VIA ELECTRONIC MAIL

July 2, 2019

Jenelle Wallace
Environmental Engineer
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7017

Re: 2019 Semiannual Progress Report – January through June 2019
Former Dover Electronics Site, Kirkwood, Broome County, New York
NYSDEC Site No. 7-04-026

Dear Ms. Wallace,

On behalf of Dover Corporation, Verina Engineering, P.C. (VERINA) has prepared this 2019 Semiannual Progress Report to summarize the remedial activities which have been performed from January through June 2019 at the former Dover Electronics site in Kirkwood, New York, NYSDEC Site No. 7-04-026. Figure 1 is the site map with the monitoring well locations.

The field activities completed during the reporting period include:

- Six rounds of monthly manual injection of sodium permanganate as part of the in-situ chemical oxidation (ISCO) remediation process at select wells;
- Site-wide groundwater gauging and well inspections in March 2019;
- Collection of groundwater samples for laboratory analysis from select monitoring wells/points in March 2019;
- Abandonment of seven select wells at the site in April 2019;
- Repair to the inner casing and manhole at well MW-28 in April 2019;
- Monthly inspection of seven areas associated with the environmental Deed Restrictions and their engineering controls;
- Monthly operation, monitoring and maintenance (OM&M) of the ASD system; and,
- Collection of annual indoor air samples in March 2019.

ISCO Injection System Operation

Monthly manual ISCO injection events, utilizing a 10% sodium permanganate solution, began in December 2013. The goal of the ISCO injection events is to reduce the levels of the residual site compounds of concern (COCs) in groundwater.

Between January and March 2019, manual injection was implemented monthly at wells IJ-1, IJ-2, IJ-3, IJ-4, IJ-5, IJ-7, IJ-8, IJ-9, IJ-10, MW-7A, MW-16, MW-24, MP-4, MP-5, MP-11, MP-12, and MP-14 located within the source area and at wells IJ-6, MW-25R, and MW-28 located within the Pilot Truck Stop area. However, as discussed below, wells IJ-3, IJ-4, IJ-9 and IJ-10 were abandoned in April 2019 and therefore were not used for injection past March 2019. During the reporting period, a total of 5,895 gallons of 10% sodium permanganate solution were injected into the select wells, with about 1,000 gallons of permanganate solution being injected on a monthly basis, except for the month of June. During the June injection event, severe thunderstorms had occurred and therefore limited the amount injection activities that took place in June. A summary of each monthly injection event occurring between January and June 2019 is presented in Table 1.

Monitoring Well Abandonment and Repair

In February 2019, VERINA was informed by the property owner, Modern Marketing Concepts, of their plan to repave their entire parking lot area in Spring 2019. As several of the monitoring wells and points were located within this parking area, VERINA developed a plan to abandon several of these wells and points. Additionally, VERINA included two monitoring wells from the Pilot Truck Stop area, MW-30 and MW-37, in the abandonment plan as these wells were previously noted to be in disrepair and unfit for sampling and were located in a high truck traffic area, which was also a health and safety concern.

VERINA's well abandonment plan was approved by NYSDEC on March 21, 2019. The abandonment work was performed in April 2019 by Parratt Wolff, Inc. of East Syracuse, New York and was done in accordance with NYSDEC's CP-43: Groundwater Monitoring Well Decommissioning Policy. The monitoring wells and points abandoned included IJ-3, IJ-4, IJ-9, IJ-10, MW-8, MW-30 and MW-37. The updated site map showing the abandoned well locations is presented as Figure 1 and the well abandonment logs are presented in Attachment 1. In addition, Parratt Wolff, Inc. also repaired the inner casing and replaced the manhole cover at MW-28 within the Pilot Truck Stop area during April 2019. MW-28 will be resurveyed for its vertical elevation prior to the September 2019 groundwater sampling event.

Groundwater Monitoring Program

Site-wide groundwater elevation measurements were collected on March 18, 2019 from all available monitoring wells and points at the site. These groundwater elevation measurements were then used to generate groundwater flow maps for both the shallow and intermediate aquifers at the site. The groundwater elevation measurements are presented in Table 2. The groundwater flow maps for the March 2019 gauging event for the shallow aquifer and the intermediate aquifer are shown on Figure 2 and Figure 3, respectfully.

The groundwater flow maps indicate groundwater in both the shallow and intermediate aquifers generally flows from northeast to south-southwest, which is consistent with previous observations.

Between March 18 and 19, 2019, groundwater samples were collected from a total of 19 monitoring wells and points in both the source area and the Pilot Truck Stop area. The samples were submitted for laboratory analysis as part of the ISCO performance monitoring program. The wells and points sampled in this event are listed below:

- Source Area: MP-3D, MP-4, MP-5, MP-6S, MP-12, MP-14, MW-2, MW-7A, MW-16, MW-17, MW-22 and injection points IJ-4, IJ-5, IJ-8 and IJ-10.

- The Pilot Truck Stop Area: MW-25R, MW-27 and MW-28.

One additional well, MP-11, was scheduled to be sampled but a thick layer of snow was found to have been plowed over the location of the well during this sampling event and, therefore, prevented VERINA personnel from accessing this well.

Groundwater samples were collected using the low flow purging and sampling method. During purging, the groundwater was monitored using a calibrated YSI Model 600XL portable water quality meter for several parameters including dissolved oxygen (D.O.), temperature, pH, oxidation-reduction potential (ORP), and specific conductivity. A LaMotte 2020we turbidity meter was used to monitor the turbidity. The groundwater samples were analyzed for site-specific parameter list (SSPL) VOCs, which includes tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), cis- and trans-1,2-dichloroethene (1,2-DCE), 1,1-dichloroethane (1,1-DCA), and vinyl chloride (VC) via USEPA Method 8260C.

A summary of the March 2019 groundwater analytical results is provided on Table 3 and the distribution of VOCs is presented on Figure 4. The complete laboratory analytical report and the NYSDEC EDD submittal for the March 2019 groundwater sampling event will be provided with the annual progress report.

The following observations were made upon review of the groundwater quality data:

- SSPL VOCs detected in the groundwater samples collected from the monitoring wells and injection wells in the shallow and intermediate aquifers showed generally decreasing trends since the implementation of ISCO at the site.

- The analytical results show that the major daughter products resulting from the breakdown of PCE continue to be present within monitoring wells or points, particularly cis-1,2-DCE and TCE.

Deed Restriction Area Inspections

Monthly inspections of the seven deed restriction areas were conducted during the reporting period. The location of each deed restriction area is presented on Figure 5.

The inspections included a visual evaluation of the condition and integrity of the capped deed restrictions areas and documentation with photos. All asphalt, concrete, or soil caps were noted to be in good condition in all deed restriction areas. VERINA will continue the monthly inspections of the deed restriction areas and will take action to repair such caps if a poor condition is observed during inspection.

ASD System Inspection

Monthly inspections of the ASD system were conducted during the reporting period. The ASD system was also checked daily by MMC personnel to verify that it was operating. The monthly

inspections indicated that the system is operating as designed and satisfactorily. During this period there was no reported down time for the ASD system.

Indoor Air Sampling

Annual indoor air samples were taken from seven locations within the site building on March 21, 2019 (Figure 6). The sampling locations include areas where employees commonly work and areas where SSPL VOCs were detected in historic sub-slab vapor samples, and are consistent with the previous indoor air sampling locations. Additionally, one ambient air sample was collected from the exterior of the building.

Indoor and ambient air samples were collected over an 8-hour period in 6-liter stainless steel Summa canisters and analyzed for VOCs by USEPA Method TO-15. The analytical results are presented in Table 4. The complete laboratory analytical report and the NYSDEC EDD submittal for the March 2019 indoor air sampling event will be provided in the annual progress report.

A review of the indoor air analytical results indicated that all detected compounds were below the NYSDOH guidance values.

Proposed Schedule for the Second Half of 2019

VERINA is planning to perform the following work from July to December of 2019:

- Refilling of the sodium permanganate above ground storage tank (AST) in Fall 2019;
- Pending Modern Marketing Concepts' parking lot pavement activity, repair well manholes and pads at 10 well locations;
- Installation of replacement intermediate zone monitoring well (proposed well MW-39) for abandoned well MW-37 within the Pilot Truck Stop Area;
- Survey of the replacement monitoring well MW-39 and repaired well MW-28;
- Conduct site-wide groundwater gauging event in September 2019;
- Conduct annual groundwater sampling event in September 2019;
- Conduct monthly ASD system inspection to ensure proper operation of the system;
- Conduct monthly manual sodium permanganate injections in both the source area and Pilot Truck Stop; and
- Conduct monthly inspections on the deed restriction areas in accordance with the approved OM&M Plan, with maintenance of such cap areas occurring as needed.

The annual progress report is scheduled for submittal in January 2020.

Please call if you have any questions or need additional information.

Very truly yours,

VERINA ENGINEERING, P.C.

D. Robert Gan, Ph.D., P.E.
President

ATTACHMENTS:

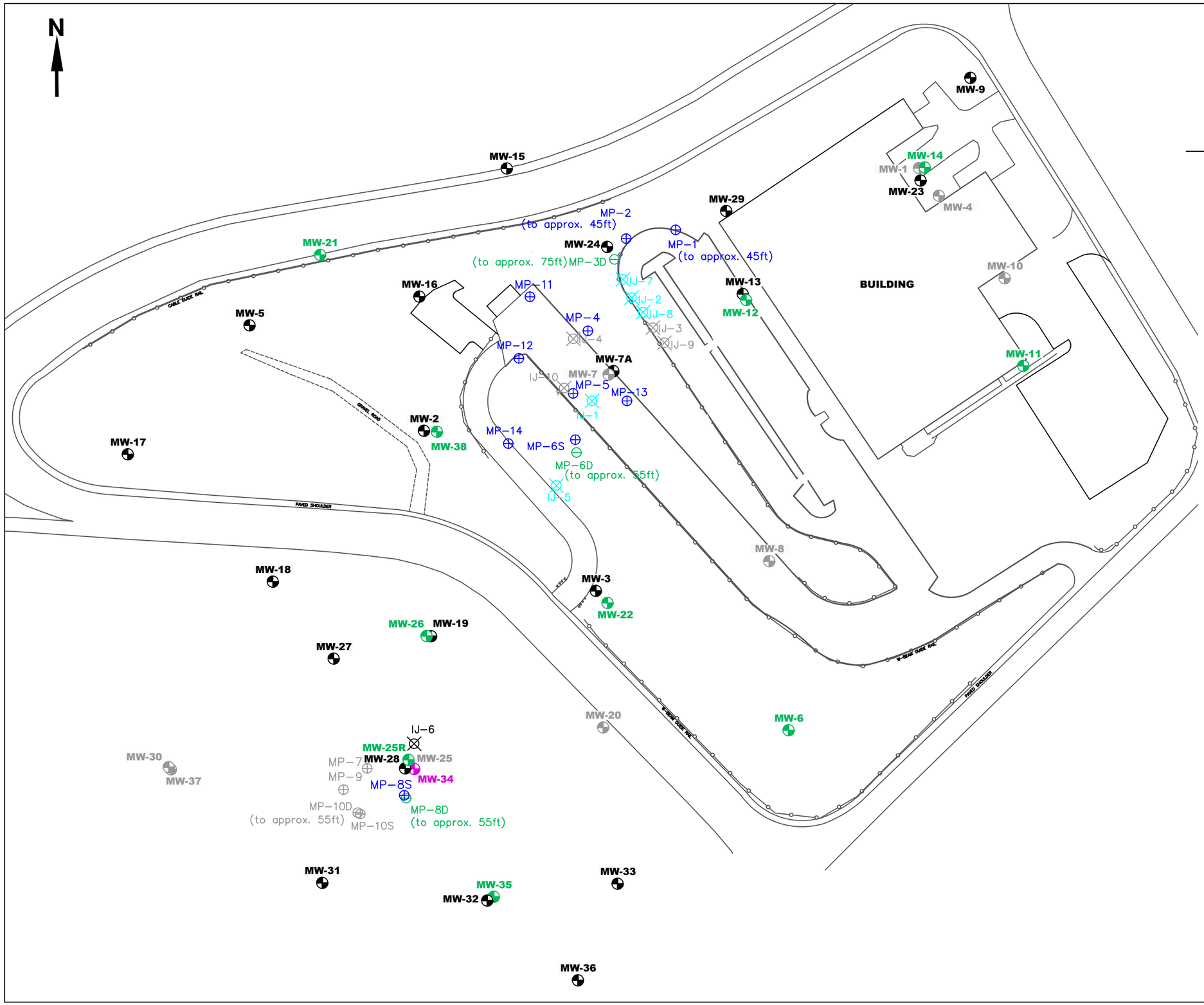
Figure 1 – Site Map with Monitoring Well Locations
Figure 2 – Shallow Groundwater Elevation Isocontours, March 18, 2019
Figure 3 – Intermediate Groundwater Elevation Isocontours, March 18, 2019
Figure 4 – Groundwater Analytical Results
Figure 5 – Soil Cap Areas
Figure 6 – ASD System and Indoor Air Sampling Locations

Table 1 – Manual ISCO Injection Summary, January – June 2019
Table 2 – Groundwater Elevation Data - March 2019
Table 3 – Groundwater Analytical data – March 2019
Table 4 – Indoor Air Sampling Analytical Results - March 2019

Attachment 1 – Monitoring Well Abandonment Logs

cc: w/enc.: M. Post (DOVER)

Figures



EXPLANATION

- MW-2 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- MW-6 — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
- MW-34 — DESIGNATION AND APPROXIMATE LOCATION OF DEEP MONITORING WELL
- MW-1 — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- MP-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- MP-10S — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- MP-6D — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- IJ-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- IJ-6 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996
MONITORING WELLS OBTAINED FROM HULBERT ENGINEERING AND LAND SURVEYING, DPC, AUGUST 28, 2015 AND UPDATED ON MARCH 28, 2018

0 110 FT.

APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

SITE MAP WITH MONITORING WELL LOCATIONS

VERINA Engineering, P.C.

1

N

MW-15 NM
MW-9 879.37
MW-14
MW-1
MW-23 881.84
MW-4
MW-29 NM
MW-24 882.61*
MW-21
MW-16 862.54
MW-5 NM
MW-13 883.27
MW-12
BUILDING
MW-10
MW-11
MW-7A 874.47
MW-7
MW-2 856.75
MW-38
MW-17 847.16
MW-8
MW-3 852.38
MW-22
MW-18 852.07*
MW-26
MW-19 NM
MW-27 845.64
MW-20
MW-6
MW-30 NM
MW-37
MW-28 859.09*
MW-25R
MW-25
MW-34
MW-31 847.46
MW-35
MW-32 859.47*
MW-33 853.17
MW-36 NM

MP-1 868.43
MP-2 874.74 (to approx. 45ft)
MP-3 901.89*
MP-3D 896.53
MP-4 876.51
MP-4D 887.59
MP-5 869.59
MP-6S 869.20
MP-6D (to approx. 55ft)
MP-7
MP-8S 845.91
MP-8D (to approx. 55ft)
MP-9
MP-10D (to approx. 55ft)
MP-10S
MP-11 868.43
MP-12 863.84
MP-13 872.99
MP-14 858.72
MP- 874.37 (to approx. 45ft)

IJ-1 NM
IJ-2
IJ-3 908.01*
IJ-4 NM
IJ-5 NM
IJ-6
IJ-7
IJ-8
IJ-9
IJ-10 868.93

875.00
880.00
870.00
865.00
860.00
855.00
850.00

GABLE GUIDE
GRAVEL ROAD
PAVED SHOULDER
RE-BEAM GUIDE RAIL

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876.88 GROUNDWATER ELEVATION (FT., MSL)

GROUNDWATER ELEVATION ISOCONTOUR INTERVAL IN FT., MSL (DASHED WHERE INFERRED)

ARROW INDICATES GENERALIZED GROUNDWATER FLOW DIRECTION

CONTOUR INTERVAL = 5.0 FT., MSL
AVERAGE HYDRAULIC GRADIENT = 0.036 FT/FT

NOTES:
1) FT., MSL = FEET, MEAN SEA LEVEL
2) NM = NOT MEASURED
3) * = INDICATES RESULT NOT INCLUDED IN GENERATION OF ISOCONTOURS

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
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0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

SHALLOW GROUNDWATER ELEVATION ISOCONTOURS MARCH 18, 2019

VERINA Engineering, P.C.

2

N

MW-15
MW-21
NM
MW-5
MW-16
MW-17
MW-2
MW-38
860.79
MW-18
MW-26
NM
MW-19
MW-27
MW-30
MW-37
NM
MW-31
MW-32
MW-35
845.92
MW-33
MW-36
MW-24
875.22
MW-29
MW-9
MW-14
883.53
MW-1
MW-23
MW-4
MW-10
BUILDING
MW-13
MW-12
876.50
MW-11
879.02
MW-7A
MW-7
MW-3
MW-22
858.63
MW-8
NM
MW-20
MW-6
NM
MW-25R
847.34
MW-28
MW-25
MW-34
870.44
(to approx. 55ft)
846.63
(to approx. 55ft)
(to approx. 75ft)
(to approx. 45ft)
(to approx. 45ft)
(to approx. 55ft)
(to approx. 55ft)
MP-1
MP-2
MP-3D
MP-4
MP-5
MP-6D
MP-7
MP-8D
MP-8S
MP-9
MP-10D
MP-10S
MP-11
MP-12
MP-13
MP-14
IJ-1
IJ-2
IJ-3
IJ-4
IJ-5
IJ-6
IJ-7
IJ-8
IJ-9
IJ-10
880.00
875.00
870.00
865.00
860.00
855.00
850.00
GRAVEL ROAD
PAVED SHOULDER
4-BAR GUIDE RAIL

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- MW-34 — DESIGNATION AND LOCATION OF DEEP MONITORING WELL

880.04 GROUNDWATER ELEVATION (FT., MSL)

GROUNDWATER ELEVATION ISOCONTOUR INTERVAL IN FT., MSL (DASHED WHERE INFERRED)

CONTOUR INTERVAL = 5.0 FT., MSL
AVERAGE HYDRAULIC GRADIENT = 0.036 FT/FT

NOTES:
1) FT., MSL = FEET, MEAN SEA LEVEL
2) NM = NOT MEASURED
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0 110 FT.
APPROXIMATE SCALE

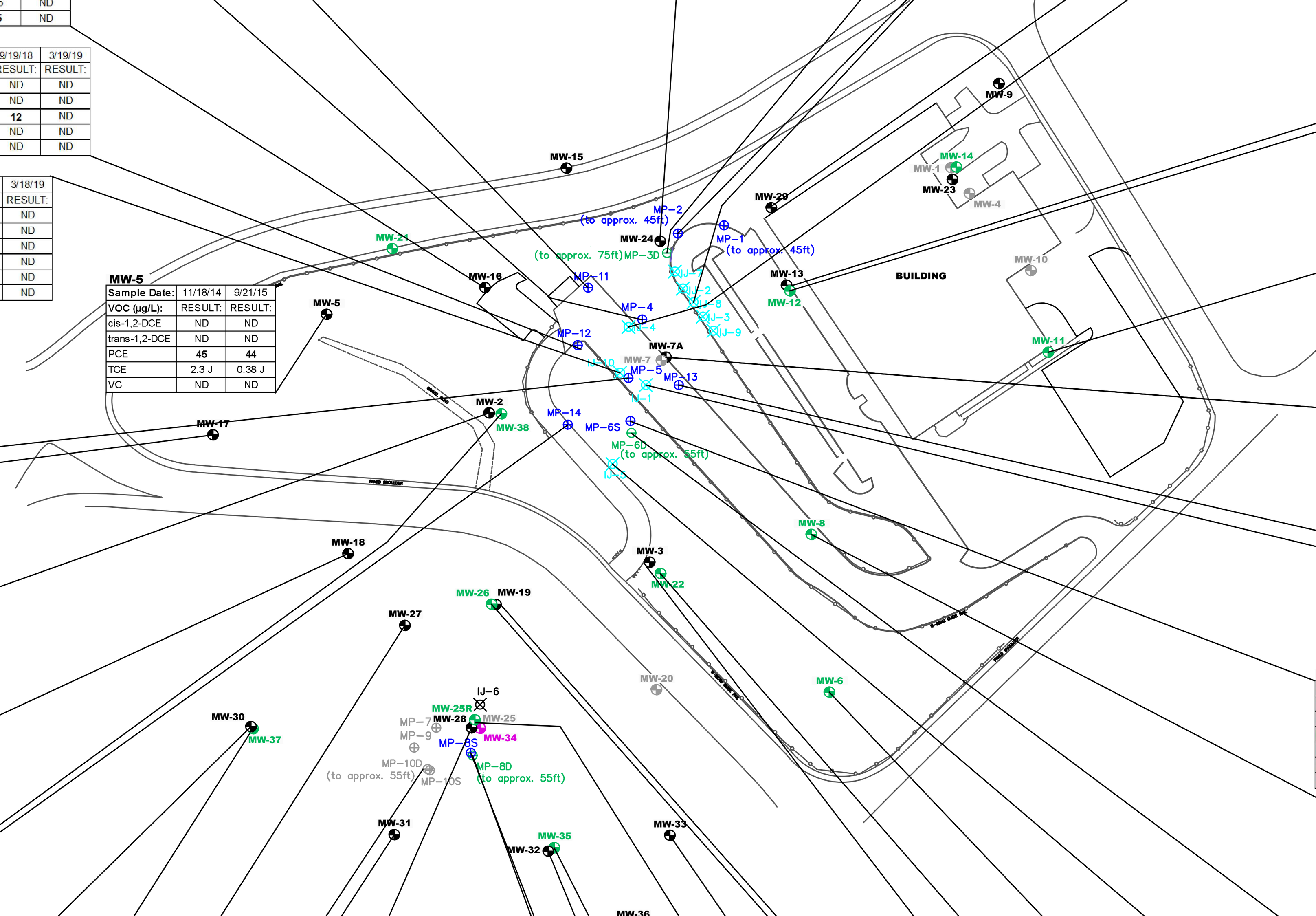
FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

INTERMEDIATE GROUNDWATER ELEVATION ISOCONTOURS MARCH 18, 2019

VERINA Engineering, P.C.

3

N



MP-11

Sample Date:	10/28/11	12/19/11	2/15/12	4/19/12	6/21/12	9/19/12	12/18/12	3/13/13	9/4/13	3/18/14	9/17/14	3/16/15	9/22/15	3/15/16	9/13/16	9/13/17	9/18/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
1,1-DCE	ND	ND	0.29 J	ND	0.31 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-DCE	5.4	15	24	30	29	38	50	52	43 D	34	ND	2.3 J	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	0.23 J	ND	0.35 J	0.36 J	0.80 DJ	ND	ND	ND	ND	ND	ND	ND	ND
PCE	11	25	32	41	52	86	110	170	200 D	220	3.1 J	67	ND	3.4 J	4.1	7.7	ND
TCE	0.28 J	0.36 J	0.36 J	0.34 J	0.49 J	0.99 J	1.0 J	1.4 J	1.8 DJ	1.6 J	ND	ND	ND	ND	ND	ND	ND
VC	9.2	18	22	32	31	32	44	23	26 D	17	ND	ND	ND	ND	ND	ND	ND

MP-2

Sample Date:	3/17/10	12/27/12	3/16/15	3/15/16	3/20/17	3/23/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	1.2 J	3.3 J	1.6 J	4.9	0.74 J	0.31
trans-1,2-DCE	ND	ND	ND	ND	ND	ND
PCE	17	39	3.1 J	2.5	4.0	3.0
TCE	2.0 J	5.3	1.8 J	4.1	2.6	1.4
VC	ND	ND	ND	ND	ND	ND

MP-4

Sample Date:	3/16/10	12/19/11	2/15/12	4/18/12	6/19/12	9/19/12	12/20/12	3/14/13	9/4/13	3/19/14	9/17/14	3/17/15	9/22/15	3/16/16	9/14/16	3/21/17	9/13/17	3/23/18	9/19/18	3/18/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND (ND)	ND	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND (ND)	ND	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND	ND
PCE	9500	11000	6500	6600	8200	11000 D	7700	8600 (9000)	13000 D	11000	12000	10000	970 (1200)	3000 D	1400 (1300)	2500 (2800)	820 (610)	1300 (1300)	2400	1.0 J
TCE	ND	32 J	ND	ND	ND	ND	ND	ND (12 J)	26 DJ	ND	ND	ND	ND (ND)	ND	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND	ND
VC	ND	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND (ND)	ND	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND	ND

MW-24

Sample Date:	3/19/10	12/21/12	9/22/15	9/13/16	9/13/17	9/18/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	4.2 J	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND	ND
PCE	150	22	2.8 J	9.8	0.30 J	2.5 J
TCE	5 J	ND	ND	ND	ND	ND
VC	ND	ND	ND	ND	ND	ND

MP-3D

Sample Date:	9/23/13	9/18/14	3/23/18	3/18/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	1.2 J	0.85 J	0.32	0.63 J
trans-1,2-DCE	ND	ND	ND	ND
PCE	ND	ND	ND	ND
TCE	ND	ND	ND	ND
VC	0.40 J	ND	ND	ND

IJ-8

Sample Date:	3/23/18	3/19/19
VOC (µg/L):	RESULT:	RESULT:
1,1-DCE	ND	ND
cis-1,2-DCE	ND	ND
trans-1,2-DCE	ND	ND
PCE	0.36	ND
TCE	ND	ND
VC	ND	ND

MW-29

Sample Date:	3/19/10	12/27/12	9/25/13
VOC (µg/L):	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND
trans-1,2-DCE	ND	ND	ND
PCE	ND	ND	ND
TCE	ND	ND	ND
VC	ND	ND	ND

IJ-4

Sample Date:	12/21/11	2/15/12	4/18/13	6/21/12	9/19/12	12/20/12	3/14/13	9/4/13	3/18/14	9/17/14	3/17/15	9/22/15	3/15/16	9/13/16	3/20/17	9/13/17	3/23/18	9/19/18	3/18/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	200 J	240 J	ND	2.8 J	ND	ND	ND	ND	0.34 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	7300	7200	ND	1200 D	ND	ND	ND	ND	190	ND	ND	ND	ND	ND	ND	ND	4.8	ND	ND
TCE	100 J	120 J	ND	4.0 J	ND	ND	ND	ND	0.39 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-TCA	ND	ND	ND	0.64 J	0.39 J	ND	ND	ND	ND	ND	0.43 J	ND	ND	ND	ND	ND	ND	ND	ND
VC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-16

Sample Date:	3/17/10	12/21/11	2/15/12	4/19/12	6/21/12	9/20/12	12/18/12	3/13/13	9/4/13	3/18/14	9/18/14	3/16/15	9/22/15	3/15/16	9/14/16	3/20/17	9/13/17	3/23/18	9/20/18	3/19/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	4.0 J	4.5 J	4.7 J	3.4 J (3.8 DJ)	2.8 J	2.7 J	2.9 J	2.9 DJ	2.0 J	1.9 J	1.3 J	1.1 J	ND	0.34 J	ND	ND	ND	ND	24	ND
trans-1,2-DCE	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND
PCE	260	280	250	200 (190 D)	210	200	180	200 D	160	150	140	100	43	46	6.5	32	60	220	ND	0.66 J
TCE	5.8 J	6.5 J	5.3 J	4.0 J (4.3 DJ)	4.4 J	4.5 J	4.3 J	4.2 DJ	3.6 J	3.6 J	2.4 J	2.1 J	0.39 J	0.69 J	ND	ND	0.28 J	3.5	3.6	ND
VC	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-TCA	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.5	ND
1,1-DCA	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	ND

MP-12

Sample Date:	10/28/11	12/20/11	2/15/12	4/19/12	6/19/12	9/19/12	12/18/12	3/14/13	9/4/13	3/18/14	9/18/14	3/16/15	9/21/15	3/15/16	9/13/16	3/20/17	9/13/17	3/23/18	9/19/18	3/19/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	4.5 J	4.5 J	2.7 J	2.2 J	1.4 J	2.9 J	2.5 J	2.0 J	2.2 J	1.9 J	1.1 J	0.93 J	0.78 J	0.71 J	ND	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	78	77	51	36	28	79	48	34	49	27	31	26	15	13	ND	17	4.6	5.1	12	ND
TCE	4.4 J	3.9 J	2.8 J	2.1 J	1.6 J	3.7 J	2.7 J	1.8 J	2.7 J	1.4 J	1.2 J	0.88 J	0.54 J	0.44 J	ND	ND	ND	ND	ND	ND
VC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-13

Sample Date:	9/22/15	9/14/16	9/11/17	9/19/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND
PCE	17	33	19	13
TCE	0.59 J	1.4	0.60 J	0.99 J
VC	ND	ND	ND	ND

MW-12

Sample Date:	3/19/10	12/27/12	12/28/12	9/18/14
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND
PCE	ND	ND	ND	ND
TCE	ND	ND	ND	ND
VC	ND	ND	ND	ND

MW-11

Sample Date:	3/18/10	9/18/14
VOC (µg/L):	RESULT:	RESULT:
cis-1,2-DCE	ND	ND
trans-1,2-DCE	ND	ND
PCE	ND	ND
TCE	ND	ND
VC	ND	ND

IJ-10

Sample Date:	10/28/11	12/20/11	2/14/12	4/18/12	6/21/12	9/20/12	12/20/12	3/14/13	9/3/14	3/19/14	9/17/14	3/17/15	9/22/15	3/15/16	9/13/16	3/21/17	9/12/17	3/23/18	9/20/18	3/18/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
1,1-DCE	2.1 J	1.7 J	1.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND
cis-1,2-DCE	380	300	260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND
trans-1,2-DCE	0.70 J	2.5 J	4.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND
PCE	200	310	230	ND	ND	ND	ND	ND	2.0 J	0.92 J	1.5 J	ND	ND	ND (ND)	ND	7.6 J	ND	8.1	ND	ND
TCE	150	110	88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND
VC	1.1 J	2.0 J	3.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND

MW-5

Sample Date:	11/18/14	9/21/15
VOC (µg/L):	RESULT:	RESULT:
cis-1,2-DCE	ND	ND
trans-1,2-DCE	ND	ND
PCE	45	44
TCE	2.3 J	0.38 J
VC	ND	ND

MP-5

Sample Date:	3/18/10	12/19/11	2/16/12	4/18/12	6/19/12	9/20/12	12/20/12	3/14/13	9/3/13	3/19/14	9/17/14	3/17/15	9/21/15	3/15/16	9/13/16	3/20/17	9/13/17	3/23/18	9/18/18	3/18/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
1,1-DCE	ND	2.9 J	3.2 DJ	3.1 J	3.3 J	ND (ND)	ND	ND	3.0 J	ND (3.1 J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-DCE	31	38	27 DJ	33	29	21 J (23 J)	15 J	19 J	23 J	20 J (20 J)	14 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	860	1100 D	830 D	730	950	710 (750)	620	920	970	940 (940)	890	ND	11	280 D	ND	29	7.8	1.6	86	ND
TCE	28	42	29 DJ	32	42	29 (31)	25	28	36	33 J (33)	32	ND	ND	0.58 J	ND	ND	ND	ND	ND	ND
VC	6.7 J	13 J	8.5 DJ	11 J	6.6 J	3.0 J (3.9 J)	2.0 J	3.0 J	4.1 J	4.7 J (5.1 J)	1.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-7A

Sample Date:	3/16/10	12/19/11	2/14/12	4/18/12	6/19/12	9/20/12	12/20/12	3/15/13	9/4/13	3/18/14	9/17/14	3/17/15	9/22/15	3/15/16	9/15/16	3/20/17	9/13/17	3/23/18	9/20/18	3/19/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND (ND)	ND	ND	ND (ND)	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND (ND)	ND	ND	ND (ND)	ND	ND	ND	ND	ND
PCE	1700	2300 D	2700	2500	2700	1600	1100 (1200)	1900 D	550 (560 D)	240	780 D	35 (37)	4.1 J	780 D	ND (ND)	44	6.2	140	330 D	120
TCE	ND	3.7 J	5.8 J	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND (ND)	ND	0.22 J	ND (ND)	ND	ND	ND	ND	ND
VC	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND (ND)	ND	ND	ND (ND)	ND	ND	ND	ND	ND

MW-17

Sample Date:	3/18/10	12/27/12	9/24/13	11/18/14	9/15/16	3/23/18	3/19/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND	ND	ND	0.23 J
trans-1,2-DCE	ND	ND	ND	ND	ND	ND	ND
PCE	1.9 J	1.5 J	1.8 J	1.8 J	3.7	2.2	0.79 J
TCE	ND	ND	0.24 J	0.28 J	ND	ND	ND
VC	ND	ND	ND	ND	ND	ND	ND

MP-13

Sample Date:	10/28/11	12/19/11	2/15/12	4/18/12	6/19/12	9/20/12	12/21/12	9/25/13	9/17/14	9/22/15	9/13/16	9/11/17	9/18/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND
PCE	ND	1.2 J	3.7 J	0.82 J	0.60 J (0.44 J)	ND	0.61 J	ND	ND	ND	ND	ND	ND
TCE	1.2 J	0.9 J	0.5 J	0.38 J	0.50 J (0.51 J)	0.51 J	0.41 J	0.32 J	0.33 J	ND	ND	0.26 J	ND
VC	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND

MW-2

Sample Date:	3/17/10	12/27/12	3/16/15	3/15/16	3/20/17	3/23/18	3/18/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	1.2 J	3.3 J	1.6 J	4.9	0.74 J	0.31	2.6
trans-1,2-DCE	ND	ND	ND	ND	ND	ND	ND
PCE	17	39	3.1 J	2.5	4.0	3.0	0.43 J
TCE	2.0 J	5.3	1.8 J	4.1	2.6	1.4	2.4
VC	ND	ND	ND	ND	ND	ND	ND

IJ-1

Sample Date:	12/20/11	2/14/12	4/18/12	6/21/12	9/20/12	12/20/12	9/3/13	9/17/14	9/22/15	9/13/16	9/12/17	9/18/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	1.0 J	1.2 DJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	180	180 D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCE	1.6 J	2.0 DJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MP-6S

Sample Date:	3/17/10	12/19/11	2/16/12	4/18/12	6/19/12	9/19/12	12/20/12	3/14/13	9/3/13	3/19/14	9/17/14	3/17/15	9/21/15	3/16/16	9/13/16	3/21/17	9/12/17	3/23/18	9/19/18	3/18/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	5.4 J (4.7 J)	5.5 J	5.1 J	3.6 J	4.8 J	3.0 J	3.2 DJ	ND	1.4 J	1.8 J	ND	1.4 J	0.81 J	2.3 J	ND (0.57 J)	2.3	ND	ND	ND (ND)
trans-1,2-DCE	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND (ND)
PCE	1100	1500 (1000)	1200	980	970	920	420	750 D	590	470	450	270	290	290 D	260	200 (200)	280 D	13	260	330 D (350 D)
TCE	ND	8 J (6.3 J)	7.8 J	5.9 J	6.1 J	6.5 J	4.2 J	4.5 DJ	2.2 J	2.7 J	3.4 J	1.1 J	1.5 J	1.0	1.8 J	0.66 J (0.73 J)	2.3	ND	0.90 J	ND (ND)
VC	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND (ND)

MW-38

Sample Date:	9/21/15	9/14/16	9/12/17	9/19/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	1.3 J	1.2	1.3	0.99 J
trans-1,2-DCE	ND	ND	ND	ND
PCE	89	110	98	71
TCE	5.2	7.0	6.4	5.2
VC	ND	ND	ND	ND

MW-18

Sample Date:	3/15/10	12/29/12	9/24/13	9/19/14	9/18/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND
PCE	ND	ND	ND	ND	ND
TCE	ND	ND	ND	ND	ND
VC	ND	ND	ND	ND	ND

MP-14

Sample Date:	10/31/11	12/21/11	2/15/12	4/19/12	6/20/12	9/20/12	12/18/12	3/14/13	9/5/13	3/19/14	9/18/14	3/16/15	9/21/15	3/16/16	9/14/16	3/21/17	9/13/17	3/23/18	9/19/18	3/18/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	0.98 J	1.1 J	1.2 J (1.3 J	1.1 J	1.2 J	1.1 J	1.2 J	1.6 J	1.2 J	1.9 J	1.2 J	1.2 J	0.66 J	1.3	ND	ND	ND	ND	0.51 J	ND
trans-1,2-DCE	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	30	37	29 (27)	25	30	30	27	32	32	37	45	53	50	89	10	15	26	25	33	9.7
TCE	1.6 J	2.0 J	1.7 J (1.5 J	1.2 J	1.6 J	1.6 J	1.5 J	1.6 J	1.5 J	1.9 J	1.9 J	1.7 J	0.71 J	1.9	ND	ND	0.38 J	0.45	1.1	ND
VC	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-8

Sample Date:	3/18/10	12/28/12	9/24/13
VOC (µg/L):	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND (ND)
trans-1,2-DCE	ND	ND	ND (ND)
PCE	ND	ND	ND (ND)
TCE	ND	ND	ND (ND)
VC	ND	ND	ND (ND)

MP-6D

Sample Date:	3/17/10	12/19/11	2/16/12	4/18/12	6/19/12	9/20/12	12/21/12	3/14/13	9/5/13	3/20/14	9/17/14	9/20/15	9/12/16	9/12/17	9/18/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	ND	0.28 J	15	ND	ND	ND	ND	ND	1.3 J	0.37 J	1.4 J	0.54 J	ND	0.33 J	ND
TCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-30

Sample Date:	3/15/10	12/21/11	3/15/12	6/20/12	9/20/12	12/20/12	9/24/13	9/19/14	9/20/15	9/12/16	9/12/17
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	0.32 J	ND	0.30 J	ND	ND	ND	ND	0.51 J	0.93 J	0.59 J
trans-1,2-DCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	7.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCE	ND	0.37 J	ND	0.35 J	0.28 J	0.28 J	ND	ND	0.59 J	0.57 J	0.51 J
VC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

IJ-5

Sample Date:	12/21/11	2/15/12	4/19/12	6/20/12	9/20/12	12/18/12	3/15/13	9/5/13	3/19/14	9/18/14	3/23/18	3/18/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	0.90 J	0.44 J	ND	0.22 J	ND	ND	ND	ND	0.32 J	ND	1.5	ND
TCE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-6

Sample Date:	3/18/10	3/14/13	9/24/13	9/18/14
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND (ND)
trans-1,2-DCE	ND	ND	ND	ND (ND)
PCE	ND	ND	ND	ND (ND)
TCE	ND	ND	ND	ND (ND)
VC	ND	ND	ND	ND (ND)

MW-37

Sample Date:	3/16/10	9/19/14	9/20/15	9/12/16	9/12/17
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND
PCE	ND	8	17	27	1.1
TCE	ND	0.38 J	0.52 J	1.3	ND
VC	ND	ND	ND	ND	ND

MW-27

Sample Date:	9/20/15	9/14/16	9/12/17	3/23/18	3/18/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	15	14	11	1.5	11
trans-1,2-DCE	ND	ND	ND	ND	ND
PCE	20	34	1.3	2.8	0.55 J
TCE	7.7	5.7	0.51 J	0.53	0.57 J
VC	ND	ND	ND	ND	ND

MP-10D

Sample Date:	3/15/10	12/20/11	3/15/12	6/20/12	9/21/12	12/19/12	9/23/13
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND	ND	ND	ND
PCE	ND	ND	ND	ND	ND	ND	ND
TCE	ND	ND	ND	ND	ND	ND	ND
VC	ND	ND	ND	ND	ND	ND	ND

MW-22

Sample Date:	3/12/10	12/28/12	9/24/13	3/18/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND	ND
PCE	ND	ND	ND	ND
TCE	ND	ND	ND	ND
VC	ND	ND	ND	ND

MW-3

Sample Date:	9/20/15	9/14/16	9/12/17	9/19/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	2.8 J	1.1	1.1	ND
trans-1,2-DCE	ND	ND	ND	ND
PCE	100	75	130	ND
TCE	1.4 J	1.3	0.60 J	ND
VC	ND	ND	ND	ND

MW-31

Sample Date:	3/16/10	12/28/12	9/24/13	11/18/14	12/18/15	9/12/16	9/11/17	9/18/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	0.73 J	0.85 J	0.42 J	0.38 J (0.37 J)	0.49 J	ND	0.44 J	0.48 J
trans-1,2-DCE	ND	ND	ND	ND	ND	ND	ND	ND
PCE	ND	ND	ND	ND	ND	ND	ND	ND
TCE	ND	0.47 J	0.33 J	0.38 J (0.39 J)	0.80 J	0.44 J	0.61 J	0.35 J
VC	ND	ND	ND	ND	ND	ND	ND	ND

MW-19

Sample Date:	9/20/15	9/14/16	9/12/17
VOC (µg/L):	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	15	14	11
trans-1,2-DCE	0.41 J	ND	0.49 J
PCE	23	44	23
TCE	7.1	9.3	5.9
VC	0.58 J	ND	0.60 J

MW-26

Sample Date:	3/12/10	12/29/12	9/19/14	9/20/15	9/14/16	9/12/17
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	5.3	5.9 (6.1)	4.0 J	6.7	4.8	4.6
trans-1,2-DCE	ND	ND (ND)	ND	ND	ND	0.33 J
PCE	65	49 (50)	38	50	34	29
TCE	4.5 J	4.8 J (4.8 J	3.5 J	4.3 J	3.3	3.4
VC	ND	ND (ND)	ND	ND	ND	ND

MW-33

Sample Date:	1/8/00	9/24/13	9/20/14
VOC (µg/L):	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND
trans-1,2-DCE	ND	ND	ND
PCE	0.91 J	1.8 J	2.3 J
TCE	ND	0.82 J	0.56 J
VC	ND	ND	ND

MW-35

Sample Date:	9/12/17
VOC (µg/L):	RESULT:
cis-1,2-DCE	0.43 J
trans-1,2-DCE	ND
PCE	ND
TCE	ND
VC	ND

MW-25R

Sample Date:	3/23/18	9/19/18	3/19/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:
1,1-DCE	ND	ND	ND
cis-1,2-DCE	0.36	ND	ND
trans-1,2-DCE	ND	ND	ND
PCE	36	110	9.3
TCE	0.49	2.0 J	0.21 J
VC	ND	ND	ND

MW-28

Sample Date:	3/15/10	12/20/11	3/15/12	6/20/12	9/21/12	12/19/12	3/15/13	9/4/13	3/20/14	9/19/14	3/17/15	9/21/15	3/16/16	9/13/16	3/21/17	9/13/17	9/19/18	3/19/19
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
1,1-DCE	ND	ND	0.82 J	1.1 J	0.69 J	0.60 J	0.69 J	0.76 J	0.93 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-DCE	66	4.3 J	53	54	52	40	47	50	55	26	12	2.2 J	2.4	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	3.5 J	3.4 J	2.2 J	1.8 J	2.4 J	3.3 J	2.4 J	0.65 J	0.56 J	ND	ND	ND	ND	ND	ND	ND
PCE	270	340	52	47	180	190	170	110	43	36	41	3.8 J	11	7.5	0.41	ND	1.8 J	ND
TCE	110	5.5 J	49	48	77	64	60	53	50	27	12	3.1 J	2.1	0.31 J	ND	ND	ND	ND
VC	ND	ND	0.55 J	0.58 J	0.32 J	ND	0.41 J	0.42 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MP-8D

Sample Date:	3/15/10	12/20/11	3/16/12	6/20/12	9/21/12	12/19/12	9/23/13	9/19/14	9/21/15	9/13/16	9/12/17	9/18/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-DCE	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCE	ND	0.45 J	ND (ND)	ND	ND	0.86 J	ND	ND	ND	ND	ND	0.68 J
TCE	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND
VC	ND	ND	ND (ND)	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-32

Sample Date:	3/12/10	12/28/12	9/20/15	9/12/16	9/11/17	9/19/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
cis-1,2-DCE	ND	0.38 J	0.57 J	0.98 J	0.84 J	0.61 J
trans-1,2-DCE	ND	ND	ND	ND	ND	ND
PCE	ND	ND	ND	ND	ND	ND
TCE	ND	ND	ND	0.38 J	0.30 J	0.44 J
VC	ND	ND	ND	ND	ND	ND

MP-8S

Sample Date:	3/15/10	12/20/11	3/16/12	6/20/12	9/21/12	12/19/12	3/15/13	9/4/13	9/19/14	9/21/15	9/13/16	9/12/17	9/19/18
VOC (µg/L):	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:	RESULT:
1,1-DCE	1.4 J	1.3 J	0.95 J	1.1 J	1.3 J	1.4 J	1.3 J	1.2 J	0.88 J	ND	0.69 J	0.64 J	ND (0.65 J)
cis-1,2-DCE	69	81	64	86	93	79	87	85	81	64	52	78	23 (77)
trans-1,2-DCE	6.6	7.5	5.6	5.6	9.0	7.3	7.9	7.3	6.3	3.7 J	3.1	4.9	1.7 (5.0)
PCE	13	49	31	31	64	51	68	68	65	23	25	26	19 (35)
TCE	36	51	34	58	63	59	61	61	59	25	30	32	15 (38)
VC	1.5 J	1.9 J	1.5 J	1.7 J	1.7 J	1.8 J	1.9 J	1.2 J	0.84 J	0.46 J	0.36 J	0.74 J	ND (0.71 J)

N

EXPLANATION

- MW-2 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- MW-1 — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- MP−1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- MP−10S — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- MP−6D — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- IJ−1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- IJ−6 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW−INTERMEDIATE INJECTION WELL
- MW-6 — DESIGNATION AND LOCATION OF INTERMEDIATE MONITORING WELL
- MW-34 — DESIGNATION AND LOCATION OF DEEP MONITORING WELL

1. ALL CONCENTRATIONS GIVEN IN MICROGRAMS PER LITER (µg/L).
2. BOLDED RESULT INDICATES EXCEEDANCE OF NYSDEC GROUNDWATER QUALITY STANDARD (GWQS).
3. NYSDEC = NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
4. ND = NOT DETECTED.
5. VOCs = VOLATILE ORGANIC COMPOUNDS.
6. ( ) INDICATES DUPLICATE SAMPLE
7. D = COMPOUND IDENTIFIED IN AN ANALYSIS AT A SECONDARY DILUTION FACTOR
8. J = ESTIMATED VALUE
9. cis−1,2−DCE = cis−1,2−DICHLOROETHENE
10. trans−1,2−DCE = trans−1,2−DICHLOROETHENE
11. PCE = TETRACHLOROETHENE
12. TCE = TRICHLOROETHENE
13. VC = VINYL CHLORIDE
14. 1,1−DCE = 1,1−DICHLOROETHENE
15. 1,1,1−TCA = 1,1,1−TRICHLOROETHANE

VOC	NYSDEC GWQS (µg/L)
1,1-DCE	5
cis-1,2-DCE	5
trans-1,2-DCE	5
PCE	5
TCE	5
1,1,1,-TCA	5
VC	2

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK OCTOBER 7, 1996

0 150 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

GROUNDWATER ANALYTICAL RESULTS

VERINA Engineering, P.C.

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N

MW-9

MW-14

MW-1

MW-23

MW-4

MW-29

BUILDING

MW-10

MW-13

MW-12

MW-11

1 2 3 4 5 6 7

EXPLANATION

MW-2 DESIGNATION AND APPROXIMATE LOCATION OF MONITORING WELL

MW-1 DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL

BUILDING DEED NOTICE AREAS

EXTERIOR DEED NOTICE AREAS

DEPTH TO PCE–AFFECTED SOIL

1. 4 FEET
2. 6 FEET
3. 8 FEET
4. 8 FEET
5. 5 FEET
6. 7 FEET
7. 3 FEET

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

0 50 FT.

APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

SOIL CAP AREAS

VERINA Engineering, P.C.

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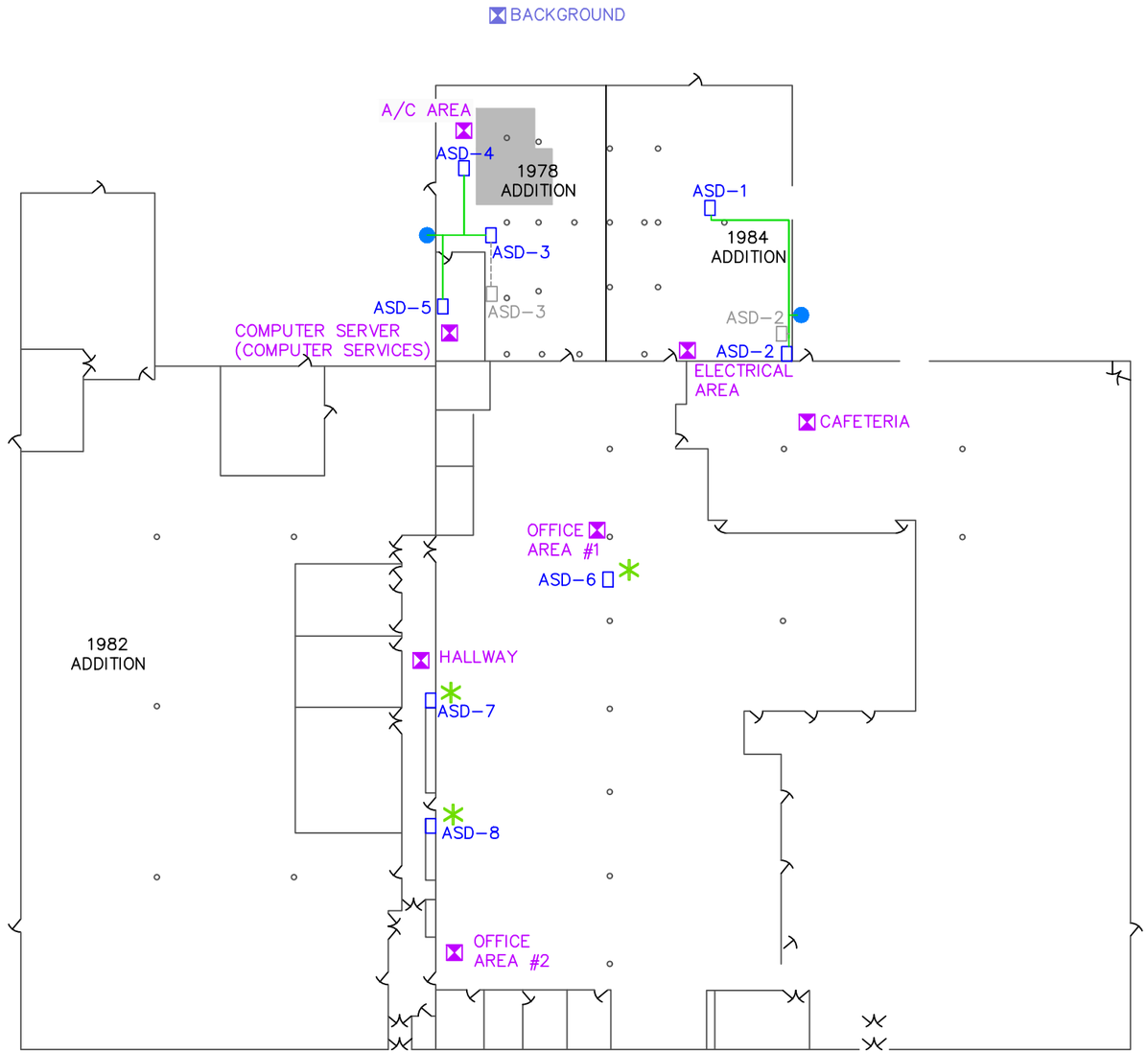

N

EXPLANATION

- EXISTING SUB-SLAB DEPRESSURIZATION POINT LOCATION
- EXISTING ASD PIPING RUN
- PREVIOUS SUB-SLAB DEPRESSURIZATION POINT LOCATION
- PREVIOUS ASD PIPING RUN
- EXTERIOR FAN AND EXHAUST LOCATION
- VERTICAL BUILDING POST
- INACCESSIBLE AREA
- INDOOR AIR SAMPLING LOCATION AND DESIGNATION
- AMBIENT (OUTDOOR) AIR SAMPLING LOCATION AND DESIGNATION
- DEDICATED FAN LOCATED ON RISER PIPE

SOURCE:
BUILDING LAYOUT DIGITIZED FROM PHOTOCOPY OF DRAWING FAXED FROM UNIVERSAL INSTRUMENTS CORPORATION FACILITIES DEPARTMENT.
NO FILE NAME OR SCALE PROVIDED.

DRAWING NOT TO SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

ASD SYSTEM AND INDOOR AIR SAMPLING LOCATIONS

VERINA Engineering, P.C.

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Tables

Table 1 - Manual ISCO Injection Summary, January - June 2019 - Former Dover Electronics Site, Kirkwood, New York

Injection Well ID	Injection Date(s)					
	January 15-17, 2019	February 19-21, 2019	March 21-23, 2019	April 23-25, 2019	May 14-16, 2019	June 18-20, 2019
	Volume Injected (gal)	**Volume Injected (gal)**	**Volume Injected (gal)**	**Volume Injected (gal)**	**Volume Injected (gal)**	**Volume Injected (gal)**
MW-7A	35	30	50	25	35	35
MW-16	150	155	150	150	150	140
MW-24	35	45	60	95	115	45
MW-25R	155	130	50	155	155	120
MW-28	30	5	15	20	30	25
MP-4	25	25	30	20	25	50
MP-5	85	70	125	140	140	130
MP-8S	0	5	0	0	0	10
MP-11	30	0	0	25	25	40
MP-12	120	210	135	100	105	55
MP-14	50	50	100	65	65	45
IJ-1	70	57	30	65	50	75
IJ-2	45	70	85	50	50	70
IJ-3	0	0	0			
IJ-4	20	13	15			
IJ-5	5	3	0	5	0	5
IJ-6	30	35	45	50	45	15
IJ-7	35	5	15	0	5	25
IJ-8	25	40	50	35	5	10
IJ-9	0	0	0			
IJ-10	55	52	45			
Total Injected Volume (gal)	**1000**	**1000**	**1000**	**1000**	**1000**	**895**

NOTES:

Gal = Gallons

ISCO injection solution is a 10% by weight sodium permanganate solution.

Gray = well abandoned

Table 2 Groundwater Elevation Data - March 2019, Former Dover Electronics Site, Kirkwood, New York

Monitoring Well/Point	Top of Casing (ft, msl)	Date	Depth to Water (ft, btoc)	Groundwater Elevation (ft, msl)	Total Depth (ft, btoc)	Screened Interval (ft, btoc)	Water Bearing Unit
MW-2	863.28	3/18/2019	6.53	856.75	16.61	5-15	Shallow
MW-3	859.16	3/18/2019	6.78	852.38	NM	5-15	Shallow
MW-5	864.68	3/18/2019	NM	-	NM	5-20	Shallow
MW-6	863.67	3/18/2019	NM	-	NM	15-35	Intermediate
MW-7A	882.74	3/18/2019	8.27	874.47	16.29	7-17	Shallow
MW-8	899.21	3/18/2019	NM	-	NM	30-60	Intermediate
MW-9	923.94	3/18/2019	44.57	879.37	60.67	30-60	Shallow
MW-11	918.87	3/18/2019	39.85	879.02	62.12	52-62	Intermediate
MW-12	912.31	3/18/2019	35.81	876.50	73.82	63-73	Intermediate
MW-13	912.14	3/18/2019	28.87	883.27	48.89	39-49	Shallow
MW-14	915.40	3/18/2019	31.87	883.53	72.69	62-72	Intermediate
MW-15	899.38	3/18/2019	NM	-	NM	36-46	Shallow
MW-16	878.87	3/18/2019	16.33	862.54	30.62	18-28	Shallow
MW-17	859.29	3/18/2019	12.13	847.16	19.98	8-18	Shallow
MW-18	857.34	3/18/2019	5.27	852.07	13.47	8-18	Shallow
MW-19	859.59	3/18/2019	NM	-	NM	8-18	Shallow
MW-21	883.22	3/18/2019	NM	-	NM	31-41	Intermediate
MW-22	861.62	3/18/2019	2.99	858.63	21.40	17-22	Intermediate
MW-23	916.62	3/18/2019	34.78	881.84	51.18	40.5-50.5	Shallow
MW-24	907.66	3/18/2019	25.05	882.61	42.40	35-45	Shallow
MW-25R	856.91	3/18/2019	9.57	847.34	40.01	34-39	Intermediate
MW-26	859.04	3/18/2019	NM	-	NM	22.5-27.5	Intermediate
MW-27	860.01	3/18/2019	14.37	845.64	NM	16.5-26.5	Shallow
MW-28	859.09	3/18/2019	0.00	859.09	NM	15-25	Shallow
MW-29	917.36	3/18/2019	NM	-	NM	39-49	Shallow
MW-30	857.69	3/18/2019	NM	-	NM	15-25	Shallow
MW-31	856.90	3/18/2019	9.44	847.46	21.37	13-23	Shallow
MW-32	861.18	3/18/2019	1.71	859.47	23.30	15.1-25.1	Shallow
MW-33	863.64	3/18/2019	10.47	853.17	22.44	15-25	Shallow
MW-34	857.03	3/18/2019	1.55	855.48	53.22	53-58	Deep
MW-35	856.89	3/18/2019	10.97	845.92	36.50	32-37	Intermediate
MW-36	857.19	3/18/2019	NM	-	NM	14-24	Shallow
MW-37	857.71	3/18/2019	NM	-	NM	31-36	Intermediate
MW-38	862.70	3/18/2019	1.91	860.79	NM	20-25	Intermediate
MP-1	912.63	3/18/2019	38.26	874.37	41.00	31-41	Shallow
MP-2	911.00	3/18/2019	36.26	874.74	45.74	34-44	Shallow
MP-3D	910.59	3/18/2019	35.37	875.22	NM	46-56	Intermediate
MP-4	883.65	3/18/2019	7.14	876.51	26.97	17-27	Shallow
MP-5	881.66	3/18/2019	12.07	869.59	24.19	14-24	Shallow
MP-6S	875.67	3/18/2019	6.47	869.20	24.03	14-24	Shallow
MP-6D	873.83	3/18/2019	3.39	870.44	49.00	39-49	Intermediate
MP-8S	857.40	3/18/2019	11.49	845.91	23.14	13-23	Shallow
MP-8D	857.20	3/18/2019	10.57	846.63	53.41	44-54	Intermediate
MP-11	875.80	3/18/2019	7.37	868.43	30.07	20-30	Shallow
MP-12	876.60	3/18/2019	12.76	863.84	25.01	15-25	Shallow
MP-13	884.30	3/18/2019	11.31	872.99	24.71	15-25	Shallow
MP-14	867.80	3/18/2019	9.08	858.72	25.13	15-25	Shallow
IJ-1	-	3/18/2019	NM	-	NM	15-25	Shallow
IJ-2	908.90	3/18/2019	12.37	896.53	NM	30-45	Shallow
IJ-3	909.40	3/18/2019	21.81	887.59	NM	30-45	Shallow
IJ-4	-	3/18/2019	NM	-	NM	10-25	Shallow
IJ-5	-	3/18/2019	NM	-	NM	10-25	Shallow
IJ-6	-	3/18/2019	NM	-	NM	10-20, 30-40	Shallow-Intermediate
IJ-7	909.00	3/18/2019	7.11	901.89	NM	30-45	Shallow
IJ-8	909.20	3/18/2019	12.39	896.81	NM	30-45	Shallow
IJ-9	909.50	3/18/2019	1.49	908.01	NM	30-45	Shallow
IJ-10	880.70	3/18/2019	11.77	868.93	26.01	10-25	Shallow

Notes:

NM = Not Measured

- = Not Available.

All wells gauged within a 24-hour period.

ft, btoc = Feet below top of inner well casing.

ft, msl = Feet above mean sea level.

Table 3 Groundwater Analytical Data - March 2019, Former Dover Electronics Site, Kirkwood, New York

Sample ID		IJ-4	IJ-5	IJ-8	IJ-10	MW-2	MW-7A
Laboratory ID		R1902347-007	R1902347-002	R1902347-017	R1902347-009	R1902347-006	R1902347-019
Date Sampled	NYSDEC	3/18/2019	3/18/2019	3/19/2019	3/18/2019	3/18/2019	3/19/2019
Units	GWQS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1-Dichloroethane	5	5.0 U	1.0 U	5.0 U	10 U	1.0 U	1.0 U
1,1-Dichloroethene	5	5.0 U	1.0 U	5.0 U	10 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	5.0 U	1.0 U	5.0 U	10 U	2.6	1.0 U
trans-1,2-Dichloroethene	5	5.0 U	1.0 U	5.0 U	10 U	1.0 U	1.0 U
Tetrachloroethene	5	5.0 U	1.0 U	5.0 U	10 U	0.43 J	**120**
1,1,1-Trichloroethane	5	5.0 U	1.0 U	5.0 U	10 U	1.0 U	1.0 U
Trichloroethene	5	5.0 U	1.0 U	5.0 U	10 U	2.4	1.0 U
Vinyl Chloride	2	5.0 U	1.0 U	5.0 U	10 U	1.0 U	1.0 U

Sample ID		MW-16	MW-17	MW-22	MW-25R	MW-27	MW-28
Laboratory ID		R1902347-022	R1902347-020	R1902347-005	R1902347-018	R1902347-008	R1902347-016
Date Sampled	NYSDEC	3/19/2019	3/19/2019	3/18/2019	3/19/2019	3/18/2019	3/19/2019
Units	GWQS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1-Dichloroethane	5	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1-Dichloroethene	5	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
cis-1,2-Dichloroethene	5	2.0 U	0.23 J	1.0 U	1.0 U	**11**	5.0 U
trans-1,2-Dichloroethene	5	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Tetrachloroethene	5	0.66 J	0.79 J	1.0 U	**9.3**	0.55 J	5.0 U
1,1,1-Trichloroethane	5	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Trichloroethene	5	2.0 U	1.0 U	1.0 U	0.21 J	0.57 J	5.0 U
Vinyl Chloride	2	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U

Sample ID		MP-3D	MP-4	MP-5	MP-6S	DUP 031819	MP-12
Laboratory ID		R1902347-003	R1902347-012	R1902347-004	R1902347-011	R1902347-014	R1902347-021
Date Sampled	NYSDEC	3/18/2019	3/18/2019	3/18/2019	3/18/2019	3/18/2019	3/19/2019
Units	GWQS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1-Dichloroethane	5	1.0 U	2.5 U	5.0 U	1.0 U	1.0 U	10 U
1,1-Dichloroethene	5	1.0 U	2.5 U	5.0 U	1.0 U	1.0 U	10 U
cis-1,2-Dichloroethene	5	0.63 J	2.5 U	5.0 U	1.0 U	1.0 U	10 U
trans-1,2-Dichloroethene	5	1.0 U	2.5 U	5.0 U	1.0 U	1.0 U	10 U
Tetrachloroethene	5	1.0 U	1.0 J	5.0 U	**330 D**	**350 D**	10 U
1,1,1-Trichloroethane	5	1.0 U	2.5 U	5.0 U	1.0 U	1.0 U	10 U
Trichloroethene	5	1.0 U	2.5 U	5.0 U	1.0 U	1.0 U	10 U
Vinyl Chloride	2	1.0 U	2.5 U	5.0 U	1.0 U	1.0 U	10 U

Sample ID		MP-14	FB-031819	FB-031919	TRIP BLANK		
Laboratory ID		R1902347-010	R1902347-013	R1902347-015	R1902347-001		
Date Sampled	NYSDEC	3/18/2019	3/18/2019	3/19/2019	3/18/2019		
Units	GWQS	ug/L	ug/L	ug/L	ug/L		
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U		
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U		
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U		
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U		
Tetrachloroethene	5	**9.7**	1.0 U	1.0 U	1.0 U		
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U		
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U		
Vinyl Chloride	2	1.0 U	1.0 U	1.0 U	1.0 U		

Notes:

J = Estimated value

µg/l = micrograms per liter

U = Compound analyzed for but not detected aboive method reporting limit given

"DUP" indicates the sample is a duplicate sample of that sample immediately preceding the duplicate sample on this table

Bold = concentration exceeds NYSDEC GWQS

NYSDEC = New York State Department of Environmental Conservation

GWQS = Ground Water Quality Standards

"FB" indicates the sample is an equipment blank sample

Table 4 Indoor Air Sampling Analytical Results - March 2019 - Former Dover Electronics Site, Kirkwood, New York

Sample Location	Background				Office Area #1				Office Area #2			
Sampling Date	3/22/2019				3/21/2019				3/21/2019			
Laboratory Sample ID	P1901630-008				P1901630-006				P1901630-005			
Units	ppbv	Q	µg/m³	Q	ppbv	Q	µg/m³	Q	ppbv	Q	µg/m³	Q
Volatile Organic Compounds												
1,1,1-Trichloroethane	0.14	U	0.76	U	0.15	U	0.83	U	0.16	U	0.87	U
1,1,2,2-Tetrachloroethane	0.11	U	0.74	U	0.12	U	0.82	U	0.13	U	0.86	U
1,1,2-Trichloroethane	0.14	U	0.76	U	0.15	U	0.83	U	0.16	U	0.87	U
1,1-Dichloroethane	0.18	U	0.73	U	0.20	U	0.80	U	0.21	U	0.84	U
1,1-Dichloroethene	0.19	U	0.76	U	0.21	U	0.83	U	0.22	U	0.87	U
1,2,4-Trichlorobenzene	0.10	U	0.74	U	0.11	U	0.82	U	0.12	U	0.86	U
1,2,4-Trimethylbenzene	0.15	U	0.74	U	0.17	U	0.82	U	0.17	U	0.86	U
1,2-Dibromo-3-chloropropane	0.075	U	0.73	U	0.083	U	0.80	U	0.087	U	0.84	U
1,2-Dibromoethane	0.098	U	0.76	U	0.11	U	0.83	U	0.11	U	0.87	U
Freon 114	0.10	U	0.71	U	0.11	U	0.79	U	0.12	U	0.83	U
1,2-Dichlorobenzene	0.13	U	0.76	U	0.14	U	0.83	U	0.15	U	0.87	U
1,2-Dichloroethane	0.18	U	0.74	U	0.20	U	0.82	U	0.21	U	0.86	U
1,2-Dichloropropane	0.16	U	0.76	U	0.18	U	0.83	U	0.19	U	0.87	U
1,3,5-Trimethylbenzene	0.15	U	0.74	U	0.17	U	0.82	U	0.17	U	0.86	U
1,3-Butadiene	0.33	U	0.73	U	0.36	U	0.80	U	0.38	U	0.84	U
1,3-Dichlorobenzene	0.13	U	0.76	U	0.14	U	0.83	U	0.15	U	0.87	U
1,4-Dichlorobenzene	0.13	U	0.76	U	0.14	U	0.83	U	0.15	U	0.87	U
1,4-Dioxane	0.21	U	0.74	U	0.23	U	0.82	U	0.24	U	0.86	U
2-Butanone	**3.6**		**10**		**1.1**		**3.3**		**1.2**		**3.5**	
2-Hexanone	0.18	U	0.76	U	0.20	U	0.83	U	0.21	U	0.87	U
2-Propanol	1.2	U	2.9	U	**38**		**93**		**63**		**160**	
3-Chloropropene	0.24	U	0.74	U	0.26	U	0.82	U	0.27	U	0.86	U
4-Ethyltoluene	0.15	U	0.74	U	0.17	U	0.82	U	0.17	U	0.86	U
4-Methyl-2-Pentanone	0.18	U	0.74	U	0.20	U	0.82	U	0.21	U	0.86	U
Acetone	**7.9**		**19**		**8.2**		**19**		**8.4**		**20**	
Acetonitrile	0.43	U	0.73	U	0.48	U	0.80	U	0.50	U	0.84	U
Acrolein	0.61	U	1.4	U	0.67	U	1.5	U	0.71	U	1.6	U
Acrylonitrile	0.34	U	0.73	U	0.37	U	0.80	U	0.39	U	0.84	U
alpha-Pinene	0.13	U	0.73	U	0.14	U	0.80	U	0.15	U	0.84	U
Benzene	0.23	U	0.73	U	0.25	U	0.80	U	0.26	U	0.84	U
Benzyl Chloride	0.30	U	1.5	U	0.33	U	1.7	U	0.34	U	1.8	U
Bromodichloromethane	0.11	U	0.74	U	0.12	U	0.82	U	0.13	U	0.86	U
Bromoform	0.072	U	0.74	U	0.079	U	0.82	U	0.083	U	0.86	U
Bromomethane	0.18	U	0.70	U	0.20	U	0.77	U	0.21	U	0.81	U
Carbon Disulfide	0.49	U	1.5	U	0.54	U	1.7	U	0.57	U	1.8	U
Carbon Tetrachloride	**0.063**		**0.39**		**0.061**		**0.39**		**0.063**		**0.40**	
Chlorobenzene	0.16	U	0.74	U	0.18	U	0.82	U	0.19	U	0.86	U
Chloroethane	0.27	U	0.71	U	0.30	U	0.79	U	0.31	U	0.83	U
Chloroform	0.15	U	0.76	U	0.17	U	0.83	U	0.18	U	0.87	U
Chloromethane	0.34	U	0.70	U	0.37	U	0.77	U	0.39	U	0.81	U
cis-1,2-Dichloroethene	0.19	U	0.74	U	0.21	U	0.82	U	0.22	U	0.86	U
cis-1,3-Dichloropropene	0.17	U	0.78	U	0.19	U	0.86	U	0.20	U	0.91	U
Cumene	0.15	U	0.74	U	0.17	U	0.82	U	0.17	U	0.86	U
Dibromochloromethane	0.089	U	0.76	U	0.098	U	0.83	U	0.10	U	0.87	U
Dichlorodifluoromethane	**0.50**		**2.5**		**0.55**		**2.7**		**0.56**		**2.8**	
d-Limonene	0.13	U	0.71	U	**0.80**		**4.4**		**1.1**		**5.9**	
Ethanol	**6.7**		**13**		**270**		**500**		**360**		**670**	
Ethylbenzene	0.17	U	0.73	U	0.18	U	0.80	U	0.19	U	0.84	U
Hexachlorobutadiene	0.070	U	0.74	U	0.077	U	0.82	U	0.081	U	0.86	U
m/p-Xylene	0.35	U	1.5	U	0.39	U	1.7	U	0.41	U	1.8	U
Methyl t-Butyl Ether	0.21	U	0.76	U	0.23	U	0.83	U	0.24	U	0.87	U
Methylene Chloride	**1.9**		**6.6**		0.24	U	0.83	U	0.25	U	0.87	U
Napthalene	0.14	U	0.71	U	0.15	U	0.79	U	0.16	U	0.83	U
n-Butyl Acetate	0.16	U	0.76	U	0.18	U	0.83	U	0.18	U	0.87	U
n-Hexane	0.21	U	0.76	U	0.24	U	0.83	U	0.25	U	0.87	U
n-Nonane	0.14	U	0.76	U	0.16	U	0.83	U	0.17	U	0.87	U
o-Xylene	0.17	U	0.74	U	0.19	U	0.82	U	0.20	U	0.86	U
Styrene	0.17	U	0.74	U	0.19	U	0.82	U	0.20	U	0.86	U
Tetrachloroethene (PCE)	0.11	U	0.74	U	0.12	U	0.82	U	0.13	U	0.86	U
Toluene	**14**		**52**		**0.27**		**1.0**		**0.29**		**1.1**	
trans-1,2-Dichloroethene	0.19	U	0.74	U	0.21	U	0.82	U	0.22	U	0.86	U
trans-1,3-Dichloropropene	0.16	U	0.74	U	0.18	U	0.82	U	0.19	U	0.86	U
Trichloroethene (TCE)	0.026	U	0.14	U	0.029	U	0.15	U	0.030	U	0.16	U
Trichlorofluoromethane	**0.25**		**1.4**		**2.3**		**13**		**2.3**		**13**	
Freon 113	0.097	U	0.74	U	0.11	U	0.82	U	0.11	U	0.86	U
Vinyl Acetate	2.1	U	7.4	U	2.3	U	8.2	U	2.4	U	8.6	U
Vinyl Chloride	0.29	U	0.74	U	0.32	U	0.82	U	0.34	U	0.86	U

Notes:

Bold = compound detected in sample

Red = compounds of concern

µg/m³ = micrograms per cubic meter

ppbv = parts per billion by volume

Q = Qualifier

U = Constituent not detected above reporting limit given

All samples analyzed by ALS Environmental of Rochester, NY

Gray shading indicates compound exceeds respective NYSDOH Indoor Air Guidance Value

NYSDOH = New York State Department of Health

NYSDOH Indoor Air Guidance Values in µg/m³ are:

Methylene Chloride - 10 | Vinyl Chloride - 0.2 | PCE - 10

1,1,1-Trichloroethane - 10 | 1,1-Dichloroethene - 1 | TCE - 1

cis-1,2-Dichloroethene - 1 | Carbon Tetrachloride - 1

Table 4 (Continued) Indoor Air Sampling Analytical Results - March 2019 - Former Dover Electronics Site, Kirkwood, New York

Sample Location	Cafeteria				Hallway				Computer Services			
Sampling Date	3/21/2019				3/21/2019				3/21/2019			
Laboratory Sample ID	P1901630-001				P1901630-007				P1901630-004			
Units	ppbv	Q	µg/m³	Q	ppbv	Q	µg/m³	Q	ppbv	Q	µg/m³	Q
Volatile Organic Compounds												
1,1,1-Trichloroethane	0.15	U	0.82	U	0.14	U	0.78	U	0.15	U	0.83	U
1,1,2,2-Tetrachloroethane	0.12	U	0.81	U	0.11	U	0.77	U	0.12	U	0.81	U
1,1,2-Trichloroethane	0.15	U	0.82	U	0.14	U	0.78	U	0.15	U	0.83	U
1,1-Dichloroethane	0.20	U	0.79	U	0.19	U	0.75	U	0.20	U	0.80	U
1,1-Dichloroethene	0.21	U	0.82	U	0.20	U	0.78	U	0.21	U	0.83	U
1,2,4-Trichlorobenzene	0.11	U	0.81	U	0.10	U	0.77	U	0.11	U	0.81	U
1,2,4-Trimethylbenzene	0.16	U	0.81	U	0.16	U	0.77	U	0.17	U	0.81	U
1,2-Dibromo-3-chloropropane	0.082	U	0.79	U	0.078	U	0.75	U	0.082	U	0.80	U
1,2-Dibromoethane	0.11	U	0.82	U	0.10	U	0.78	U	0.11	U	0.83	U
Freon 114	0.11	U	0.78	U	0.11	U	0.74	U	0.11	U	0.78	U
1,2-Dichlorobenzene	0.14	U	0.82	U	0.13	U	0.78	U	0.14	U	0.83	U
1,2-Dichloroethane	0.20	U	0.81	U	0.19	U	0.77	U	0.20	U	0.81	U
1,2-Dichloropropane	0.18	U	0.82	U	0.17	U	0.78	U	0.18	U	0.83	U
1,3,5-Trimethylbenzene	0.16	U	0.81	U	0.16	U	0.77	U	0.17	U	0.81	U
1,3-Butadiene	0.36	U	0.79	U	0.34	U	0.75	U	0.36	U	0.80	U
1,3-Dichlorobenzene	0.14	U	0.82	U	0.13	U	0.78	U	0.14	U	0.83	U
1,4-Dichlorobenzene	0.14	U	0.82	U	0.13	U	0.78	U	0.14	U	0.83	U
1,4-Dioxane	0.22	U	0.81	U	0.21	U	0.77	U	0.23	U	0.81	U
2-Butanone	**1.1**		**3.3**		**0.99**		**2.9**		**1.0**		**3.0**	
2-Hexanone	0.20	U	0.82	U	0.19	U	0.78	U	0.20	U	0.83	U
2-Propanol	**29**		**72**		**36**		**88**		**32**		**79**	
3-Chloropropene	0.26	U	0.81	U	0.25	U	0.77	U	0.26	U	0.81	U
4-Ethyltoluene	0.16	U	0.81	U	0.16	U	0.77	U	0.17	U	0.81	U
4-Methyl-2-Pentanone	0.20	U	0.81	U	0.19	U	0.77	U	0.20	U	0.81	U
Acetone	**6.8**		**16**		**7.5**		**18**		**7.1**		**17**	
Acetonitrile	0.47	U	0.79	U	0.45	U	0.75	U	0.47	U	0.80	U
Acrolein	0.66	U	1.5	U	0.63	U	1.5	U	0.67	U	1.5	U
Acrylonitrile	0.36	U	0.79	U	0.35	U	0.75	U	0.37	U	0.80	U
alpha-Pinene	**0.23**		**1.3**		**0.29**		**1.6**		**0.39**		**2.2**	
Benzene	0.25	U	0.79	U	0.24	U	0.75	U	0.25	U	0.80	U
Benzyl Chloride	0.32	U	1.7	U	0.31	U	1.6	U	0.33	U	1.7	U
Bromodichloromethane	0.12	U	0.81	U	0.11	U	0.77	U	0.12	U	0.81	U
Bromoform	0.078	U	0.81	U	0.074	U	0.77	U	0.078	U	0.81	U
Bromomethane	0.20	U	0.76	U	0.19	U	0.73	U	0.20	U	0.77	U
Carbon Disulfide	0.54	U	1.7	U	0.51	U	1.6	U	0.54	U	1.7	U
Carbon Tetrachloride	**0.067**		**0.42**		**0.065**		**0.41**		**0.060**		**0.38**	
Chlorobenzene	0.17	U	0.81	U	0.17	U	0.77	U	0.18	U	0.81	U
Chloroethane	0.29	U	0.78	U	0.28	U	0.74	U	0.30	U	0.78	U
Chloroform	0.17	U	0.82	U	0.16	U	0.78	U	0.17	U	0.83	U
Chloromethane	0.37	U	0.76	U	0.35	U	0.73	U	0.37	U	0.77	U
cis-1,2-Dichloroethene	0.20	U	0.81	U	0.19	U	0.77	U	0.20	U	0.81	U
cis-1,3-Dichloropropene	0.19	U	0.85	U	0.18	U	0.81	U	0.19	U	0.86	U
Cumene	0.16	U	0.81	U	0.16	U	0.77	U	0.17	U	0.81	U
Dibromochloromethane	0.096	U	0.82	U	0.092	U	0.78	U	0.097	U	0.83	U
Dichlorodifluoromethane	**0.80**		**4.0**		**0.92**		**4.6**		**0.88**		**4.3**	
d-Limonene	**1.2**		**6.5**		**0.85**		**4.8**		**0.79**		**4.4**	
Ethanol	**150**		**280**		**230**		**430**		**220**		**410**	
Ethylbenzene	0.18	U	0.79	U	0.17	U	0.75	U	0.18	U	0.80	U
Hexachlorobutadiene	0.076	U	0.81	U	0.072	U	0.77	U	0.076	U	0.81	U
m/p-Xylene	0.39	U	1.7	U	0.37	U	1.6	U	0.39	U	1.7	U
Methyl t-Butyl Ether	0.23	U	0.82	U	0.22	U	0.78	U	0.23	U	0.83	U
Methylene Chloride	0.24	U	0.82	U	0.23	U	0.78	U	0.24	U	0.83	U
Napthalene	0.15	U	0.78	U	0.14	U	0.74	U	0.15	U	0.78	U
n-Butyl Acetate	0.17	U	0.82	U	0.16	U	0.78	U	0.17	U	0.83	U
n-Hexane	0.23	U	0.82	U	0.22	U	0.78	U	0.23	U	0.83	U
n-Nonane	0.16	U	0.82	U	0.15	U	0.78	U	0.16	U	0.83	U
o-Xylene	0.19	U	0.81	U	0.18	U	0.77	U	0.19	U	0.81	U
Styrene	0.19	U	0.81	U	0.18	U	0.77	U	0.19	U	0.81	U
Tetrachloroethene (PCE)	**0.33**		**2.3**		**0.21**		**1.4**		**0.19**		**1.3**	
Toluene	**0.40**		**1.5**		**0.30**		**1.1**		**0.39**		**1.5**	
trans-1,2-Dichloroethene	0.20	U	0.81	U	0.19	U	0.77	U	0.20	U	0.81	U
trans-1,3-Dichloropropene	0.18	U	0.81	U	0.17	U	0.77	U	0.18	U	0.81	U
Trichloroethene (TCE)	0.028	U	0.15	U	0.027	U	0.15	U	0.028	U	0.15	U
Trichlorofluoromethane	**1.3**		**7.2**		**1.7**		**9.8**		**1.5**		**8.3**	
Freon 113	0.11	U	0.81	U	0.10	U	0.77	U	0.11	U	0.81	U
Vinyl Acetate	2.3	U	8.1	U	2.2	U	7.7	U	2.3	U	8.1	U
Vinyl Chloride	0.32	U	0.81	U	0.30	U	0.77	U	0.32	U	0.81	U

Notes:

Bold = compound detected in sample

Red = compounds of concern

µg/m³ = micrograms per cubic meter

ppbv = parts per billion by volume

Q = Qualifier

U = Constituent not detected above reporting limit given

All samples analyzed by ALS Environmental of Rochester, NY

Gray shading indicates compound exceeds respective NYSDOH Indoor Air Guidance Value

NYSDOH = New York State Department of Health

NYSDOH Indoor Air Guidance Values in µg/m³ are:

Methylene Chloride - 10; Vinyl Chloride - 0.2; PCE - 10

1,1,1-Trichloroethane - 10; 1,1-Dichloroethene - 1; TCE - 1

cis-1,2-Dichloroethene - 1; Carbon Tetrachloride - 1

Table 4 (Continued) Indoor Air Sampling Analytical Results - March 2019 - Former Dover Electronics Site, Kirkwood, New York

Sample Location	A/C Area				Electric Area			
Sampling Date	3/21/2019				3/22/2018			
Laboratory Sample ID	P1901630-003				P1801540-008			
Units	ppbv	Q	µg/m³	Q	ppbv	Q	µg/m³	Q
Volatile Organic Compounds								
1,1,1-Trichloroethane	0.15	U	0.81	U	0.15	U	0.84	U
1,1,2,2-Tetrachloroethane	0.12	U	0.80	U	0.12	U	0.82	U
1,1,2-Trichloroethane	0.15	U	0.81	U	0.15	U	0.84	U
1,1-Dichloroethane	0.19	U	0.78	U	0.20	U	0.81	U
1,1-Dichloroethene	0.20	U	0.81	U	0.21	U	0.84	U
1,2,4-Trichlorobenzene	0.11	U	0.80	U	0.11	U	0.82	U
1,2,4-Trimethylbenzene	0.16	U	0.80	U	0.17	U	0.82	U
1,2-Dibromo-3-chloropropane	0.081	U	0.78	U	0.083	U	0.81	U
1,2-Dibromoethane	0.11	U	0.81	U	0.11	U	0.84	U
Freon 114	0.11	U	0.77	U	0.11	U	0.79	U
1,2-Dichlorobenzene	0.13	U	0.81	U	0.14	U	0.84	U
1,2-Dichloroethane	0.20	U	0.80	U	0.20	U	0.82	U
1,2-Dichloropropane	0.18	U	0.81	U	0.18	U	0.84	U
1,3,5-Trimethylbenzene	0.16	U	0.80	U	0.17	U	0.82	U
1,3-Butadiene	0.35	U	0.78	U	0.36	U	0.81	U
1,3-Dichlorobenzene	0.13	U	0.81	U	0.14	U	0.84	U
1,4-Dichlorobenzene	0.13	U	0.81	U	0.14	U	0.84	U
1,4-Dioxane	0.22	U	0.80	U	0.23	U	0.82	U
2-Butanone	**1.3**		**3.8**		**1.2**		**3.5**	
2-Hexanone	0.20	U	0.81	U	0.20	U	0.84	U
2-Propanol	**27**		**67**		**54**		**130**	
3-Chloropropene	0.25	U	0.80	U	0.26	U	0.82	U
4-Ethyltoluene	0.16	U	0.80	U	0.17	U	0.82	U
4-Methyl-2-Pentanone	0.19	U	0.80	U	0.20	U	0.82	U
Acetone	**7.7**		**18**		**5.3**		**13**	
Acetonitrile	0.46	U	0.78	U	0.48	U	0.81	U
Acrolein	0.65	U	1.5	U	0.68	U	1.6	U
Acrylonitrile	0.36	U	0.78	U	0.37	U	0.81	U
alpha-Pinene	**0.26**		**1.4**		0.14	U	0.81	U
Benzene	0.24	U	0.78	U	0.25	U	0.81	U
Benzyl Chloride	0.32	U	1.7	U	0.33	U	1.7	U
Bromodichloromethane	0.12	U	0.80	U	0.12	U	0.82	U
Bromoform	0.077	U	0.80	U	0.079	U	0.82	U
Bromomethane	0.19	U	0.75	U	0.20	U	0.78	U
Carbon Disulfide	0.53	U	1.7	U	0.55	U	1.7	U
Carbon Tetrachloride	**0.068**		**0.42**		**0.063**		**0.39**	
Chlorobenzene	0.17	U	0.80	U	0.18	U	0.82	U
Chloroethane	0.29	U	0.77	U	0.30	U	0.79	U
Chloroform	0.17	U	0.81	U	0.17	U	0.84	U
Chloromethane	0.36	U	0.75	U	0.38	U	0.78	U
cis-1,2-Dichloroethene	0.20	U	0.80	U	0.21	U	0.82	U
cis-1,3-Dichloropropene	0.19	U	0.84	U	0.19	U	0.87	U
Cumene	0.16	U	0.80	U	0.17	U	0.82	U
Dibromochloromethane	0.095	U	0.81	U	0.098	U	0.84	U
Dichlorodifluoromethane	**0.81**		**4.0**		**0.72**		**3.6**	
d-Limonene	**1.4**		**7.9**		0.14	U	0.79	U
Ethanol	**170**		**320**		**58**		**110**	
Ethylbenzene	0.18	U	0.78	U	0.19	U	0.81	U
Hexachlorobutadiene	0.075	U	0.80	U	0.077	U	0.82	U
m/p-Xylene	0.38	U	1.7	U	0.39	U	1.7	U
Methyl t-Butyl Ether	0.22	U	0.81	U	0.23	U	0.84	U
Methylene Chloride	**0.70**		**2.4**		**0.24**	U	**0.84**	U
Napthalene	0.15	U	0.77	U	0.15	U	0.79	U
n-Butyl Acetate	0.17	U	0.81	U	0.18	U	0.84	U
n-Hexane	0.23	U	0.81	U	0.24	U	0.84	U
n-Nonane	0.15	U	0.81	U	0.16	U	0.84	U
o-Xylene	0.18	U	0.80	U	0.19	U	0.82	U
Styrene	0.19	U	0.80	U	0.19	U	0.82	U
Tetrachloroethene (PCE)	**0.36**		**2.4**		**0.16**		**1.1**	
Toluene	**0.44**		**1.6**		0.22	U	0.82	U
trans-1,2-Dichloroethene	0.20	U	0.80	U	0.21	U	0.82	U
trans-1,3-Dichloropropene	0.18	U	0.80	U	0.18	U	0.82	U
Trichloroethene (TCE)	0.028	U	0.15	U	0.029	U	0.16	U
Trichlorofluoromethane	**1.4**		**7.7**		**0.61**		**3.5**	
Freon 113	0.10	U	0.80	U	0.11	U	0.82	U
Vinyl Acetate	2.3	U	8.0	U	2.3	U	8.2	U
Vinyl Chloride	0.31	U	0.80	U	0.32	U	0.82	U

Notes:

Bold = compound detected in sample

Red = compounds of concern

µg/m³ = micrograms per cubic meter

ppbv = parts per billion by volume

Q = Qualifier

U = Constituent not detected above reporting limit given

All samples analyzed by ALS Environmental of Rochester, NY

Gray shading indicates compound exceeds respective NYSDOH Indoor Air Guidance Value

NYSDOH = New York State Department of Health

NYSDOH Indoor Air Guidance Values in µg/m³ are:

Methylene Chloride - 10; Vinyl Chloride - 0.2; PCE - 10

1,1,1-Trichloroethane - 10; 1,1-Dichloroethene - 1; TCE - 1

cis-1,2-Dichloroethene - 1; Carbon Tetrachloride - 1

Attachment 1

FIGURE 3

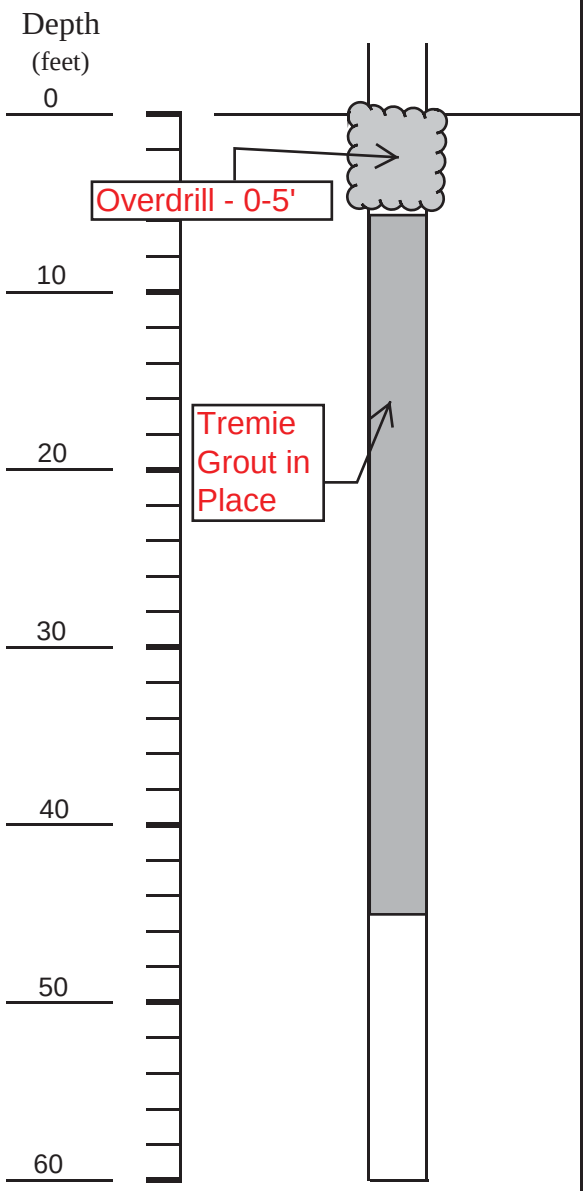
WELL DECOMMISSIONING RECORD

Site Name:	Well I.D.: IJ-3
Site Location: 29 Industrial Park Drive, Binghamton, NY	Driller: Ian Grassie
Drilling Co.: Parratt-Wolff, Inc.	Inspector:
	Date: April 23, 2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-5
Drilling Method(s)	Auger
Borehole Dia. (in.)	8
Temporary Casing Installed? (y/n)	N
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	6-inch PVC
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	5-45
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	55
Quantity of cement used (lbs.)	658
Cement type	Portland
Quantity of bentonite used (lbs.)	40
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	70
Volume of grout used (gal.)	70

WELL SCHEMATIC*



COMMENTS: Grout to 5' below ground surface. Removed PVC from 0-5' and backfilled with soil.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Danylo Kulczycky
Digitally signed by Danylo Kulczycky
DN: cn=Danylo Kulczycky, o=Parratt-Wolff, Inc., ou, email=dkulczycky@pwinc.com, c=US
Date: 2019.05.28 09:30:45 -04'00'

Drilling Contractor

Department Representative

FIGURE 3

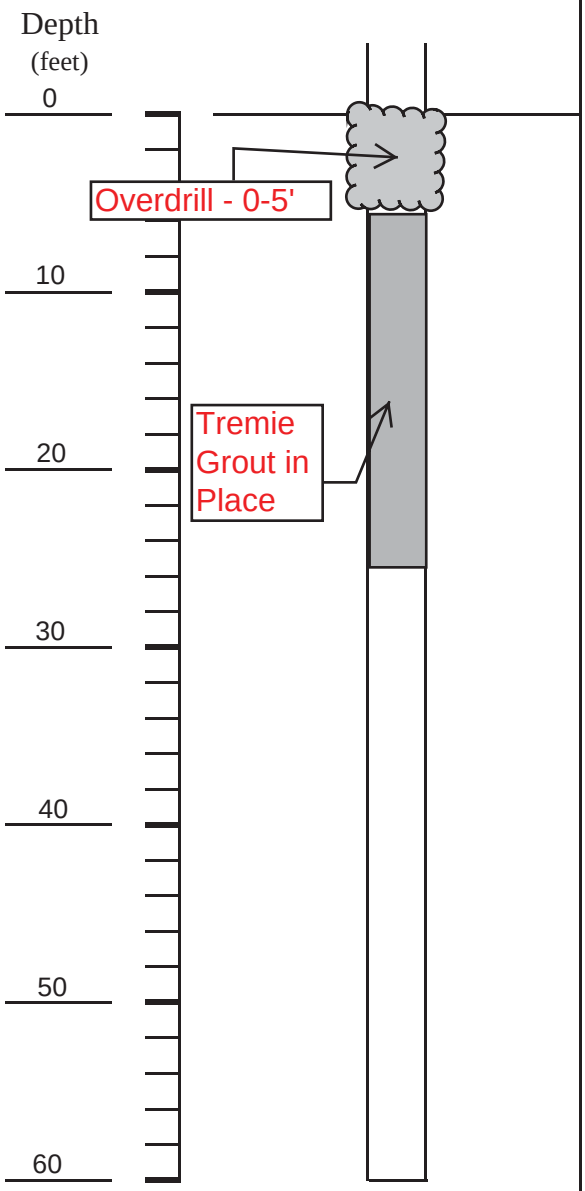
WELL DECOMMISSIONING RECORD

Site Name:	Well I.D.: IJ-4
Site Location: 29 Industrial Park Drive, Binghamton, NY	Driller: Ian Grassie
Drilling Co.: Parratt-Wolff, Inc.	Inspector:
	Date: April 23, 2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-5
Drilling Method(s)	Auger
Borehole Dia. (in.)	8
Temporary Casing Installed? (y/n)	N
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	6-inch PVC
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	5-25
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	29
Quantity of cement used (lbs.)	352.5
Cement type	Portland
Quantity of bentonite used (lbs.)	25
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	40
Volume of grout used (gal.)	40

WELL SCHEMATIC*



COMMENTS: Grout to 5' below ground surface. Removed PVC from 0-5' and backfilled with soil.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Danylo Kulczycky
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Date: 2019.05.28 09:30:45 -04'00'

Drilling Contractor

Department Representative

FIGURE 3

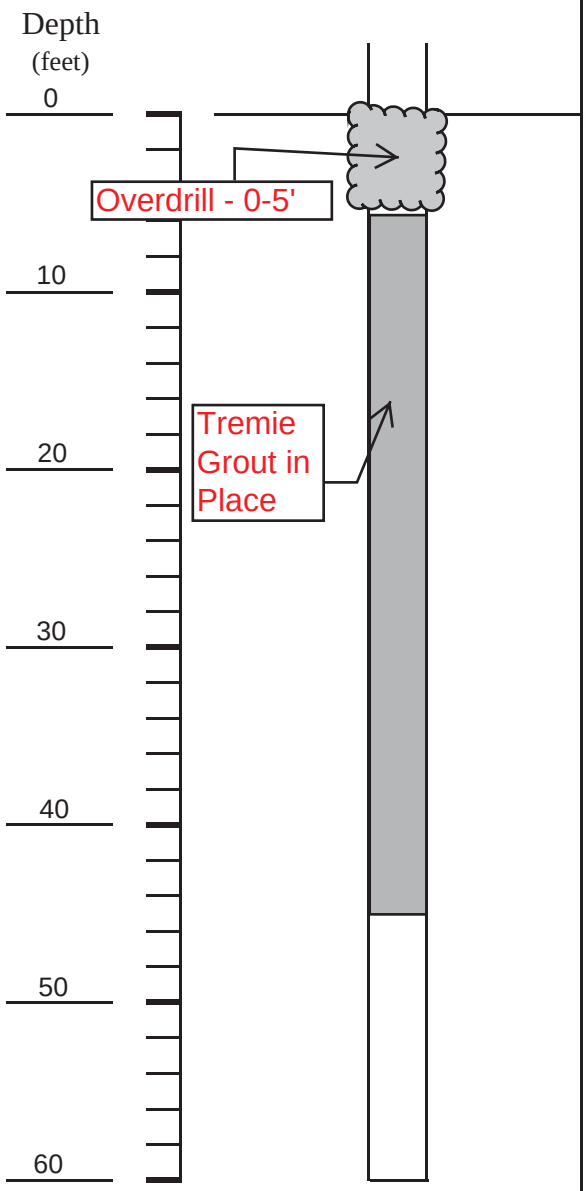
WELL DECOMMISSIONING RECORD

Site Name:	Well I.D.: IJ-9
Site Location: 29 Industrial Park Drive, Binghamton, NY	Driller: Ian Grassie
Drilling Co.: Parratt-Wolff, Inc.	Inspector:
	Date: April 23, 2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-5
Drilling Method(s)	Auger
Borehole Dia. (in.)	8
Temporary Casing Installed? (y/n)	N
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	6-inch PVC
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	5-45
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	55
Quantity of cement used (lbs.)	658
Cement type	Portland
Quantity of bentonite used (lbs.)	40
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	70
Volume of grout used (gal.)	70

WELL SCHEMATIC*



COMMENTS: Grout to 5' below ground surface. Removed PVC from 0-5' and backfilled with soil.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Danylo Kulczycky
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Date: 2019.05.28 09:30:45 -04'00'

Drilling Contractor

Department Representative

FIGURE 3

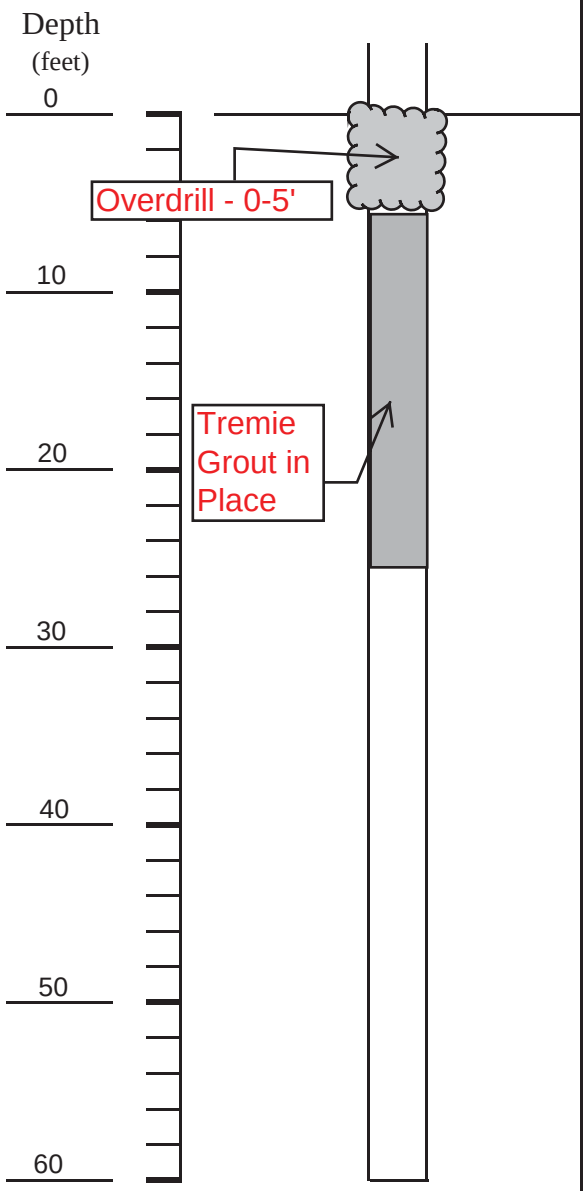
WELL DECOMMISSIONING RECORD

Site Name:	Well I.D.: IJ-10
Site Location: 29 Industrial Park Drive, Binghamton, NY	Driller: Ian Grassie
Drilling Co.: Parratt-Wolff, Inc.	Inspector:
	Date: April 23, 2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-5
Drilling Method(s)	Auger
Borehole Dia. (in.)	8
Temporary Casing Installed? (y/n)	N
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	6-inch PVC
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	5-25
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	29
Quantity of cement used (lbs.)	352.5
Cement type	Portland
Quantity of bentonite used (lbs.)	25
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	40
Volume of grout used (gal.)	40

WELL SCHEMATIC*



COMMENTS: Grout to 5' below ground surface. Removed PVC from 0-5' and backfilled with soil.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Danylo Kulczycky
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Date: 2019.05.28 09:30:45 -04'00'

Drilling Contractor

Department Representative

FIGURE 3

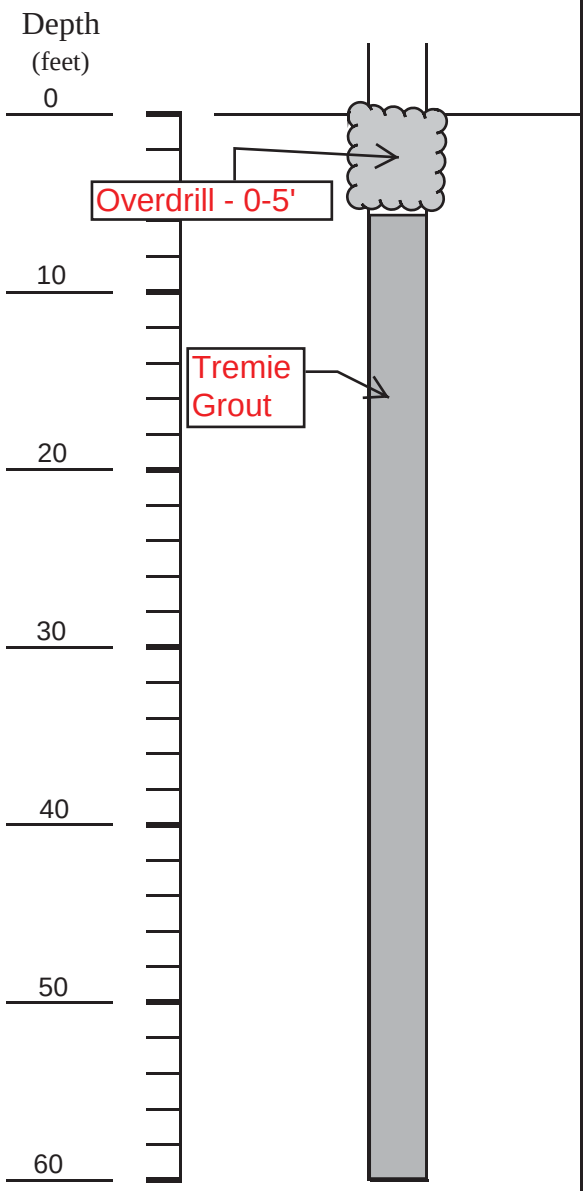
WELL DECOMMISSIONING RECORD

Site Name:	Well I.D.: MW-8
Site Location: 29 Industrial Park Drive, Binghamton, NY	Driller: Ian Grassie
Drilling Co.: Parratt-Wolff, Inc.	Inspector:
	Date: April 23, 2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-5
Drilling Method(s)	Auger
Borehole Dia. (in.)	8
Temporary Casing Installed? (y/n)	N
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	2-inch PVC
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	5-60
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	10
Quantity of cement used (lbs.)	117.4
Cement type	Portland
Quantity of bentonite used (lbs.)	30
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	12.5
Volume of grout used (gal.)	12.5

WELL SCHEMATIC*



COMMENTS: Grout to 5' below ground surface. Removed PVC from 0-5' and backfilled with soil.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Danylo Kulczycky
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Date: 2019.05.28 09:30:45 -04'00'

Drilling Contractor

Department Representative

FIGURE 3

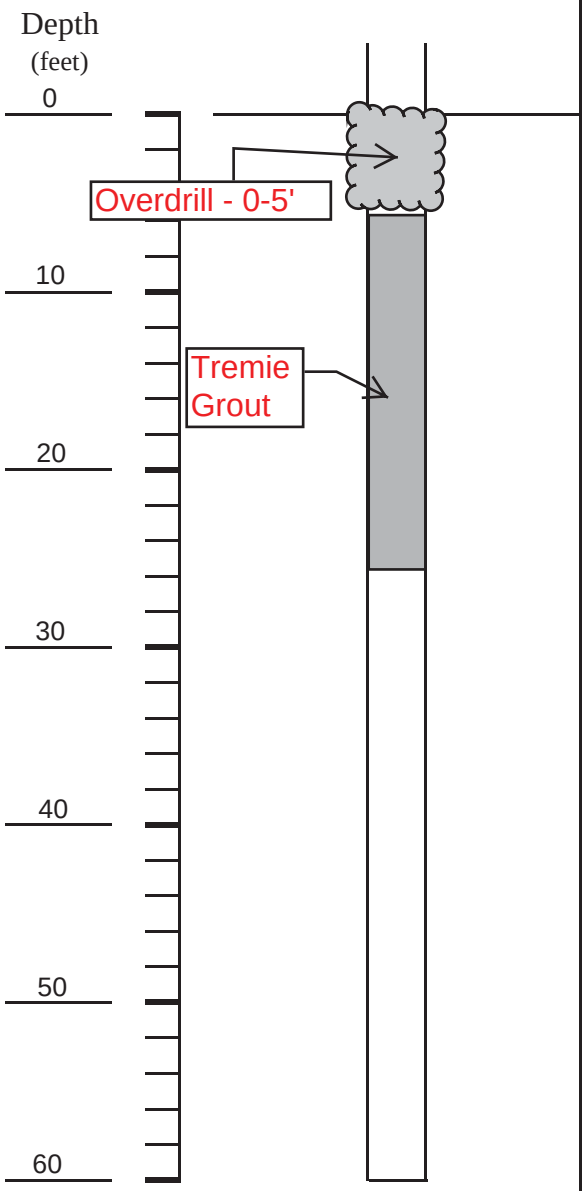
WELL DECOMMISSIONING RECORD

Site Name:	Well I.D.: MW-30
Site Location: 2 Industrial Park Drive, Binghamton, NY	Driller: Ian Grassie
Drilling Co.: Parratt-Wolff, Inc.	Inspector:
	Date: April 22, 2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-5
Drilling Method(s)	Auger
Borehole Dia. (in.)	8
Temporary Casing Installed? (y/n)	N
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	2-inch PVC
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	5-25
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	8
Quantity of cement used (lbs.)	94
Cement type	Portland
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	10

WELL SCHEMATIC*



COMMENTS: Grout to 5' below ground surface. Removed PVC from 0-5' and backfilled with soil.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Danylo Kulczycky
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Date: 2019.05.28 09:32:02 -04'00'

Drilling Contractor

Department Representative

FIGURE 3

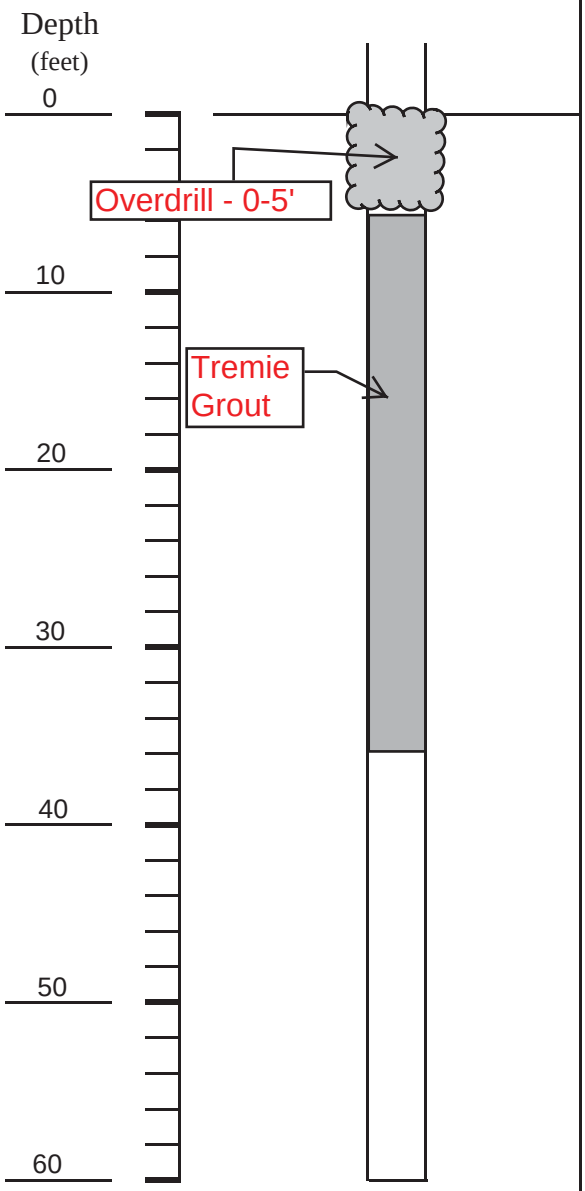
WELL DECOMMISSIONING RECORD

Site Name:	Well I.D.: MW-37
Site Location: 2 Industrial Park Drive, Binghamton, NY	Driller: Ian Grassie
Drilling Co.: Parratt-Wolff, Inc.	Inspector:
	Date: April 22, 2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	0-5
Drilling Method(s)	Auger
Borehole Dia. (in.)	8
Temporary Casing Installed? (y/n)	N
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	2-inch PVC
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	5-36
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	8
Quantity of cement used (lbs.)	94
Cement type	Portland
Quantity of bentonite used (lbs.)	5
Quantity of calcium chloride used (lbs.)	0
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	10

WELL SCHEMATIC*



COMMENTS: Grout to 5' below ground surface. Removed PVC from 0-5' and backfilled with soil.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

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Date: 2019.05.28 09:30:45 -04'00'

Drilling Contractor

Department Representative