08	-20.5	~22	
1725	10.12	140	18.30	0.927	7.33	0.17	9.24	-30.2	~22	
1730	10.12	150	17.55	1.199	7.16	0.19	3.56	-40.3	~22	
1735	10.12	150	17.51	1.240	7.16	0.20	2.15	-44.0	~22	
1740	10.11	150	17.73	1.258	7.15	0.23	1.24	-45.9	~22	
1745	10.11	140	17.59	1.288	7.15	0.25	2.87	-44.7	~22	
1750	10.11	140	17.49	1.088	7.15	0.33	1.84	-43.0	~22	
1755	10.11	150	17.71	1.301	7.15	0.77	0.82	-45.2	~22	
1800	10.11	150	17.83	1.297	7.15	0.81	0.81	-46.5	~22	
1805	10.11	150	18.04	1.298	7.15	0.79	3.80	-44.0	~22	

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

18 1.30 7.2 0.8 3.8 -44

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. 3.31 = 3.3)
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 ☐ WAITER ☐ 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	EQUIPMENT USED ☒ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GYROSCOPE SCREEN ☐ TEFLO BLADDER ☐ OTHER ☐ OTHER
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOCs	82600B	NO	HCl, 4°C	3x50	YES	NO	828103-MW15K022

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED ~3.5

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

SKETCH/NOTES

HAVING TROUBLE w/ PUMP CONSISTENCY
15K x 155 S. CLINTON
GATE SITE

Sampler Signature: M. Bruno Print Name: M. BRUNO
Checked By: Jerry Paul Date: 7/20/20

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW165010	SAMPLE TIME 1320

LOCATION ID MW-165	DATE 7/12/20
START TIME 0805	END TIME 1325
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____	WELL INTEGRITY YES NO N/A
TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____	CAP ☒ YES ☐ NO ☐ N/A
MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____	CASING ☒ YES ☐ NO ☐ N/A
INITIAL DTW (BMP) 7.77 FT	LOCKED ☒ YES ☐ NO ☐ N/A
FINAL DTW (BMP) 15.2 FT	COLLAR ☒ YES ☐ NO ☐ N/A
WELL DEPTH (BMP) 15.2 FT	TOC/TOR DIFFERENCE 0.14 FT
SCREEN LENGTH 10 FT	REFILL TIMER SETTING _____ SEC
WATER COLUMN 7.43 FT	DISCHARGE TIMER SETTING _____ SEC
DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) _____ GAL	PRESSURE TO PUMP _____ PSI
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 1.2 GAL	
TOTAL VOL. PURGED 3.0 GAL	
(mL per minute X total minutes X 0.00026 gal/mL)	

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
0818	BEGIN PURGING									
0825	9.02	185	14.2	1.084	7.2	1.6	5.4	158		
0830	9.34	135	14.1	1.080	7.2	1.1	4.9	150		
0840	10.15	140	14.1	1.076	7.3	0.9	6.1	141		
0845	10.46	140	14.1	1.074	7.3	1.0	8.1	138		
0850	10.82	140	14.0	1.073	7.3	1.1	7.8	135		
0855	11.19	135	14.0	1.072	7.3	1.2	7.7	132		
0900	11.53	140	14.1	1.071	7.3	1.3	7.0	131		
0905	11.85	140	14.1	1.074	7.3	1.5	5.6	128		
0910	12.21	140	14.0	1.076	7.3	1.7	4.6	126		2 Gallons purged
0915	12.52	140	14.0	1.075	7.3	1.6	5.0	125		
0920	12.85	140	14.0	1.073	7.3	1.5	5.7	123		
0930	15.2	Increased rate to purge dry. Will collect grab sample of recharge								
		Purged Dry								
1315	8.53	Collected grab sample of recharge								
1320	8.53	Collected grab sample of recharge								

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

14 1.07 7.3 1.5 5.7 120

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 ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER Dedicated	TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☒ WL METER Herou ☐ PID ☒ WQ METER YS2 556 mps ☒ TURB. METER HACH 2100-2 ☒ PUMP Geopump ☐ OTHER ☐ FILTERS NO. _____ TYPE _____
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ANALYTICAL PARAMETERS

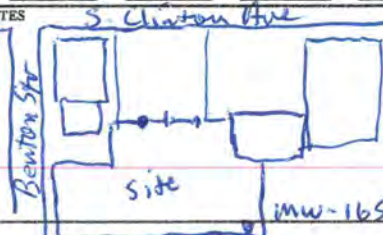
PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE NUMBERS
VOCs	8260C	N	4°C/HE1	3x40ml			3

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO	NUMBER OF GALLONS GENERATED 3.0
NO-PURGE METHOD UTILIZED ☐ YES ☒ NO	If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

Sampler Signature: **Jerry Rawcliffe** Print Name: **Jerry Rawcliffe**
 Checked By: **[Signature]** Date: **7/12/20**

SKETCH/NOTES



LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW16K022	SAMPLE TIME 1725

LOCATION ID MW-16K	DATE 7-16-2020
START TIME 1555	END TIME 1735
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER	WELL INTEGRITY YES NO N/A
TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER	CAP ☒ YES ☐ NO ☐ N/A
MEASUREMENT POINT (MF) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER	CASING LOCKED ☒ YES ☐ NO ☐ N/A
INITIAL DTW (BMP) 9.02 FT	TOC/TOR DIFFERENCE 0.42 FT
FINAL DTW (BMP) 9.05 FT	REFILL TIMER SETTING - SEC
WELL DEPTH (BMP) 25.0 FT	DISCHARGE TIMER SETTING - SEC
SCREEN LENGTH 5 FT	PRESSURE TO PUMP - PSI
WATER COLUMN 15.98 FT	
DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) 0.005 GAL	
CALCULATED GALVOL 26.21 GAL	
TOTAL VOL. PURGED 3.64 GAL	
DRAWDOWN/ TOTAL PURGED 0.001	

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 R Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (nS/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
1605	BEGIN PURGING									
1615	9.00	200	14.23	0.714	7.35	2.25	14.5	0.1	~23	↑ H ₂ O TURN SPEED UP
1625	9.03	200	13.95	1.122	7.13	1.55	9.25	-17.6	~23	
1630	9.03	200	14.03	1.284	7.13	1.42	3.66	-18.6	~23	
1635	9.05	200	13.92	1.362	7.13	2.45	2.20	-18.9	~23	
1640	9.05	200	13.96	1.382	7.13	5.79	4.85	-29.0	~23	
1645	9.05	200	16.12	0.992	6.97	4.79	1.21	18.0	~23	*see note
1650	9.06	200	13.83	1.357	7.14	7.19	2.34	-14.8	~23	
1655	9.05	200	13.78	1.362	7.14	7.11	1.81	-13.9	~23	
1700	9.05	200	13.84	1.374	7.14	6.67	1.50	-12.7	~23	
1705	9.05	200	1418	1.375	7.15	6.45	1.40	-13.3	~23	
1710	9.05	200	14.39	1.370	7.15	6.40	1.21	-13.3	~23	
1715	9.05	200	14.23	1.374	7.15	6.44	2.04	-11.7	~23	
1720	9.05	200	14.36	1.377	7.16	6.45	1.89	-11.4	~23	
1725	SAMPLE									

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

14 1.38 7.2 6.5 1.9 -11

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. 3.31 = 3.3)
TURB: 3 SF max, nearest tenth (ex. 6.19 = 6.2, 101 = 101)
ORP: 2 SF (ex. 44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERA ☐ 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	EQUIPMENT USED WL METER 11823-79 PID WQ METER 11015-03 TURB. METER 11024-27 PUMP 51058-49 OTHER FILTERS NO. TYPE
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOCs	82606	NO	HCL, 4°C	3x50	YES	N/A	828103-MW16K022

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED	YES ☒ NO ☐	NUMBER OF GALLONS GENERATED	~2.8
NO-PURGE METHOD UTILIZED	YES ☐ NO ☒	If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.	

SKETCH/NOTES

1645 - temp. pump shut off to adjust set up so it remained dry.

Sampler Signature: M.B. Bruno
Print Name: M.B. BRUNO

Checked By: Jerry Ruff
Date: 7/20/20

LOW FLOW GROUNDWATER SAMPLING RECORD

LOW FLOW GROUNDWATER SAMPLING RECORD

LOCATION ID MW-185	DATE 7/16/20
START TIME 1300	END TIME 1500
SITE NAME/NUMBER 828103	PAGE 1 OF 1

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

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

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

WELL INTEGRITY			
	YES	NO	N/A
G	☒	☐	☐
D	☒	☐	☐
R	☒	☐	☐

INITIAL DTW (BMP)	7.80 FT	FINAL DTW (BMP)	8.25 FT	PROT. CASING STICKUP (AGS)	0 FT	TOC/TOR DIFFERENCE	0.24 FT
WELL DEPTH (BMP)	14.95 FT	SCREEN LENGTH	10 FT	PID AMBIENT AIR	— PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	7.1 FT	DRAWDOWN VOLUME (initial DTW- final DTW X well diam. squared X 0.041)	1.07 GAL	PID WELL MOUTH	— PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.1 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.7 GAL	DRAWDOWN/ TOTAL PURGED	1.027	PRESSURE TO PUMP	— PSI

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

[illegible]**FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SFI])**

TEMP.: nearest tenth (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)

16	1.02	7.0	3.0	2.9	73
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EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DEION FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒	PERISTALTIC	☐	LQUINOX	☒	SILICON TUBING	☒	WL METER
☐	SUBMERSIBLE	☐	DEIONIZED WATER	☐	TEFLON TUBING	☐	PID
☐	BLADDER	☐	POTABLE WATER	☐	TEFLON LINED TUBING	☒	WQ METER
		☐	NITRIC ACID	☒	HDPE TUBING	☒	TURB. METER
		☐	HEXANE	☐	LDPE TUBING	☒	PUMP
☐	WATTERA	☐	METHANOL	☐	OTHER	☐	OTHER
☐	OTHER	☒	OTHER	☐	OTHER	☐	FILTERS
☐	OTHER	☒	OTHER	☐	OTHER	☐	NO.
							TYPE

ANALYTICAL PARAMETERS

QUALITY CONTROL PARAMETERS								
	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE NUMBERS
1	VOLs	8260C	N	4°C/HCL	3140ml			3
2								
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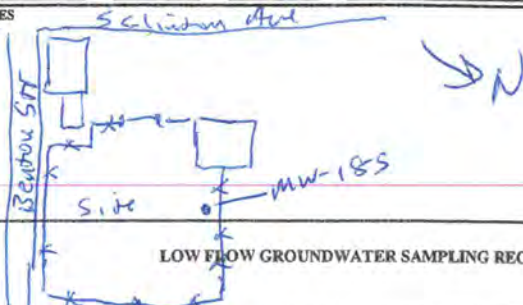
PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO NUMBER OF GALLONS GENERATED 2.7

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO If yes, purged approximately 1 standing volume prior to sampling or _____ mL, for this sample location.

Jerry Rawcliffe
 Sampler Signature: *[Signature]* Print Name: Jerry Rawcliffe
 Checked By: *[Signature]* Date: 7/12/20

SKETCH/NOTES



LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW195010	SAMPLE TIME 0741

LOCATION ID MW-195	DATE 7-16-20 → 7-17-2020
START TIME 1400	END TIME 0803
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____	WELL INTEGRITY YES NO N/A CAP _____ CASING _____ LOCKED _____ COLLAR _____
TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☒ 5/8 ☐ OTHER _____	
MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____	
INITIAL DTW (BMP) 7.04 FT	FINAL DTW (BMP) 15.00 FT
WELL DEPTH (BMP) 15 FT	SCREEN LENGTH 10 FT
WATER COLUMN 6.96 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) _____ GAL
CALCULATED GAL/VOL 1.14 GAL (column X well diameter squared X 0.041)	TOTAL VOL. PURGED _____ GAL (mL per minute X total minutes X 0.00026 gal/mL)
PROT. CASING STICKUP (AGS) 0 FT	PID AMBIENT AIR _____ PPM
PID WELL MOUTH _____ PPM	DISCHARGE TIMER SETTING _____ SEC
DRAWDOWN/ TOTAL PURGED _____	PRESSURE TO PUMP _____ PSI
TOC/TOR DIFFERENCE 0.15 FT	REFILL TIMER SETTING _____ SEC

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
1420	BEGIN PURGING									
1430	8.74	100	16.77	0.990	6.87	0.69	31.8	-16.0	~14	↓ PUMP SPEED
1440	9.50	100	16.37	0.980	6.85	2.52	31.6	-23.5	~14	
1450	9.92	100	16.39	0.976	6.86	2.97	24.6	-23.3	~14	
1455	10.26	100	16.31	0.974	6.86	2.56	20.3	-20.0	~14	
1500	10.72	100	16.31	0.974	6.86	2.51	15.6	-17.6	~14	
1505	11.25	100	16.31	0.973	6.88	2.35	12.4	-15.5	~14	
1510	11.65	100	16.14	0.975	6.91	2.10	15.8	-18.0	~14	
1515	12.23	100	15.51	0.979	6.91	2.66	29.9	-12.1	~14	↑ SPEED SEE LOG
1520	13.01	350	16.12	0.992	6.97	3.25	32.5	-18.8	~14	DO = 4.79, VRB = 32.5
1525	14.09	350	15.22	0.999	7.03	5.20	28.8	-22.0	~14	
0741	5.58	COLLECT	GRAB SAMPLE	FROM	RECHARGE.					

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

15 1.00 7.0 5.2 28.8 -22

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.33 = 5.3)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB.: 1 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION		EQUIPMENT USED	
TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER DEDICATED	TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☒ WL METER M003-79 ☒ PID ☒ WQ METER M015-08 ☒ TURB. METER M024-27 ☒ PUMP 5008-44 ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOCs	8260B	NO	HCl, 4°C	3x50	YES	NO	828103-MW195010

PURGE OBSERVATIONS	NUMBER OF GALLONS GENERATED
PURGE WATER CONTAINERIZED ☒ YES ☐ NO	25
NO-PURGE METHOD UTILIZED ☐ YES ☒ NO	If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: *[Signature]* Print Name: M. BRUND
Checked By: *[Signature]* Date: 7/20/20

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW205010	SAMPLE TIME 1050

LOCATION ID MW-205	DATE 7/17/20
START TIME 0940	END TIME 1055
SITE NAME/NUMBER 828103	PAGE 1 OF 1

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

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

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

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP) 6.22 FT	FINAL DTW (BMP) 8.62 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.22 FT
WELL DEPTH (BMP) 14.95 FT	SCREEN LENGTH 10 FT	PID AMBIENT AIR — PPM	REFILL TIMER SETTING — SEC
WATER COLUMN 8.73 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) 0.38 GAL	PID WELL MOUTH — PPM	DISCHARGE TIMER SETTING — SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 1.4 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL) 2.3 GAL	DRAWDOWN/ TOTAL PURGED 0.17	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
0945	BEGIN PURGING									
0955	6.74	155	16.2	1.334	7.1	1.4	6.6	134		Pump at lowest setting
1000	6.92	155	16.3	1.119	7.1	2.3	10.4	127		
1010	7.25	150	16.3	0.798	7.2	5.3	13.9	121		
1015	7.44	155	16.4	0.727	7.2	5.7	12.8	120		
1020	7.58	150	16.3	0.706	7.2	5.7	11.0	120		
1025	7.75	155	16.3	0.693	7.2	5.9	9.3	119		
1030	7.98	155	16.2	0.690	7.2	6.1	8.5	119		
1035	8.35	155	16.2	0.688	7.2	6.1	7.0	118		
1040	8.49	160	16.2	0.688	7.3	6.1	7.7	116		
1045	8.62	155	16.2	0.690	7.2	6.1	8.6	116		

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

16 0.690 7.2 6.1 8.6 120

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 ☐ WATERA ☐ 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	EQUIPMENT USED ☒ WL METER <u>Heron</u> ☐ PID ☒ WQ METER <u>4SF 556 mps</u> ☒ TURB. METER <u>Hatch 21002</u> ☒ PUMP <u>Geopump</u> ☐ OTHER ☐ FILTERS NO. _____ TYPE _____
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE NUMBERS
☒ VOL	8260C	N	4°C/1Hr	3x40ul	—	—	5

PURGE OBSERVATIONS

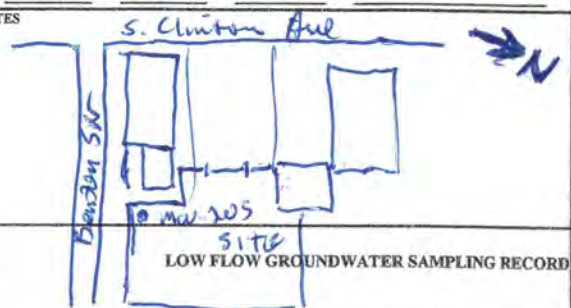
PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 2.3

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

SKETCH/NOTES



Sampler Signature: Jerry Rawcliffe

Print Name: Jerry Rawcliffe

Checked By: Whitney Gung

Date: 7/22/20

LOW FLOW GROUNDWATER SAMPLING RECORD											
PROJECT NAME Dinaburg Distributing OU2 RI					LOCATION ID MW-215		DATE 7/16/20				
PROJECT NUMBER 3617187420					START TIME 1025		END TIME 1245				
SAMPLE ID 828103+MW215010				SAMPLE TIME 1235		SITE NAME/NUMBER 828103		PAGE 1 OF 1			
WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER stainless steel							WELL INTEGRITY YES NO N/A				
TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____							CAP ☒ CASING ☒ LOCKED ☒ COLLAR ☒				
MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____											
INITIAL DTW (BMP) 7.13 FT		FINAL DTW (BMP) 12.74 FT		PROT. CASING STICKUP (AGS) 0 FT		TOC/TOR DIFFERENCE 0.40 FT					
WELL DEPTH (BMP) 14.95 FT		SCREEN LENGTH 10 FT		PID AMBIENT AIR ____ PPM		REFILL TIMER SETTING ____ SEC					
WATER COLUMN 7.82 FT		DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) .90 GAL		PID WELL MOUTH ____ PPM		DISCHARGE TIMER SETTING ____ SEC					
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 1.25 GAL		TOTAL VOL. PURGED 4.5 GAL (mL per minute X total minutes X 0.00026 gal/mL)		DRAWDOWN/ TOTAL PURGED .20		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	
BEGIN PURGING											
1031	7.85	155	18.4	0.944	7.2	1.9	10.3	65		Ampet lowest setting Some iron flock	
1040	8.50	165	12.5	0.945	7.1	1.5	12.6	81			
1050	8.72	140	12.4	0.948	7.2	1.4	10.6	87			
1100	9.01	145	12.8	0.957	7.1	1.4	12.9	92			
1105	9.26	145	12.9	0.967	7.1	1.4	10.5	95			
1110	9.52	155	12.6	0.971	7.1	1.4	9.7	86			
1115	9.75	155	12.5	0.976	7.1	1.3	8.1	58			
1120	9.98	155	12.5	0.971	7.1	1.3	7.4	42			
1125	10.27	150	12.5	0.959	7.2	1.1	3.9	17			
1130	10.46	150	12.4	0.929	7.2	1.0	2.6	-8			
1140	10.48	135	12.4	0.906	7.3	0.9	2.6	-31			
1150	11.33	140	12.4	0.898	7.3	0.9	1.8	-43			
1200	11.70	145	12.4	0.893	7.3	0.8	1.9	-49	Winter has organic odor		
1210	12.08	145	12.4	0.890	7.3	1.0	3.1	-58			
1215	12.25	145	12.4	0.888	7.3	0.8	2.2	-62			
1220	12.44	145	12.2	0.886	7.3	0.8	3.1	-64			
1225	12.60	145	12.2	0.886	7.3	0.8	2.5	-63			
1230	12.74	145	12.2	0.885	7.3	0.8	3.6	-58			
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 (5.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)	
		17	0.885	7.3	0.8	3.6	-58				
EQUIPMENT DOCUMENTATION											
TYPE OF PUMP			DECON FLUIDS USED			TUBING/PUMP/BLENDER MATERIALS			EQUIPMENT USED		
☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER			☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER Decontrol			☒ 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 _____		
☐ WATTEKA ☐ OTHER _____ ☐ OTHER _____									☒ WL METER Heron ☐ PID ☒ WQ METER 75P5SG MP5 ☒ TURB. METER 174CH2100Q ☒ PUMP Geopump ☐ OTHER _____ ☐ FILTERS NO. ____ TYPE ____		
ANALYTICAL PARAMETERS											
PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE NUMBERS				
X VOCs	8260C										

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 829103-P2225-010	SAMPLE TIME 1500

LOCATION ID P2-225	DATE 7/15/20
START TIME 1220	END TIME 1510
SITE NAME/NUMBER 828103	PAGE 1 OF 1

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

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER 20

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

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP) 6.88 FT	FINAL DTW (BMP) 13.7 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.40 FT
WELL DEPTH (BMP) 13.7 FT	SCREEN LENGTH 10 FT	PID AMBIENT AIR — PPM	REFILL TIMER SETTING — SEC
WATER COLUMN 6.82 FT	DRAWDOWN VOLUME (initial DTW - final 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) 0.28 GAL	TOTAL VOL. PURGED 2.2 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
1240	BEGIN PURGING									
1245	7.74	145	15.8	0.808	7.0	3.3	690	159		Pump at lowest setting.
1250	7.86	145	15.5	0.792	7.0	2.9	760	154		
1255	8.05	145	15.5	0.795	7.0	2.6	450	147		
1300	8.31	145	15.4	0.797	7.0	2.0	290	142		
1310	10.24	140	15.3	0.793	7.1	1.1	680	136		
1320	11.42	110	15.2	0.791	7.1	1.1	180	129		
1330	12.35	130	15.0	0.786	7.1	1.3	75	125		
1335	12.63	135	14.8	0.786	7.1	1.0	390	121		
1340	12.71	130	14.6	0.786	7.1	0.8	180	118		
Well will go dry before stabilization or 2 hour purge limit - Increased rate and purged well dry. Will collect grab sample of recharge.										
1455	7.81									
1500										Collected grab sample of recharge.

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

15 0.786 7.1 0.8 180 120

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 ☐ SUBMERSIBLE ☐ BLADDER	☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER <u>Deionized</u>	☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☒ LDPE TUBING ☐ OTHER _____	☒ WL METER <u>Heron</u> ☐ PID ☒ WQ METER <u>YSI 536 MP</u> ☒ TURB. METER <u>HACH 2100 Q</u> ☒ PUMP <u>Cen pumps</u> ☐ OTHER _____ FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE NUMBERS
☒ VOLs	8260C	N	40C/HCL	3x40ml	4	—	3

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 2.2

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

SKETCH/NOTES



Sampler Signature: [Signature]

Print Name: Terry Rawls

Checked By: [Signature]

Date: 7/15/20

[illegible]

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW23K025	SAMPLE TIME 1650

LOCATION ID MW23K	DATE 7-14-2020
START TIME 1530	END TIME 1700
SITE NAME/NUMBER 828103	PAGE 1 OF 1

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

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

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

WELL INTEGRITY
YES NO N/A

CAP _____

CASING _____

LOCKED _____

COLLAR _____

INITIAL DTW (BMP) 8.70 FT	FINAL DTW (BMP) 8.71 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.77 FT
WELL DEPTH (BMP) 30.29 FT	SCREEN LENGTH 10 FT	PID AMBIENT AIR _____ PPM	REFILL TIMER SETTING _____ SEC
WATER COLUMN 21.54 FT	DRAWDOWN VOLUME +0.002 GAL (initial DTW - final DTW X well diam. squared X 0.041)	PID WELL MOUTH _____ PPM	DISCHARGE TIMER SETTING _____ SEC
CALCULATED GAL/VOL 3.53 GAL (column X well diameter squared X 0.041)	TOTAL VOL. PURGED 2.37 GAL (mL per minute X total minutes X 0.00026 gal/mL)	DRAWDOWN/ TOTAL PURGED +0.001	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									
1550	8.71	180	16.66	1.177	6.85	0.56	72.7	34.8	~25	DECREASE PUMP SPEED
1555	8.71	150	17.03	1.173	6.88	0.22	32.7	1.0	~25	DECREASE PUMP SPEED
1600	8.71	140	17.41	1.192	6.93	0.15	26.1	-12.7	~25	
1605	8.71	140	17.65	1.198	6.94	0.15	19.2	-13.9	~25	
1610	8.71	140	17.82	1.202	6.95	0.18	13.0	-15.3	~25	
1615	8.71	140	17.89	1.212	6.96	0.23	9.40	-16.8	~25	
1620	8.71	140	17.99	1.215	6.96	0.29	5.47	-17.9	~25	
1625	8.71	140	17.69	1.225	6.97	0.50	3.98	-19.2	~25	
1630	8.71	140	18.26	1.224	6.98	1.06	4.31	-20.5	~25	
1635	8.71	140	17.99	1.233	6.99	1.29	4.84	-22.1	~25	
1640	8.71	140	17.54	1.227	6.99	1.30	4.91	-23.6	~25	
1645	8.71	140	17.49	1.227	6.99	1.26	4.71	-24.4	~25	
1650	SAMPLE									

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

17 1.23 7.0 1.3 4.7 -24

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 ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☐ LIQUINOX ☒ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER Dedicated	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 M200-79 ☒ PID ☒ WQ METER M015-05 ☒ TURB. METER M124-27 ☒ PUMP Geopump ☐ OTHER ☐ FILTERS NO. _____ TYPE _____
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOCs	8260B	NO	HCl, 4°C	3x50	YES	NO	828103-MW23K025

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED **~2.4**

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

SKETCH/NOTES

PUMP UNABLE TO GO BELOW 140 AT 25' AND MAKE CONSISTENT WATER.

(SITE)

S. CLINTON

23K

Sampler Signature: **M.B.** Print Name: **M. BRUNO**

Checked By: **Jerry Ruffolo** Date: **7/20/20**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420 102	
SAMPLE ID 828103-PZ245010	SAMPLE TIME 1035

LOCATION ID PZ245	DATE 7-14-2020
START TIME 0810	END TIME 1045
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____	WELL INTEGRITY YES NO N/A CAP ☒ ☐ ☐ CASING ☒ ☐ ☐ LOCKED ☒ ☐ ☐ COLLAR ☒ ☐ ☐
TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____	
MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____	
INITIAL DTW (BMP) 7.63 FT	FINAL DTW (BMP) 10.90 FT
WELL DEPTH (BMP) 12.3 FT	SCREEN LENGTH 10 FT
WATER COLUMN 4.67 FT	DRAWDOWN VOLUME -0.134 GAL
CALCULATED GAL/VOL 0.192 GAL	TOTAL VOL. PURGED 0.78 GAL
PROT. CASING STICKUP (AGS) 0 FT	
PID AMBIENT AIR - PPM	
PID WELL MOUTH - PPM	
DRAWDOWN/ TOTAL PURGED -0.17 GAL	
TOC/TOR DIFFERENCE 0.41 FT	
REFILL TIMER SETTING - SEC	
DISCHARGE TIMER SETTING - SEC	
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	
0815	BEGIN PURGING									~10	
0820	11.93	100	16.2A	1.707	6.63	1.82	131	61.8	~12		
0825	12.90	100	16.38	1.699	6.67	1.94	129	12.1	~12		
	WELL	DRY	ALLOWING TO RECHARGE								
1025	8.51	100	17.20	1.705	6.99	2.02	120	-9.7	10		
1030	9.26	100	17.36	1.695	6.97	2.15	82.3	-17.4	10	MOVED INTERFACE	
1035	10.90	SAMPLE → GRAB SAMPLE									DOWN ~0.5'
	FINAL DTW AFTER SAMPLING WAS 11.10' bTOR										BETWEEN 10+11
											

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

17 1.70 7.0 2.2 82 -17

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 4333 = 4330, 9.698 = 9.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (ex. 6.2 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☒ METHANOL ☐ OTHER <i>Dedicated</i>	TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☒ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ OROPROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER ☐ OTHER	EQUIPMENT USED ☒ WL METER M200-79 ☐ PID ☒ WQ METER M015-05 ☒ TURB. METER M24-27 ☒ PUMP Geopump ☐ OTHER ☐ FILTERS NO TYPE
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE NUMBERS
VOCs	8260B	NO	HCl, 4°C	3x50	YES	NO	828103-PZ245010

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO	NUMBER OF GALLONS GENERATED ~0.8
NO-PURGE METHOD UTILIZED ☐ YES ☒ NO	If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location

SKETCH/NOTES

CAROUNIC

5' CIRCUM

1" SITE

Sampler Signature: *[Signature]* Print Name: **M. BRUNO**

Checked By: *[Signature]* Date: **7/20/20**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MW24K0250940	SAMPLE TIME 0940

LOCATION ID MW-24K	DATE 7-14-2020
START TIME 0830	END TIME 0945
SITE NAME/NUMBER 828103	PAGE 1 OF 1

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

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

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

WELL INTEGRITY
YES NO N/A

CAP ☒ ☐ ☐

CASING ☒ ☐ ☐

LOCKED ☒ ☐ ☐

COLLAR ☒ ☐ ☐

INITIAL DTW (BMP) 9.08 FT	FINAL DTW (BMP) 9.11 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.40 FT
WELL DEPTH (BMP) 27.9 FT	SCREEN LENGTH 10 FT	PID AMBIENT AIR - PPM	REFILL TIMER SETTING - SEC
WATER COLUMN 18.82 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) +0.005 GAL	PID WELL MOUTH - PPM	DISCHARGE TIMER SETTING - SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 3.09 GAL	TOTAL VOL. PURGED 2.171 GAL	DRAWDOWN/TOTAL PURGED +0.002	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
0835	BEGIN PURGING									
0840	9.10	160	15.34	1.399	6.89	0.83	17.4	29.1	~25	
0845	9.12	140	15.99	1.394	6.85	0.67	18.6	38.9	~25	
0850	9.11	130	15.46	1.393	6.83	0.78	18.5	42.7	~25	
0855	9.11	140	15.17	1.385	6.85	1.00	17.5	46.1	~25	
0900	9.11	140	15.17	1.383	6.86	1.54	16.9	48.6	~25	
0905	9.12	140	15.15	1.384	6.86	2.01	15.6	50.5	~25	
0910	9.11	130	15.42	1.378	6.88	2.33	14.1	52.0	~25	
0915	9.11	130	15.48	1.380	6.86	2.32	12.3	53.8	~25	
0920	9.11	140	15.48	1.385	6.88	2.31	11.9	53.7	~25	
0925	9.12	140	15.40	1.384	6.88	2.25	9.57	54.2	~25	
0930	9.11	140	15.52	1.383	6.87	2.22	9.80	53.4	~25	
0935	9.11	140	15.57	1.384	6.87	2.18	9.42	54.2	~25	
0940	COLLECT SAMPLE									

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

16 1.38 6.9 2.2 9.4 54

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 ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☒ DIETARY ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER Dietetic	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 M200-79 ☒ PID ☒ WQ METER M015-05 ☒ TURB. METER M24-27 ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOCs	8260B	NO	Hg, 4°C	3x50	YES	NO	828103-MW24K025

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED ~2.2

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

SKETCH/NOTES

HAD TROUBLE KEEPING PURGE RATE STABLE.

STORE

CAROLINE

S. CLINTON → N

SITE

Sampler Signature: M. Bruno Print Name: M. BRUNO

Checked By: Jerry B. B. Date: 7/20/20

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-GWE2021	SAMPLE TIME 1745

LOCATION ID GWE-2	DATE 7/16/20
START TIME 1520	END TIME 1755
SITE NAME/NUMBER 828103	PAGE 1 OF 1

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

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER **00**

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

WELL INTEGRITY

YES	NO	N/A
☒	☐	☐
☒	☐	☐
☒	☐	☐

INITIAL DTW (BMP) 8.98 FT	FINAL DTW (BMP) 9.91 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.42 FT
WELL DEPTH (BMP) 22.1 FT	SCREEN LENGTH UNK FT	PID AMBIENT AIR PPM	REFILL TIMER SETTING SEC
WATER COLUMN 13.12 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) .61 GAL	PID WELL MOUTH PPM	DISCHARGE TIMER SETTING SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 8.7 GAL	TOTAL VOL. PURGED 24.0 GAL	DRAWDOWN/ TOTAL PURGED .15	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
1532	BEGIN PURGING									
1540	9.51	180	16.7	1.565	7.5	6.6	2.1	—		
1551	9.53	140	17.3	1.573	7.5	6.3	2.2	84		
1600	9.72	165	16.6	1.572	7.5	6.0	1.6	82		
1610	9.83	150	16.9	1.569	7.5	5.5	1.3	81		
1615	9.87	150	16.8	1.570	7.5	5.5	1.8	81		
1620	9.89	150	16.6	1.571	7.5	5.3	1.7	81		
1625	9.89	160	17.0	1.571	7.5	5.2	0.7	81		Purge at lowest setting.
1630	9.94	160	16.5	1.576	7.4	5.2	0.9	82		
1635	9.98	165	16.3	1.575	7.4	5.0	1.0	82		
1640	Some thunder going to shelter in car while well purges									
1715	9.55	165	16.5	1.594	7.3	2.4	3.6	59		
1720	9.64	165	16.5	1.592	7.3	2.2	1.1	49		
1725	9.74	170	16.4	1.593	7.3	2.2	0.8	45		
1730	9.84	170	16.4	1.593	7.3	2.0	0.5	40		
1735	9.91	170	16.5	1.594	7.2	2.1	0.9	30		Purged for > 2 hours going to collect sample.

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

17 1.59 7.2 2.1 0.9 30

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 ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER Deionized	TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☒ WL METER Itoron ☐ PID ☒ WQ METER YS855GMP5 ☒ TURB. METER 1746112100W ☒ PUMP Geopump ☐ OTHER ☐ FILTERS NO. TYPE
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE NUMBERS
☒ VOC	8260C	N	4°C/100	3X40mL	Yes	—	

PURGE OBSERVATIONS

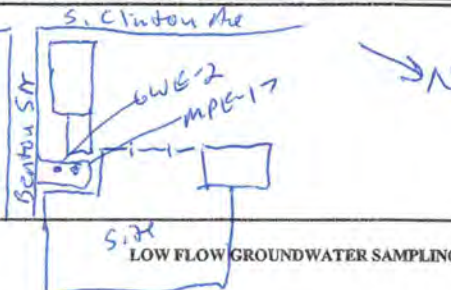
PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED **24.0**

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

SKETCH/NOTES



Sampler Signature: *Jerry Rawcliffe*

Print Name: *Jerry Rawcliffe*

Checked By: *W.H.H. King*

Date: **7/16/20**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Dinaburg Distributing OU2 RI	
PROJECT NUMBER 3617187420	
SAMPLE ID 828103-MPE17012	SAMPLE TIME 0955

LOCATION ID MPE-17	DATE 7/16/20
START TIME 0740	END TIME 1005
SITE NAME/NUMBER 828103	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ 8 ☐ OTHER	WELL INTEGRITY YES NO N/A
TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER 00	CAP ☒ YES ☐ NO ☐ N/A
MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER	CASING ☒ YES ☐ NO ☐ N/A
INITIAL DTW (BMP) 5.36 FT	LOCKED ☒ YES ☐ NO ☐ N/A
FINAL DTW (BMP) 7.52 FT	COLLAR ☒ YES ☐ NO ☐ N/A
WELL DEPTH (BMP) 13.2 FT	TOC/TOR DIFFERENCE 0.58 FT
SCREEN LENGTH UNK FT	REFILL TIMER SETTING — SEC
WATER COLUMN 7.94 FT	DISCHARGE TIMER SETTING — SEC
DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) 1.4 GAL	PRESSURE TO PUMP — PSI
TOTAL VOL. PURGED 3.0 GAL	
PROT. CASING STICKUP (AGS) 0 FT	
PID AMBIENT AIR — PPM	
PID WELL MOUTH — PPM	
DRAWDOWN/ TOTAL PURGED 0.40	

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
0752	BEGIN PURGING									
0800	5.80	95	18.3	1.084	7.2	3.4	1.4	138		Pump at / lowest setting.
0820	5.96	115	18.2	0.962	7.2	4.2	1.7	130		
0825	6.02	110	18.2	0.935	7.2	4.4	1.5	128		
0830	6.10	90	18.3	0.911	7.2	4.4	1.2	125		Drawdown volume vs purge volume indicates recharge is ± 1/2 of purging rate will not get 5x drawdown before going dry. Will purge for 2 hours and collect grab sample
0835	6.21	100	18.5	0.893	7.2	4.5	1.4	123		
0840	6.27	110	18.4	0.879	7.2	5.0	1.3	122		
0845	6.43	115	18.4	0.868	7.2	5.3	1.5	121		
0850	6.53	120	18.4	0.860	7.2	5.2	1.4	120		
0900	6.73	120	18.3	0.849	7.1	5.2	1.7	119		
0910	6.87	120	18.3	0.841	7.2	5.2	1.7	118		
0920	7.01	120	18.4	0.835	7.1	5.3	2.5	118		
0930	7.16	110	18.4	0.825	7.1	5.4	2.5	118		
0935	7.23	110	18.4	0.826	7.1	5.2	2.1	119		
0940	7.34	120	18.5	0.825	7.1	5.4	2.1	117		Soft muddy bottom.
0945	7.42	120	18.4	0.826	7.1	5.2	3.4	116		
0950	7.52	125	18.3	0.825	7.1	5.0	2.0	116		

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

18 0.825 7.1 5.0 2.0 120

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.33 = 5.3)
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 ☐ WATERA ☐ OTHER ☐ OTHER	DECON FLUIDS USED ☐ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER <u>Dedicated</u>	TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER	EQUIPMENT USED ☒ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER ☐ OTHER	EQUIPMENT USED ☒ WL METER <u>Herein</u> ☐ PID ☒ WQ METER <u>YSI 556 MPS</u> ☒ TURB. METER <u>1440 21220</u> ☒ PUMP <u>Geopump</u> ☐ OTHER ☐ FILTERS NO. TYPE
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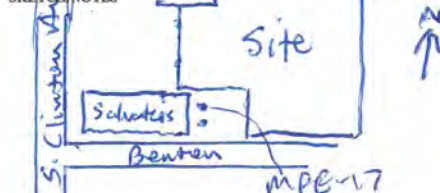
ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE NUMBERS
☒ VOC	8260C	N	4040C	3x400ul	Y/S	—	3

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO	NUMBER OF GALLONS GENERATED 3.6
NO-PURGE METHOD UTILIZED ☐ YES ☒ NO	If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sample Signature

Checked By

Print Name

Date

ATTACHMENT 2

DATA USABILILTY SUMMARY REPORT

**DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK**

1.0 INTRODUCTION

Groundwater samples were collected at the Dinaburg Distributing, Inc., Operable Unit 2 Site in July 2020 and submitted to Test America Laboratories (TAL-BUF) located in Amherst, New York, for analysis. Samples included in this review were analyzed by the following method:

- Volatile Organic Compounds (VOCs) by Method SW8260C

Results were reported in the following sample delivery groups (SDGs):

- 480-172474-1
- 480-172646-1

A Data Usability Summary Report (DUSR) review was completed based on the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation guidance (NYSDEC, 2010). Sample event information included in this DUSR is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results

Laboratory deliverables included:

- Category B deliverables as defined in the NYSDEC Analytical Services Protocols (NYSDEC, 2005).

The DUSR review included the following evaluations. A table of the project control limits is presented in Attachment A. Applicable laboratory quality control (QC) summary forms are included in Attachment B to document QC outliers associated with qualification actions.

- Lab Report Narrative Review
- Data Package Completeness and COC Records (Table 1 verification)
- Sample Collection and Holding Times
- Instrument Calibration (report narrative/lab-qualifier evaluation)
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD)
- Field Duplicates
- Target Analyte Identification and Quantitation
- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

Data qualification actions are applied when necessary based on general procedures in USEPA validation guidelines (USEPA, 2016) and the judgment of the project chemist. The following laboratory or data review qualifiers are used in the final data presentation:

U = target analyte is not detected above the reported detection limit or was qualified not detected

J = concentration is estimated

Results are interpreted to be usable as reported by the laboratory or as qualified in the following sections.

2.0 POTENTIAL DATA LIMITATIONS

Based on the DUSR review the data meet the data quality objectives, and no potential limitations were identified. Samples results are usable as reported by the laboratory.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

Sample 828103-MW14KA022 and associated field duplicate 828103-MW14KA022D were recorded incorrectly on the chain of custody and logged into the laboratory and reported as 828103-MWKA022 and 828103-MWKA022D. The sample identifications were corrected during data validation.

A subset of samples was analyzed at dilutions due to high concentrations of target analytes. Reporting limits for non-detects are elevated.

There were no additional observations or quality control exceedances not specifically addressed above (Section 2.0). Sample results are usable as reported by the laboratory.

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; June 2005.

New York State Department of Environmental Conservation (NYSDEC), 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2016. "Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15"; HW-31, Revision 6; Hazardous Waste Support Section; September 2016.

Data Validator: Madison Dinsmore



August 13, 2020

Reviewed by: Julie Ricardi

A handwritten signature in black ink that reads "Julie Ricardi". The signature is written in a cursive style with a large, looped 'J' and a stylized 'R'.

August 14, 2020

Standard Table Notes:

Sample Type (QC Code)

FS – field sample
FD – field duplicate
TB – trip blank
EB – equipment blank
FB – field blank

Matrix

GW – ground water
BW – blank water
TW – tap water
SV – soil vapor
SED - sediment

Units

mg/L – milligrams per liter
ng/L – nanograms per liter
µg/L – micrograms per liter
mg/kg – milligrams per kilogram
µg/kg – micrograms per kilogram
µg/m³ – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit
J – estimated quantity
J+ - estimated quantity, biased high
J- - estimated quantity, biased low
R – data unusable

Fraction

T – total
D – dissolved
N – normal

Qualification Reason Codes

BL1 – method blank qualifier
BL2 – field or trip blank qualifier
CCV – continuing calibration verification recovery outside limits
CCV%D – continuing calibration verification percent difference exceeds goal
CCVRRF – continuing calibration relative response factor low
CI – chromatographic interference present
DCPD – dual column percent difference exceeds limit
E – result exceeds calibration range
FD – field duplicate precision goal exceeded
FP – false positive interference
HT – holding time for prep or analysis exceeded
HTG – holding time for prep or analysis grossly exceeded
ICV – initial calibration verification recovery outside limit
ICVRRF – initial calibration verification relative response factor low
ICVRSRSD – initial calibration verification % relative standard deviation exceeds goal
ISH – internal standard response greater than limit
ISL – internal standard response less than limit
LCSH – laboratory control sample recovery high
LCSL – laboratory control sample recovery low
LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded
LD – lab duplicate precision goal exceeded
MSH – matrix spike and/or MS duplicate recovery high
MSL – matrix spike and/or MS duplicate recovery low
MSRPD – matrix spike/duplicate relative % difference precision goal exceeded
N – analyte identification is not certain
PEM – performance evaluation mixture exceeds limit
PM – sample percent moisture exceeds EPA guideline
SD – serial dilution result exceeds percent difference limit
SP – sample preservation/collection does not meet method requirement
SSH – surrogate recovery high
SSL – surrogate recovery low
TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

Lab SDG	Location	Sample ID	Sample Date	Media	Analysis Method	SW8260C
					Method Class Fraction	VOCs N
					Qc Code	Param_Count
480-172474-1	MW-04	828103-MW040020	7/15/2020	GW	FS	51
480-172474-1	MW-05	828103-MW050020	7/14/2020	GW	FS	51
480-172474-1	MW-06	828103-MW06018	7/14/2020	GW	FS	51
480-172474-1	MW-08K	828103-MW08K	7/15/2020	GW	FS	51
480-172474-1	MW-08S	828103-MW08S011	7/15/2020	GW	FS	51
480-172474-1	MW-09K	828103-MW09K018	7/15/2020	GW	FS	51
480-172474-1	MW-09S	828103-MW09S012	7/15/2020	GW	FS	51
480-172474-1	MW-10K	828103-MW10K018	7/15/2020	GW	FS	51
480-172474-1	MW-10S	828103-MW10S012	7/14/2020	GW	FS	51
480-172474-1	MW-11S	828103-MW11S010	7/14/2020	GW	FS	51
480-172474-1	MW-12K	828103-MW12K018	7/14/2020	GW	FS	51
480-172474-1	MW-12S	828103-MW12S010	7/15/2020	GW	FS	51
480-172474-1	MW-12S	828103-MW12S010D	7/15/2020	GW	FD	51
480-172474-1	MW-13K	828103-MW13K018	7/14/2020	GW	FS	51
480-172474-1	MW-15K	828103-MW15K022	7/15/2020	GW	FS	51
480-172474-1	MW-15S	828103-MW15S010	7/15/2020	GW	FS	51
480-172474-1	MW-22K	828103-MW22K028	7/15/2020	GW	FS	51
480-172474-1	MW-23K	828103-MW23K025	7/14/2020	GW	FS	51
480-172474-1	MW-24K	828103-MW24K025	7/14/2020	GW	FS	51
480-172474-1	PZ-22S	828103-PZ22S010	7/15/2020	GW	FS	51
480-172474-1	PZ-24S	828103-PZ24S010	7/14/2020	GW	FS	51
480-172474-1	QC	828103-TRIPBLANK #1	7/14/2020	BW	TB	51
480-172646-1	GWE-2	828103-GWE2021	7/16/2020	GW	FS	51
480-172646-1	MPE-17	828103-MPE17012	7/16/2020	GW	FS	51
480-172646-1	MW-03A	828103-MW03A015	7/16/2020	GW	FS	51
480-172646-1	MW-03C	828103-MW03CA030	7/16/2020	GW	FS	51
480-172646-1	MW-03D	828103-MW03D50	7/16/2020	GW	FS	51
480-172646-1	MW-14K	828103-MW14KA022	7/17/2020	GW	FS	51
480-172646-1	MW-14K	828103-MW14KA022D	7/17/2020	GW	FD	51
480-172646-1	MW-16K	828103-MW16K022	7/16/2020	GW	FS	51
480-172646-1	MW-16S	828103-MW16S010	7/17/2020	GW	FS	51
480-172646-1	MW-17S	828103-MW17S010	7/17/2020	GW	FS	51
480-172646-1	MW-18S	828103-MW18S010	7/16/2020	GW	FS	51
480-172646-1	MW-19S	828103-MW19S010	7/17/2020	GW	FS	51
480-172646-1	MW-20S	828103-MW20S010	7/17/2020	GW	FS	51
480-172646-1	MW-21S	828103-MW21S010	7/16/2020	GW	FS	51
480-172646-1	QC	TRIP BLANK 2	7/15/2020	BW	TB	51

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	GWE-2		MPE-17		MW-03A	
		Lab SDG	480-172646-1		480-172646-1		480-172646-1	
		Sample Date	7/16/2020		7/16/2020		7/16/2020	
		Sample ID	828103-GWE2021		828103-MPE17012		828103-MW03A015	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	4	U	1	U	4	U
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	4	U	1	U	4	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	4	U	1	U	4	U
SW8260C	1,1,2-Trichloroethane	ug/l	4	U	1	U	4	U
SW8260C	1,1-Dichloroethane	ug/l	4.8		1	U	4	U
SW8260C	1,1-Dichloroethene	ug/l	2	J	1	U	4	U
SW8260C	1,2,3-Trichlorobenzene	ug/l	4	U	1	U	4	U
SW8260C	1,2,4-Trichlorobenzene	ug/l	4	U	1	U	4	U
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	4	U	1	U	4	U
SW8260C	1,2-Dibromoethane	ug/l	4	U	1	U	4	U
SW8260C	1,2-Dichlorobenzene	ug/l	4	U	1	U	4	U
SW8260C	1,2-Dichloroethane	ug/l	4	U	1	U	4	U
SW8260C	1,2-Dichloropropane	ug/l	4	U	1	U	4	U
SW8260C	1,3-Dichlorobenzene	ug/l	4	U	1	U	4	U
SW8260C	1,4-Dichlorobenzene	ug/l	4	U	1	U	4	U
SW8260C	1,4-Dioxane	ug/l	160	U	40	U	160	U
SW8260C	2-Butanone	ug/l	40	U	10	U	40	U
SW8260C	2-Hexanone	ug/l	20	U	5	U	20	U
SW8260C	4-Methyl-2-pentanone	ug/l	20	U	5	U	20	U
SW8260C	Acetic acid, methyl ester	ug/l	10	U	2.5	U	10	U
SW8260C	Acetone	ug/l	40	U	10	U	40	U
SW8260C	Benzene	ug/l	4	U	1	U	4	U
SW8260C	Bromochloromethane	ug/l	4	U	1	U	4	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	GWE-2		MPE-17		MW-03A	
		Lab SDG	480-172646-1		480-172646-1		480-172646-1	
		Sample Date	7/16/2020		7/16/2020		7/16/2020	
		Sample ID	828103-GWE2021		828103-MPE17012		828103-MW03A015	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Bromodichloromethane	ug/l	4	U	1	U	4	U
SW8260C	Bromoform	ug/l	4	U	1	U	4	U
SW8260C	Bromomethane	ug/l	4	U	1	U	4	U
SW8260C	Carbon disulfide	ug/l	4	U	1	U	4	U
SW8260C	Carbon tetrachloride	ug/l	4	U	1	U	4	U
SW8260C	Chlorobenzene	ug/l	4	U	1	U	4	U
SW8260C	Chloroethane	ug/l	4	U	1	U	4	U
SW8260C	Chloroform	ug/l	4	U	1	U	4	U
SW8260C	Chloromethane	ug/l	4	U	1	U	4	U
SW8260C	cis-1,2-Dichloroethene	ug/l	97		1	U	310	
SW8260C	cis-1,3-Dichloropropene	ug/l	4	U	1	U	4	U
SW8260C	Cyclohexane	ug/l	4	U	1	U	4	U
SW8260C	Dibromochloromethane	ug/l	4	U	1	U	4	U
SW8260C	Dichlorodifluoromethane	ug/l	4	U	1	U	4	U
SW8260C	Ethylbenzene	ug/l	4	U	1	U	4	U
SW8260C	Isopropylbenzene	ug/l	4	U	1	U	4	U
SW8260C	Methyl cyclohexane	ug/l	4	U	1	U	4	U
SW8260C	Methyl Tertbutyl Ether	ug/l	4	U	1	U	4	U
SW8260C	Methylene chloride	ug/l	4	U	1	U	4	U
SW8260C	Styrene	ug/l	4	U	1	U	4	U
SW8260C	Tetrachloroethene	ug/l	110		10		24	
SW8260C	Toluene	ug/l	4	U	1	U	4	U
SW8260C	trans-1,2-Dichloroethene	ug/l	4	U	1	U	4	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	GWE-2		MPE-17		MW-03A	
		Lab SDG	480-172646-1		480-172646-1		480-172646-1	
		Sample Date	7/16/2020		7/16/2020		7/16/2020	
		Sample ID	828103-GWE2021		828103-MPE17012		828103-MW03A015	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	trans-1,3-Dichloropropene	ug/l	4	U	1	U	4	U
SW8260C	Trichloroethene	ug/l	60		0.6	J	19	
SW8260C	Trichlorofluoromethane	ug/l	4	U	1	U	4	U
SW8260C	Vinyl chloride	ug/l	4	U	1	U	360	
SW8260C	Xylenes, Total	ug/l	8	U	2	U	8	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-03C		MW-03D		MW-04	
		Lab SDG	480-172646-1		480-172646-1		480-172474-1	
		Sample Date	7/16/2020		7/16/2020		7/15/2020	
		Sample ID	828103-MW03CA030		828103-MW03D50		828103-MW040020	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	5	U	1	U	1	U
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	5	U	1	U	1	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	5	U	1	U	1	U
SW8260C	1,1,2-Trichloroethane	ug/l	5	U	1	U	1	U
SW8260C	1,1-Dichloroethane	ug/l	5	U	1	U	1	U
SW8260C	1,1-Dichloroethene	ug/l	5	U	1	U	1	U
SW8260C	1,2,3-Trichlorobenzene	ug/l	5	U	1	U	1	U
SW8260C	1,2,4-Trichlorobenzene	ug/l	5	U	1	U	1	U
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	5	U	1	U	1	U
SW8260C	1,2-Dibromoethane	ug/l	5	U	1	U	1	U
SW8260C	1,2-Dichlorobenzene	ug/l	5	U	1	U	1	U
SW8260C	1,2-Dichloroethane	ug/l	5	U	1	U	1	U
SW8260C	1,2-Dichloropropane	ug/l	5	U	1	U	1	U
SW8260C	1,3-Dichlorobenzene	ug/l	5	U	1	U	1	U
SW8260C	1,4-Dichlorobenzene	ug/l	5	U	1	U	1	U
SW8260C	1,4-Dioxane	ug/l	200	U	40	U	40	U
SW8260C	2-Butanone	ug/l	50	U	10	U	10	U
SW8260C	2-Hexanone	ug/l	25	U	5	U	5	U
SW8260C	4-Methyl-2-pentanone	ug/l	25	U	5	U	5	U
SW8260C	Acetic acid, methyl ester	ug/l	13	U	2.5	U	2.5	U
SW8260C	Acetone	ug/l	50	U	10	U	10	U
SW8260C	Benzene	ug/l	5	U	1	U	1	U
SW8260C	Bromochloromethane	ug/l	5	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-03C		MW-03D		MW-04	
		Lab SDG	480-172646-1		480-172646-1		480-172474-1	
		Sample Date	7/16/2020		7/16/2020		7/15/2020	
		Sample ID	828103-MW03CA030		828103-MW03D50		828103-MW040020	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Bromodichloromethane	ug/l	5	U	1	U	1	U
SW8260C	Bromoform	ug/l	5	U	1	U	1	U
SW8260C	Bromomethane	ug/l	5	U	1	U	1	U
SW8260C	Carbon disulfide	ug/l	5	U	1	U	1	U
SW8260C	Carbon tetrachloride	ug/l	5	U	1	U	1	U
SW8260C	Chlorobenzene	ug/l	5	U	1	U	1	U
SW8260C	Chloroethane	ug/l	5	U	1	U	1	U
SW8260C	Chloroform	ug/l	5	U	1	U	1	U
SW8260C	Chloromethane	ug/l	5	U	1	U	1	U
SW8260C	cis-1,2-Dichloroethene	ug/l	260		12		1	U
SW8260C	cis-1,3-Dichloropropene	ug/l	5	U	1	U	1	U
SW8260C	Cyclohexane	ug/l	5	U	1	U	1	U
SW8260C	Dibromochloromethane	ug/l	5	U	1	U	1	U
SW8260C	Dichlorodifluoromethane	ug/l	5	U	1	U	1	U
SW8260C	Ethylbenzene	ug/l	5	U	1	U	1	U
SW8260C	Isopropylbenzene	ug/l	5	U	1	U	1	U
SW8260C	Methyl cyclohexane	ug/l	5	U	1	U	1	U
SW8260C	Methyl Tertbutyl Ether	ug/l	5	U	1	U	0.22	J
SW8260C	Methylene chloride	ug/l	5	U	1	U	1	U
SW8260C	Styrene	ug/l	5	U	1	U	1	U
SW8260C	Tetrachloroethene	ug/l	8.2		6.5		1	U
SW8260C	Toluene	ug/l	5	U	1	U	1	U
SW8260C	trans-1,2-Dichloroethene	ug/l	5	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-03C		MW-03D		MW-04	
		Lab SDG	480-172646-1		480-172646-1		480-172474-1	
		Sample Date	7/16/2020		7/16/2020		7/15/2020	
		Sample ID	828103-MW03CA030		828103-MW03D50		828103-MW040020	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	trans-1,3-Dichloropropene	ug/l	5	U	1	U	1	U
SW8260C	Trichloroethene	ug/l	11		14		1	U
SW8260C	Trichlorofluoromethane	ug/l	5	U	1	U	1	U
SW8260C	Vinyl chloride	ug/l	30		4.4		1	U
SW8260C	Xylenes, Total	ug/l	10	U	2	U	2	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-05		MW-06		MW-08K	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/14/2020		7/14/2020		7/15/2020	
		Sample ID	828103-MW050020		828103-MW06018		828103-MW08K	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	1	U	1	U	1	U
SW8260C	1,1,2-Trichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1-Dichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1-Dichloroethene	ug/l	1	U	1	U	1	U
SW8260C	1,2,3-Trichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2,4-Trichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dibromoethane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichloropropane	ug/l	1	U	1	U	1	U
SW8260C	1,3-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,4-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,4-Dioxane	ug/l	40	U	40	U	40	U
SW8260C	2-Butanone	ug/l	10	U	10	U	10	U
SW8260C	2-Hexanone	ug/l	5	U	5	U	5	U
SW8260C	4-Methyl-2-pentanone	ug/l	5	U	5	U	5	U
SW8260C	Acetic acid, methyl ester	ug/l	2.5	U	2.5	U	2.5	U
SW8260C	Acetone	ug/l	10	U	10	U	10	U
SW8260C	Benzene	ug/l	1	U	1	U	1	U
SW8260C	Bromochloromethane	ug/l	1	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-05		MW-06		MW-08K	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/14/2020		7/14/2020		7/15/2020	
		Sample ID	828103-MW050020		828103-MW06018		828103-MW08K	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Bromodichloromethane	ug/l	1	U	1	U	1	U
SW8260C	Bromoform	ug/l	1	U	1	U	1	U
SW8260C	Bromomethane	ug/l	1	U	1	U	1	U
SW8260C	Carbon disulfide	ug/l	1	U	1	U	1	U
SW8260C	Carbon tetrachloride	ug/l	1	U	1	U	1	U
SW8260C	Chlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	Chloroethane	ug/l	1	U	1	U	1	U
SW8260C	Chloroform	ug/l	1	U	1	U	1	U
SW8260C	Chloromethane	ug/l	1	U	1	U	1	U
SW8260C	cis-1,2-Dichloroethene	ug/l	1	U	12		1	U
SW8260C	cis-1,3-Dichloropropene	ug/l	1	U	1	U	1	U
SW8260C	Cyclohexane	ug/l	1	U	1	U	1	U
SW8260C	Dibromochloromethane	ug/l	1	U	1	U	1	U
SW8260C	Dichlorodifluoromethane	ug/l	1	U	1	U	1	U
SW8260C	Ethylbenzene	ug/l	1	U	1	U	1	U
SW8260C	Isopropylbenzene	ug/l	1	U	1	U	1	U
SW8260C	Methyl cyclohexane	ug/l	1	U	1	U	1	U
SW8260C	Methyl Tertbutyl Ether	ug/l	1	U	1	U	1	U
SW8260C	Methylene chloride	ug/l	1	U	1	U	1	U
SW8260C	Styrene	ug/l	1	U	1	U	1	U
SW8260C	Tetrachloroethene	ug/l	1	U	2.5		1	U
SW8260C	Toluene	ug/l	1	U	1	U	1	U
SW8260C	trans-1,2-Dichloroethene	ug/l	1	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-05		MW-06		MW-08K	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/14/2020		7/14/2020		7/15/2020	
		Sample ID	828103-MW050020		828103-MW06018		828103-MW08K	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	trans-1,3-Dichloropropene	ug/l	1	U	1	U	1	U
SW8260C	Trichloroethene	ug/l	1	U	5.1		1	U
SW8260C	Trichlorofluoromethane	ug/l	1	U	1	U	1	U
SW8260C	Vinyl chloride	ug/l	1	U	0.95	J	1	U
SW8260C	Xylenes, Total	ug/l	2	U	2	U	2	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-08S		MW-09K		MW-09S	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/15/2020		7/15/2020		7/15/2020	
		Sample ID	828103-MW08S011		828103-MW09K018		828103-MW09S012	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	1	U	1	U	1	U
SW8260C	1,1,2-Trichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1-Dichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1-Dichloroethene	ug/l	1	U	1	U	1	U
SW8260C	1,2,3-Trichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2,4-Trichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dibromoethane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichloropropane	ug/l	1	U	1	U	1	U
SW8260C	1,3-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,4-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,4-Dioxane	ug/l	40	U	40	U	40	U
SW8260C	2-Butanone	ug/l	10	U	10	U	10	U
SW8260C	2-Hexanone	ug/l	5	U	5	U	5	U
SW8260C	4-Methyl-2-pentanone	ug/l	5	U	5	U	5	U
SW8260C	Acetic acid, methyl ester	ug/l	2.5	U	2.5	U	2.5	U
SW8260C	Acetone	ug/l	10	U	10	U	10	U
SW8260C	Benzene	ug/l	1	U	1	U	1	U
SW8260C	Bromochloromethane	ug/l	1	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-08S		MW-09K		MW-09S	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/15/2020		7/15/2020		7/15/2020	
		Sample ID	828103-MW08S011		828103-MW09K018		828103-MW09S012	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Bromodichloromethane	ug/l	1	U	1	U	1	U
SW8260C	Bromoform	ug/l	1	U	1	U	1	U
SW8260C	Bromomethane	ug/l	1	U	1	U	1	U
SW8260C	Carbon disulfide	ug/l	1	U	1	U	1	U
SW8260C	Carbon tetrachloride	ug/l	1	U	1	U	1	U
SW8260C	Chlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	Chloroethane	ug/l	1	U	1	U	1	U
SW8260C	Chloroform	ug/l	1	U	1	U	1	U
SW8260C	Chloromethane	ug/l	1	U	1	U	1	U
SW8260C	cis-1,2-Dichloroethene	ug/l	1	U	44		1	U
SW8260C	cis-1,3-Dichloropropene	ug/l	1	U	1	U	1	U
SW8260C	Cyclohexane	ug/l	1	U	1	U	1	U
SW8260C	Dibromochloromethane	ug/l	1	U	1	U	1	U
SW8260C	Dichlorodifluoromethane	ug/l	1	U	1	U	1	U
SW8260C	Ethylbenzene	ug/l	1	U	1	U	1	U
SW8260C	Isopropylbenzene	ug/l	1	U	1	U	1	U
SW8260C	Methyl cyclohexane	ug/l	1	U	1	U	1	U
SW8260C	Methyl Tertbutyl Ether	ug/l	1	U	1	U	1	U
SW8260C	Methylene chloride	ug/l	1	U	1	U	1	U
SW8260C	Styrene	ug/l	1	U	1	U	1	U
SW8260C	Tetrachloroethene	ug/l	1	U	14		1	U
SW8260C	Toluene	ug/l	1	U	1	U	1	U
SW8260C	trans-1,2-Dichloroethene	ug/l	1	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-08S		MW-09K		MW-09S	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/15/2020		7/15/2020		7/15/2020	
		Sample ID	828103-MW08S011		828103-MW09K018		828103-MW09S012	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	trans-1,3-Dichloropropene	ug/l	1	U	1	U	1	U
SW8260C	Trichloroethene	ug/l	1	U	15		1	U
SW8260C	Trichlorofluoromethane	ug/l	1	U	1	U	1	U
SW8260C	Vinyl chloride	ug/l	1	U	4.1		1	U
SW8260C	Xylenes, Total	ug/l	2	U	2	U	2	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-10K		MW-10S		MW-11S	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/15/2020		7/14/2020		7/14/2020	
		Sample ID	828103-MW10K018		828103-MW10S012		828103-MW11S010	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	10	U	1	U	1	U
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	10	U	1	U	1	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	10	U	1	U	1	U
SW8260C	1,1,2-Trichloroethane	ug/l	10	U	1	U	1	U
SW8260C	1,1-Dichloroethane	ug/l	5.8	J	1	U	1	U
SW8260C	1,1-Dichloroethene	ug/l	10	U	1	U	1	U
SW8260C	1,2,3-Trichlorobenzene	ug/l	10	U	1	U	1	U
SW8260C	1,2,4-Trichlorobenzene	ug/l	10	U	1	U	1	U
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	10	U	1	U	1	U
SW8260C	1,2-Dibromoethane	ug/l	10	U	1	U	1	U
SW8260C	1,2-Dichlorobenzene	ug/l	10	U	1	U	1	U
SW8260C	1,2-Dichloroethane	ug/l	10	U	1	U	1	U
SW8260C	1,2-Dichloropropane	ug/l	10	U	1	U	1	U
SW8260C	1,3-Dichlorobenzene	ug/l	10	U	1	U	1	U
SW8260C	1,4-Dichlorobenzene	ug/l	10	U	1	U	1	U
SW8260C	1,4-Dioxane	ug/l	400	U	40	U	40	U
SW8260C	2-Butanone	ug/l	100	U	10	U	10	U
SW8260C	2-Hexanone	ug/l	50	U	5	U	5	U
SW8260C	4-Methyl-2-pentanone	ug/l	50	U	5	U	5	U
SW8260C	Acetic acid, methyl ester	ug/l	25	U	2.5	U	2.5	U
SW8260C	Acetone	ug/l	100	U	10	U	10	U
SW8260C	Benzene	ug/l	10	U	1	U	1	U
SW8260C	Bromochloromethane	ug/l	10	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-10K		MW-10S		MW-11S	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/15/2020		7/14/2020		7/14/2020	
		Sample ID	828103-MW10K018		828103-MW10S012		828103-MW11S010	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Bromodichloromethane	ug/l	10	U	1	U	1	U
SW8260C	Bromoform	ug/l	10	U	1	U	1	U
SW8260C	Bromomethane	ug/l	10	U	1	U	1	U
SW8260C	Carbon disulfide	ug/l	10	U	1	U	1	U
SW8260C	Carbon tetrachloride	ug/l	10	U	1	U	1	U
SW8260C	Chlorobenzene	ug/l	10	U	1	U	1	U
SW8260C	Chloroethane	ug/l	10	U	1	U	1	U
SW8260C	Chloroform	ug/l	10	U	1	U	1	U
SW8260C	Chloromethane	ug/l	10	U	1	U	1	U
SW8260C	cis-1,2-Dichloroethene	ug/l	260		2.7		1	U
SW8260C	cis-1,3-Dichloropropene	ug/l	10	U	1	U	1	U
SW8260C	Cyclohexane	ug/l	10	U	1	U	1	U
SW8260C	Dibromochloromethane	ug/l	10	U	1	U	1	U
SW8260C	Dichlorodifluoromethane	ug/l	10	U	1	U	1	U
SW8260C	Ethylbenzene	ug/l	10	U	1	U	1	U
SW8260C	Isopropylbenzene	ug/l	10	U	1	U	1	U
SW8260C	Methyl cyclohexane	ug/l	10	U	1	U	1	U
SW8260C	Methyl Tertbutyl Ether	ug/l	10	U	1	U	1	U
SW8260C	Methylene chloride	ug/l	10	U	1	U	1	U
SW8260C	Styrene	ug/l	10	U	1	U	1	U
SW8260C	Tetrachloroethene	ug/l	67		16		1	U
SW8260C	Toluene	ug/l	10	U	1	U	1	U
SW8260C	trans-1,2-Dichloroethene	ug/l	10	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-10K		MW-10S		MW-11S	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/15/2020		7/14/2020		7/14/2020	
		Sample ID	828103-MW10K018		828103-MW10S012		828103-MW11S010	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	trans-1,3-Dichloropropene	ug/l	10	U	1	U	1	U
SW8260C	Trichloroethene	ug/l	490		19		1	U
SW8260C	Trichlorofluoromethane	ug/l	10	U	1	U	1	U
SW8260C	Vinyl chloride	ug/l	10	U	1	U	1	U
SW8260C	Xylenes, Total	ug/l	20	U	2	U	2	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-12K		MW-12S		MW-12S	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/14/2020		7/15/2020		7/15/2020	
		Sample ID	828103-MW12K018		828103-MW12S010		828103-MW12S010D	
		Qc Code	FS		FS		FD	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	1	U	1	U	1	U
SW8260C	1,1,2-Trichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1-Dichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1-Dichloroethene	ug/l	1	U	1	U	1	U
SW8260C	1,2,3-Trichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2,4-Trichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dibromoethane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichloropropane	ug/l	1	U	1	U	1	U
SW8260C	1,3-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,4-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,4-Dioxane	ug/l	40	U	40	U	40	U
SW8260C	2-Butanone	ug/l	10	U	10	U	10	U
SW8260C	2-Hexanone	ug/l	5	U	5	U	5	U
SW8260C	4-Methyl-2-pentanone	ug/l	5	U	5	U	5	U
SW8260C	Acetic acid, methyl ester	ug/l	2.5	U	2.5	U	2.5	U
SW8260C	Acetone	ug/l	10	U	10	U	10	U
SW8260C	Benzene	ug/l	1	U	1	U	1	U
SW8260C	Bromochloromethane	ug/l	1	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-12K		MW-12S		MW-12S	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/14/2020		7/15/2020		7/15/2020	
		Sample ID	828103-MW12K018		828103-MW12S010		828103-MW12S010D	
		Qc Code	FS		FS		FD	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Bromodichloromethane	ug/l	1 U		1 U		1 U	
SW8260C	Bromoform	ug/l	1 U		1 U		1 U	
SW8260C	Bromomethane	ug/l	1 U		1 U		1 U	
SW8260C	Carbon disulfide	ug/l	1 U		1 U		1 U	
SW8260C	Carbon tetrachloride	ug/l	1 U		1 U		1 U	
SW8260C	Chlorobenzene	ug/l	1 U		1 U		1 U	
SW8260C	Chloroethane	ug/l	1 U		1 U		1 U	
SW8260C	Chloroform	ug/l	1 U		1 U		1 U	
SW8260C	Chloromethane	ug/l	1 U		1 U		1 U	
SW8260C	cis-1,2-Dichloroethene	ug/l	1 U		1 U		1 U	
SW8260C	cis-1,3-Dichloropropene	ug/l	1 U		1 U		1 U	
SW8260C	Cyclohexane	ug/l	1 U		1 U		1 U	
SW8260C	Dibromochloromethane	ug/l	1 U		1 U		1 U	
SW8260C	Dichlorodifluoromethane	ug/l	1 U		1 U		1 U	
SW8260C	Ethylbenzene	ug/l	1 U		1 U		1 U	
SW8260C	Isopropylbenzene	ug/l	1 U		1 U		1 U	
SW8260C	Methyl cyclohexane	ug/l	1 U		1 U		1 U	
SW8260C	Methyl Tertbutyl Ether	ug/l	1 U		1 U		1 U	
SW8260C	Methylene chloride	ug/l	1 U		1 U		1 U	
SW8260C	Styrene	ug/l	1 U		1 U		1 U	
SW8260C	Tetrachloroethene	ug/l	1 U		1 U		1 U	
SW8260C	Toluene	ug/l	1 U		1 U		1 U	
SW8260C	trans-1,2-Dichloroethene	ug/l	1 U		1 U		1 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-12K		MW-12S		MW-12S	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/14/2020		7/15/2020		7/15/2020	
		Sample ID	828103-MW12K018		828103-MW12S010		828103-MW12S010D	
		Qc Code	FS		FS		FD	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	trans-1,3-Dichloropropene	ug/l	1	U	1	U	1	U
SW8260C	Trichloroethene	ug/l	4.2		1	U	1	U
SW8260C	Trichlorofluoromethane	ug/l	1	U	1	U	1	U
SW8260C	Vinyl chloride	ug/l	1	U	1	U	1	U
SW8260C	Xylenes, Total	ug/l	2	U	2	U	2	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-13K		MW-14K		MW-14K	
		Lab SDG	480-172474-1		480-172646-1		480-172646-1	
		Sample Date	7/14/2020		7/17/2020		7/17/2020	
		Sample ID	828103-MW13K018		828103-MW14KA022		828103-MW14KA022D	
		Qc Code	FS		FS		FD	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	130	U	130	U	130	U
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	130	U	130	U	130	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	130	U	130	U	130	U
SW8260C	1,1,2-Trichloroethane	ug/l	130	U	130	U	130	U
SW8260C	1,1-Dichloroethane	ug/l	130	U	130	U	130	U
SW8260C	1,1-Dichloroethene	ug/l	130	U	130	U	130	U
SW8260C	1,2,3-Trichlorobenzene	ug/l	130	U	130	U	130	U
SW8260C	1,2,4-Trichlorobenzene	ug/l	130	U	130	U	130	U
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	130	U	130	U	130	U
SW8260C	1,2-Dibromoethane	ug/l	130	U	130	U	130	U
SW8260C	1,2-Dichlorobenzene	ug/l	130	U	130	U	130	U
SW8260C	1,2-Dichloroethane	ug/l	130	U	130	U	130	U
SW8260C	1,2-Dichloropropane	ug/l	130	U	130	U	130	U
SW8260C	1,3-Dichlorobenzene	ug/l	130	U	130	U	130	U
SW8260C	1,4-Dichlorobenzene	ug/l	130	U	130	U	130	U
SW8260C	1,4-Dioxane	ug/l	5000	U	5000	U	5000	U
SW8260C	2-Butanone	ug/l	1300	U	1300	U	1300	U
SW8260C	2-Hexanone	ug/l	630	U	630	U	630	U
SW8260C	4-Methyl-2-pentanone	ug/l	630	U	630	U	630	U
SW8260C	Acetic acid, methyl ester	ug/l	310	U	310	U	310	U
SW8260C	Acetone	ug/l	1300	U	1300	U	1300	U
SW8260C	Benzene	ug/l	130	U	130	U	130	U
SW8260C	Bromochloromethane	ug/l	130	U	130	U	130	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-13K		MW-14K		MW-14K	
		Lab SDG	480-172474-1		480-172646-1		480-172646-1	
		Sample Date	7/14/2020		7/17/2020		7/17/2020	
		Sample ID	828103-MW13K018		828103-MW14KA022		828103-MW14KA022D	
		Qc Code	FS		FS		FD	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Bromodichloromethane	ug/l	130	U	130	U	130	U
SW8260C	Bromoform	ug/l	130	U	130	U	130	U
SW8260C	Bromomethane	ug/l	130	U	130	U	130	U
SW8260C	Carbon disulfide	ug/l	130	U	130	U	130	U
SW8260C	Carbon tetrachloride	ug/l	130	U	130	U	130	U
SW8260C	Chlorobenzene	ug/l	130	U	130	U	130	U
SW8260C	Chloroethane	ug/l	130	U	130	U	130	U
SW8260C	Chloroform	ug/l	130	U	130	U	130	U
SW8260C	Chloromethane	ug/l	130	U	130	U	130	U
SW8260C	cis-1,2-Dichloroethene	ug/l	3100		3300		3200	
SW8260C	cis-1,3-Dichloropropene	ug/l	130	U	130	U	130	U
SW8260C	Cyclohexane	ug/l	130	U	130	U	130	U
SW8260C	Dibromochloromethane	ug/l	130	U	130	U	130	U
SW8260C	Dichlorodifluoromethane	ug/l	130	U	130	U	130	U
SW8260C	Ethylbenzene	ug/l	130	U	130	U	130	U
SW8260C	Isopropylbenzene	ug/l	130	U	130	U	130	U
SW8260C	Methyl cyclohexane	ug/l	130	U	130	U	130	U
SW8260C	Methyl Tertbutyl Ether	ug/l	130	U	130	U	130	U
SW8260C	Methylene chloride	ug/l	130	U	130	U	130	U
SW8260C	Styrene	ug/l	130	U	130	U	130	U
SW8260C	Tetrachloroethene	ug/l	4300		1700		1600	
SW8260C	Toluene	ug/l	130	U	130	U	130	U
SW8260C	trans-1,2-Dichloroethene	ug/l	130	U	130	U	130	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-13K		MW-14K		MW-14K	
		Lab SDG	480-172474-1		480-172646-1		480-172646-1	
		Sample Date	7/14/2020		7/17/2020		7/17/2020	
		Sample ID	828103-MW13K018		828103-MW14KA022		828103-MW14KA022D	
		Qc Code	FS		FS		FD	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	trans-1,3-Dichloropropene	ug/l	130	U	130	U	130	U
SW8260C	Trichloroethene	ug/l	1500		3700		3900	
SW8260C	Trichlorofluoromethane	ug/l	130	U	130	U	130	U
SW8260C	Vinyl chloride	ug/l	410		110	J	110	J
SW8260C	Xylenes, Total	ug/l	250	U	250	U	250	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-15K		MW-15S		MW-16K	
		Lab SDG	480-172474-1		480-172474-1		480-172646-1	
		Sample Date	7/15/2020		7/15/2020		7/16/2020	
		Sample ID	828103-MW15K022		828103-MW15S010		828103-MW16K022	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	20	U	2	U	20	U
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	20	U	2	U	20	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	20	U	2	U	20	U
SW8260C	1,1,2-Trichloroethane	ug/l	20	U	2	U	20	U
SW8260C	1,1-Dichloroethane	ug/l	12	J	2	U	20	U
SW8260C	1,1-Dichloroethene	ug/l	11	J	2	U	20	U
SW8260C	1,2,3-Trichlorobenzene	ug/l	20	U	2	U	20	U
SW8260C	1,2,4-Trichlorobenzene	ug/l	20	U	2	U	20	U
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	20	U	2	U	20	U
SW8260C	1,2-Dibromoethane	ug/l	20	U	2	U	20	U
SW8260C	1,2-Dichlorobenzene	ug/l	20	U	2	U	20	U
SW8260C	1,2-Dichloroethane	ug/l	20	U	2	U	20	U
SW8260C	1,2-Dichloropropane	ug/l	20	U	2	U	20	U
SW8260C	1,3-Dichlorobenzene	ug/l	20	U	2	U	20	U
SW8260C	1,4-Dichlorobenzene	ug/l	20	U	2	U	20	U
SW8260C	1,4-Dioxane	ug/l	800	U	80	U	800	U
SW8260C	2-Butanone	ug/l	200	U	20	U	200	U
SW8260C	2-Hexanone	ug/l	100	U	10	U	100	U
SW8260C	4-Methyl-2-pentanone	ug/l	100	U	10	U	100	U
SW8260C	Acetic acid, methyl ester	ug/l	50	U	5	U	50	U
SW8260C	Acetone	ug/l	200	U	20	U	200	U
SW8260C	Benzene	ug/l	20	U	2	U	20	U
SW8260C	Bromochloromethane	ug/l	20	U	2	U	20	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-15K		MW-15S		MW-16K	
		Lab SDG	480-172474-1		480-172474-1		480-172646-1	
		Sample Date	7/15/2020		7/15/2020		7/16/2020	
		Sample ID	828103-MW15K022		828103-MW15S010		828103-MW16K022	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Bromodichloromethane	ug/l	20	U	2	U	20	U
SW8260C	Bromoform	ug/l	20	U	2	U	20	U
SW8260C	Bromomethane	ug/l	20	U	2	U	20	U
SW8260C	Carbon disulfide	ug/l	20	U	2	U	20	U
SW8260C	Carbon tetrachloride	ug/l	20	U	2	U	20	U
SW8260C	Chlorobenzene	ug/l	20	U	2	U	20	U
SW8260C	Chloroethane	ug/l	20	U	2	U	20	U
SW8260C	Chloroform	ug/l	20	U	2	U	20	U
SW8260C	Chloromethane	ug/l	20	U	2	U	20	U
SW8260C	cis-1,2-Dichloroethene	ug/l	280		3.3		420	
SW8260C	cis-1,3-Dichloropropene	ug/l	20	U	2	U	20	U
SW8260C	Cyclohexane	ug/l	20	U	2	U	20	U
SW8260C	Dibromochloromethane	ug/l	20	U	2	U	20	U
SW8260C	Dichlorodifluoromethane	ug/l	20	U	2	U	20	U
SW8260C	Ethylbenzene	ug/l	20	U	2	U	20	U
SW8260C	Isopropylbenzene	ug/l	20	U	2	U	20	U
SW8260C	Methyl cyclohexane	ug/l	20	U	2	U	20	U
SW8260C	Methyl Tertbutyl Ether	ug/l	20	U	2	U	20	U
SW8260C	Methylene chloride	ug/l	20	U	2	U	20	U
SW8260C	Styrene	ug/l	20	U	2	U	20	U
SW8260C	Tetrachloroethene	ug/l	930		150		300	
SW8260C	Toluene	ug/l	20	U	2	U	20	U
SW8260C	trans-1,2-Dichloroethene	ug/l	20	U	2	U	20	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-15K		MW-15S		MW-16K	
		Lab SDG	480-172474-1		480-172474-1		480-172646-1	
		Sample Date	7/15/2020		7/15/2020		7/16/2020	
		Sample ID	828103-MW15K022		828103-MW15S010		828103-MW16K022	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	trans-1,3-Dichloropropene	ug/l	20	U	2	U	20	U
SW8260C	Trichloroethene	ug/l	420		82		380	
SW8260C	Trichlorofluoromethane	ug/l	20	U	2	U	20	U
SW8260C	Vinyl chloride	ug/l	19	J	2	U	20	U
SW8260C	Xylenes, Total	ug/l	40	U	4	U	40	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-16S		MW-17S		MW-18S	
		Lab SDG	480-172646-1		480-172646-1		480-172646-1	
		Sample Date	7/17/2020		7/17/2020		7/16/2020	
		Sample ID	828103-MW16S010		828103-MW17S010		828103-MW18S010	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	8 U		1 U		5 U	
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	8 U		1 U		5 U	
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	8 U		1 U		5 U	
SW8260C	1,1,2-Trichloroethane	ug/l	8 U		1 U		5 U	
SW8260C	1,1-Dichloroethane	ug/l	8 U		1 U		5 U	
SW8260C	1,1-Dichloroethene	ug/l	8 U		1 U		5 U	
SW8260C	1,2,3-Trichlorobenzene	ug/l	8 U		1 U		5 U	
SW8260C	1,2,4-Trichlorobenzene	ug/l	8 U		1 U		5 U	
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	8 U		1 U		5 U	
SW8260C	1,2-Dibromoethane	ug/l	8 U		1 U		5 U	
SW8260C	1,2-Dichlorobenzene	ug/l	8 U		1 U		5 U	
SW8260C	1,2-Dichloroethane	ug/l	8 U		1 U		5 U	
SW8260C	1,2-Dichloropropane	ug/l	8 U		1 U		5 U	
SW8260C	1,3-Dichlorobenzene	ug/l	8 U		1 U		5 U	
SW8260C	1,4-Dichlorobenzene	ug/l	8 U		1 U		5 U	
SW8260C	1,4-Dioxane	ug/l	320 U		40 U		200 U	
SW8260C	2-Butanone	ug/l	80 U		10 U		50 U	
SW8260C	2-Hexanone	ug/l	40 U		5 U		25 U	
SW8260C	4-Methyl-2-pentanone	ug/l	40 U		5 U		25 U	
SW8260C	Acetic acid, methyl ester	ug/l	20 U		2.5 U		13 U	
SW8260C	Acetone	ug/l	80 U		10 U		50 U	
SW8260C	Benzene	ug/l	8 U		1 U		5 U	
SW8260C	Bromochloromethane	ug/l	8 U		1 U		5 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-16S		MW-17S		MW-18S	
		Lab SDG	480-172646-1		480-172646-1		480-172646-1	
		Sample Date	7/17/2020		7/17/2020		7/16/2020	
		Sample ID	828103-MW16S010		828103-MW17S010		828103-MW18S010	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Bromodichloromethane	ug/l	8	U	1	U	5	U
SW8260C	Bromoform	ug/l	8	U	1	U	5	U
SW8260C	Bromomethane	ug/l	8	U	1	U	5	U
SW8260C	Carbon disulfide	ug/l	8	U	1	U	5	U
SW8260C	Carbon tetrachloride	ug/l	8	U	1	U	5	U
SW8260C	Chlorobenzene	ug/l	8	U	1	U	5	U
SW8260C	Chloroethane	ug/l	8	U	1	U	5	U
SW8260C	Chloroform	ug/l	8	U	1	U	5	U
SW8260C	Chloromethane	ug/l	8	U	1	U	5	U
SW8260C	cis-1,2-Dichloroethene	ug/l	8	U	1	U	140	
SW8260C	cis-1,3-Dichloropropene	ug/l	8	U	1	U	5	U
SW8260C	Cyclohexane	ug/l	8	U	1	U	5	U
SW8260C	Dibromochloromethane	ug/l	8	U	1	U	5	U
SW8260C	Dichlorodifluoromethane	ug/l	8	U	1	U	5	U
SW8260C	Ethylbenzene	ug/l	8	U	1	U	5	U
SW8260C	Isopropylbenzene	ug/l	8	U	1	U	5	U
SW8260C	Methyl cyclohexane	ug/l	8	U	1	U	5	U
SW8260C	Methyl Tertbutyl Ether	ug/l	8	U	1	U	5	U
SW8260C	Methylene chloride	ug/l	8	U	1	U	5	U
SW8260C	Styrene	ug/l	8	U	1	U	5	U
SW8260C	Tetrachloroethene	ug/l	23		25		220	
SW8260C	Toluene	ug/l	8	U	1	U	5	U
SW8260C	trans-1,2-Dichloroethene	ug/l	8	U	1	U	5	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-16S		MW-17S		MW-18S	
		Lab SDG	480-172646-1		480-172646-1		480-172646-1	
		Sample Date	7/17/2020		7/17/2020		7/16/2020	
		Sample ID	828103-MW16S010		828103-MW17S010		828103-MW18S010	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	trans-1,3-Dichloropropene	ug/l	8	U	1	U	5	U
SW8260C	Trichloroethene	ug/l	220		12		59	
SW8260C	Trichlorofluoromethane	ug/l	8	U	1	U	5	U
SW8260C	Vinyl chloride	ug/l	8	U	1	U	5	U
SW8260C	Xylenes, Total	ug/l	16	U	2	U	10	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-19S		MW-20S		MW-21S	
		Lab SDG	480-172646-1		480-172646-1		480-172646-1	
		Sample Date	7/17/2020		7/17/2020		7/16/2020	
		Sample ID	828103-MW19S010		828103-MW20S010		828103-MW21S010	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	4	U	80	U	8	U
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	4	U	80	U	8	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	4	U	80	U	8	U
SW8260C	1,1,2-Trichloroethane	ug/l	4	U	80	U	8	U
SW8260C	1,1-Dichloroethane	ug/l	4	U	80	U	8	U
SW8260C	1,1-Dichloroethene	ug/l	4	U	80	U	8	U
SW8260C	1,2,3-Trichlorobenzene	ug/l	4	U	80	U	8	U
SW8260C	1,2,4-Trichlorobenzene	ug/l	4	U	80	U	8	U
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	4	U	80	U	8	U
SW8260C	1,2-Dibromoethane	ug/l	4	U	80	U	8	U
SW8260C	1,2-Dichlorobenzene	ug/l	4	U	80	U	8	U
SW8260C	1,2-Dichloroethane	ug/l	4	U	80	U	8	U
SW8260C	1,2-Dichloropropane	ug/l	4	U	80	U	8	U
SW8260C	1,3-Dichlorobenzene	ug/l	4	U	80	U	8	U
SW8260C	1,4-Dichlorobenzene	ug/l	4	U	80	U	8	U
SW8260C	1,4-Dioxane	ug/l	160	U	3200	U	320	U
SW8260C	2-Butanone	ug/l	40	U	800	U	80	U
SW8260C	2-Hexanone	ug/l	20	U	400	U	40	U
SW8260C	4-Methyl-2-pentanone	ug/l	20	U	400	U	40	U
SW8260C	Acetic acid, methyl ester	ug/l	10	U	200	U	20	U
SW8260C	Acetone	ug/l	40	U	800	U	80	U
SW8260C	Benzene	ug/l	4	U	80	U	8	U
SW8260C	Bromochloromethane	ug/l	4	U	80	U	8	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-19S		MW-20S		MW-21S	
		Lab SDG	480-172646-1		480-172646-1		480-172646-1	
		Sample Date	7/17/2020		7/17/2020		7/16/2020	
		Sample ID	828103-MW19S010		828103-MW20S010		828103-MW21S010	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Bromodichloromethane	ug/l	4	U	80	U	8	U
SW8260C	Bromoform	ug/l	4	U	80	U	8	U
SW8260C	Bromomethane	ug/l	4	U	80	U	8	U
SW8260C	Carbon disulfide	ug/l	4	U	80	U	8	U
SW8260C	Carbon tetrachloride	ug/l	4	U	80	U	8	U
SW8260C	Chlorobenzene	ug/l	4	U	80	U	8	U
SW8260C	Chloroethane	ug/l	4	U	80	U	8	U
SW8260C	Chloroform	ug/l	4	U	80	U	8	U
SW8260C	Chloromethane	ug/l	4	U	80	U	8	U
SW8260C	cis-1,2-Dichloroethene	ug/l	1300		80	U	10	
SW8260C	cis-1,3-Dichloropropene	ug/l	4	U	80	U	8	U
SW8260C	Cyclohexane	ug/l	4	U	80	U	8	U
SW8260C	Dibromochloromethane	ug/l	4	U	80	U	8	U
SW8260C	Dichlorodifluoromethane	ug/l	4	U	80	U	8	U
SW8260C	Ethylbenzene	ug/l	4	U	80	U	8	U
SW8260C	Isopropylbenzene	ug/l	4	U	80	U	8	U
SW8260C	Methyl cyclohexane	ug/l	4	U	80	U	8	U
SW8260C	Methyl Tertbutyl Ether	ug/l	4	U	80	U	8	U
SW8260C	Methylene chloride	ug/l	4	U	80	U	8	U
SW8260C	Styrene	ug/l	4	U	80	U	8	U
SW8260C	Tetrachloroethene	ug/l	110		4200		8	U
SW8260C	Toluene	ug/l	4	U	80	U	8	U
SW8260C	trans-1,2-Dichloroethene	ug/l	8.9		80	U	8	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-19S		MW-20S		MW-21S	
		Lab SDG	480-172646-1		480-172646-1		480-172646-1	
		Sample Date	7/17/2020		7/17/2020		7/16/2020	
		Sample ID	828103-MW19S010		828103-MW20S010		828103-MW21S010	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	trans-1,3-Dichloropropene	ug/l	4	U	80	U	8	U
SW8260C	Trichloroethene	ug/l	120		84		8	U
SW8260C	Trichlorofluoromethane	ug/l	4	U	80	U	8	U
SW8260C	Vinyl chloride	ug/l	28		80	U	8	U
SW8260C	Xylenes, Total	ug/l	8	U	160	U	16	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-22K		MW-23K		MW-24K	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/15/2020		7/14/2020		7/14/2020	
		Sample ID	828103-MW22K028		828103-MW23K025		828103-MW24K025	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	1	U	1	U	1	U
SW8260C	1,1,2-Trichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1-Dichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1-Dichloroethene	ug/l	0.3	J	1	U	1	U
SW8260C	1,2,3-Trichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2,4-Trichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dibromoethane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichloropropane	ug/l	1	U	1	U	1	U
SW8260C	1,3-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,4-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,4-Dioxane	ug/l	40	U	40	U	40	U
SW8260C	2-Butanone	ug/l	10	U	10	U	10	U
SW8260C	2-Hexanone	ug/l	5	U	5	U	5	U
SW8260C	4-Methyl-2-pentanone	ug/l	5	U	5	U	5	U
SW8260C	Acetic acid, methyl ester	ug/l	2.5	U	2.5	U	2.5	U
SW8260C	Acetone	ug/l	10	U	10	U	10	U
SW8260C	Benzene	ug/l	1	U	1	U	1	U
SW8260C	Bromochloromethane	ug/l	1	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-22K		MW-23K		MW-24K	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/15/2020		7/14/2020		7/14/2020	
		Sample ID	828103-MW22K028		828103-MW23K025		828103-MW24K025	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Bromodichloromethane	ug/l	1	U	1	U	1	U
SW8260C	Bromoform	ug/l	1	U	1	U	1	U
SW8260C	Bromomethane	ug/l	1	U	1	U	1	U
SW8260C	Carbon disulfide	ug/l	1	U	1	U	1	U
SW8260C	Carbon tetrachloride	ug/l	1	U	1	U	1	U
SW8260C	Chlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	Chloroethane	ug/l	1	U	1	U	1	U
SW8260C	Chloroform	ug/l	1	U	1	U	1	U
SW8260C	Chloromethane	ug/l	1	U	1	U	1	U
SW8260C	cis-1,2-Dichloroethene	ug/l	97		1	U	1	U
SW8260C	cis-1,3-Dichloropropene	ug/l	1	U	1	U	1	U
SW8260C	Cyclohexane	ug/l	1	U	1	U	1	U
SW8260C	Dibromochloromethane	ug/l	1	U	1	U	1	U
SW8260C	Dichlorodifluoromethane	ug/l	1	U	1	U	1	U
SW8260C	Ethylbenzene	ug/l	1	U	1	U	1	U
SW8260C	Isopropylbenzene	ug/l	1	U	1	U	1	U
SW8260C	Methyl cyclohexane	ug/l	1	U	1	U	1	U
SW8260C	Methyl Tertbutyl Ether	ug/l	1	U	1	U	1	U
SW8260C	Methylene chloride	ug/l	1	U	1	U	1	U
SW8260C	Styrene	ug/l	1	U	1	U	1	U
SW8260C	Tetrachloroethene	ug/l	13		1	U	1	U
SW8260C	Toluene	ug/l	1	U	1	U	1	U
SW8260C	trans-1,2-Dichloroethene	ug/l	1	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	MW-22K		MW-23K		MW-24K	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/15/2020		7/14/2020		7/14/2020	
		Sample ID	828103-MW22K028		828103-MW23K025		828103-MW24K025	
		Qc Code	FS		FS		FS	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	trans-1,3-Dichloropropene	ug/l	1	U	1	U	1	U
SW8260C	Trichloroethene	ug/l	21		1	U	1	U
SW8260C	Trichlorofluoromethane	ug/l	1	U	1	U	1	U
SW8260C	Vinyl chloride	ug/l	5.4		1	U	1	U
SW8260C	Xylenes, Total	ug/l	2	U	2	U	2	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	PZ-22S		PZ-24S		QC	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/15/2020		7/14/2020		7/14/2020	
		Sample ID	828103-PZ22S010		828103-PZ24S010		828103-TRIPBLANK #1	
		Qc Code	FS		FS		TB	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	1	U	1	U	1	U
SW8260C	1,1,2-Trichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1-Dichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,1-Dichloroethene	ug/l	1	U	1	U	1	U
SW8260C	1,2,3-Trichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2,4-Trichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dibromoethane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichloroethane	ug/l	1	U	1	U	1	U
SW8260C	1,2-Dichloropropane	ug/l	1	U	1	U	1	U
SW8260C	1,3-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,4-Dichlorobenzene	ug/l	1	U	1	U	1	U
SW8260C	1,4-Dioxane	ug/l	40	U	40	U	40	U
SW8260C	2-Butanone	ug/l	10	U	10	U	10	U
SW8260C	2-Hexanone	ug/l	5	U	5	U	5	U
SW8260C	4-Methyl-2-pentanone	ug/l	5	U	5	U	5	U
SW8260C	Acetic acid, methyl ester	ug/l	2.5	U	2.5	U	2.5	U
SW8260C	Acetone	ug/l	10	U	10	U	4.2	J
SW8260C	Benzene	ug/l	1	U	1	U	1	U
SW8260C	Bromochloromethane	ug/l	1	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	PZ-22S		PZ-24S		QC	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/15/2020		7/14/2020		7/14/2020	
		Sample ID	828103-PZ22S010		828103-PZ24S010		828103-TRIPBLANK #1	
		Qc Code	FS		FS		TB	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Bromodichloromethane	ug/l	1 U		1 U		1 U	
SW8260C	Bromoform	ug/l	1 U		1 U		1 U	
SW8260C	Bromomethane	ug/l	1 U		1 U		1 U	
SW8260C	Carbon disulfide	ug/l	1 U		1 U		1 U	
SW8260C	Carbon tetrachloride	ug/l	1 U		1 U		1 U	
SW8260C	Chlorobenzene	ug/l	1 U		1 U		1 U	
SW8260C	Chloroethane	ug/l	1 U		1 U		1 U	
SW8260C	Chloroform	ug/l	1 U		1 U		1 U	
SW8260C	Chloromethane	ug/l	1 U		1 U		1 U	
SW8260C	cis-1,2-Dichloroethene	ug/l	1 U		1 U		1 U	
SW8260C	cis-1,3-Dichloropropene	ug/l	1 U		1 U		1 U	
SW8260C	Cyclohexane	ug/l	1 U		1 U		1 U	
SW8260C	Dibromochloromethane	ug/l	1 U		1 U		1 U	
SW8260C	Dichlorodifluoromethane	ug/l	1 U		1 U		1 U	
SW8260C	Ethylbenzene	ug/l	1 U		1 U		1 U	
SW8260C	Isopropylbenzene	ug/l	1 U		1 U		1 U	
SW8260C	Methyl cyclohexane	ug/l	1 U		1 U		1 U	
SW8260C	Methyl Tertbutyl Ether	ug/l	1 U		1 U		1 U	
SW8260C	Methylene chloride	ug/l	1 U		1 U		1 U	
SW8260C	Styrene	ug/l	1 U		1 U		1 U	
SW8260C	Tetrachloroethene	ug/l	1 U		1 U		1 U	
SW8260C	Toluene	ug/l	1 U		1 U		1 U	
SW8260C	trans-1,2-Dichloroethene	ug/l	1 U		1 U		1 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	PZ-22S		PZ-24S		QC	
		Lab SDG	480-172474-1		480-172474-1		480-172474-1	
		Sample Date	7/15/2020		7/14/2020		7/14/2020	
		Sample ID	828103-PZ22S010		828103-PZ24S010		828103-TRIPBLANK #1	
		Qc Code	FS		FS		TB	
Method	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	trans-1,3-Dichloropropene	ug/l	1	U	1	U	1	U
SW8260C	Trichloroethene	ug/l	1	U	1	U	1	U
SW8260C	Trichlorofluoromethane	ug/l	1	U	1	U	1	U
SW8260C	Vinyl chloride	ug/l	1	U	1	U	1	U
SW8260C	Xylenes, Total	ug/l	2	U	2	U	2	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	QC	
		Lab SDG	480-172646-1	
		Sample Date	7/15/2020	
		Sample ID	TRIP BLANK 2	
		Qc Code	TB	
Method	Parameter	Units	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	ug/l	1	U
SW8260C	1,1,2,2-Tetrachloroethane	ug/l	1	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	1	U
SW8260C	1,1,2-Trichloroethane	ug/l	1	U
SW8260C	1,1-Dichloroethane	ug/l	1	U
SW8260C	1,1-Dichloroethene	ug/l	1	U
SW8260C	1,2,3-Trichlorobenzene	ug/l	1	U
SW8260C	1,2,4-Trichlorobenzene	ug/l	1	U
SW8260C	1,2-Dibromo-3-chloropropane	ug/l	1	U
SW8260C	1,2-Dibromoethane	ug/l	1	U
SW8260C	1,2-Dichlorobenzene	ug/l	1	U
SW8260C	1,2-Dichloroethane	ug/l	1	U
SW8260C	1,2-Dichloropropane	ug/l	1	U
SW8260C	1,3-Dichlorobenzene	ug/l	1	U
SW8260C	1,4-Dichlorobenzene	ug/l	1	U
SW8260C	1,4-Dioxane	ug/l	40	U
SW8260C	2-Butanone	ug/l	10	U
SW8260C	2-Hexanone	ug/l	5	U
SW8260C	4-Methyl-2-pentanone	ug/l	5	U
SW8260C	Acetic acid, methyl ester	ug/l	2.5	U
SW8260C	Acetone	ug/l	10	U
SW8260C	Benzene	ug/l	1	U
SW8260C	Bromochloromethane	ug/l	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

			Location	QC	
			Lab SDG	480-172646-1	
			Sample Date	7/15/2020	
			Sample ID	TRIP BLANK 2	
			Qc Code	TB	
Method	Parameter	Units	Result	Qualifier	
SW8260C	Bromodichloromethane	ug/l	1	U	
SW8260C	Bromoform	ug/l	1	U	
SW8260C	Bromomethane	ug/l	1	U	
SW8260C	Carbon disulfide	ug/l	1	U	
SW8260C	Carbon tetrachloride	ug/l	1	U	
SW8260C	Chlorobenzene	ug/l	1	U	
SW8260C	Chloroethane	ug/l	1	U	
SW8260C	Chloroform	ug/l	1	U	
SW8260C	Chloromethane	ug/l	1	U	
SW8260C	cis-1,2-Dichloroethene	ug/l	1	U	
SW8260C	cis-1,3-Dichloropropene	ug/l	1	U	
SW8260C	Cyclohexane	ug/l	1	U	
SW8260C	Dibromochloromethane	ug/l	1	U	
SW8260C	Dichlorodifluoromethane	ug/l	1	U	
SW8260C	Ethylbenzene	ug/l	1	U	
SW8260C	Isopropylbenzene	ug/l	1	U	
SW8260C	Methyl cyclohexane	ug/l	1	U	
SW8260C	Methyl Tertbutyl Ether	ug/l	1	U	
SW8260C	Methylene chloride	ug/l	1	U	
SW8260C	Styrene	ug/l	1	U	
SW8260C	Tetrachloroethene	ug/l	1	U	
SW8260C	Toluene	ug/l	1	U	
SW8260C	trans-1,2-Dichloroethene	ug/l	1	U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
JULY 2020 GROUNDWATER SAMPLING
DINABURG DISTRIBUTING, INC.
OPERABLE UNIT 2
ROCHESTER, NEW YORK

		Location	QC		
		Lab SDG	480-172646-1		
		Sample Date	7/15/2020		
		Sample ID	TRIP BLANK 2		
		Qc Code	TB		
Method	Parameter	Units	Result	Qualifier	
SW8260C	trans-1,3-Dichloropropene	ug/l	1	U	
SW8260C	Trichloroethene	ug/l	1	U	
SW8260C	Trichlorofluoromethane	ug/l	1	U	
SW8260C	Vinyl chloride	ug/l	1	U	
SW8260C	Xylenes, Total	ug/l	2	U	

ATTACHMENT A
SUMMARY OF VALIDATION QC LIMITS FOR SURROGATES, SPIKES, AND DUPLICATES
BASED ON THE REGION 2 VALIDATION GUIDELINES

PARAMETER	QC TEST	ANALYTE	WATER	Water
			(%R)	(RPD)
Volatiles	Surrogate	All Surrogate Compounds	80 - 120	
	LCS	All Target Compounds	70 - 130	
	MS/MSD	All Target Compounds	70 - 130	20
	Field Duplicate	All Target Compounds		50

Notes:

LCS - Laboratory Control Sample

MS/MSD - Matrix spike/ Matrix Spike Duplicate

RPD = Relative percent difference

%R = percent recovery

QC Limits are based on USEPA Region II Data Validation Guidelines and Project QA/QC Objectives

ATTACHMENT B

VOCs

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project:

Method:

Laboratory: SDG(s):

Date:

Reviewer:

Review Level ☒ NYSDEC DUSR ☐ USEPA Region II Guideline

Check if Reviewed

1. Case Narrative Review and COC/Data Package Completeness

Were problems noted? YES NO

Are Field Sample IDs and Locations assigned correctly? YES NO

Were all the samples on the COC analyzed for the requested analyses? YES NO

2. Holding time and Sample Collection

All samples were analyzed within the 14-day holding time. YES NO

3. QC Blanks

Are method blanks free of contamination? YES NO

Are Trip blanks free of contamination? YES NO

Are Rinse blanks free of contamination? YES NO NA

4. Instrument Tuning – Data Package Narrative Review

Did the laboratory narrative identify any results that were not within method criteria?
YES NO

If yes, use professional judgment to evaluate data and qualify results if needed

5. Instrument Calibration – Data Package Narrative Review

Did the laboratory narrative identify compounds that were not within criteria in the initial and/or continuing calibration standards? YES NO

Initial Calibration %RSD = 20% (30% for 1,1-DCE, chloroform, 1,2-DCP, toluene, ethylbenzene, VC)

Initial Avg RRF and Continuing RRF should be ≥ 0.05 and 0.10 for Chloromethane, 1,1-Dichloroethane, Bromoform and 0.30 for Chlorobenzene and 1,1,2,2-Tetrachloroethane

Continuing Calibration %D = 20%

Did the laboratory qualify results based on initial or continuing calibration exceedances?
YES NO

If yes to above, use professional judgment to evaluate data and qualify results if needed

6. **Internal Standards – Data Package Narrative Review**

(Area Limits = -50% to +100%, RTs within 30 seconds of daily CCAL standard (or ICAL mid-point if samples follow ICAL))

Did the laboratory narrative identify any sample internal standards that were not within criteria?

YES NO

Did the laboratory qualify results based on internal standard exceedances? YES NO

If yes to above, use professional judgment to evaluate data and qualify results if needed

7. **Surrogate Recovery** - Region II limits (water 80-120%, soil 70-130%)

Were all results within Region II limits? YES NO

8. **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)

Were MS/MSDs submitted/analyzed? YES NO

Were all results within the Region II limits? YES NO NA

9. **Duplicates** - Region II Limits (water RPD 50, soil RPD 100)

Were Field Duplicates submitted/analyzed? YES NO

Were all results within Region II limits? (soil RPD<100, water RPD<50) YES NO NA

10. **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)

Were all results within Region II control limits? YES NO

11. **Reporting Limits:** Were samples analyzed at a dilution? YES NO

12. **Raw Data Review and Calculation Checks**

13. **Electronic Data Review and Edits**

Does the EDD match the Form Is? YES NO

14. **Tables and TIC Review**

Table 1 (Samples and Analytical Methods)

Table 2 (Analytical Results)

Table 3 (Qualification Actions)

Were all tables produced and reviewed? YES NO

Table 4 (TICs) Did lab report TICs? YES NO

Sample Summary

Client: Wood E&I Solutions Inc
Project/Site: NYSDEC Dinaburg Dist. site

Job ID: 480-172474-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-172474-1	828103-MW06018 ✓	Water	07/14/20 09:20	07/16/20 10:30	
480-172474-2	828103-MW10S012 ✓	Water	07/14/20 10:50	07/16/20 10:30	
480-172474-3	828103-MW050020 ✓	Water	07/14/20 15:40	07/16/20 10:30	
480-172474-4	828103-MW13K018 ✓	Water	07/14/20 17:25	07/16/20 10:30	
480-172474-5	828103-MW24K025 ✓	Water	07/14/20 09:40	07/16/20 10:30	
480-172474-6	828103-PZ24S010 ✓	Water	07/14/20 10:35	07/16/20 10:30	
480-172474-7	828103-MW11S010 ✓	Water	07/14/20 12:40	07/16/20 10:30	
480-172474-8	828103-MW12K018 ✓	Water	07/14/20 14:50	07/16/20 10:30	
480-172474-9	828103-MW23K025 ✓	Water	07/14/20 16:50	07/16/20 10:30	
480-172474-10	828103-MW10K018 ✓	Water	07/15/20 08:10	07/16/20 10:30	
480-172474-11	828103-MW08K ✓	Water	07/15/20 10:00	07/16/20 10:30	
480-172474-12	828103-MW08S011 ✓	Water	07/15/20 11:45	07/16/20 10:30	
480-172474-13	828103-MW22K028 ✓	Water	07/15/20 14:50	07/16/20 10:30	
480-172474-14	828103-PZ22S010 ✓	Water	07/15/20 15:00	07/16/20 10:30	
480-172474-15	828103-MW15S010 ✓	Water	07/15/20 17:05	07/16/20 10:30	
480-172474-16	828103-TRIPBLANK #1 ✓	Water	07/14/20 12:00	07/16/20 10:30	
480-172474-17	828103-MW09S012 ✓	Water	07/15/20 09:10	07/16/20 10:30	
480-172474-18	828103-MW09K018 ✓	Water	07/15/20 11:35	07/16/20 10:30	
480-172474-19	828103-MW12S010 ✓	Water	07/15/20 13:30	07/16/20 10:30	
480-172474-20	828103-MW12S010D ✓	Water	07/15/20 13:30	07/16/20 10:30	
480-172474-21	828103-MW040020 ✓	Water	07/15/20 15:40	07/16/20 10:30	
480-172474-22	828103-MW15K022 ✓	Water	07/15/20 18:10	07/16/20 10:30	

Job Narrative
480-172474-1

Comments

No additional comments.

Receipt

The samples were received on 7/16/2020 10:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range:

828103-MW13K018 (480-172474-4) and 828103-MW10K018 (480-172474-10). Elevated reporting limits (RLs) are provided. memo

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-541984 recovered above the upper control limit for 2-Hexanone and 4-Methyl-2-pentanone (MIBK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 828103-MW24K025 (480-172474-5), 828103-PZ24S010 (480-172474-6), 828103-MW15S010 (480-172474-15), 828103-TRIPBLANK #1 (480-172474-16), 828103-MW09S012 (480-172474-17), 828103-MW09K018 (480-172474-18), 828103-MW12S010 (480-172474-19), 828103-MW12S010D (480-172474-20), 828103-MW040020 (480-172474-21) and 828103-MW15K022 (480-172474-22).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range:

828103-MW15S010 (480-172474-15) and 828103-MW15K022 (480-172474-22). Elevated reporting limits (RLs) are provided. memo

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-541690 recovered above the upper control limit for 2-Hexanone and 4-Methyl-2-pentanone (MIBK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 828103-MW06018 (480-172474-1), 828103-MW10S012 (480-172474-2), 828103-MW050020 (480-172474-3), 828103-MW13K018 (480-172474-4), 828103-MW11S010 (480-172474-7), 828103-MW12K018 (480-172474-8), 828103-MW23K025 (480-172474-9), 828103-MW10K018 (480-172474-10), 828103-MW08K (480-172474-11), 828103-MW08S011 (480-172474-12), 828103-MW22K028 (480-172474-13) and 828103-PZ22S010 (480-172474-14).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: NYSDEC Dinaburg Dist. site

Job ID: 480-172474-1

Client Sample ID: 828103-TRIPBLANK #1

Lab Sample ID: 480-172474-16

Date Collected: 07/14/20 12:00

Matrix: Water

Date Received: 07/16/20 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/24/20 14:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/24/20 14:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/24/20 14:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/24/20 14:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/24/20 14:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/24/20 14:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/24/20 14:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/24/20 14:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/24/20 14:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/24/20 14:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/24/20 14:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/24/20 14:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/24/20 14:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/24/20 14:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/24/20 14:52	1
1,4-Dioxane	ND		40	9.3	ug/L			07/24/20 14:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/24/20 14:52	1
2-Hexanone	ND		5.0	1.2	ug/L			07/24/20 14:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/24/20 14:52	1
Acetone	4.2 J	ND in all Field samples - no impact no qual	10	3.0	ug/L			07/24/20 14:52	1
Benzene	ND		1.0	0.41	ug/L			07/24/20 14:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/24/20 14:52	1
Bromoform	ND		1.0	0.26	ug/L			07/24/20 14:52	1
Bromomethane	ND		1.0	0.69	ug/L			07/24/20 14:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/24/20 14:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/24/20 14:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/24/20 14:52	1
Chlorobromomethane	ND		1.0	0.87	ug/L			07/24/20 14:52	1
Chloroethane	ND		1.0	0.32	ug/L			07/24/20 14:52	1
Chloroform	ND		1.0	0.34	ug/L			07/24/20 14:52	1
Chloromethane	ND		1.0	0.35	ug/L			07/24/20 14:52	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/24/20 14:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/24/20 14:52	1
Cyclohexane	ND		1.0	0.18	ug/L			07/24/20 14:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/24/20 14:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/24/20 14:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/24/20 14:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/24/20 14:52	1
Methyl acetate	ND		2.5	1.3	ug/L			07/24/20 14:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/24/20 14:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/24/20 14:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/24/20 14:52	1
Styrene	ND		1.0	0.73	ug/L			07/24/20 14:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/24/20 14:52	1
Toluene	ND		1.0	0.51	ug/L			07/24/20 14:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/24/20 14:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/24/20 14:52	1
Trichloroethene	ND		1.0	0.46	ug/L			07/24/20 14:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/24/20 14:52	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: NYSDEC Dinaburg Dist. site

Job ID: 480-172474-1

Client Sample ID: 828103-MW13K018

Lab Sample ID: 480-172474-4

Date Collected: 07/14/20 17:25

Matrix: Water

Date Received: 07/16/20 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		130	100	ug/L			07/23/20 14:10	125
1,1,2,2-Tetrachloroethane	ND		130	26	ug/L			07/23/20 14:10	125
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		130	39	ug/L		MEMO DILUTIONS	07/23/20 14:10	125
1,1,2-Trichloroethane	ND		130	29	ug/L			07/23/20 14:10	125
1,1-Dichloroethane	ND		130	48	ug/L			07/23/20 14:10	125
1,1-Dichloroethene	ND		130	36	ug/L			07/23/20 14:10	125
1,2,3-Trichlorobenzene	ND		130	51	ug/L			07/23/20 14:10	125
1,2,4-Trichlorobenzene	ND		130	51	ug/L			07/23/20 14:10	125
1,2-Dibromo-3-Chloropropane	ND		130	49	ug/L			07/23/20 14:10	125
1,2-Dibromoethane	ND		130	91	ug/L			07/23/20 14:10	125
1,2-Dichlorobenzene	ND		130	99	ug/L			07/23/20 14:10	125
1,2-Dichloroethane	ND		130	26	ug/L			07/23/20 14:10	125
1,2-Dichloropropane	ND		130	90	ug/L			07/23/20 14:10	125
1,3-Dichlorobenzene	ND		130	98	ug/L			07/23/20 14:10	125
1,4-Dichlorobenzene	ND		130	110	ug/L			07/23/20 14:10	125
1,4-Dioxane	ND		5000	1200	ug/L			07/23/20 14:10	125
2-Butanone (MEK)	ND		1300	170	ug/L			07/23/20 14:10	125
2-Hexanone	ND		630	160	ug/L			07/23/20 14:10	125
4-Methyl-2-pentanone (MIBK)	ND		630	260	ug/L			07/23/20 14:10	125
Acetone	ND		1300	380	ug/L			07/23/20 14:10	125
Benzene	ND		130	51	ug/L			07/23/20 14:10	125
Bromodichloromethane	ND		130	49	ug/L			07/23/20 14:10	125
Bromoform	ND		130	33	ug/L			07/23/20 14:10	125
Bromomethane	ND		130	86	ug/L			07/23/20 14:10	125
Carbon disulfide	ND		130	24	ug/L			07/23/20 14:10	125
Carbon tetrachloride	ND		130	34	ug/L			07/23/20 14:10	125
Chlorobenzene	ND		130	94	ug/L			07/23/20 14:10	125
Chlorobromomethane	ND		130	110	ug/L			07/23/20 14:10	125
Chloroethane	ND		130	40	ug/L			07/23/20 14:10	125
Chloroform	ND		130	43	ug/L			07/23/20 14:10	125
Chloromethane	ND		130	44	ug/L			07/23/20 14:10	125
cis-1,2-Dichloroethene	3100		130	100	ug/L			07/23/20 14:10	125
cis-1,3-Dichloropropene	ND		130	45	ug/L			07/23/20 14:10	125
Cyclohexane	ND		130	23	ug/L			07/23/20 14:10	125
Dibromochloromethane	ND		130	40	ug/L			07/23/20 14:10	125
Dichlorodifluoromethane	ND		130	85	ug/L			07/23/20 14:10	125
Ethylbenzene	ND		130	93	ug/L			07/23/20 14:10	125
Isopropylbenzene	ND		130	99	ug/L			07/23/20 14:10	125
Methyl acetate	ND		310	160	ug/L			07/23/20 14:10	125
Methyl tert-butyl ether	ND		130	20	ug/L			07/23/20 14:10	125
Methylcyclohexane	ND		130	20	ug/L			07/23/20 14:10	125
Methylene Chloride	ND		130	55	ug/L			07/23/20 14:10	125
Styrene	ND		130	91	ug/L			07/23/20 14:10	125
Tetrachloroethene	4300		130	45	ug/L			07/23/20 14:10	125
Toluene	ND		130	64	ug/L			07/23/20 14:10	125
trans-1,2-Dichloroethene	ND		130	110	ug/L			07/23/20 14:10	125
trans-1,3-Dichloropropene	ND		130	46	ug/L			07/23/20 14:10	125
Trichloroethene	1500		130	58	ug/L			07/23/20 14:10	125
Trichlorofluoromethane	ND		130	110	ug/L			07/23/20 14:10	125

Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: NYSDEC Dinaburg Dist. site

Job ID: 480-172474-1

Client Sample ID: 828103-MW10K018

Lab Sample ID: 480-172474-10

Date Collected: 07/15/20 08:10

Matrix: Water

Date Received: 07/16/20 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			07/23/20 16:35	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L	MEMO DILUTIONS		07/23/20 16:35	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			07/23/20 16:35	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			07/23/20 16:35	10
1,1-Dichloroethane	5.8	J	10	3.8	ug/L			07/23/20 16:35	10
1,1-Dichloroethene	ND		10	2.9	ug/L			07/23/20 16:35	10
1,2,3-Trichlorobenzene	ND		10	4.1	ug/L			07/23/20 16:35	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			07/23/20 16:35	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			07/23/20 16:35	10
1,2-Dibromoethane	ND		10	7.3	ug/L			07/23/20 16:35	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			07/23/20 16:35	10
1,2-Dichloroethane	ND		10	2.1	ug/L			07/23/20 16:35	10
1,2-Dichloropropane	ND		10	7.2	ug/L			07/23/20 16:35	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			07/23/20 16:35	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			07/23/20 16:35	10
1,4-Dioxane	ND		400	93	ug/L			07/23/20 16:35	10
2-Butanone (MEK)	ND		100	13	ug/L			07/23/20 16:35	10
2-Hexanone	ND		50	12	ug/L			07/23/20 16:35	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			07/23/20 16:35	10
Acetone	ND		100	30	ug/L			07/23/20 16:35	10
Benzene	ND		10	4.1	ug/L			07/23/20 16:35	10
Bromodichloromethane	ND		10	3.9	ug/L			07/23/20 16:35	10
Bromoform	ND		10	2.6	ug/L			07/23/20 16:35	10
Bromomethane	ND		10	6.9	ug/L			07/23/20 16:35	10
Carbon disulfide	ND		10	1.9	ug/L			07/23/20 16:35	10
Carbon tetrachloride	ND		10	2.7	ug/L			07/23/20 16:35	10
Chlorobenzene	ND		10	7.5	ug/L			07/23/20 16:35	10
Chlorobromomethane	ND		10	8.7	ug/L			07/23/20 16:35	10
Chloroethane	ND		10	3.2	ug/L			07/23/20 16:35	10
Chloroform	ND		10	3.4	ug/L			07/23/20 16:35	10
Chloromethane	ND		10	3.5	ug/L			07/23/20 16:35	10
cis-1,2-Dichloroethene	260		10	8.1	ug/L			07/23/20 16:35	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			07/23/20 16:35	10
Cyclohexane	ND		10	1.8	ug/L			07/23/20 16:35	10
Dibromochloromethane	ND		10	3.2	ug/L			07/23/20 16:35	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			07/23/20 16:35	10
Ethylbenzene	ND		10	7.4	ug/L			07/23/20 16:35	10
Isopropylbenzene	ND		10	7.9	ug/L			07/23/20 16:35	10
Methyl acetate	ND		25	13	ug/L			07/23/20 16:35	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			07/23/20 16:35	10
Methylcyclohexane	ND		10	1.6	ug/L			07/23/20 16:35	10
Methylene Chloride	ND		10	4.4	ug/L			07/23/20 16:35	10
Styrene	ND		10	7.3	ug/L			07/23/20 16:35	10
Tetrachloroethene	67		10	3.6	ug/L			07/23/20 16:35	10
Toluene	ND		10	5.1	ug/L			07/23/20 16:35	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			07/23/20 16:35	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			07/23/20 16:35	10
Trichloroethene	490		10	4.6	ug/L			07/23/20 16:35	10
Trichlorofluoromethane	ND		10	8.8	ug/L			07/23/20 16:35	10

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: NYSDEC Dinaburg Dist. site

Job ID: 480-172474-1

Client Sample ID: 828103-MW15S010

Lab Sample ID: 480-172474-15

Date Collected: 07/15/20 17:05

Matrix: Water

Date Received: 07/16/20 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			07/24/20 14:28	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L	MEMO DILUTIONS		07/24/20 14:28	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			07/24/20 14:28	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			07/24/20 14:28	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			07/24/20 14:28	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			07/24/20 14:28	2
1,2,3-Trichlorobenzene	ND		2.0	0.82	ug/L			07/24/20 14:28	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			07/24/20 14:28	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			07/24/20 14:28	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			07/24/20 14:28	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			07/24/20 14:28	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			07/24/20 14:28	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			07/24/20 14:28	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			07/24/20 14:28	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			07/24/20 14:28	2
1,4-Dioxane	ND		80	19	ug/L			07/24/20 14:28	2
2-Butanone (MEK)	ND		20	2.6	ug/L			07/24/20 14:28	2
2-Hexanone	ND		10	2.5	ug/L			07/24/20 14:28	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			07/24/20 14:28	2
Acetone	ND		20	6.0	ug/L			07/24/20 14:28	2
Benzene	ND		2.0	0.82	ug/L			07/24/20 14:28	2
Bromodichloromethane	ND		2.0	0.78	ug/L			07/24/20 14:28	2
Bromoform	ND		2.0	0.52	ug/L			07/24/20 14:28	2
Bromomethane	ND		2.0	1.4	ug/L			07/24/20 14:28	2
Carbon disulfide	ND		2.0	0.38	ug/L			07/24/20 14:28	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			07/24/20 14:28	2
Chlorobenzene	ND		2.0	1.5	ug/L			07/24/20 14:28	2
Chlorobromomethane	ND		2.0	1.7	ug/L			07/24/20 14:28	2
Chloroethane	ND		2.0	0.64	ug/L			07/24/20 14:28	2
Chloroform	ND		2.0	0.68	ug/L			07/24/20 14:28	2
Chloromethane	ND		2.0	0.70	ug/L			07/24/20 14:28	2
cis-1,2-Dichloroethene	3.3		2.0	1.6	ug/L			07/24/20 14:28	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			07/24/20 14:28	2
Cyclohexane	ND		2.0	0.36	ug/L			07/24/20 14:28	2
Dibromochloromethane	ND		2.0	0.64	ug/L			07/24/20 14:28	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			07/24/20 14:28	2
Ethylbenzene	ND		2.0	1.5	ug/L			07/24/20 14:28	2
Isopropylbenzene	ND		2.0	1.6	ug/L			07/24/20 14:28	2
Methyl acetate	ND		5.0	2.6	ug/L			07/24/20 14:28	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			07/24/20 14:28	2
Methylcyclohexane	ND		2.0	0.32	ug/L			07/24/20 14:28	2
Methylene Chloride	ND		2.0	0.88	ug/L			07/24/20 14:28	2
Styrene	ND		2.0	1.5	ug/L			07/24/20 14:28	2
Tetrachloroethene	150		2.0	0.72	ug/L			07/24/20 14:28	2
Toluene	ND		2.0	1.0	ug/L			07/24/20 14:28	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			07/24/20 14:28	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			07/24/20 14:28	2
Trichloroethene	82		2.0	0.92	ug/L			07/24/20 14:28	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			07/24/20 14:28	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: NYSDEC Dinaburg Dist. site

Job ID: 480-172474-1

Client Sample ID: 828103-MW15K022

Lab Sample ID: 480-172474-22

Date Collected: 07/15/20 18:10

Matrix: Water

Date Received: 07/16/20 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			07/24/20 17:17	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L	MEMO DILUTIONS		07/24/20 17:17	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			07/24/20 17:17	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			07/24/20 17:17	20
1,1-Dichloroethane	12	J	20	7.6	ug/L			07/24/20 17:17	20
1,1-Dichloroethene	11	J	20	5.8	ug/L			07/24/20 17:17	20
1,2,3-Trichlorobenzene	ND		20	8.2	ug/L			07/24/20 17:17	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			07/24/20 17:17	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			07/24/20 17:17	20
1,2-Dibromoethane	ND		20	15	ug/L			07/24/20 17:17	20
1,2-Dichlorobenzene	ND		20	16	ug/L			07/24/20 17:17	20
1,2-Dichloroethane	ND		20	4.2	ug/L			07/24/20 17:17	20
1,2-Dichloropropane	ND		20	14	ug/L			07/24/20 17:17	20
1,3-Dichlorobenzene	ND		20	16	ug/L			07/24/20 17:17	20
1,4-Dichlorobenzene	ND		20	17	ug/L			07/24/20 17:17	20
1,4-Dioxane	ND		800	190	ug/L			07/24/20 17:17	20
2-Butanone (MEK)	ND		200	26	ug/L			07/24/20 17:17	20
2-Hexanone	ND		100	25	ug/L			07/24/20 17:17	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			07/24/20 17:17	20
Acetone	ND		200	60	ug/L			07/24/20 17:17	20
Benzene	ND		20	8.2	ug/L			07/24/20 17:17	20
Bromodichloromethane	ND		20	7.8	ug/L			07/24/20 17:17	20
Bromoform	ND		20	5.2	ug/L			07/24/20 17:17	20
Bromomethane	ND		20	14	ug/L			07/24/20 17:17	20
Carbon disulfide	ND		20	3.8	ug/L			07/24/20 17:17	20
Carbon tetrachloride	ND		20	5.4	ug/L			07/24/20 17:17	20
Chlorobenzene	ND		20	15	ug/L			07/24/20 17:17	20
Chlorobromomethane	ND		20	17	ug/L			07/24/20 17:17	20
Chloroethane	ND		20	6.4	ug/L			07/24/20 17:17	20
Chloroform	ND		20	6.8	ug/L			07/24/20 17:17	20
Chloromethane	ND		20	7.0	ug/L			07/24/20 17:17	20
cis-1,2-Dichloroethene	280		20	16	ug/L			07/24/20 17:17	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			07/24/20 17:17	20
Cyclohexane	ND		20	3.6	ug/L			07/24/20 17:17	20
Dibromochloromethane	ND		20	6.4	ug/L			07/24/20 17:17	20
Dichlorodifluoromethane	ND		20	14	ug/L			07/24/20 17:17	20
Ethylbenzene	ND		20	15	ug/L			07/24/20 17:17	20
Isopropylbenzene	ND		20	16	ug/L			07/24/20 17:17	20
Methyl acetate	ND		50	26	ug/L			07/24/20 17:17	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			07/24/20 17:17	20
Methylcyclohexane	ND		20	3.2	ug/L			07/24/20 17:17	20
Methylene Chloride	ND		20	8.8	ug/L			07/24/20 17:17	20
Styrene	ND		20	15	ug/L			07/24/20 17:17	20
Tetrachloroethene	930		20	7.2	ug/L			07/24/20 17:17	20
Toluene	ND		20	10	ug/L			07/24/20 17:17	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			07/24/20 17:17	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			07/24/20 17:17	20
Trichloroethene	420		20	9.2	ug/L			07/24/20 17:17	20
Trichlorofluoromethane	ND		20	18	ug/L			07/24/20 17:17	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Wood E&I Solutions Inc
Project/Site: NYSDEC Dinaburg Dist. site

Job ID: 480-172474-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-541690/5

Matrix: Water

Analysis Batch: 541690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	25.0	22.1		ug/L		89	59 - 135
Dibromochloromethane	25.0	23.5		ug/L		94	75 - 125
Dichlorodifluoromethane	25.0	26.1		ug/L		104	59 - 135
Ethylbenzene	25.0	24.5		ug/L		98	77 - 123
Isopropylbenzene	25.0	24.2		ug/L		97	77 - 122
Methyl acetate	50.0	44.4		ug/L		89	74 - 133
Methyl tert-butyl ether	25.0	23.3		ug/L		93	77 - 120
Methylcyclohexane	25.0	21.5		ug/L		86	68 - 134
Methylene Chloride	25.0	21.9		ug/L		88	75 - 124
Styrene	25.0	25.0		ug/L		100	80 - 120
Tetrachloroethene	25.0	22.1		ug/L		88	74 - 122
Toluene	25.0	24.0		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	22.2		ug/L		89	73 - 127
trans-1,3-Dichloropropene	25.0	25.0		ug/L		100	80 - 120
Trichloroethene	25.0	22.7		ug/L		91	74 - 123
Trichlorofluoromethane	25.0	22.5		ug/L		90	62 - 150
Vinyl chloride	25.0	22.3		ug/L		89	65 - 133
Xylenes, Total	50.0	48.4		ug/L		97	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	93		75 - 123
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 480-172474-11 MS

Matrix: Water

Analysis Batch: 541690

Client Sample ID: 828103-MW08K

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	28.8		ug/L		115	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	28.3		ug/L		113	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	28.1		ug/L		113	61 - 148
1,1,2-Trichloroethane	ND		25.0	28.7		ug/L		115	76 - 122
1,1-Dichloroethane	ND	F1	25.0	30.4	F1	ug/L		121	77 - 120
1,1-Dichloroethene	ND		25.0	29.3		ug/L		117	66 - 127
1,2,3-Trichlorobenzene	ND	Region 2 limits	25.0	26.6		ug/L		106	75 - 123
1,2,4-Trichlorobenzene	ND	70-130% - oK	25.0	26.3		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	27.9		ug/L		112	56 - 134
1,2-Dibromoethane	ND		25.0	28.3		ug/L		113	77 - 120
1,2-Dichlorobenzene	ND		25.0	27.3		ug/L		109	80 - 124
1,2-Dichloroethane	ND		25.0	27.9		ug/L		112	75 - 120
1,2-Dichloropropane	ND	F1	25.0	30.8	F1	ug/L		123	76 - 120
1,3-Dichlorobenzene	ND		25.0	27.5		ug/L		110	77 - 120
1,4-Dichlorobenzene	ND		25.0	27.3		ug/L		109	78 - 124
1,4-Dioxane	ND		500	605		ug/L		121	50 - 150
2-Butanone (MEK)	ND		125	157		ug/L		126	57 - 140
2-Hexanone	ND	F1 high recovery- ND in sample - no impact - no qual	125	173	F1	ug/L		139	65 - 127

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Wood E&I Solutions Inc
Project/Site: NYSDEC Dinaburg Dist. site

Job ID: 480-172474-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-172474-11 MS

Matrix: Water

Analysis Batch: 541690

Client Sample ID: 828103-MW08K

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	ND	F1 recovery high	125	169	F1	ug/L		135	71 - 125
Acetone	ND	ND in sample no impact - OK	125	150		ug/L		120	56 - 142
Benzene	ND		25.0	29.5		ug/L		118	71 - 124
Bromodichloromethane	ND		25.0	28.4		ug/L		114	80 - 122
Bromoform	ND		25.0	26.0		ug/L		104	61 - 132
Bromomethane	ND		25.0	27.1		ug/L		108	55 - 144
Carbon disulfide	ND		25.0	27.4		ug/L		110	59 - 134
Carbon tetrachloride	ND		25.0	27.2		ug/L		109	72 - 134
Chlorobenzene	ND		25.0	28.1		ug/L		112	80 - 120
Chlorobromomethane	ND		25.0	27.2		ug/L		109	72 - 130
Chloroethane	ND		25.0	27.0		ug/L		108	69 - 136
Chloroform	ND		25.0	27.7		ug/L		111	73 - 127
Chloromethane	ND	F1 OK reg 2 limits	25.0	31.6	F1	ug/L		126	68 - 124
cis-1,2-Dichloroethene	ND		25.0	29.3		ug/L		117	74 - 124
cis-1,3-Dichloropropene	ND		25.0	27.7		ug/L		111	74 - 124
Cyclohexane	ND		25.0	28.3		ug/L		113	59 - 135
Dibromochloromethane	ND		25.0	27.9		ug/L		112	75 - 125
Dichlorodifluoromethane	ND		25.0	28.1		ug/L		113	59 - 135
Ethylbenzene	ND		25.0	29.0		ug/L		116	77 - 123
Isopropylbenzene	ND		25.0	29.1		ug/L		116	77 - 122
Methyl acetate	ND		50.0	56.4		ug/L		113	74 - 133
Methyl tert-butyl ether	ND		25.0	28.4		ug/L		114	77 - 120
Methylcyclohexane	ND		25.0	26.7		ug/L		107	68 - 134
Methylene Chloride	ND		25.0	27.9		ug/L		112	75 - 124
Styrene	ND		25.0	29.0		ug/L		116	80 - 120
Tetrachloroethene	ND		25.0	27.5		ug/L		110	74 - 122
Toluene	ND		25.0	28.7		ug/L		115	80 - 122
trans-1,2-Dichloroethene	ND		25.0	29.7		ug/L		119	73 - 127
trans-1,3-Dichloropropene	ND		25.0	28.7		ug/L		115	80 - 120
Trichloroethene	ND		25.0	28.2		ug/L		113	74 - 123
Trichlorofluoromethane	ND		25.0	26.3		ug/L		105	62 - 150
Vinyl chloride	ND		25.0	27.0		ug/L		108	65 - 133
Xylenes, Total	ND		50.0	57.5		ug/L		115	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	94		75 - 123
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 480-172474-11 MSD

Matrix: Water

Analysis Batch: 541690

Client Sample ID: 828103-MW08K

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	28.3		ug/L		113	73 - 126	2	15
1,1,2,2-Tetrachloroethane	ND		25.0	28.5		ug/L		114	76 - 120	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.7		ug/L		107	61 - 148	5	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Wood E&I Solutions Inc
Project/Site: NYSDEC Dinaburg Dist. site

Job ID: 480-172474-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-172474-11 MSD

Matrix: Water

Analysis Batch: 541690

Client Sample ID: 828103-MW08K

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		25.0	29.1		ug/L		117	76 - 122	1	15
1,1-Dichloroethane	ND	F1 ok	25.0	30.5	F1	ug/L		122	77 - 120	0	20
1,1-Dichloroethene	ND		25.0	28.7		ug/L		115	66 - 127	2	16
1,2,3-Trichlorobenzene	ND		25.0	26.9		ug/L		107	75 - 123	1	20
1,2,4-Trichlorobenzene	ND		25.0	25.7		ug/L		103	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	ND		25.0	28.9		ug/L		116	56 - 134	4	15
1,2-Dibromoethane	ND		25.0	29.3		ug/L		117	77 - 120	3	15
1,2-Dichlorobenzene	ND		25.0	27.3		ug/L		109	80 - 124	0	20
1,2-Dichloroethane	ND		25.0	27.8		ug/L		111	75 - 120	0	20
1,2-Dichloropropane	ND	F1 ok	25.0	30.5	F1	ug/L		122	76 - 120	1	20
1,3-Dichlorobenzene	ND		25.0	27.9		ug/L		111	77 - 120	1	20
1,4-Dichlorobenzene	ND		25.0	26.5		ug/L		106	78 - 124	3	20
1,4-Dioxane	ND		500	673		ug/L		135	50 - 150	11	20
2-Butanone (MEK)	ND		125	158		ug/L		127	57 - 140	1	20
2-Hexanone	ND	F1 High Rec	125	174	F1	ug/L		140	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	ND	F1 ND in sample OK	125	170	F1	ug/L		136	71 - 125	1	35
Acetone	ND		125	150		ug/L		120	56 - 142	0	15
Benzene	ND		25.0	28.9		ug/L		116	71 - 124	2	13
Bromodichloromethane	ND		25.0	28.6		ug/L		114	80 - 122	1	15
Bromoform	ND		25.0	26.8		ug/L		107	61 - 132	3	15
Bromomethane	ND		25.0	24.5		ug/L		98	55 - 144	10	15
Carbon disulfide	ND		25.0	27.5		ug/L		110	59 - 134	0	15
Carbon tetrachloride	ND		25.0	27.6		ug/L		110	72 - 134	1	15
Chlorobenzene	ND		25.0	27.6		ug/L		110	80 - 120	2	25
Chlorobromomethane	ND		25.0	26.6		ug/L		107	72 - 130	2	15
Chloroethane	ND		25.0	26.7		ug/L		107	69 - 136	1	15
Chloroform	ND		25.0	27.3		ug/L		109	73 - 127	1	20
Chloromethane	ND	F1 ok	25.0	30.9		ug/L		124	68 - 124	2	15
cis-1,2-Dichloroethene	ND		25.0	30.0		ug/L		120	74 - 124	2	15
cis-1,3-Dichloropropene	ND		25.0	27.8		ug/L		111	74 - 124	0	15
Cyclohexane	ND		25.0	27.3		ug/L		109	59 - 135	3	20
Dibromochloromethane	ND		25.0	27.9		ug/L		112	75 - 125	0	15
Dichlorodifluoromethane	ND		25.0	26.0		ug/L		104	59 - 135	8	20
Ethylbenzene	ND		25.0	28.7		ug/L		115	77 - 123	1	15
Isopropylbenzene	ND		25.0	28.4		ug/L		114	77 - 122	2	20
Methyl acetate	ND		50.0	56.9		ug/L		114	74 - 133	1	20
Methyl tert-butyl ether	ND		25.0	28.9		ug/L		116	77 - 120	2	37
Methylcyclohexane	ND		25.0	26.0		ug/L		104	68 - 134	3	20
Methylene Chloride	ND		25.0	28.0		ug/L		112	75 - 124	0	15
Styrene	ND		25.0	29.3		ug/L		117	80 - 120	1	20
Tetrachloroethene	ND		25.0	27.0		ug/L		108	74 - 122	2	20
Toluene	ND		25.0	28.9		ug/L		116	80 - 122	1	15
trans-1,2-Dichloroethene	ND		25.0	29.6		ug/L		118	73 - 127	0	20
trans-1,3-Dichloropropene	ND		25.0	29.5		ug/L		118	80 - 120	3	15
Trichloroethene	ND		25.0	28.4		ug/L		114	74 - 123	1	16
Trichlorofluoromethane	ND		25.0	25.3		ug/L		101	62 - 150	4	20
Vinyl chloride	ND		25.0	26.6		ug/L		106	65 - 133	1	15
Xylenes, Total	ND		50.0	57.2		ug/L		114	76 - 122	1	16

Eurofins TestAmerica, Buffalo

Sample Summary

Client: Wood E&I Solutions Inc
Project/Site: NYSDEC Dinaburg Dist. site

Job ID: 480-172646-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-172646-1	828103-MW03CA030 ▾	Water	07/16/20 10:00	07/21/20 10:00	
480-172646-2	828103-MW03A015 ▾	Water	07/16/20 12:20	07/21/20 10:00	
480-172646-3	828103-MW03D50 ▾	Water	07/16/20 13:40	07/21/20 10:00	
480-172646-4	828103-MW16K022 ▾	Water	07/16/20 17:25	07/21/20 10:00	
480-172646-5	828103-MPE17012 ▾	Water	07/16/20 09:55	07/21/20 10:00	
480-172646-6	828103-MW21S010 ▾	Water	07/16/20 12:35	07/21/20 10:00	
480-172646-7	828103-MW18S010 ▾	Water	07/16/20 14:40	07/21/20 10:00	
480-172646-8	828103-GWE2021 ▾	Water	07/16/20 17:45	07/21/20 10:00	
480-172646-9	TRIP BLANK 2 ▾	Water	07/15/20 12:00	07/21/20 10:00	
480-172646-10	828103-MW19S010 ▾	Water	07/17/20 07:41	07/21/20 10:00	
480-172646-11	828103-MW17S010 ▾	Water	07/17/20 09:40	07/21/20 10:00	
480-172646-12	828103-MW20S010 ▾	Water	07/17/20 10:50	07/21/20 10:00	
480-172646-13	828103-MW14KA022 ▾ 828103-MW14KA022	Water	07/17/20 11:10	07/21/20 10:00	
480-172646-14	828103-MW14KA022D ▾ 828103-MW14KA022D	Water	07/17/20 11:10	07/21/20 10:00	
480-172646-15	828103-MW16S010 ▾	Water	07/17/20 13:20	07/21/20 10:00	

Job Narrative
480-172646-1

Comments

No additional comments.

Receipt

The samples were received on 7/21/2020 10:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA

OK Method 8260C: The continuing calibration verification (CCV) associated with batch 480-541926 recovered outside acceptance criteria, low biased, for Cyclohexane, 1,1,2-Trichloro-1,2,2-trifluoroethane and Methylcyclohexane. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. The associated samples are impacted: 828103-MW03A015 (480-172646-2), 828103-MW16K022 (480-172646-4), 828103-MPE17012 (480-172646-5), 828103-MW18S010 (480-172646-7), 828103-GWE2021 (480-172646-8), TRIP BLANK 2 (480-172646-9), 828103-MW19S010 (480-172646-10), 828103-MW17S010 (480-172646-11), 828103-MWKA022 (480-172646-13), 828103-MWKA022D (480-172646-14) and 828103-MW16S010 (480-172646-15).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 828103-MW03A015 (480-172646-2), 828103-MW16K022 (480-172646-4), 828103-MW18S010 (480-172646-7), 828103-GWE2021 (480-172646-8), 828103-MW19S010 (480-172646-10), 828103-MWKA022 (480-172646-13), 828103-MWKA022D (480-172646-14) and 828103-MW16S010 (480-172646-15). Elevated reporting limits (RLs) are provided. MEMO

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: 828103-MW21S010 (480-172646-6). Elevated reporting limits (RLs) are provided. MEMO

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 828103-MW03CA030 (480-172646-1), 828103-MW19S010 (480-172646-10) and 828103-MW20S010 (480-172646-12). Elevated reporting limits (RLs) are provided. MEMO

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Wood E&I Solutions Inc
Project/Site: NYSDEC Dinaburg Dist. site

Job ID: 480-172646-1

Client Sample ID: 828103-MW19S010

Lab Sample ID: 480-172646-10

Date Collected: 07/17/20 07:41

Matrix: Water

Date Received: 07/21/20 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			07/24/20 17:31	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			07/24/20 17:31	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			07/24/20 17:31	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/24/20 17:31	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/24/20 17:31	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/24/20 17:31	4
1,2,3-Trichlorobenzene	ND		4.0	1.6	ug/L			07/24/20 17:31	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			07/24/20 17:31	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			07/24/20 17:31	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			07/24/20 17:31	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			07/24/20 17:31	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/24/20 17:31	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			07/24/20 17:31	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			07/24/20 17:31	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			07/24/20 17:31	4
1,4-Dioxane	ND		160	37	ug/L			07/24/20 17:31	4
2-Butanone (MEK)	ND		40	5.3	ug/L			07/24/20 17:31	4
2-Hexanone	ND		20	5.0	ug/L			07/24/20 17:31	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			07/24/20 17:31	4
Acetone	ND		40	12	ug/L			07/24/20 17:31	4
Benzene	ND		4.0	1.6	ug/L			07/24/20 17:31	4
Bromodichloromethane	ND		4.0	1.6	ug/L			07/24/20 17:31	4
Bromoform	ND		4.0	1.0	ug/L			07/24/20 17:31	4
Bromomethane	ND		4.0	2.8	ug/L			07/24/20 17:31	4
Carbon disulfide	ND		4.0	0.76	ug/L			07/24/20 17:31	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/24/20 17:31	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/24/20 17:31	4
Chlorobromomethane	ND		4.0	3.5	ug/L			07/24/20 17:31	4
Chloroethane	ND		4.0	1.3	ug/L			07/24/20 17:31	4
Chloroform	ND		4.0	1.4	ug/L			07/24/20 17:31	4
Chloromethane	ND		4.0	1.4	ug/L			07/24/20 17:31	4
cis-1,2-Dichloroethene	1200	analyzed at additional dilution	4.0	3.2	ug/L			07/24/20 17:31	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			07/24/20 17:31	4
Cyclohexane	ND		4.0	0.72	ug/L			07/24/20 17:31	4
Dibromochloromethane	ND		4.0	1.3	ug/L			07/24/20 17:31	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			07/24/20 17:31	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/24/20 17:31	4
Isopropylbenzene	ND		4.0	3.2	ug/L			07/24/20 17:31	4
Methyl acetate	ND		10	5.2	ug/L			07/24/20 17:31	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			07/24/20 17:31	4
Methylcyclohexane	ND		4.0	0.64	ug/L			07/24/20 17:31	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/24/20 17:31	4
Styrene	ND		4.0	2.9	ug/L			07/24/20 17:31	4
Tetrachloroethene	110		4.0	1.4	ug/L			07/24/20 17:31	4
Toluene	ND		4.0	2.0	ug/L			07/24/20 17:31	4
trans-1,2-Dichloroethene	8.9		4.0	3.6	ug/L			07/24/20 17:31	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			07/24/20 17:31	4
Trichloroethene	120		4.0	1.8	ug/L			07/24/20 17:31	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			07/24/20 17:31	4

Eurofins TestAmerica, Buffalo

Sample ID: 828103-MW13K018
 TC: cis-1,2-dichloroethene
 ICAL Level: 3
 Val File Result for TC: 3100

Ical Calc

Area TC	21115	1	1.2047
Area IS	183354	2	1.1489
		3	1.4395
Conc TC	2	4	1.5351
Conc IS	25	5	1.5206
		6	1.4848
RRF =	1.439497	7	1.4532
		8	1.5367
		9	
		10	
		Avg RRF =	1.415438
		Std Dev =	0.152293
		%RSD =	10.75941

Sample Calc

Area TC	217950	DF	125
Area IS	154713		
Conc IS	25		
Avg RRF	1.415438		
Conc TC =	24.88166 µg/L		

Notes:

Green = matched reported value

Red = did not match reported value

ATTACHMENT 3

GROUNDWATER CONTAMINANT TREND PLOTS

GROUNDWATER CONTAMINANT TREND PLOTS (ERH Operated from 5/28/2015 through 12/9/2015)

