

WELL I.D.	Top of Riser (ft AMSL)	2/19/2014			3/17/2014			5/12/2014			8/11/2014			11/24/2014			
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	
4009-1	831.98	7.43	NP	824.55	7.15	NP	824.83	7.26	NP	824.72	7.75	NP	824.23	7.80	NP	824.18	
4009-2	827.78	18.16	NP	809.62	17.96	NP	809.82	17.90	NP	809.88	19.77	NP	808.01	20.22	NP	807.56	
4009-3	823.47	16.92	NP	806.55	14.52	NP	808.95	15.10	NP	808.37	17.94	NP	805.53	17.23	NP	806.24	
4009-4	822.22	11.87	NP	810.35	10.64	NP	811.58	10.80	NP	811.42	13.87	NP	808.35	13.65	NP	808.57	
4009-5	824.36	18.47	NP	805.89	16.23	NP	808.13	17.70	NP	806.66	21.94	NP	802.42	18.85	NP	805.51	
4009-6	827.73	20.88	NP	806.85	19.38	NP	808.35	19.50	NP	808.23	21.80	NP	805.93	21.73	NP	806.00	
4009-7	824.27	18.76	NP	805.51	16.28	NP	807.99	16.91	NP	807.36	20.22	NP	804.05	19.34	NP	804.93	
4009-8	824.52	19.69	NP	804.83	13.28	NP	811.24	17.60	NP	806.92	20.96	NP	803.56	20.24	NP	804.28	
4009-9	825.05	20.36	NP	804.69	18.00	NP	807.05	18.82	NP	806.23	21.84	NP	803.21	21.28	NP	803.77	
4009-10	831.31	26.44	NP	804.87	24.28	NP	807.03	24.95	NP	806.36	27.88	NP	803.43	27.43	NP	803.88	
4009-11	830.06	26.95	NP	803.11	23.75	NP	806.31	24.89	NP	805.17	28.36	NP	801.70	26.51	NP	803.55	
4009-11A	830.80	15.22	NP	815.58	14.78	NP	816.02	14.56	NP	816.24	16.69	NP	814.11	20.43	NP	810.37	
4009-12	823.34	18.80	NP	804.54	16.68	NP	806.66	17.52	NP	805.82	20.90	NP	802.44	19.22	NP	804.12	
4009-12A	823.80	20.21	NP	803.59	16.60	NP	807.20	17.98	NP	805.82	21.35	NP	802.45	20.05	NP	803.75	
4009-13	816.28	12.31	NP	803.97	8.97	NP	807.31	10.42	NP	805.86	13.60	NP	802.68	12.07	NP	804.21	
4009-13A	816.17	11.74	NP	804.43	8.72	NP	807.45	9.94	NP	806.23	13.00	NP	803.17	11.93	NP	804.24	
4009-14	820.71	16.62	NP	804.09	13.43	NP	807.28	15.36	NP	805.35	18.07	NP	802.64	16.57	NP	804.14	
4009-15	826.54	22.63	NP	803.91	19.35	NP	807.19	11.93	NP	814.61	24.18	NP	802.36	22.53	NP	804.01	
4009-16	826.72	22.68	NP	804.04	19.50	NP	807.22	21.12	NP	805.60	24.30	NP	802.42	22.70	NP	804.02	
4009-16A	826.84	22.45	NP	804.39	19.45	NP	807.39	21.22	NP	805.62	24.31	NP	802.53	22.72	NP	804.12	
4009-17	820.53	26.12	NP	794.41	12.95	NP	807.58	14.52	NP	806.01	17.66	NP	802.87	17.18	NP	803.35	
4009-18	834.78	30.59	NP	804.19	27.61	NP	807.17	29.38	NP	805.40	32.23	NP	802.55	30.73	NP	804.05	
4009-19	824.94	20.79	NP	804.15	17.78	NP	807.16	19.54	NP	805.40	22.42	NP	802.52	20.91	NP	804.03	
4009-20	822.90	18.45	NP	804.45	15.60	NP	807.30	17.82	NP	805.08	20.25	NP	802.65	18.69	NP	804.21	
4009-21	825.02	**	18.90	NP	804.20	15.90	NP	807.20	17.65	NP	805.45	20.55	NP	802.55	19.03	NP	804.07
4009-22	817.40	13.06	NP	804.34	9.85	NP	807.55	11.50	NP	805.90	14.03	NP	803.37	13.27	NP	804.13	
4009-23S	824.48	16.65	NP	807.83	15.48	NP	809.00	14.88	NP	809.60	17.74	NP	806.74	18.33	NP	806.15	
4009-23D	824.39	18.93	NP	805.46	16.37	NP	808.02	17.15	NP	807.24	20.50	NP	803.89	19.23	NP	805.16	
4009-24	822.32	15.52	NP	806.80	13.38	NP	808.94	13.99	NP	808.33	16.94	NP	805.38	16.15	NP	806.17	
4009-25S	823.61	14.77	NP	808.84	13.84	NP	809.77	13.95	NP	809.66	15.87	NP	807.74	16.00	NP	807.61	
4009-25D	823.57	14.98	NP	808.59	13.70	NP	809.87	13.78	NP	809.79	15.85	NP	807.72	16.00	NP	807.57	
4009-26	824.31	19.36	NP	804.95	16.55	NP	807.76	17.39	NP	806.92	20.62	NP	803.69	19.92	NP	804.39	
4009-27S	826.19	21.97	NP	804.22	18.80	NP	807.39	20.02	NP	806.17	23.29	NP	802.90	22.02	NP	804.17	
4009-27I	826.03	21.93	NP	804.10	18.63	NP	807.40	19.98	NP	806.05	23.18	NP	802.85	21.85	NP	804.18	
4009-27D	825.87	21.90	NP	803.97	18.43	NP	807.44	19.88	NP	805.99	23.02	NP	802.85	21.65	NP	804.22	
4009-28	821.59	17.71	NP	803.88	14.45	NP	807.14	16.00	NP	805.59	19.23	NP	802.36	17.65	NP	803.94	
4009-29S	825.77	21.75	NP	804.02	18.42	NP	807.35	19.75	NP	806.02	23.03	NP	802.74	21.60	NP	804.17	
4009-29I	825.68	21.94	NP	803.74	18.51	NP	807.17	19.86	NP	805.82	23.22	NP	802.46	21.61	NP	804.07	
4009-29D	825.67	21.92	NP	803.75	18.54	NP	807.13	19.80	NP	805.87	23.18	NP	802.49	21.60	NP	804.07	
4009-30	827.50	**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
4009-30A	826.69	**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
WELL 1-1	832.36	29.09	NP	803.27	25.23	NP	807.13	25.50	NP	806.86	30.00	NP	802.36	28.33	NP	804.03	
WELL 1-1A	831.13	24.93	NP	806.20	24.13	NP	807.00	26.72	NP	804.41	23.03	NP	808.10	27.10	NP	804.03	
ERT-1S	824.01	12.65	11.72	810.57	11.83	10.88	811.37	11.53	10.62	811.71	13.96	12.95	809.19	14.96	14.02	808.25	
ERT-1I	824.03	13.45	NP	810.58	12.43	NP	811.60	12.42	NP	811.61	15.17	NP	808.86	15.23	NP	808.80	
ERT-1D	823.88	13.50	13.49	810.38	12.50	NP	811.38	12.42	NP	811.46	15.29	NP	808.59	15.18	NP	808.70	
ERT-2S	824.67	*	14.19	NP	810.48	13.72	NP	810.95	13.00	NP	811.67	15.66	NP	809.01	15.81	NP	808.86
ERT-2I	824.54	*	14.07	NP	810.47	13.08	NP	811.46	13.06	NP	811.48	15.60	NP	808.94	15.71	15.70	808.83
ERT-2D	824.44	*	12.98	NP	811.46	12.88	NP	811.56	12.56	12.55	811.88	14.97	14.96	809.46	15.28	NP	809.16
ERT-3S	824.38	13.29	NP	811.09	12.94	NP	811.44	11.83	NP	812.55	14.14	NP	810.24	15.09	NP	809.29	
ERT-3I	824.23	14.21	NP	810.02	13.23	NP	811.00	13.20	NP	811.03	15.73	NP	808.50	15.85	NP	808.38	
ERT-3D	824.20	14.95	NP	809.25	14.62	NP	809.58	13.78	NP	810.42	16.72	16.71	807.47	16.20	NP	808.00	
ERT-4S	823.54	13.32	NP	810.22	12.58	NP	810.96	12.85	NP	810.69	Dry	NP	--	Dry	NP	--	
ERT-4I	823.49	14.23	NP	809.26	13.37	NP	810.12	13.42	NP	810.07	5.58	NP	817.91	15.70	NP	807.79	
ERT-4D	823.63	14.55	NP	809.08	13.56	NP	810.07	13.63	NP	810.00	15.70	NP	807.93	15.90	NP	807.73	
ERT-5	824.64	*	NM	NM	12.34	NP	812.30	12.40	NP	812.24	15.28	NP	809.36	14.93	NP	809.71	
ERT-6	824.74	*	14.25	NP	810.49	13.05	NP	811.69	13.15	13.14	811.59	16.03	NP	808.71	15.64	NP	809.10
ERT-7	823.96	15.38	NP	808.58	14.25	NP	809.71	14.55	NP	809.41	17.61	NP	806.35	16.80	NP	807.16	
ERT-8	824.69	16.70	NP	807.99	15.13	NP	809.56	15.50	NP	809.19	18.57	NP	806.12	17.66	NP	807.03	

Notes
fbgs - feet below ground surface
famsl - feet above mean sea level
* - Elevation data from Conceptual Site Model (Lockheed Martin, 2012).
** - Elevation data remeasured on 4/1/15 after well repairs
NM - Not measured
NP - No product / LNAPL
■ Corrected based on assumed LNAPL density of 0.85 g/cm3

WELL I.D.	Top of Riser (ft AMSL)	4/1/2015			7/13/2015			10/12/2015			3/28/2016			6/1/2016			
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	
4009-1	831.98	7.64	NP	824.34	6.89	NP	825.09	8.03	NP	823.95	7.41	NP	824.57	6.50	NP	825.48	
4009-2	827.78	19.22	NP	808.56	18.11	NP	809.67	20.64	NP	807.14	18.93	NP	808.85	19.48	NP	808.30	
4009-3	823.47	15.90	NP	807.57	14.87	NP	808.60	18.64	NP	804.83	16.3	NP	807.17	17.33	NP	806.14	
4009-4	822.22	12.22	NP	810.00	10.80	NP	811.42	14.43	NP	807.79	12.03	NP	810.19	12.84	NP	809.38	
4009-5	824.36	17.80	NP	806.56	16.77	NP	807.59	20.69	NP	803.67	18.65	NP	805.71	19.85	NP	804.51	
4009-6	827.73	20.48	NP	807.25	19.23	NP	808.50	22.41	NP	805.32	20.57	NP	807.16	21.47	NP	806.26	
4009-7	824.27	17.74	NP	806.53	16.53	NP	807.74	21.17	NP	803.10	18.35	NP	805.92	19.69	NP	804.58	
4009-8	824.52	18.26	NP	806.26	17.05	NP	807.47	22.03	NP	802.49	18.97	NP	805.55	20.46	NP	804.06	
4009-9	825.05	19.23	NP	805.82	18.02	NP	807.03	22.83	NP	802.22	19.84	NP	805.21	21.43	NP	803.62	
4009-10	831.31	25.48	NP	805.83	24.16	NP	807.15	28.84	NP	802.47	20.95	NP	810.36	27.44	NP	803.87	
4009-11	830.06	24.89	NP	805.17	24.72	NP	805.34	28.80	NP	801.26	26.25	NP	803.81	27.69	NP	802.37	
4009-11A	830.80	14.94	NP	815.86	14.77	NP	816.03	16.97	NP	813.83	16.05	NP	814.75	16.60	NP	814.20	
4009-12	823.34	17.45	NP	805.89	17.34	NP	806.00	21.56	NP	801.78	18.9	NP	804.44	20.26	NP	803.08	
4009-12A	823.80	17.91	NP	805.89	17.79	NP	806.01	22.03	NP	801.77	19.35	NP	804.45	20.70	NP	803.10	
4009-13	816.28	10.37	NP	805.91	10.09	NP	806.19	14.29	NP	801.99	11.68	NP	804.60	12.98	NP	803.30	
4009-13A	816.17	10.09	NP	806.08	9.38	NP	806.79	13.97	NP	802.20	11.12	NP	805.05	12.51	NP	803.66	
4009-14	820.71	14.80	NP	805.91	14.66	NP	806.05	18.73	NP	801.98	16.23	NP	804.48	17.47	NP	803.24	
4009-15	826.54	20.76	NP	805.78	20.85	NP	805.69	24.79	NP	801.75	22.21	NP	804.33	23.48	NP	803.06	
4009-16	826.72	20.93	NP	805.79	26.87	NP	799.85	25.01	NP	801.71	22.38	NP	804.34	23.62	NP	803.10	
4009-16A	826.84	20.94	NP	805.90	27.03	NP	799.81	25.18	NP	801.66	22.51	NP	804.33	23.49	NP	803.35	
4009-17	820.53	14.55	NP	805.98	14.25	NP	806.28	18.50	NP	802.03	15.86	NP	804.67	16.98	NP	803.55	
4009-18	834.78	26.51	NP	808.27	29.02	NP	805.76	33.04	NP	801.74	30.65	NP	804.13	31.59	NP	803.19	
4009-19	824.94	19.15	NP	805.79	19.19	NP	805.75	23.31	NP	801.63	20.99	NP	803.95	21.78	NP	803.16	
4009-20	822.90	17.04	NP	805.86	17.29	NP	805.61	21.29	NP	801.61	18.56	NP	804.34	19.55	NP	803.35	
4009-21	825.02	**	19.33	NP	805.69	19.41	NP	805.61	23.98	NP	801.04	22.03	NP	802.99	21.98	NP	803.04
4009-22	817.40	11.55	NP	805.85	9.90	NP	807.50	13.28	NP	804.12	11.42	NP	805.98	11.95	NP	805.45	
4009-23S	824.48	17.02	NP	807.46	14.17	NP	810.31	19.10	NP	805.38	16.71	NP	807.77	17.56	NP	806.92	
4009-23D	824.39	17.93	NP	806.46	16.90	NP	807.49	19.13	NP	805.26	18.64	NP	805.75	19.95	NP	804.44	
4009-24	822.32	16.19	NP	806.13	13.82	NP	808.50	NM	NM	NM	15.20	NP	807.12	16.35	NP	805.97	
4009-25S	823.61	14.81	NP	808.80	13.73	NP	809.88	16.72	NP	806.89	14.68	NP	808.93	15.35	NP	808.26	
4009-25D	823.57	14.75	NP	808.82	13.65	NP	809.92	16.70	NP	806.87	14.64	NP	808.93	15.32	NP	808.25	
4009-26	824.31	17.94	NP	806.37	16.75	NP	807.56	21.69	NP	802.62	18.68	NP	805.63	20.12	NP	804.19	
4009-27S	826.19	20.27	NP	805.92	19.56	NP	806.63	24.14	NP	802.05	21.30	NP	804.89	22.72	NP	803.47	
4009-27I	826.03	20.03	NP	806.00	19.58	NP	806.45	23.98	NP	802.05	21.23	NP	804.80	22.61	NP	803.42	
4009-27D	825.87	19.86	NP	806.01	19.41	NP	806.46	23.80	NP	802.07	21.05	NP	804.82	22.42	NP	803.45	
4009-28	821.59	15.80	NP	805.79	15.72	NP	805.87	19.85	NP	801.74	17.3	NP	804.29	18.58	NP	803.01	
4009-29S	825.77	19.80	NP	805.97	19.40	NP	806.37	23.83	NP	801.94	21.11	NP	804.66	22.43	NP	803.34	
4009-29I	825.68	19.89	NP	805.79	19.63	NP	806.05	23.91	NP	801.77	21.27	NP	804.41	22.55	NP	803.13	
4009-29D	825.67	19.86	NP	805.81	19.81	NP	805.86	23.89	NP	801.78	21.19	NP	804.48	22.55	NP	803.12	
4009-30	827.50	**	21.32	NP	806.18	20.81	NP	806.69	25.81	NP	801.69	22.38	NP	805.12	24.26	NP	803.24
4009-30A	826.69	**	20.82	NP	805.87	20.97	NP	805.72	25.12	NP	801.57	22.41	NP	804.28	23.55	NP	803.14
WELL 1-1	832.36	26.56	NP	805.80	26.46	NP	805.90	NM	NM	NM	NM	NM	NM	NM	NM	NM	
WELL 1-1A	831.13	24.21	NP	806.92	25.37	NP	805.76	29.42	NP	801.71	25.15	NP	805.98	28.35	NP	802.78	
ERT-1S	824.01	13.36	12.48	809.90	9.55	8.60	813.65	13.45	NP	810.56	12.73	12.10	810.74	12.68	12.10	810.84	
ERT-1I	824.03	13.83	NP	810.20	12.46	NP	811.57	15.93	NP	808.10	13.60	NP	810.43	14.35	NP	809.68	
ERT-1D	823.88	13.80	NP	810.08	10.80	10.72	813.01	15.97	NP	807.91	13.69	NP	810.19	14.49	NP	809.39	
ERT-2S	824.67	*	14.50	NP	810.17	13.11	NP	811.56	16.46	NP	808.21	14.25	NP	810.42	14.97	NP	809.70
ERT-2I	824.54	*	14.36	NP	810.18	13.08	NP	811.46	16.35	NP	808.19	14.15	NP	810.39	14.88	NP	809.66
ERT-2D	824.44	*	14.21	NP	810.23	12.80	NP	811.64	16.39	NP	808.05	11.78	NP	812.66	13.54	NP	810.90
ERT-3S	824.38	13.94	NP	810.44	11.21	NP	813.17	15.40	NP	808.98	13.39	NP	810.99	NM	NM	NM	
ERT-3I	824.23	14.53	NP	809.70	13.21	NP	811.02	16.57	NP	807.66	14.33	NP	809.90	NM	NM	NM	
ERT-3D	824.20	15.01	NP	809.19	13.75	NP	810.45	17.22	NP	806.98	15.13	NP	809.07	NM	NM	NM	
ERT-4S	823.54	13.18	NP	810.36	11.81	NP	811.73	Dry	NP	--	NM	NM	NM	Dry	NP	--	
ERT-4I	823.49	14.46	NP	809.03	13.31	13.30	810.17	16.38	NP	807.11	NM	NM	NM	14.99	NP	808.50	
ERT-4D	823.63	14.64	NP	808.99	13.51	13.49	810.10	16.57	NP	807.06	NM	NM	NM	15.19	NP	808.44	
ERT-5	824.64	*	13.68	NP	810.96	12.45	NP	812.19	15.81	NP	808.83	13.70	NP	810.94	14.56	NP	810.08
ERT-6	824.74	*	14.39	NP	810.35	13.13	NP	811.61	16.64	NP	808.10	14.47	NP	810.27	15.35	NP	809.39
ERT-7	823.96	15.68	NP	808.28	14.45	NP	809.51	18.00	NP	805.96	15.98	NP	807.98	17.00	NP	806.96	
ERT-8	824.69	16.56	NP	808.13	15.43	NP	809.26	18.96	NP	805.73	16.95	NP	807.74	17.95	NP	806.74	

Notes
fbgs - feet below ground surface
famsl - feet above mean sea level
* - Elevation data from Conceptual Site Model (Lockheed Martin, 2012).
** - Elevation data remeasured on 4/1/15 after well repairs
NM - Not measured
NP - No product / LNAPL
■ Corrected based on assumed LNAPL density of 0.85 g/cm3

WELL I.D.	Top of Riser (ft AMSL)	9/15/2016			11/3/2016			4/10/2017			6/6/2017			
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	
4009-1	831.98	8.56	NP	823.42	7.30	NP	824.68	7.22	NP	824.76	7.23	NP	824.75	
4009-2	827.78	20.81	NP	806.97	20.05	NP	807.73	11.14	NP	816.64	17.95	NP	809.83	
4009-3	823.47	19.43	NP	804.04	17.42	NP	806.05	7.68	NP	815.79	14.11	NP	809.36	
4009-4	822.22	15.29	NP	806.93	13.85	NP	808.37	5.27	NP	816.95	10.11	NP	812.11	
4009-5	824.36	21.92	NP	802.44	19.40	NP	804.96	NM	NP	NM	15.98	NP	808.38	
4009-6	827.73	22.71	NP	805.02	21.46	NP	806.27	11.58	NP	816.15	19.33	NP	808.40	
4009-7	824.27	21.92	NP	802.35	19.39	NP	804.88	5.33	NP	818.94	16.22	NP	808.05	
4009-8	824.52	22.74	NP	801.78	19.84	NP	804.68	8.94	NP	815.58	17.04	NP	807.48	
4009-9	825.05	23.19	NP	801.86	21.28	NP	803.77	8.85	NP	816.20	18.16	NP	806.89	
4009-10	831.31	29.13	NP	802.18	27.52	NP	803.79	15.13	NP	816.18	24.32	NP	806.99	
4009-11	830.06	21.10	NP	808.96	26.83	NP	803.23	17.43	NP	812.63	23.93	NP	806.13	
4009-11A	830.80	20.63	NP	810.17	20.40	NP	810.40	11.4	NP	819.40	13.59	NP	817.21	
4009-12	823.34	22.51	NP	800.83	19.45	NP	803.89	9.25	NP	814.09	16.16	NP	807.18	
4009-12A	823.80	22.95	NP	800.85	19.92	NP	803.88	9.71	NP	814.09	16.67	NP	807.13	
4009-13	816.28	15.23	NP	801.05	11.80	NP	804.48	2.23	NP	814.05	8.84	NP	807.44	
4009-13A	816.17	14.73	NP	801.44	12.25	NP	803.92	1.24	NP	814.93	9.02	NP	807.15	
4009-14	820.71	9.71	NP	811.00	16.68	NP	804.03	6.85	NP	813.86	14.02	NP	806.69	
4009-15	826.54	25.79	NP	800.75	22.68	NP	803.86	12.59	NP	813.95	19.31	NP	807.23	
4009-16	826.72	26.08	NP	800.64	22.80	NP	803.92	13.08	NP	813.64	24.04	NP	802.68	
4009-16A	826.84	26.49	NP	800.35	22.70	NP	804.14	12.85	NP	813.99	19.97	NP	806.87	
4009-17	820.53	19.59	NP	800.94	16.24	NP	804.29	5.57	NP	814.96	14.29	NP	806.24	
4009-18	834.78	34.24	NP	800.54	30.77	NP	804.01	20.99	NP	813.79	27.95	NP	806.83	
4009-19	824.94	24.76	NP	800.18	21.00	NP	803.94	11.2	NP	813.74	18.16	NP	806.78	
4009-20	822.90	22.68	NP	800.22	18.84	NP	804.06	9.23	NP	813.67	16.1	NP	806.80	
4009-21	825.02	**	24.96	NP	800.06	21.17	NP	803.85	11.55	NP	813.47	18.41	NP	806.61
4009-22	817.40	13.85	NP	803.55	13.09	NP	804.31	2.21	NP	815.19	9.41	NP	807.99	
4009-23S	824.48	20.12	NP	804.36	18.83	NP	805.65	9.04	NP	815.44	14.09	NP	810.39	
4009-23D	824.39	22.10	NP	802.29	19.54	NP	804.85	8.95	NP	815.44	16.32	NP	808.07	
4009-24	822.32	18.51	NP	803.81	16.39	NP	805.93	NM	NP	NM	NM	NM	NM	
4009-25S	823.61	17.18	NP	806.43	16.08	NP	807.53	7.3	NP	816.31	13.41	NP	810.20	
4009-25D	823.57	17.16	NP	806.41	16.04	NP	807.53	6.16	NP	817.41	13.3	NP	810.27	
4009-26	824.31	22.39	NP	801.92	19.62	NP	804.69	5.72	NP	818.59	16.85	NP	807.46	
4009-27S	826.19	24.96	NP	801.23	21.97	NP	804.22	11.31	NP	814.88	18.9	NP	807.29	
4009-27I	826.03	24.83	NP	801.20	21.87	NP	804.16	11.58	NP	814.45	18.75	NP	807.28	
4009-27D	825.87	24.65	NP	801.22	21.70	NP	804.17	11.54	NP	814.33	18.52	NP	807.35	
4009-28	821.59	20.79	NP	800.80	17.78	NP	803.81	7.35	NP	814.24	14.52	NP	807.07	
4009-29S	825.77	24.71	NP	801.06	21.72	NP	804.05	11.39	NP	814.38	18.51	NP	807.26	
4009-29I	825.68	24.79	NP	800.89	21.80	NP	803.88	11.44	NP	814.24	18.48	NP	807.20	
4009-29D	825.67	24.79	NP	800.88	21.75	NP	803.92	12.29	NP	813.38	18.39	NP	807.28	
4009-30	827.50	**	26.6	NP	800.90	23.32	NP	804.18	12.29	NP	815.21	20.86	NP	806.64
4009-30A	826.69	**	26.32	NP	800.37	22.73	NP	803.96	12.83	NP	813.86	19.83	NP	806.86
WELL 1-1	832.36	NM	NM	NM	NM	NM	NM	12.56	NP	819.80	NM	NM	NM	NM
WELL 1-1A	831.13	30.39	NP	800.74	27.50	NP	803.63	NM	NP	NM	24.35	NP	806.78	NM
ERT-1S	824.01	15.29	13.86	807.50	NM	NM	NM	6.49	5.7	816.85	NM	NM	NM	NM
ERT-1I	824.03	16.72	NP	807.31	NM	NM	NM	7.04	NP	816.99	NM	NM	NM	NM
ERT-1D	823.88	16.91	NP	806.97	NM	NM	NM	6.59	NP	817.29	NM	NM	NM	NM
ERT-2S	824.67	*	17.11	NP	807.56	NM	NM	7.48	NP	817.19	NM	NM	NM	NM
ERT-2I	824.54	*	17.03	NP	807.51	NM	NM	7.34	NP	817.20	NM	NM	NM	NM
ERT-2D	824.44	*	14.74	NP	809.70	NM	NM	7.44	NP	817.00	NM	NM	NM	NM
ERT-3S	824.38	Dry	NP	--	NM	NM	NM	8.05	NP	816.33	10.85	NP	813.53	NM
ERT-3I	824.23	17.17	NP	807.06	NM	NM	NM	7.47	NP	816.76	12.64	NP	811.59	NM
ERT-3D	824.20	18.16	NP	806.04	NM	NM	NM	7.64	NP	816.56	13.17	NP	811.03	NM
ERT-4S	823.54	Dry	NP	--	NM	NM	NM	6.21	NP	817.33	NM	NM	NM	NM
ERT-4I	823.49	16.89	NP	806.60	NM	NM	NM	NM	NP	NM	NM	NM	NM	NM
ERT-4D	823.63	17.07	NP	806.56	NM	NM	NM	NM	NP	NM	13.1	NP	810.53	NM
ERT-5	824.64	*	16.69	NP	807.95	NM	NM	7.02	NP	817.62	NM	NM	NM	NM
ERT-6	824.74	*	17.47	NP	807.27	NM	NM	NM	NP	NM	NM	NM	NM	NM
ERT-7	823.96	18.98	NP	804.98	NM	NM	NM	7.72	NP	816.24	NM	NM	NM	NM
ERT-8	824.69	19.96	NP	804.73	NM	NM	NM	8.59	NP	816.10	NM	NM	NM	NM

Notes
fbgs - feet below ground surface
famsl - feet above mean sea level
* - Elevation data from Conceptual Site Model (Lockheed Martin, 2012).
** - Elevation data remeasured on 4/1/15 after well repairs
NM - Not measured
NP - No product / LNAPL
■ Corrected based on assumed LNAPL density of 0.85 g/cm3

WELL I.D.	Top of Riser (ft AMSL)	10/5/2017			12/12/2017			
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	
4009-1	831.98	7.67	NP	824.31	7.50	NP	824.48	
4009-2	827.78	19.84	NP	807.94	19.58	NP	808.20	
4009-3	823.47	18.30	NP	805.17	17.07	NP	806.40	
4009-4	822.22	13.64	NP	808.58	14.59	NP	807.63	
4009-5	824.36	20.82	NP	803.54	19.11	NP	805.25	
4009-6	827.73	21.97	NP	805.76	NM	NM	NM	
4009-7	824.27	20.89	NP	803.38	19.29	NP	804.98	
4009-8	824.52	21.79	NP	802.73	20.06	NP	804.46	
4009-9	825.05	22.79	NP	802.26	21.12	NP	803.93	
4009-10	831.31	28.66	NP	802.65	27.23	NP	804.08	
4009-11	830.06	29.19	NP	800.87	26.89	NP	803.17	
4009-11A	830.80	15.26	NP	815.54	17.15	NP	813.65	
4009-12	823.34	21.80	NP	801.54	19.58	NP	803.76	
4009-12A	823.80	22.25	NP	801.55	20.05	NP	803.75	
4009-13	816.28	14.44	NP	801.84	12.35	NP	803.93	
4009-13A	816.17	13.88	NP	802.29	12.02	NP	804.15	
4009-14	820.71	18.94	NP	801.77	16.82	NP	803.89	
4009-15	826.54	25.03	NP	801.51	22.81	NP	803.73	
4009-16	826.72	25.23	NP	801.49	22.94	NP	803.78	
4009-16A	826.84	25.29	NP	801.55	22.91	NP	803.93	
4009-17	820.53	18.43	NP	802.10	DESTROYED			
4009-18	834.78	33.10	NP	801.68	30.93	NP	803.85	
4009-19	824.94	23.33	NP	801.61	21.13	NP	803.81	
4009-20	822.90	21.44	NP	801.46	18.91	NP	803.99	
4009-21	825.02	**	23.46	NP	801.56	21.3	NP	803.72
4009-22	817.40	11.56	NP	805.84	11.78	NP	805.62	
4009-23S	824.48	18.37	NP	806.11	17.82	NP	806.66	
4009-23D	824.39	21.13	NP	803.26	19.39	NP	805.00	
4009-24	822.32	17.43	NP	804.89	16.22	NP	806.10	
4009-25S	823.61	15.96	NP	807.65	15.42	NP	808.19	
4009-25D	823.57	15.93	NP	807.64	15.38	NP	808.19	
4009-26	824.31	21.48	NP	802.83	19.73	NP	804.58	
4009-27S	826.19	24.21	NP	801.98	22.12	NP	804.07	
4009-27I	826.03	24.10	NP	801.93	22.01	NP	804.02	
4009-27D	825.87	23.92	NP	801.95	21.84	NP	804.03	
4009-28	821.59	20.13	NP	801.46	17.92	NP	803.67	
4009-29S	825.77	23.95	NP	801.82	21.84	NP	803.93	
4009-29I	825.68	24.14	NP	801.54	21.91	NP	803.77	
4009-29D	825.67	24.08	NP	801.59	21.89	NP	803.78	
4009-30	827.50	**	25.98	NP	801.52	23.74	NP	803.76
4009-30A	826.69	**	25.23	NP	801.46	23.05	NP	803.64
WELL 1-1	832.36		30.93	NP	801.43	NM	NM	NM
WELL 1-1A	831.13		NM	NM	NM	27.58	NP	803.55
ERT-1S	824.01		10.78	9.91	812.49	13.17	12.38	810.17
ERT-1I	824.03		15.05	NP	808.98	14.44	NP	809.59
ERT-1D	823.88		15.31	NP	808.57	14.53	NP	809.35
ERT-2S	824.67	*	NM	NM	NM	15.12	NP	809.55
ERT-2I	824.54	*	NM	NM	NM	NM	NM	NM
ERT-2D	824.44	*	NM	NM	NM	15.03	NP	809.41
ERT-3S	824.38		NM	NM	NM	14.14	NP	810.24
ERT-3I	824.23		NM	NM	NM	15.17	NP	809.06
ERT-3D	824.20		NM	NM	NM	15.88	NP	808.32
ERT-4S	823.54		NM	NM	NM	DRY	NM	NM
ERT-4I	823.49		15.61	NP	807.88	15.08	NP	808.41
ERT-4D	823.63		15.81	NP	807.82	15.29	NP	808.34
ERT-5	824.64	*	NM	NM	NM	NM	NM	NM
ERT-6	824.74	*	NM	NM	NM	15.16	NP	809.58
ERT-7	823.96		17.69	NP	806.27	16.54	NP	807.42
ERT-8	824.69		18.74	NP	805.95	17.52	NP	807.17

Notes
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* - Elevation data from Conceptual Site Model (Lockheed Martin, 2012).
** - Elevation data remeasured on 4/1/15 after well repairs
NM - Not measured
NP - No product / LNAPL
■ Corrected based on assumed LNAPL density of 0.85 g/cm3

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-7 2/20/2014 Shallow ug/L	4009-7 5/28/2014 Shallow ug/L	4009-7 8/28/2014 Shallow ug/L	4009-7 12/9/2014 Shallow ug/L	4009-7 4/10/2017 Shallow ug/L	4009-7 6/20/2017 Shallow ug/L	4009-7 10/23/2017 Shallow ug/L	4009-7 12/28/2017 Shallow ug/L	4009-8 2/20/2014 Intermediate ug/L	4009-8 5/28/2014 Intermediate ug/L	4009-8 8/28/2014 Intermediate ug/L	4009-8 12/9/2014 Intermediate ug/L	4009-8 4/10/2017 Intermediate ug/L	4009-8 6/20/2017 Intermediate ug/L	4009-8 10/23/2017 Intermediate ug/L	4009-8 12/28/2017 Intermediate ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	790 D	1000	2900 DJ	1500	560	490	2500	2100
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	14	13 J	20 UDJ	17 J	5.1 J	10 U	16	13
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 J	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	5	1.0 J	0.48 J	1.0 UJ	3.3 U	1.1	0.59 J	0.44 J	0.63 J	40	62	72 DJ	58	51	45	96	80
1,1-Dichloroethene	5	1.0 U	0.29 J	1.0 UJ	3.3 U	0.44 J	0.38 J	0.39 J	0.67 J	31	120	94 DJ	120	31	80	80	70
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	130 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
1,2,4-Trimethylbenzene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	50 U	10 U	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
2-Butanone (MEK)	50	10 U	1.4 J	10 UJ	33 U	10 U*	10 U	5.0 U	10 U	10 U	200 U	200 UDJ	250 U	100 U*	100 U	50 U	100 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	100 U	100 UDJ	250 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	100 U	100 UDJ	250 U	50 U	50 U	50 U	50 U
Acetone	50*	5.3 J	7.1 J	14 J	33 U	3.4 J	4.7 J	1.4 J	10 U	9.6 J	200 U	200 UDJ	250 U	100 U	100 U	50 U	100 U
Benzene	1	1.1	1.0 U	0.41 J	3.3 U	1.0 U	1.0 U	0.28 J	0.43 J	0.67 J	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U*	10 U	10 U	10 U	10 U
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Chloroethane	5	1.0 U	0.3 J	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2	20 U	20 UDJ	25 U	7.8 J	3.7 J	4.4 J	10 U
Chloroform	7	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	0.6 J	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Chloromethane		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	5	20	46	36 J	38	42	41	36	53	440 D	310	550 DJ	490	230	190	500	680
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Cyclohexane		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	33 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	50 U	50 UDJ	250 U	25 U	25 U	50 U	10 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	9.1 DJ	25 U	10 U	10 U	10 U	10 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Styrene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.3	20 U	20 UDJ	25 U	10 U	10 U	3.3 J	10 U
Toluene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	0.29 J	1.0 U	1.1	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Trichloroethene	5	2.1	4.1	3.3 J	2.7 J	0.93 J	1.2	0.76 J	1.1	19	20 U	20 UDJ	7.1 J	150	160	300	300
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	20 U	20 UDJ	25 U	10 U	10 U	10 U	10 U
Vinyl chloride	2	2.5	3.1	3.1 J	3.0 J	22	4.6	4.3	10	44	140	92 DJ	44	30	15	19	24
Xylenes, Total		2.0 U	2.0 U	2.0 UJ	6.7 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	40 U	40 UDJ	50 U	20 U	20 U	20 U	20 U
Total VOCs		32.0	62.8	56.8	43.7	69.9	52.5	44.2	65.8	1394	1645	3717	2236	1065	984	3519	3267
Total VOCs (w/o Acteone or Methylene Chloride)		26.7	55.7	42.8	43.7	66.5	47.8	42.8	65.8	1384	1645	3717	2236	1065	984	3519	3267

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
- Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
ug/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
2-This is a duplicate sample from 4009-25D
1-This is a duplicate sample from 4009-12
2-This is a duplicate sample from 4009-27I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-9 2/20/2014 Shallow ug/L	4009-9 5/28/2014 Shallow ug/L	4009-9 8/28/2014 Shallow ug/L	4009-9 12/9/2014 Shallow ug/L	4009-9 4/20/2015 Shallow ug/L	4009-9 7/29/2015 Shallow ug/L	4009-9 11/4/2015 Shallow ug/L	4009-9 3/28/2016 Shallow ug/L	4009-9 6/30/2016 Shallow ug/L	4009-9 9/29/2016 Shallow ug/L	4009-9 11/28/2016 Shallow ug/L	4009-9 4/10/2017 Shallow ug/L	4009-9 6/20/2017 Shallow ug/L	4009-9 10/23/2017 Shallow ug/L	4009-9 12/28/2017 Shallow ug/L	4009-10 2/20/2018 Shallow ug/L	4009-10 5/28/2018 Shallow ug/L	4009-10 8/28/2018 Shallow ug/L	4009-10 12/9/2018 Shallow ug/L	4009-10 4/20/2019 Shallow ug/L	4009-10 7/29/2019 Shallow ug/L	4009-10 11/4/2019 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 J	1.0 U	1.0 U	1.0 U	1.0 UJ	0.32 J	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.38 J	1.0 U	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	0.40 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	1.4 J	10 U	10 UJ	10 U	10 U	10.0 U	10.0 U	10.0 U	10 U	10 U	10 U	10 U*	10 U	5.0 U	10.0 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U
Acetone	50*	12	3.3 J	11 J	10 U	7.1 J	10.0 U	10.0 U	3.5 J	10 U	10 U	10 U	3.5 J	3.1 J	2.2 J	10.0 U	10	3.2 J	7.5 J	10 U	9.2 J	10 U	10 U
Benzene	1	1.0 U	1.0 U	1.3 J	1.3	1.0 U	3.4	2.5	1.0 U	1.0 U	3.7	1.3	1.0 U	1.0 U	0.15 J	1.0 U	0.6 J	0.53 J	2.3 J	26	1.0 U	1.8	0.97 J
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	6.3	4.0	13 J	7.0	1.9	15	21	4.0	21	22	19	8.2	10	21	11	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	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 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U
Trichloroethene	5	0.5 J	0.66 J	0.67 J	0.80 J	0.52 J	0.59 J	0.52 J	0.74 J	0.65 J	0.57 J	0.81 J	0.97 J	1.0 U	1.3	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		1.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		20.2	7.96	26.0	9.10	9.52	19.0	24.4	8.24	22.0	26.3	21.1	12.7	13.1	25.5	11.0	12.6	3.73	9.80	26.3			

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-10 3/28/2016 Shallow ug/L	4009-10 6/30/2016 Shallow ug/L	4009-10 9/29/2016 Shallow ug/L	4009-10 11/28/2016 Shallow ug/L	4009-10 4/10/2017 Shallow ug/L	4009-10 6/20/2017 Shallow ug/L	4009-10 10/23/2017 Shallow ug/L	4009-10 12/28/2017 Shallow ug/L	4009-11 2/20/2014 Deep ug/L	4009-11 5/28/2014 Deep ug/L	4009-11 8/28/2014 Deep ug/L	4009-11 12/9/2014 Deep ug/L	4009-11 4/20/2015 Deep ug/L	4009-11 7/29/2015 Deep ug/L	4009-11 11/4/2015 Deep ug/L	4009-11 3/28/2016 Deep ug/L	4009-11 6/30/2016 Deep ug/L	4009-11 9/29/2016 Deep ug/L	4009-11 11/28/2016 Deep ug/L	4009-11 4/10/2017 Deep ug/L	4009-11 6/20/2017 Deep ug/L	4009-11 10/23/2017 Deep ug/L	4009-11 12/28/2017 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 J	1.0 U	1.0 U	1.0 U	1.9 J	1.0 U	1.0 U	1.0 U	79	1.0 U	57	87	1.0 U	1.0 U	170	65	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 J	1.2	1.0 U	1.0 U	2.9	1.4	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	20	0.76 J	13	21	2.1	2.8	43.0	18	2.1
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	8.7	1.0 U	3.4	5.4	1.0 U	1.0 U	27.0	5.0	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 J	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U*	10 U	5.0 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	5.0 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	10 U	10 U	10 U	10 U	3.4 J	10 U	3.1 J	10 U	7.8 J	4.6 J	10 UJ	10 U	6.7 J	10 U	10 U	4.4 J	10 U	10 U	3.7 J	3.6 J	5.0 U	4.5 J
Benzene	1	1.0 U	1.9	0.65 J	3.4	1.0 U	1.0 U	0.45 J	1.0 U	1.0 U	1.0 U	1.0 UJ	7.8	5.6	8.4	1.0 U	18	1.0 U	1.3	16	15	1.0 U	1.0 U	6.5
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.5	1.5	1.2	1.8	1.0 U	1.0 U	1.8	0.9 J	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	12	1.0 U	8.8	15	1.0 U	1.0 U	35	15	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0	1.0	1.0	1.0 U	0.79 J	1.0 U	1.0 U	1.0 U	0.82 J	0.85 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	0.5 J	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	19	1.0 U	14	17	2.0 U	1.1	37	13	1.0 U
Xylenes, Total																								

Notes
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 U - Concentration exceeds NYSDEC Class GA Standard
 U - Compound was not detected at the indicated concentration
 J - Compound detected below the reporting limit or reported concentration is estimated
 µg/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of diluted sample shown
 M - Manual integrated compound
 * - Laboratory control sample / duplicate exceeds control limits.
 2-This is a duplicate sample from 4009-25D
 1-This is a duplicate sample from 4009-12
 2-This is a duplicate sample from 4009-271
 **-Revised results due to mislabeling 27 and 29 clusters in field.
 ^- PDB was compromised when sample was collected
 NS - Not Sampled

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-12 3/28/2016 Deep ug/L	4009-12 6/30/2016 Deep ug/L	4009-12 9/29/2016 Deep ug/L	4009-12 11/28/2016 Deep ug/L	4009-12 4/10/2017 Deep ug/L	4009-12 6/20/2017 Deep ug/L	4009-12 10/23/2017 Deep ug/L	4009-12 12/28/2017 Deep ug/L	DUP-1 12/28/2017 Deep ug/L	4009-13 2/20/2014 Deep ug/L	4009-13 5/28/2014 Deep ug/L	4009-13 8/28/2014 Deep ug/L	4009-13 12/9/2014 Deep ug/L	4009-13 4/20/2015 Deep ug/L	4009-13 7/29/2015 Deep ug/L	4009-13 11/4/2015 Deep ug/L	4009-13 3/28/2016 Deep ug/L	4009-13 6/30/2016 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	100	45	1.0 U	330	310	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.9 J	1.0 J	1.0 U	5.4	6.6	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	3.1	2.9	2.4	2.9	18	9.2	5.6	46	52	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	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	3.2	7.7	0.53 J	16	14	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U*	20 U	5.0 U	10 U	20 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	10 U	10 U	10 U	5.5 J	20 U	3.3 J	10 U	20 U	8.4 J	3.8 J	10 UJ	10 U	8.9 J	10 U	10 U	10 U	3.5 J
Benzene	1	6.7	7.5	8.7	9.1	3.6	2.8	2.5	0.51 J	2.0 U	1.0 U	0.42 J	4.8 J	1.0	0.96 J	1.7	3.2	3.2	2.4
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.1	2.0 U	1.0 U	4.9	6.6	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.5	1.1	1.0	0.95 J	11	8.7	2.0	62	65	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	0.50 JB	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	0.26 J	1.0 U	2.0 U	1.0 U	3.7	2.7 J	0.55 J	1.0 U	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	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	0.77 J	0.81 J	0.55 J	0.60 J	3.0	10	1.9	69	69	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.7	1.4	1.1	1.6	5.7	22	1.3	96	120	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		14.3	13.7	13.8	15.2	153	107	17.4	630	629	8.40	7.92	7.50	1.55	9.90	1.70	3.20	3.20	5.90
Total VOCs (w/o Acteone or Methylene Chloride)		13.8	13.7	13.8	15.2	148	106	14.1	630	629	0.00	4.12	7.50	1.55	1.00	1.70	3.20	3.20	2.40

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
- Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
ug/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
2-This is a duplicate sample from 4009-25D
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-27I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-13 9/29/2016 Deep ug/L	4009-13 11/28/2016 Deep ug/L	4009-13 4/26/2017 Deep ug/L	4009-13 6/20/2017 Deep ug/L	4009-13 10/23/2017 Deep ug/L	4009-13 12/28/2017 Deep ug/L	4009-13A 2/20/2014 Shallow ug/L	4009-13A 5/28/2014 Shallow ug/L	4009-13A 8/28/2014 Shallow ug/L	4009-13A 12/9/2014 Shallow ug/L	4009-13A 4/20/2015 Shallow ug/L	4009-13A 7/29/2015 Shallow ug/L	4009-13A 11/4/2015 Shallow ug/L	4009-13A 3/28/2016 Shallow ug/L	4009-13A 6/30/2016 Shallow ug/L	4009-13A 9/29/2016 Shallow ug/L	4009-13A 11/28/2016 Shallow ug/L	4009-13A 4/26/2017 Shallow ug/L	4009-13A 6/20/2017 Shallow ug/L	4009-13A 10/23/2017 Shallow ug/L	4009-13A 12/28/2017 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	10 U	10 U	4.2 J	3.4 J	10 U	8.4 J	10 U	11 J	10 U	6.8 J	10 U	10 U	10 U	10 U	10 U	10 U	3.0 J	4.1 J	2.6 J	10 U
Benzene	1	1.9	1.9	0.41 J	1.0 U	0.2 J	1.0 U	1.0 U	0.58 J	1.0 UJ	0.96 J	1.0 U	1.0 U	0.44 J	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		1.90	1.90	0.41	4.20	3.60	0.00	8.40	0.58	11.0	0.96	6.80	0.00	0.44	1.20	0.00	0.00	0.00	3.00	4.10	2.60	0.00
Total VOCs (w/o Acteone or Methylene Chloride)		1.90	1.90	0.41	0.00	0.20	0.00	0.00	0.58	0.00	0.96	0.00	0.00	0.44	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
- Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
ug/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
2-This is a duplicate sample from 4009-25D
1-This is a duplicate sample from 4009-12
2-This is a duplicate sample from 4009-27I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ - PDB was compromised when sample was collected
NS - Not Sampled

Notes
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 [Redacted] - Concentration exceeds NYSDEC Class GA Standard
 U - Compound was not detected at the indicated concentration
 J - Compound detected below the reporting limit or reported concentration is estimated
 µg/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D - Result of diluted sample shown
 M - Manual integrated compound
 * - Laboratory control sample / duplicate exceeds control limits.
 2-This is a duplicate sample from 4009-25D
 1-This is a duplicate sample from 4009-12
 2-This is a duplicate sample from 4009-271
 ** - Revised results due to mislabeling 27 and 29 clusters in field.
 ^ - PDB was compromised when sample was collected
 NS - Not Sampled

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-15 6/30/2016 Deep ug/L	4009-15 9/29/2016 Deep ug/L	4009-15 11/28/2016 Deep ug/L	4009-15 4/10/2017 Deep ug/L	4009-15 6/20/2017 Deep ug/L	4009-15 10/23/2017 Deep ug/L	4009-15 12/28/2017 Deep ug/L	4009-16 2/20/2014 Deep ug/L	4009-16 5/28/2014 Deep ug/L	4009-16 8/28/2014 Deep ug/L	4009-16 12/9/2014 Deep ug/L	4009-16 4/20/2015 Deep ug/L	4009-16 7/29/2015 Deep ug/L	4009-16 11/4/2015 Deep ug/L	4009-16 3/28/2016 Deep ug/L	4009-16 6/30/2016 Deep ug/L	4009-16 9/29/2016 Deep ug/L	4009-16 11/28/2016 Deep ug/L	4009-16 ^a 4/10/2017 Deep ug/L	4009-16 ^a 6/20/2017 Deep ug/L	4009-16 10/23/2017 Deep ug/L	4009-16 12/28/2017 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	0.98 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U [*]	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10.0 U	5.0 U	10 U
2-Hexanone	50 [*]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U
Acetone	50 [*]	9.1 J	4.3 J	8.4 J	4.5 J	9.5 J	9.7	5.1 J	5.9 J	3.5 J	7.1 J	10 U	6.0 J	10 U	10 U	10 U	4.5 J	10 U	10 U	NS	4.2 J	3.3 J	10 U
Benzene	1	8.5	7.8	9.0	0.97 J	12	10	9.1	1.0 U	1.0 U	8.2	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	8.4	8.0	1.8	NS	18.0	1.5	5.8
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Bromoform	50 [*]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [*]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NS	2.5 U	5.0 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [*]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	1.0 U	1.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.69 J	1.0 U	NS	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [*]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NS	2.0 U	2.0 U	2.0 U
Total VOCs		17.6	12.7	17.4	7.55	21.5	20.0	14.2	5.90	3.50	16.8	0.39	6.00	0.00	0.00	0.00	12.9	8.69	1.80	-	22.2	4.80	5.80
Total VOCs (w/o Acteone or Methylene Chloride)		8.50	8.41	9.00	3.05	12.0	10.3	9.1	0.00	0.00	9.70	0.39	0.00	0.00	0.00	0.00	8.40	8.69	1.80				

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard ug/L	4009-16A 2/20/2014 Shallow ug/L	4009-16A 5/28/2014 Shallow ug/L	4009-16A 8/28/2014 Shallow ug/L	4009-16A 12/9/2014 Shallow ug/L	4009-16A 4/20/2015 Shallow ug/L	4009-16A 7/29/2015 Shallow ug/L	4009-16A 11/4/2015 Shallow ug/L	4009-16A 3/28/2016 Shallow ug/L	4009-16A 6/30/2016 Shallow ug/L	4009-16A 9/29/2016 Shallow ug/L	4009-16A 11/28/2016 Shallow ug/L	4009-16A 4/10/2017 Shallow ug/L	4009-16A 6/20/2017 Shallow ug/L	4009-16A 10/23/2017 Shallow ug/L	4009-16A 12/28/2017 Shallow ug/L	4009-18 5/6/2015 Deep ug/L	4009-18 7/29/2015 Deep ug/L	4009-18 11/4/2015 Deep ug/L	4009-18 3/28/2016 Deep ug/L	4009-18 6/30/2016 Deep ug/L	4009-18 9/29/2016 Deep ug/L	4009-18 11/28/2016 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U	0.86 J	1.0	1.0 U	0.83 J	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	1.6 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	5.0 U	10 U	3.3 J	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	12	4.0 J	7.6 J	10 U	6.4 J	10 U	10 U	10 U	10 U	10 U	10 U	5.0 J	3.8 J	5.0 U	10 U	10	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	1.0 U	1.9	7.2	8.0	5.7	11	3.0	4.2	0.49 J	1.4	36	1.8	1.0 U	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U	0.41 J	1.0 U	0.47 J	1.7
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.58 J	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		13.6	5.90	14.8	8.00	12.1	11.0	3.00	4.20	0.49	1.40	36.0	6.80	3.80	0.54	0.00	14.2	1.00	0.00	0.99	0.83	0.47	1.70
Total VOCs (w/o Acteone or Methylene Chloride)		1.60	1.90	7.20	8.00	5																	

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-18 4/10/2017 Deep ug/L	4009-18 6/20/2017 Deep ug/L	4009-18 10/23/2017 Deep ug/L	4009-18 12/28/2017 Deep ug/L	4009-19 4/20/2015 Deep ug/L	4009-19 7/29/2015 Deep ug/L	4009-19 11/4/2015 Deep ug/L	4009-19 3/28/2016 Deep ug/L	4009-19 6/30/2016 Deep ug/L	4009-19 9/29/2016 Deep ug/L	4009-19 11/28/2016 Deep ug/L	4009-19 4/10/2017 Deep ug/L	4009-19 6/20/2017 Deep ug/L	4009-19 10/23/2017 Deep ug/L	4009-19 12/28/2017 Deep ug/L	4009-21 4/20/2015 Deep ug/L	4009-21 7/29/2015 Deep ug/L	4009-21 11/4/2015 Deep ug/L	4009-21 3/28/2016 Deep ug/L	4009-21 6/30/2016 Deep ug/L	4009-21 9/29/2016 Deep ug/L	4009-21 11/28/2016 Deep ug/L
1,1,1-Trichloroethane	5	0.83 J	1.0 U	0.69 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U *	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U *	10 U	5.0 U	10.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	6.4 J	4.1 J	2.9 J	10 U	8.5 J	10 U	10 U	10 U	10 U	10 U	10 U	4.2 J	3.4 J	5.0 U	10.0 U	7.9 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	2.7	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11	31	21	21	19
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.64 J	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		7.23	4.10	3.59	0.00	11.2	1.00	0.00	0.00	0.00	0.00	0.00	4.20	3.40	0.00	0.00	7.90	0.00	11.0	31.6	21.0	21.0	19.0
Total VOCs (w/o Acteone or Methylene Chloride)		0.83	0.00	0.69	0.00	2.70																	

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-21^ 4/10/2017 Deep ug/L	4009-21^ 6/20/2017 Deep ug/L	4009-21 10/23/2017 Deep ug/L	4009-21 12/28/2017 Deep ug/L	4009-22 12/3/2013 Deep ug/L	4009-22 2/20/2014 Deep ug/L	4009-22 5/28/2014 Deep ug/L	4009-22 8/28/2014 Deep ug/L	4009-22 12/9/2014 Deep ug/L	4009-22 4/20/2015 Deep ug/L	4009-22 7/29/2015 Deep ug/L	4009-22 11/4/2015 Deep ug/L	4009-22 3/28/2016 Deep ug/L	4009-22 6/30/2016 Deep ug/L	4009-22 9/29/2016 Deep ug/L	4009-22 11/28/2016 Deep ug/L	4009-22 4/10/2017 Deep ug/L	4009-22 6/20/2017 Deep ug/L	4009-22 10/23/2017 Deep ug/L	4009-22 12/28/2017 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U*	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	2.3 J	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.90 J	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	7.1 J	4.5 J	3.0 J	10 U	3.1 J	12	10 U	11	10 U	6.5 J	10.0 U	10.0 U	10.0 U	4.0 J	10 U	10 U	6.5 J	4.2 J	3.5 J	10 U
Benzene	1	24	25	18	18	0.69 J	0.69 J	0.92 J	0.98 J	0.82 J	1.2	1.1	1.2	1.6	1.3	1.3	1.1	1.1	1.1	1.1	1.0
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	5.0 U	2.5 U	1.0 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	0.44 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.46 J	1.0 U	1.0 U	1.0 U	1.8	0.69 J	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	0.7 J	0.6 J	1.1	0.83 J	0.64 J	0.93 J	1.1	0.81 J	0.92 J	1.0 U	0.90 J	1.3	1.0	0.88 J	0.85 J	1.0
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		31.1	29.9	21.0	18.0	4.44	13.2	2.02	12.8	1.46	8.63	2.20	2.01	2.98	5.30	2.20	2.40	10.4	6.87	8.65	2.0
Total VOCs (w/o Acteone or Methylene Chloride)		24.0	25.0	18.0	18.0	1.34	1.24	2.02	1.81	1.46	2.13	2.20	2.01	2.52	1.30	2.20	2.40	2.10	1.98	5.15	2.0

Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated
ug/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
2-This is a duplicate sample from 4009-25D
1-This is a duplicate sample from 4009-12
2-This is a duplicate sample from 4009-27I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^-. PDB was compromised when sample was collected
NS - Not Sampled

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	4009-26 2/20/2014 Intermediate ug/L	4009-26 5/28/2014 Intermediate ug/L	4009-26 8/28/2014 Intermediate ug/L	4009-26 12/9/2014 Intermediate ug/L	4009-26 4/10/2017 Intermediate ug/L	4009-26 6/20/2017 Intermediate ug/L	4009-26 10/23/2017 Intermediate ug/L	4009-26 12/28/2017 Intermediate ug/L	4009-27S 2/20/2014 Intermediate ug/L	4009-27S 5/28/2014 Intermediate ug/L	4009-27S 8/28/2014 Intermediate ug/L	4009-27S 12/9/2014 Intermediate ug/L	4009-27S 4/20/2015 Intermediate ug/L	4009-27S 7/29/2015 Intermediate ug/L	4009-27S 11/4/2015 Intermediate ug/L	4009-27S 3/28/2016 Intermediate ug/L	4009-27S 6/30/2016 Intermediate ug/L	4009-27S 9/29/2016 Intermediate ug/L	4009-27S 11/28/2016 Intermediate ug/L	4009-27S** 4/10/2017 Intermediate ug/L	4009-27S** 6/20/2017 Intermediate ug/L	4009-27S 10/23/2017 Intermediate ug/L	4009-27S 12/28/2017 Intermediate ug/L
1,1,1-Trichloroethane	5	98	370	150 DJ	92	100	350	140	82	54	61	65 J	49	61	62	61	58	54	54	61	54	46	53	53
1,1,2,2-Tetrachloroethane	5	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
1,1,2,2-Trichloro-1,2,2-Trifluoroethane		7.7	13	6.0 DJ	7.7	5.3	5.7	6.6	3.4	2.8	3.4	2.3 J	2.6	3.3	3.3	3.5	2.9	2.7	2.4	2.6	3.0	2.4	3.5	3.1
1,1,2-Trichloroethane	1	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
1,1-Dichloroethane	5	27	39	16 DJ	14	30	43	12	14	19	2.2	2.2 J	1.9 J	2.6	2.7	2.4	2.4	2.1	2.0	2.5	2.4	2.1	2.3	2.3
1,1-Dichloroethene	5	6.0	46	9.9 DJ	7.8	3.8	34	4.5	2.9	5.7	8.9	5.6 J	4.6	6.2	10	7.0	4.5	5.0	4.9	8.8	5.1	9.1	4.8	4.8
1,2,3-Trimethylbenzene		2.0 UJ	8.0 U	2.0 UDJ	10 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
1,2,4-Trichlorobenzene	5	1.0 U	8.0 U	2.0 UDJ	2 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
1,2,4-Trimethylbenzene	5	2.0 UJ	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	8.0 U	2.0 UDJ	4.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
1,2-Dichlorobenzene	3	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
1,2-Dichloroethane	0.6	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	0.9 J	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
1,2-Dichloropropane	1	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	2.0 UJ	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
1,3-Dichlorobenzene	3	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
1,4-Dichlorobenzene	3	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
2-Butanone (MEK)	50	10 U	80 U	20 UDJ	20 U	20 U*	20 U	5.0 U	20 U	10 U	10 U	10 UJ	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U*	20 U	5.0 U	20 U
2-Hexanone	50*	5.0 U	40 U	10 UDJ	20 U	10 U	10 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	10 U
4-Methyl-2-pentanone (MIBK)		5.0 U	40 U	10 UDJ	20 U	10 U	10 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	10 U
Acetone	50*	10	80 U	20 UDJ	20 U	7.4 J	20 U	1.3 J	20 U	9.9 J	3.8 J	8.1 UJ	20 U	8.1 J	10 U	10 U	10 U	10 U	10 U	10 U	20 U	20 U	3.5 J	20 U
Benzene	1	0.81 J	8.0 U	2.0 UDJ	0.55 J	2.0 U	0.87 J	0.27 J	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Bromodichloromethane	50	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Bromoform	50*	1.0 U	8.0 U	2.0 UDJ	2.0 U*	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Bromomethane	5	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 UJ	2.0 U
Carbon disulfide		1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Carbon tetrachloride	5	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Chlorobenzene	5	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Chloroethane	5	1.0 U	8.0 U	2.0 UDJ	2.0 U	3.6	3.1	0.65 J	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Chloroform	7	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	0.29 J	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	0.27 J	2.0 U
Chloromethane		1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
cis-1,2-Dichloroethene	5	120 D	190	96 DJ	85	81	130	59	54	18	20	19 J	19	21	24	21	22	20	20	23	20	17	20	22
cis-1,3-Dichloropropene	0.4	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Cyclohexane		1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Dibromochloromethane	50	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Dichlorodifluoromethane	5	3.9	5.8 J	5.0 DJ	2.8	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Ethylbenzene	5	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Isopropylbenzene (Cumene)	5	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Methyl Acetate		2.5 U	20 U	5.0 UDJ	20 U	5.0 U	5 U	5.0 U	2.0 U	2.5 U	2.5 U	2.5 UJ	20 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl Cyclohexane		1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Methylene Chloride	5	1.0 U	8.4	2.0 UDJ	2.0 U	2.0 U	1.8 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	2.0 U	1.2 J	1.0 U	2.0 U
Methyl Tert Butyl Ether	10	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Styrene	5	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Tetrachloroethene	5	1.1	8.0 U	0.97 DJ	0.89 J	0.84 J	1.1 J	0.84 J	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Toluene	5	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
trans-1,2-Dichloroethene	5	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	0.41 J	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	0.19 J	2.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Trichloroethene	5	45	71	47 DJ	49	45	63	57	49	25	28	24 J	22	25	28	25	24	23	22	24	22	24	22	27
Trichlorofluoromethane	5	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Vinyl chloride	2	12	21	13 DJ	9.4	5.2	11	5.1	4.6	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Xylenes, Total		2.0 U	16.0 U	4.0 UDJ	4.0 U	4.0 U	4 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 UJ	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U	2.0 U	4.0 U

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-27I 2/20/2014 Intermediate ug/L	4009-27I 5/28/2014 Intermediate ug/L	4009-27I 8/28/2014 Intermediate ug/L	4009-27I 12/9/2014 Intermediate ug/L	4009-27I 4/20/2015 Intermediate ug/L	4009-27I 7/29/2015 Intermediate ug/L	4009-27I 11/4/2015 Intermediate ug/L	4009-27I 3/28/2016 Intermediate ug/L	4009-27I 6/30/2016 Intermediate ug/L	4009-27I 9/29/2016 Intermediate ug/L	4009-27I 11/28/2016 Intermediate ug/L	4009-27I** 4/10/2017 Intermediate ug/L	4009-27I 6/20/2017 Intermediate ug/L	4009-27I 10/23/2017 Intermediate ug/L	4009-27I 12/28/2017 Intermediate ug/L	4009-27D 2/20/2014 Deep ug/L	4009-27D 5/28/2014 Deep ug/L	4009-27D 8/28/2014 Deep ug/L	4009-27D 12/9/2014 Deep ug/L	4009-27D 4/20/2015 Deep ug/L	4009-27D 7/29/2015 Deep ug/L	4009-27D 11/4/2015 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	0.37 J	1.0 UJ	1.0 U	1.0 U	0.31 J	1.0 U	0.39 J	0.40 J	1.0 U	1.0 U	1.0 U	0.4 J	0.68 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.8 J	10 U	7.9 J	10 U	9.3 J	10 U	10 U	10 U	10 U	10 U	10 U	5.3 J	3.3 J	5.0 U	10 U	9.8 J	4.8 J	8.0 J	10 U	7.1 J	10.0 U	10.0 U
Benzene	1	1.0 U	1.0 U	0.71 J	1.0 U	1.0 U	1.0 U	0.61 J	1.0 U	0.95 J	4.6	1.5	1.0 U	1.0 U	0.12 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	0.86 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	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 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 UJ	0.77 J	0.87 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	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 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.4	1.1	1.2 J	0.34 J	1.0 U	1.9	1.0 U	1.4	0.84 J	1.0 U	1.0 U	0.74 J	1.7	0.98 J	0.73 J	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		7.20	1.47	11.1	1.97	10.2	2.21	0.61	1.79	3.49	4.60	1.50	6.04	5.40	3.19	0.73	9.						

Notes
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 [Redacted] - Concentration exceeds NYSDEC Class GA Standard
 U - Compound was not detected at the indicated concentration
 J - Compound detected below the reporting limit or reported concentration is estimated
 µg/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D - Result of diluted sample shown
 M - Manual integrated compound
 * - Laboratory control sample / duplicate exceeds control limits.
 2-This is a duplicate sample from 4009-25D
 1-This is a duplicate sample from 4009-12
 2-This is a duplicate sample from 4009-271
 ** - Revised results due to mislabeling 27 and 29 clusters in field.
 ^ - PDB was compromised when sample was collected
 NS - Not Sampled

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-29S 2/20/2014 Intermediate ug/L	4009-29S 5/28/2014 Intermediate ug/L	4009-29S 8/28/2014 Intermediate ug/L	4009-29S 12/9/2014 Intermediate ug/L	4009-29S 4/20/2015 Intermediate ug/L	4009-29S 7/29/2015 Intermediate ug/L	4009-29S 11/4/2015 Intermediate ug/L	4009-29S 3/28/2016 Intermediate ug/L	4009-29S 6/30/2016 Intermediate ug/L	4009-29S 9/29/2016 Intermediate ug/L	4009-29S 11/28/2016 Intermediate ug/L	4009-29S** 4/10/2017 Intermediate ug/L	4009-29S 6/20/2017 Intermediate ug/L	4009-29S 10/23/2017 Intermediate ug/L	4009-29S 12/28/2017 Intermediate ug/L	4009-29I 2/20/2014 Intermediate ug/L	4009-29I 5/28/2014 Intermediate ug/L	4009-29I 8/28/2014 Intermediate ug/L	4009-29I 12/9/2014 Intermediate ug/L	4009-29I 4/20/2015 Intermediate ug/L	4009-29I 7/29/2015 Intermediate ug/L	4009-29I 11/4/2015 Intermediate ug/L	4009-29I 3/28/2016 Intermediate ug/L
1,1,1-Trichloroethane	5	710 D	650	1000 DJ	480	830	850	760	800 D	460	430	23	480	440	390	490	1700 D	1600	130 DJ	1100	1500	1700	1400	1400 D
1,1,2,2-Tetrachloroethane	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		12	10 U	7.1 DJ	17 U	8.7 J	7.3 J	20 U	7.1	20 U	1.0 U	2.0 U	5.0	5.5 J	3.9	9.0 J	21	25 U	2.0 UDJ	15 J	15 J	40 U	40 U	14
1,1,2-Trichloroethane	1	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	0.49 J	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	0.86 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	0.57 J
1,1-Dichloroethane	5	130 D	35	46 D	29	38	55	49	58	69	52	50	82	52	36	76	83	96	21 DJ	82	100	100	90	69
1,1-Dichloroethene	5	92	89	62 D	33	37	130	84	45	33	27	3.2	32	67	26	37	150 D	230	6.4 DJ	92	85	240	200	77
1,2,3-Trimethylbenzene		1.0 U	10 U	10 UD	83 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	200 U	40 U	40 U	40 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,2,4-Trimethylbenzene	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	10 U	10 UD	33 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	80 U	40 U	40 U	40 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	0.41 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,2-Dichloropropane	1	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
2-Butanone (MEK)	50	10 U	100 U	100 UD	170 U	200 U	200 U	200 U	200 U	200 U	10 U	20 U	10 U*	100 U	10 U	100 U	10 U	250 U	20 UDJ	400 U	400 U	400 U	400 U	10 U
2-Hexanone	50*	5.0 U	50 U	50 UD	170 U	100 U	100 U	100 U	100 U	100 U	5.0 U	10 U	5.0 U	50 U	10 U	50 U	5.0 U	130 U	10 UDJ	400 U	200 U	200 U	200 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	50 U	50 UD	170 U	100 U	100 U	100 U	100 U	100 U	5.0 U	10 U	5.0 U	50 U	10 U	50 U	5.0 U	130 U	10 UDJ	400 U	200 U	200 U	200 U	5.0 U
Acetone	50*	6.0 J	100 U	100 UD	170 U	200 U	200 U	200 U	200 U	200 U	10 U	8.0 J	4.9 J	100 U	10 U	100 U	11	250 U	12 DJ	400 U	400 U	400 U	400 U	10 U
Benzene	1	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	98	2.7	10 U	0.3 J	10 U	0.59 J	25 U	41 DJ	40 U	40 U	40 U	40 U	0.48 J
Bromodichloromethane	50	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Bromoform	50*	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Bromomethane	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Carbon disulfide		1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	0.23 J	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Carbon tetrachloride	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Chlorobenzene	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.6	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.3
Chloroethane	5	2.9	10 U	10 UD	17 U	20 U	20 U	20 U	1.5	20 U	1.0 U	2.0 U	2.1	10 U	1.6 J	10 U	5.0	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	2.7
Chloroform	7	0.69 J	10 U	10 UD	17 U	20 U	20 U	20 U	0.49 J	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.1	25 U	1.1 DJ	40 U	40 U	40 U	40 U	0.77 J
Chloromethane		1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
cis-1,2-Dichloroethene	5	260 D	340	410 D	270	320	480	310	390 D	190	200	59	180	210	170	250	400 D	400	53 DJ	330	380	530	410	420 D
cis-1,3-Dichloropropene	0.4	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Cyclohexane		1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Dibromochloromethane	50	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Dichlorodifluoromethane	5	1.3	10 U	10 UD	17 U	20 U	20 U	20 U	1.5	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.2	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.9
Ethylbenzene	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Isopropylbenzene (Cumene)	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Methyl Acetate		2.5 U	25 U	25 UD	170 U	20 U	20 U	50 U	50 U	50 U	2.5 U	5.0 U	2.5 U	25 U	10 U	25 U	2.5 U	63 U	5.0 UDJ	400 U	100 U	100 U	100 U	2.5 U
Methyl Cyclohexane		1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Methylene Chloride	5	1.0 U	10 U	10 UD	5.6 J*	20 U	20 U	20 U	0.58 J	20 U	1.0 U	2.0 U	1.0 U	7.1 J	2.0 U	10 U	1.0 U	25 U	1.2 DJ	14 J*	18 J	40 U	40 U	0.60 J
Methyl Tert Butyl Ether	10	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Styrene	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Tetrachloroethene	5	0.95 J	10 U	10 UD	17 U	20 U	20 U	20 U	0.42 J	20 U	1.0 U	2.0 U	0.36 J	10 U	2.0 U	10 U	2.1	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.8
Toluene	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	1.5	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	3.7 DJ	40 U	40 U	40 U	40 U	1.0 U
trans-1,2-Dichloroethene	5	1.5	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	0.87 J	10 U	3.4	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.3
trans-1,3-Dichloropropene	0.4	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Trichloroethene	5	300 D	10 U	27 D	3.5 J	20 U	20 U	20 U	9.2	20 U	1.0 U	2.0 U	17	27	94	110	450 D	460	34 DJ	360	410	550	480	450 D
Trichlorofluoromethane	5	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U	10 U	0.37 J	10 U	0.94 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	0.92 J
Vinyl chloride	2	43	15	42 D	16 J	24	65	82	120 D	78	95	2.5	130	68	32	100	85	85	6.6 DJ	78	92	140	110	94
Xylenes, Total		2.0 U	20 U	20 UD	33 U	40 U	40 U	40 U	40 U	40 U	2.0 U	4.0 U	2.0 U	20 U	4.0 U	20 U	2.0 U	50 U	4.0 UDJ	80 U	80 U	80 U	80 U	2.0 U
Total VOCs		1560	1129	1594	837	1257.7	1587	1285	1434	830	804	245	936	877	755	1072	2917	2871	310	2071	2600	3260	2690	2536
Total VOCs (w/o Acteone or Methylene Chloride)		1554	1129	1594	832	1257.7	1587	1285	1434	830	804	237	931	870	755	1072	2906	2871	297	2057	2582	3260	2690	2536

Notes
NYSDEC GA

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	4009-29I 6/30/2016 Intermediate ug/L	4009-29I 9/29/2016 Intermediate ug/L	4009-29I 11/28/2016 Intermediate ug/L	4009-29I** 4/10/2017 Intermediate ug/L	4009-29I 6/20/2017 Intermediate ug/L	4009-29I 10/23/2017 Intermediate ug/L	4009-29I 12/28/2017 Intermediate ug/L	DUP-2 12/28/2017 Intermediate ug/L	4009-29D 2/20/2014 Deep ug/L	4009-29D 5/28/2014 Deep ug/L	4009-29D 8/28/2014 Deep ug/L	4009-29D 12/9/2014 Deep ug/L	4009-29D 4/20/2015 Deep ug/L	4009-29D 7/29/2015 Deep ug/L	4009-29D 11/4/2015 Deep ug/L	4009-29D 3/28/2016 Deep ug/L	4009-29D 6/30/2016 Deep ug/L	4009-29D 9/29/2016 Deep ug/L	4009-29D 11/28/2016 Deep ug/L	4009-29D** 4/10/2017 Deep ug/L	4009-29D 6/20/2017 Deep ug/L	4009-29D 10/23/2017 Deep ug/L	4009-29D 12/28/2017 Deep ug/L
1,1,1-Trichloroethane	5	1200	1.0 U	2.0 U	1000	1200	970	1100	1000	1.0 U	80	1200 DJ	170	290	30	14	23	16	14	21	270	31	7.6	13
1,1,2,2-Tetrachloroethane	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		15 J	1.0 U	2.0 U	12	14 J	11	16 J	20 U	1.0 U	1.1	14	2.9 J	3.6 J	1.0 U	1.0 U	0.40 J	1.0 U	1.0 U	1.0 U	4.2	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	25 U	1.0 U	2.0 U	0.60 J	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	0.65 J	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	71	4.4	3.9	89	82	72	92	88	1.1	16	150 DJ	27	61	12	4.2	5.5	4.0	3.7	6.3	44	8.1	1.8	2.9
1,1-Dichloroethene	5	93	1.9	2.0 U	80	190	62	71	65	1.0 U	12	130 DJ	27	29	5.7	2.0	2.0	1.3	1.1	2.8	26	2.0	0.37 J	0.88 J
1,2,3-Trimethylbenzene		25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	29 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	11 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	250 U	10 U	20 U	10 U*	200 U	25 U	200 U	200 U	10 U	10 U	10 U	57 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	2.3 J	10 U
2-Hexanone	50*	130 U	5.0 U	10 U	5.0 U	100 U	25 U	100 U	100 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		130 U	5.0 U	10 U	5.0 U	100 U	25 U	100 U	100 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	250 U	5.6 J	6.1 J	5.2 J	200 U	25 U	200 U	200 U	6.9 J	10 U	10 U	57 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	4.5 J	3.5 J	1.3 J	10 U
Benzene	1	25 U	75	120	0.71 J	20 U	0.57 J	20 U	20 U	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	0.70 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		25 U	0.35 J	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	25 U	1.0 U	2.0 U	1.1	20 U	1.7 J	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	25 U	51	29	3.9	20 U	3.6 J	20 U	20 U	1.0 U	1.4	8.8 DJ	5.7 U	2.5 J	1.0 U	1.2	1.2	1.5	2.0	1.0 U	4.4	2.2	3.0	2.3
Chloroform	7	25 U	1.0 U	2.0 U	0.67 J	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	0.83 J	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	340	45	41	330	360	330	390	390	1.4	25	400 DJ	150	210	37	8.0	9.9	5.7	5.4	9.5	130	10	1.5	3.3
cis-1,3-Dichloropropene	0.4	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		63 U	2.5 U	5.0 U	2.5 U	50 U	25 U	50 U	50 U	2.5 U	2.5 U	2.5 U	57 U	13 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U
Methyl Cyclohexane		25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	25 U	1.0 U	2.0 U	1.0 U	15 J	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	2.0 J*	5.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	25 U	1.0 U	2.0 U	1.4	20 U	1.8 J	20 U	20 U	1.0 U	1.0 U	1.0	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	25 U	2.2	1.7 J	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	25 U	1.0 U	2.0 U	1.2	20 U	1.8 J	20 U	20 U	1.0 U	1.0 U	1.8	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	370	3.5	2.0	340	390	290	410	380	1.8	17	400 DJ	26	20	0.78 J	0.94 J	3.3	2.0	1.8	1.7	61	7.2	2.0	3.5
Trichlorofluoromethane	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	85	2.0	2.0	130	110	96	120	110	4.7	12	170 DJ	34	55	7.8	7.2	8.3	7.5	6.5	15	73	11	8.4	9.4
Xylenes, Total		50 U	2.0 U	4.0 U	2.0 U	40 U	10 U	40 U	40 U	2.0 U	2.0 U	2.0 U	11 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		2174	191	206	1995	2361	1840	2199	2033	15.9	165	2480	439	674	94.0	37.5	54.1	38.0	34.5					

Notes
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 [redacted] - Concentration exceeds NYSDEC Class GA Standard
 U - Compound was not detected at the indicated concentration
 J - Compound detected below the reporting limit or reported concentration is estimated
 µg/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D - Result of diluted sample shown
 M - Manual integrated compound
 * - Laboratory control sample / duplicate exceeds control limits.
 2-This is a duplicate sample from 4009-25D
 1-This is a duplicate sample from 4009-12
 2-This is a duplicate sample from 4009-271
 ** - Revised results due to mislabeling 27 and 29 clusters in field.
 ^ - PDB was compromised when sample was collected
 NS - Not Sampled

Table 3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	Well 1-1 4/20/2015 Deep ug/L	Well 1-1 7/29/2015 Deep ug/L	Well 1-1 11/4/2015 Deep ug/L	Well 1-1 3/28/2016 Deep ug/L	Well 1-1 6/30/2016 Deep ug/L	Well 1-1 9/29/2016 Deep ug/L	Well 1-1 11/28/2016 Deep ug/L	Well 1-1^ 4/10/2017 Deep ug/L	Well 1-1 6/20/2017 Deep ug/L	Well 1-1 10/23/2017 Deep ug/L	Well 1-1 12/28/2017 Deep ug/L
1,1,1-Trichloroethane	5	220	240	350	250	210	310	220	NS	360	210	170
1,1,2,2-Tetrachloroethane	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		4.1	5.0 U	5.0 U	4.3 J	4.3 J	6.3	5.0 U	NS	7.1	5.7	4.4
1,1,2-Trichloroethane	1	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	15	18	28	22	14	22	18	NS	32	17	18
1,1-Dichloroethene	5	10	30	41	16	5.0 U	20	31	NS	57	13	13
1,2,3-Trimethylbenzene		4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	40 U	50 U	50 U	50 U	50 U	50 U	50 U	NS	50 U	5.0 U	10 U
2-Hexanone	50*	20 U	25 U	25 U	25 U	25 U	25 U	25 U	NS	25 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		20 U	25 U	25 U	25 U	25 U	25 U	25 U	NS	25 U	5.0 U	5.0 U
Acetone	50*	40 U	50 U	50 U	50 U	50 U	50 U	50 U	NS	50 U	5.0 U	10 U
Benzene	1	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Bromodichloromethane	50	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Bromoform	50*	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Bromomethane	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Carbon disulfide		4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Chlorobenzene	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Chloroethane	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Chloroform	7	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	0.27 J	1.0 U
Chloromethane		4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	39	66	82	68	52	77	62	NS	96	55	59
cis-1,3-Dichloropropene	0.4	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Cyclohexane		4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Dibromochloromethane	50	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Ethylbenzene	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Methyl Acetate		10 U	13 U	13 U	13 U	13 U	13 U	13 U	NS	13 U	5.0 U	2.5 U
Methyl Cyclohexane		4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Methylene Chloride	5	4.0 U	5.0 U	5.0 U	5.9 B	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Styrene	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Tetrachloroethene	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	0.21 J	1.0 U
Toluene	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	0.28 J	1.0 U
trans-1,3-Dichloropropene	0.4	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	1.0 U	1.0 U
Trichloroethene	5	41	64	81	59	56	69	66	NS	89	59	61
Trichlorofluoromethane	5	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	0.19 J	1.0 U
Vinyl chloride	2	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	0.17 J	1.0 U
Xylenes, Total		8.0 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	2.0 U	2.0 U
Total VOCs		329	418	582	425	336	504	397	-	641	361	325
Total VOCs (w/o Acetone or Methylene Chloride)		329	418	582	419	336	504	397	-	641	361	325

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
- Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
2-This is a duplicate sample from 4009-25D
1-This is a duplicate sample from 4009-12
2-This is a duplicate sample from 4009-27I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^-. PDB was compromised when sample was collected
NS - Not Sampled

Table 4 Summary of Groundwater Results - 1, 4- Dioxane and PFAS
Remedial Site Optimization Report Second Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	USEPA Health Advisory Limit (HAL) for drinking water (ng/L)	4009-7 6/28/2017 Shallow	4009-8 6/28/2017 Intermediate	4009-9 6/26/2017 Shallow	4009-10 6/26/2017 Shallow	4009-11 6/26/2017 Deep	4009-11A 6/26/2017 Shallow	4009-12 6/23/2017 Deep
1,4 Dioxane (µg/L)	--	0.73	2.8	0.4 U	0.4 U	3.8	0.4 U	3.4
Perfluorobutanesulfonic acid (PFBS)	--	10.2	3.22	1.23 J	4.85	2.0 U	2.0 U	2.26
Perfluorohexanesulfonic acid (PFHxS)	--	2.0 U	5.02	2.01	17.9	26	2.88	3.16
Perfluoroheptanoic acid (PFHpA)	--	2.0 U	1.68 J	1.49 J	1.3 J	0.81 J	2.0 U	2.51
Perfluorooctanoic acid (PFOA)	70	9.75	12.7	15	6.32	2.94	8.59	6.76
Perfluorooctanesulfonic acid (PFOS)	70	7.02	9.51	15.5	6.19	2.0 U	6.8	2.0 U
Perfluorononanoic acid (PFNA)	--	6.18	1.06 J	2.73	2.0 U	3.83	2.0 U	2.0 U
Total PFAS	70	33.15	33.19	37.96	36.6	33.58	18.3	14.7

Notes

 - Concentration exceeds Guidance Value
 U - Compound was not detected at the indicated concentration
 J - Estimated value
 µg/L - Micrograms per Liter
 ng/L - Nanograms/Liter
 -- No Guidance Value
 Unless otherwise noted, sample results are in ng/L

Table 4 Summary of Groundwater Results - 1, 4- Dioxane and PFAS
Remedial Site Optimization Report Second Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	USEPA Health Advisory Limit (HAL) for drinking water (ng/L)	4009-13 6/25/2017 Deep	4009-13A 6/25/2017 Shallow	4009-14 6/23/2017 Deep	4009-15 6/23/2017 Deep	4009-16 6/21/2017 Deep	4009-16A 6/21/2017 Shallow	4009-18 6/21/2017 Deep
1,4 Dioxane (µg/L)	--	0.4 U	0.4 U	0.4 U	0.4 U	0.91	0.4 U	0.40 U
Perfluorobutanesulfonic acid (PFBS)	--	2.0 U	12.9	2.0 U	2.0 U	2.0 U	2.43	2.0 U
Perfluorohexanesulfonic acid (PFHxS)	--	6.38	2.02	6.79	2.0 U	5.01	4.28	1.11 J
Perfluoroheptanoic acid (PFHpA)	--	2.0 U	2.52	2.0 U	2.0 U	2.0 U	2.67	2.0 U
Perfluorooctanoic acid (PFOA)	70	1.21 J	5.63	2.0 U	2.0 U	6.22	8.88	2.25
Perfluorooctanesulfonic acid (PFOS)	70	1.81 J	2.0 U	2.0 U	2.0 U	2.0 U	9.18	2.28
Perfluorononanoic acid (PFNA)	--	2.0 U	2.0 U	2.0 U	2.0 U	3.05	3.65	10.7
Total PFAS	70	9.4	23.1	6.8	0.0	14.28	31.09	16.34

Notes

 - Concentration exceeds Guidance Value
 U - Compound was not detected at the indicated concentration
 J - Estimated value
 µg/L - Micrograms per Liter
 ng/L - Nanograms/Liter
 -- No Guidance Value
 Unless otherwise noted, sample results are in ng/L

Table 4 Summary of Groundwater Results - 1, 4- Dioxane and PFAS
Remedial Site Optimization Report Second Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	USEPA Health Advisory Limit (HAL) for drinking water (ng/L)	4009-19 6/22/2017 Deep	4009-21 6/21/2017 Deep	4009-22 6/23/2017 Deep	4009-26 6/28/2017 Intermediate	4009-27S 6/27/2017 Intermediate	4009-27I 6/27/2017 Intermediate	4009-27D 6/27/2017 Deep
1,4 Dioxane (µg/L)	--	0.85	0.78	0.78	3.7	0.73	0.21 J	0.4 U
Perfluorobutanesulfonic acid (PFBS)	--	2.0 U	2.0 U	2.0 U	3.36	1.87 J	2.18	4.5
Perfluorohexanesulfonic acid (PFHxS)	--	2.0 U	2.0 U	2.09	4.37	1.12 J	1.86 J	3.14
Perfluoroheptanoic acid (PFHpA)	--	2.0 U	2.0 U	2.0 U	2.0 U	1.63 J	2.0 U	2.0 U
Perfluorooctanoic acid (PFOA)	70	2.0 U	2.0 U	2.0 U	9.62	3.4	3.79	2.0 U
Perfluorooctanesulfonic acid (PFOS)	70	2.0 U	2.0 U	2.0 U	8.44	2.0 U	2.0 U	2.0 U
Perfluorononanoic acid (PFNA)	--	2.0 U	2.0 U	3.57	1.14 J	2.0 U	2.0 U	2.0 U
Total PFAS	70	0.0	0.0	5.66	26.93	4.3	7.8	7.7

Notes

 - Concentration exceeds Guidance Value
 U - Compound was not detected at the indicated concentration
 J - Estimated value
 µg/L - Micrograms per Liter
 ng/L - Nanograms/Liter
 -- No Guidance Value
 Unless otherwise noted, sample results are in ng/L

Table 4 Summary of Groundwater Results - 1, 4- Dioxane and PFAS
Remedial Site Optimization Report Second Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	USEPA Health Advisory Limit (HAL) for drinking water (ng/L)	4009-28 6/23/2017 Deep	4009-29S 6/27/2017 Intermediate	4009-29I 6/27/2017 Intermediate	4009-29D 6/27/2017 Deep	4009-30 6/22/2017 Deep	4009-30A 6/22/2017 Shallow	Well 1-2A Influent 6/21/2017 ug/L	Well 1-3 Influent 6/21/2017 ug/L
1,4 Dioxane (µg/L)	--	0.61	2.40	5.9	200	0.4 U	0.4 U	0.39 J	0.4 U
Perfluorobutanesulfonic acid (PFBS)	--	2.0 U	2.57	2.5	2.0 U	2.0 U	1.75 J	2.0 U	0.96 J
Perfluorohexanesulfonic acid (PFHxS)	--	2.0 U	2.63	3.51	2.0 U	0.9 J	3.65	2.0 U	3.07
Perfluoroheptanoic acid (PFHpA)	--	2.0 U	1.62 J	1.81 J	2.0 U	2.0 U	2.54	2.0 U	5.29
Perfluorooctanoic acid (PFOA)	70	2.0 U	6.28	8.48	2.0 U	2.0 U	8.59	2.0 U	4.79
Perfluorooctanesulfonic acid (PFOS)	70	2.0 U	2.73	7.26	2.0 U	2.0 U	7.43	2.0 U	7.19
Perfluorononanoic acid (PFNA)	--	2.0 U	2.0 U	0.69 J	2.0 U	2.0 U	1.52 J	2.0 U	4.80
Total PFAS	70	0.0	15.8	24.25	0.0	0.9	25.48	0.0	26.10

Notes

 - Concentration exceeds Guidance Value
 U - Compound was not detected at the indicated concentration
 J - Estimated value
 µg/L - Micrograms per Liter
 ng/L - Nanograms/Liter
 -- No Guidance Value
 Unless otherwise noted, sample results are in ng/L

Table 5 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard ug/L	Well 1-2A Influent 7/22/2014 ug/L	Well 1-2A Influent 7/30/2014 ug/L	Well 1-2A Influent 8/18/2014 ug/L	Well 1-2A Influent 8/28/2014 ug/L	Well 1-2A Influent 9/29/2014 ug/L	Well 1-2A Influent 9/30/2014 ug/L	Well 1-2A Influent 10/21/2014 ug/L	Well 1-2A Influent 10/28/2014 ug/L	Well 1-2A Influent 11/11/2014 ug/L	Well 1-2A Influent 11/24/2014 ug/L	Well 1-2A Influent 12/9/2014 ug/L	Well 1-2A Influent 12/18/2014 ug/L	Well 1-2A Influent 1/20/2015 ug/L	Well 1-2A Influent 1/29/2015 ug/L	Well 1-2A Influent 2/25/2015** ug/L	Well 1-2A Influent 2/25/2015** ug/L	Well 1-2A Influent 3/12/2015** ug/L	Well 1-2A Influent 3/19/2015** ug/L	Well 1-2A Influent 4/9/2015 ug/L	Well 1-2A Influent 4/20/2015 ug/L	Well 1-2A Influent 5/6/2015 ug/L	Well 1-2A Influent 5/12/2015 ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA	NA	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
1,2,4-Trimethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	2.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	NS	NS	NS	NA	10 U	10 U	NA
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U *	10 U	NA	NA	5.0 U	NS	NS	NS	NS	NA	5.0 U	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U	10 U	NA	NA	5.0 U	NS	NS	NS	NS	NA	5.0 U	5.0 U	NA
Acetone	50*	NA	10 U	NA	10 U	10 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	NS	NS	NS	NA	10 U	10 U	NA
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Bromodichloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA
Bromoform	50*	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA
Bromomethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Carbon disulfide		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Chloroform	7	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U*	NA	NA	1.0 U *	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA
Dichlorodifluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U *	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Methyl Acetate		NA	NA	NA	2.5 U	NA	NA	2.5 U	NA	NA	2.5 U	10 U	NA	NA	2.5 U	NS	NS	NS	NS	NA	2.5 U	2.5 U	NA
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA	1.0 U	1.0 U	NA
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Trichlorofluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U	1.0 U	1.0 U	0.5 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	NS	NS	NS	NS	0.5 U	2.0 U	2.0 U	1.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0	0	0

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
ug/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

Table 5 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard ug/L	Well 1-2A Influent 6/9/2015 ug/L	Well 1-2A Influent 6/25/2015 ug/L	Well 1-2A Influent 7/29/2015 ug/L	Well 1-2A Influent 8/11/2015 ug/L	Well 1-2A Influent 8/28/2015 ug/L	Well 1-2A Influent 9/15/2015 ug/L	Well 1-2A Influent 9/24/2015 ug/L	Well 1-2A Influent 10/12/2015 ug/L	Well 1-2A Influent 11/4/2015 ug/L	Well 1-2A Influent 11/10/2015 ug/L	Well 1-2A Influent 12/21/2015 ug/L	Well 1-2A Influent 1/19/2016 ug/L	Well 1-2A Influent 1/27/2016 ug/L	Well 1-2A Influent 2/16/2016 ug/L	Well 1-2A Influent 2/26/2016 ug/L	Well 1-2A Influent 3/22/2016 ug/L	Well 1-2A Influent 3/28/2016 ug/L	Well 1-2A Influent 4/20/2016 ug/L	Well 1-2A Influent 4/22/2016 ug/L	Well 1-2A Influent 5/20/2016 ug/L	Well 1-2A Influent 5/23/2016 ug/L	Well 1-2A Influent 6/21/2016 ug/L	Well 1-2A Influent 6/22/2016 ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	2.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloropropane	1	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
2-Butanone (MEK)	50	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA
2-Hexanone	50*	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA
Acetone	50*	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA
Benzene	1	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Bromodichloromethane	50	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA
Bromoform	50*	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA
Bromomethane	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA
Carbon disulfide		NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA
Carbon tetrachloride	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chloroform	7	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Chloromethane		0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Cyclohexane		NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Dibromochloromethane	50	NA	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U
Dichlorodifluoromethane	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U
Methyl Acetate		NA	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U	NA	10 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA
Methyl Cyclohexane		NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Methylene Chloride	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U
Styrene	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Tetrachloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Toluene	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Trichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Trichlorofluoromethane	5	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Vinyl chloride	2	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Xylenes, Total		0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
ug/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U

Table 5 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard ug/L	Well 1-2A Influent 7/20/2016 ug/L	Well 1-2A Influent 7/28/2016 ug/L	Well 1-2A Influent 8/16/2016 ug/L	Well 1-2A Influent 8/18/2016 ug/L	Well 1-2A Influent 9/6/2016 ug/L	Well 1-2A Influent 9/15/2016 ug/L	Well 1-2A Influent 10/18/2016 ug/L	Well 1-2A Influent 10/31/2016 ug/L	Well 1-2A Influent 11/8/2016 ug/L	Well 1-2A Influent 11/28/2016 ug/L	Well 1-2A Influent 12/16/2016 ug/L	Well 1-2A Influent 12/29/2016 ug/L	Well 1-2A Influent 1/13/2017 ug/L	Well 1-2A Influent 1/31/2017 ug/L	Well 1-2A Influent 2/7/2017 ug/L	Well 1-2A Influent 2/27/2017 ug/L	Well 1-2A Influent 3/7/2017 ug/L	Well 1-2A Influent 3/23/2017 ug/L	Well 1-2A Influent 4/4/2017 ug/L	Well 1-2A Influent 4/26/2017 ug/L	Well 1-2A Influent 5/19/2017 ug/L	Well 1-2A Influent 5/24/2017 ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,4-Trimethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Acetone	50*	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromoform	50*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U*	NA	1.0 U*
Bromomethane	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon disulfide		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroform	7	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dibromochloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U*	NA	1.0 U*
Dichlorodifluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U*	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Isopropylbenzene (Cumene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Acetate		NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U
Methyl Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
ug/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

Table 5 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard ug/L	Well 1-3 Influent 7/22/2014 ug/L	Well 1-3 Influent 7/30/2014 ug/L	Well 1-3 Influent 8/18/2014 ug/L	Well 1-3 Influent 8/28/2014 ug/L	Well 1-3 Influent 9/29/2014 ug/L	Well 1-3 Influent 9/30/2014 ug/L	Well 1-3 Influent 10/21/2014 ug/L	Well 1-3 Influent 10/28/2014 ug/L	Well 1-3 Influent 11/11/2014 ug/L	Well 1-3 Influent 11/24/2014 ug/L	Well 1-3 Influent 12/9/2014 ug/L	Well 1-3 Influent 12/18/2014 ug/L	Well 1-3 Influent 1/20/2015 ug/L	Well 1-3 Influent 1/29/2015 ug/L	Well 1-3 Influent 2/25/2015 ug/L	Well 1-3 Influent 2/25/2015 ug/L	Well 1-3 Influent 3/12/2015 ug/L	Well 1-3 Influent 3/19/2015 ug/L	Well 1-3 Influent 4/9/2015 ug/L	Well 1-3 Influent 4/20/2015 ug/L	Well 1-3 Influent 5/6/2015 ug/L	Well 1-3 Influent 5/12/2015 ug/L	Well 1-3 Influent 6/9/2015 ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,2,3-Trimethylbenzene		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA
1,2,4-Trichlorobenzene	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	2.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA
1,2-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,3-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
1,4-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	10 U	NA	10 U	NA	10 U	10 U	NA	NA
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U *	10 U	NA	NA	5.0 U	NS	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U	10 U	NA	NA	5.0 U	NS	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA
Acetone	50*	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	10 U	NA	10 U	NA	10 U	10 U	NA	NA
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Bromodichloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA
Bromoform	50*	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA
Bromomethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Carbon disulfide		0.5 U	1.0 U	0.5 U	1 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	NA	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Chloroform	7	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U*	NA	NA	1.0 U *	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA
Dichlorodifluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U *	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Isopropylbenzne (Cumene)	5	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Methyl Acetate		NA	NA	NA	2.5 U	NA U	NA	2.5 U	NA	NA	2.5 U	10 U	NA	NA	2.5 U	NS	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA	NA
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	1 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0											

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
ug/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

Table 5 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard ug/L	Well 1-3 Influent 6/25/2015 ug/L	Well 1-3 Influent 7/29/2015 ug/L	Well 1-3 Influent 8/11/2015 ug/L	Well 1-3 Influent 8/28/2015 ug/L	Well 1-3 Influent 9/15/2015 ug/L	Well 1-3 Influent 9/24/2015 ug/L	Well 1-3 Influent 10/12/2015 ug/L	Well 1-3 Influent 11/4/2015 ug/L	Well 1-3 Influent 11/10/2015 ug/L	Well 1-3 Influent 12/21/2015 ug/L	Well 1-3 Influent 1/19/2016 ug/L	Well 1-3 Influent 1/27/2016 ug/L	Well 1-3 Influent 2/16/2016 ug/L	Well 1-3 Influent 2/26/2016 ug/L	Well 1-3 Influent 3/22/2016 ug/L	Well 1-3 Influent 3/28/2016 ug/L	Well 1-3 Influent 4/20/2016 ug/L	Well 1-3 Influent 4/22/2016 ug/L	Well 1-3 Influent 5/20/2016 ug/L	Well 1-3 Influent 5/23/2016 ug/L	Well 1-3 Influent 6/21/2016 ug/L	Well 1-3 Influent 6/22/2016 ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,1,2-Trichloroethane	1	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethane	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethene	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2,4-Trimethylbenzene	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	2.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
2-Butanone (MEK)	50	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA
2-Hexanone	50*	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA
Acetone	50*	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA
Benzene	1	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Bromodichloromethane	50	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Bromoform	50*	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Bromomethane	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Carbon disulfide		1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Carbon tetrachloride	5	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chlorobenzene	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chloroethane	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chloroform	7	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Chloromethane		1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Cyclohexane		1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Dibromochloromethane	50	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Ethylbenzene	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Isopropylbenzene (Cumene)	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Methyl Acetate		2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U	NA	10 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA
Methyl Cyclohexane		1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Methylene Chloride	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Styrene	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Tetrachloroethene	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Toluene	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Trichloroethene	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Trichlorofluoromethane	5	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Vinyl chloride	2	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Xylenes, Total		2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
ug/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

Table 5 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard ug/L	Well 1-3 Influent 7/20/2016 ug/L	Well 1-3 Influent 7/28/2016 ug/L	Well 1-3 Influent 8/16/2016 ug/L	Well 1-3 Influent 8/18/2016 ug/L	Well 1-3 Influent 9/6/2016 ug/L	Well 1-3 Influent 9/15/2016 ug/L	Well 1-3 Influent 10/18/2016 ug/L	Well 1-3 Influent 10/31/2016 ug/L	Well 1-3 Influent 11/8/2016 ug/L	Well 1-3 Influent 11/28/2016 ug/L	Well 1-3 Influent 12/16/2016 ug/L	Well 1-3 Influent 12/29/2016 ug/L	Well 1-3 Influent 1/13/2017 ug/L	Well 1-3 Influent 1/31/2017 ug/L	Well 1-3 Influent 2/7/2017 ug/L	Well 1-3 Influent 2/27/2017 ug/L	Well 1-3 Influent 3/7/2017 ug/L	Well 1-3 Influent 3/23/2017 ug/L	Well 1-3 Influent 4/4/2017 ug/L	Well 1-3 Influent 4/26/2017 ug/L	Well 1-3 Influent 5/19/2017 ug/L	Well 1-3 Influent 5/24/2017 ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,4-Trimethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
2-Butanone (MEK)	50	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Acetone	50*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromoform	50*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U*	NA	1.0 U*
Bromomethane	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon disulfide		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroform	7	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U*	NA	1.0 U	NA	1.0 U	NA	1.0 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dibromochloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U*	NA	1.0 U*
Dichlorodifluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Isopropylbenzene (Cumene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Acetate		NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U
Methyl Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U*	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
ug/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

Table 5 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard ug/L	Well 1-3 Influent 6/20/2017 ug/L	Well 1-3 Influent 6/21/2017 ug/L	Well 1-3 Influent 7/19/2017 ug/L	Well 1-3 Influent 7/31/2017 ug/L	Well 1-3 Influent 8/18/2017 ug/L	Well 1-3 Influent 8/28/2017 ug/L	Well 1-3 Influent 9/15/2017 ug/L	Well 1-3 Influent 9/20/2017 ug/L	Well 1-3 Influent 10/3/2017 ug/L	Well 1-3 Influent 10/23/2017 ug/L	Well 1-3 Influent 11/10/2017 ug/L	Well 1-3 Influent 11/28/2017 ug/L	Well 1-3 Influent 12/27/2017 ug/L	Well 1-3 Influent 12/28/2017 ug/L	Well 1-3 Influent 1/15/2018 ug/L	Well 1-3 Influent 1/29/2018 ug/L	Well 1-3 Influent 2/20/2018 ug/L	Well 1-3 Influent 2/26/2018 ug/L	Well 1-3 Influent 3/12/2018 ug/L	Well 1-3 Influent 3/30/2018 ug/L	Well 1-3 Influent 4/6/2018 ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,4-Trimethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
2-Butanone (MEK)	50	NA	1.0 U	NA	1.0 U*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
2-Hexanone	50*	NA	5.0 U	NA	5.0 U*	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA
Acetone	50*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	3.3 J	NA	1.9 J	NA	1.0 U	NA	3.4 J	NA	1.0 U	NA	1.0 U	NA
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromodichloromethane	50	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Bromoform	50*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Bromomethane	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Carbon disulfide		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroform	7	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Chloromethane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	NA	1.0 U*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dichlorodifluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Isopropylbenzene (Cumene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Acetate		NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA
Methyl Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichlorofluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	3.3	0	1.9	0	0	0	3.4	0	0	0	0	0

Notes
NYSDEC GA GW Standard - New York State Department
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 - Concentration exceeds NYSDEC Class GA Standard
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U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
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Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-3 Influent 4/24/2018 ug/L	Well 1-3 Influent 5/21/2018 ug/L	Well 1-3 Influent 5/7/2018 ug/L	Well 1-3 (post) Influent 5/7/2018 ug/L
Sampling Date	Standard	Influent	Influent	Influent	Influent
Units	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.29 J	0.5 U	0.26 J	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	1.0 UT	1.0 UT
1,1,2-Trichloroethane	1	1.0 U	0.5 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	0.5 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	NA	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	10 U	NA	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	1.0 U
2-Butanone (MEK)	50	50 U	NA	50 U	50 U
2-Hexanone	50*	10 U	NA	10 U	10 U
4-Methyl-2-pentanone (MIBK)		10 U	NA	10 U	10 U
Acetone	50*	25 U	NA	25 U	25 U
Benzene	1	1.0 U	0.5 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	NA	1.0 U	1.0 U
Bromoform	50*	1.0 U	NA	1.0 U	1.0 U
Bromomethane	5	1.0 U	NA	1.0 U	1.0 U
Carbon disulfide		1.0 U	NA	1.0 UT	1.0 UT
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	0.5 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	0.5 U	1.0 U	1.0 U
Chloroform	7	1.0 U	NA	1.0 U	1.0 U
Chloromethane		1.0 U	NA	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	1.0 U
Cyclohexane		5.0 U	NA	5.0 UT	5.0 UT
Dibromochloromethane	50	1.0 U	NA	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	0.5 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	0.5 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	0.5 U	1.0 U	1.0 U
Methyl Acetate		10 U	NA	10 U	10 U
Methyl Cyclohexane		5.0 U	NA	5.0 UT	5.0 UT
Methylene Chloride	5	5.0 U	0.5 U	5.0 UT	5.0 UT
Methyl Tert Butyl Ether	10	1.0 U	0.5 U	1.0 U	1.0 U
Styrene	5	1.0 U	0.5 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	0.5 U	1.0 U	1.0 U
Toluene	5	1.0 U	0.5 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	0.5 U	1.0 UT	1.0 UT
Trichlorofluoromethane	5	1.0 U	0.5 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	0.5 U	1.0 U	1.0 U
Xylenes, Total		3.0 U	0.5 U	3.0 U	3.0 U
Total VOCs		0.29	0	0.26	0

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
ug/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled