

Table 1
Product Bailing Events: 2019 Release
Woodland Food & Fuel
Woodland, PA
MRLLC Project No. 4923.18.01

Well Name Well Type Date Installed	Date Measured	Static Water Level (ft)	Product Level (ft)	Casing Elevation (ft)	Product Thickness (ft)	Total Depth	Gallons of Product/well water Removed	Comments
RW-1	3/28/2019	10.16	7.41	NS	2.75	14.50	3.78	Product
	4/1/2019	8.55	7.76	NS	0.79	14.50	1.66	Product
	4/8/2019	9.66	7.40	NS	2.26	14.50	4.29	Product
	4/12/2019	10.55	8.05	NS	2.50	14.50	8.01	Product Thickness measured from product bailer
	5/10/2019	8.35	7.85	NS	0.50	14.50	1.79	
	6/3/2019	9.62	7.62	NS	2.00	14.50	0.00	Gauged during quarterly sampling
RW-2	3/28/2019	11.25	8.14	NS	3.11	14.00	4.20	Clear product, strong odor
	4/1/2019	10.87	8.58	NS	2.29	14.00	3.98	Clear product, strong odor
	4/8/2019	13.02	10.73	NS	2.29	14.00	4.73	Clear product, strong odor
	4/12/2019	9.95	8.95	NS	1.00	14.00	6.12	Product Thickness measured from product bailer
	5/10/2019	8.35	8.31	NS	0.04	14.00	0.00	
	6/3/2019	8.27	7.60	NS	0.67	14.00	0.00	Gauged during quarterly sampling
MW-2	3/28/2019	34.65	No Product	99.04	-	36.00	0.00	
	4/1/2019	33.57	No Product	99.04	-	36.00	0.00	
	4/8/2019	33.24	No Product	99.04	-	36.00	0.00	
	4/12/2019	NM	No Product	99.04	-	36.00	0.00	
	5/10/2019	NM	No Product	99.04	-	36.00	0.00	
	6/3/2019	NM	No Product	99.04	-	36.00	0.00	Gauged during quarterly sampling
MW-2BR	3/28/2019	61.50	No Product	98.09	-	62.70	0.00	
	4/1/2019	61.30	No Product	98.09	-	62.70	0.00	
	4/8/2019	61.20	No Product	98.09	-	62.70	0.00	
	4/12/2019	NM	No Product	98.09	-	62.70	0.00	
	5/10/2019	NM	No Product	98.09	-	62.70	0.00	
	6/3/2019	NM	No Product	98.09	-	62.70	0.00	Gauged during quarterly sampling
MW-3	3/28/2019	29.30	29.225	97.92	0.07	30.00	0.01	
	4/1/2019	29.80	29.77	97.92	0.03	30.00	0.01	
	4/8/2019	29.79	29.50	97.92	0.29	30.00	0.18	
	4/12/2019	NM	NM	97.92	0.05	30.00	0.00	Product Thickness measured from product bailer
	5/10/2019	NM	NM	97.92	0.25	30.00	0.25	
	6/3/2019	28.33	28.16	97.92	0.17	30.00	0.00	Gauged during quarterly sampling
MW-4	3/28/2019	22.66	No Product	98.75	-	25.50	0.00	
	4/1/2019	21.54	No Product	98.75	-	25.50	0.00	
	4/8/2019	23.20	No Product	98.75	-	25.50	0.00	
	4/12/2019	NM	No Product	98.75	-	25.50	0.00	
	5/10/2019	NM	No Product	98.75	-	25.50	0.00	
	6/3/2019	NM	No Product	98.75	-	25.50	0.00	Gauged during quarterly sampling

*Total gallons is recorded as a mixture of product and water

Total Gallons of removed from all wells* = 39.00

NA = Not Applicable
NM = Not Measured
NS = Not Surveyed

Prepared By: _____ IPN 6/20/2019

Checked By: _____



TABLE 2
GROUNDWATER ELEVATION SUMMARY
WOODLAND FOOD AND FUEL
WOODLAND, PA
MR Project No. 4923.18.01

Well ID	Date Measured	Well Construction Total Depth	Static Water Level (ft)	Casing Elevation (ft)	Ground Water Elevation (ft)	Comments
MW-1	3/23/2018	24.0	18.50	99.34	80.84	
	4/4/2018		16.60	99.34	82.74	
	9/10/2018		17.93	99.34	81.41	
	12/6/2018		17.45	99.34	81.89	
	12/13/2018		17.78	99.34	81.56	
	3/25/2019		16.49	99.34	82.85	
	6/3/2019		16.22	99.34	83.12	
MW-2	3/23/2018	36.0	30.09	99.04	68.95	
	4/4/2018		33.50	99.04	65.54	
	9/10/2018		29.65	99.04	69.39	
	12/6/2018		30.41	99.04	68.63	
	12/13/2018		34.21	99.04	64.83	
	3/25/2019		33.59	99.04	65.45	
	6/3/2019		33.43	99.04	65.61	
MW-3	3/23/2018	30.0	28.90	97.92	69.02	Odor Product - no sample. Product
	4/4/2018		25.60	97.92	72.32	
	9/10/2018		25.25	97.92	72.67	
	11/27/2018		25.50	97.92	72.42	
	12/13/2018		28.96	97.92	68.96	
	3/25/2019		28.23	97.92	69.69	
	6/3/2019		28.16	97.92	69.76	
MW-4	3/23/2018	25.5	22.65	98.75	76.10	
	4/4/2018		21.00	98.75	77.75	
	9/10/2018		19.20	98.75	79.55	
	11/27/2018		DRY	98.75	DRY	
	12/6/2018		22.10	98.75	76.65	
	12/13/2018		22.00	98.75	76.75	
	3/25/2019		22.50	98.75	76.25	
MW-5	6/3/2019	40.0	23.43	98.75	75.32	
	9/10/2018		32.52	82.00	49.48	
	12/6/2018		31.21	82.00	50.79	
	12/13/2018		31.59	82.00	50.41	
	3/25/2019		31.50	82.00	50.50	
MW-6	6/3/2019	40.0	30.87	82.00	51.13	
	9/10/2018		31.30	78.64	47.34	
	12/6/2018		31.00	78.64	47.64	
	12/13/2018		31.13	78.64	47.51	
	3/25/2019		31.20	78.64	47.44	
MW-7	6/3/2019	11.7	31.87	78.64	46.77	
	11/13/2018		7.10	98.51	91.41	
	11/27/2018		7.10	98.51	91.41	
	12/13/2018		9.83	98.51	88.68	
	3/25/2019		8.74	98.51	89.77	
MW-8	6/3/2019	19.0	6.59	98.51	91.92	
	11/13/2018		14.82	97.24	82.42	
	11/27/2018		13.20	97.24	84.04	
	12/13/2018		15.57	97.24	81.67	
	3/25/2019		15.53	97.24	81.71	
MW-9	6/3/2019	20.5	15.25	97.24	81.99	
	11/13/2018		17.81	95.88	78.07	
	11/27/2018		15.90	95.88	79.98	
	12/13/2018		16.91	95.88	78.97	
	3/25/2019		17.84	95.88	78.04	
MW-1BR	6/3/2019	58.5	18.12	95.88	77.76	
	11/13/2018		53.45	100.07	46.62	
	11/27/2018		50.80	100.07	49.27	
	12/13/2018		37.50	100.07	62.57	
	3/25/2019		52.21	100.07	47.86	
MW-2BR	6/3/2019	62.7	53.86	100.07	46.21	
	11/13/2018		DRY	98.09	DRY	
	11/27/2018		62.60	98.09	35.49	
	12/13/2018		59.72	98.09	38.37	
	3/25/2019		62.18	98.09	35.91	
MW-3BR	6/3/2019	20.0	61.05	98.09	37.04	Grab
	11/13/2018		11.55	98.39	86.84	
	11/27/2018		9.80	98.39	88.59	
	12/13/2018		12.72	98.39	85.67	
	3/25/2019		12.66	98.39	85.73	
MW-4BR	6/3/2019	70.5	12.24	98.39	86.15	Sheen
	11/13/2018		48.88	96.97	48.09	
	11/27/2018		48.47	96.97	48.50	
	12/13/2018		48.21	96.97	48.76	
	3/25/2019		48.14	96.97	48.83	
MW-5BR	6/3/2019	79.5	48.69	96.97	48.28	
	11/13/2018		75.50	95.99	20.49	
	11/27/2018		75.00	95.99	20.99	
	12/13/2018		74.38	95.99	21.61	
	3/25/2019		75.46	95.99	20.53	
RW-1	6/3/2019		66.67	95.99	29.32	Grab
RW-1	3/26/2019					24 inches of product - smells fresh
RW-2	3/26/2019					24 inches of product - smells fresh

Prepared By: LML 6/13/2019
Checked By: JPN 6/20/2019



Table 3
Vacuum Event Data Summary: 2019 Release
Woodland Food & Fuel
Woodland, PA
MRLLC Project No. 4923.18.01

Date	RW-1 DTL (ft)	RW-1 SPL (in)	RW-2 DTL (ft)	RW-2 SPL (in)	RW-1 PID* Reading (ppm)	RW-2 PID* Reading (ppm)	RW-1 Vacuum ("Hg)	RW-1 Vacuum Time (hr)	RW-2 Vacuum ("Hg)	RW-2 Vacuum Time (hr)	Volume Recovered** (gal)	Volume of Product Recovered***	Comments:
4/23/2019	7.25	30	8.00	6.00	1267	671.5	23.5	3	23.5	3	187	140	Volume of product recovered includes the volume from product bailing
6/19/2019	10.8	30	9.0	21	15000	15000	23	3	24	3	257	135	Volume of product recovered includes the volume from product bailing

*PID readings are average readings during vacuum

**Volume is recorded as a water-product mixture

***Approximate estimation of product

DTL = Depth to Liquid

NM = Not Measured

NV = No Vacuum Applied

WS = Well sock placed in well

S = Sheen Visible but no measureable product

Total Volume Removed =	444	275 gal
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Updated: JPN 6/20/2019

TABLE 5
AQUEOUS SAMPLE ANALYTICAL SUMMARY

WOODLAND FOOD AND FUEL, INC.
WOODLAND, PA

MR Project No. 4923.18.01

		PADEP Residential Used Aquifer Groundwater Medium Specific Concentration (MSC)									
		15	420	5	700	840	20	100	1,000	10,000	
Residential Vapor Screening Value (SV _{res})		340	250	120	700	8,000	32,000	440	140,000	10,000	
Well ID	Sample Date	Sample Parameter									
		1,2,4-TMB	1,3,5-TMB	Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	Total Xylenes	
MW-1	3/23/2018	133	37.9	76.2	77.5	<20.0	<20.0	20.4	563	487	
	4/4/2018	174	44.7	<20.0	34.8	<20.0	<20.0	99.4	63.4	244	
	9/10/2018	<2.00	<2.00	<2.00	<2.00	<2.00	3.59	<2.00	<2.00	<6.00	
	12/6/2018	<2.00	<2.00	<2.00	<2.00	<2.00	2.71	<2.00	<2.00	<6.00	
	3/25/2019	<2.00	<2.00	<2.00	<2.00	<2.00	6.57	<2.00	<2.00	<6.00	
MW-2	6/3/2019	<2.00	<2.00	<2.00	<2.00	<2.00	3.86	<2.00	<2.00	<6.00	
	3/23/2018	<2.00	<2.00	<2.00	<2.00	<2.00	3.51	<2.00	3.57	<6.00	
	4/4/2018	49.4	22.3	8.67	25.5	2.59	80.6	4.94	20.1	72.7	
	9/10/2018	9.25	2.87	<2.00	6.40	<2.00	4.55	<2.00	<2.00	6.48	
	12/6/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-3	3/25/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	6/3/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	3/23/2018	<2.00	<2.00	9.18	<2.00	<2.00	11.7	<2.00	28.0	<6.00	
	4/4/2018	3,000	2,260	3,750	4,620	886	34.7	1,560	47,200	26,500	
	9/10/2018	1,520	357	2,060	2,240	<200	<200	338	15,700	13,500	
MW-4	11/27/2018	2,530	637	3,470	2,430	222	<200	573	17,200	15,600	
	3/25/2019	Not Sampled Due To Presence of SPL									
	3/23/2018	<2.00	<2.00	2.89	<2.00	<2.00	4.70	<2.00	7.51	<6.00	
	4/4/2018	680	1,410	626	283	77.2	38.5	43.9	2,800	2,330	
	9/10/2018	79.3	23.0	247	85.4	<10.0	44.2	<10.0	1,060	593	
MW-5	12/6/2018	29.4	9.18	11.4	21.3	3.02	55.1	<2.00	6.86	134	
	3/25/2019	17.0	4.11	2.04	3.27	<2.00	27.8	<2.00	3.80	12.6	
	6/3/2019	425	94.0	72.5	45.1	31.3	16.3	48.2	13.1	185	
	8/27/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	9/10/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-6	12/6/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	3/25/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	6/3/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	8/27/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	9/10/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-7	12/6/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	3/25/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	6/3/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	11/13/2018	17.1	23.0	2.98	4.12	<2.00	<2.00	<2.00	25.5	62.4	
	11/27/2018	69.2	52.2	6.62	18.1	2.45	<2.00	4.67	183	471	
MW-8	3/25/2019	43.2	11.2	<2.00	3.83	<2.00	<2.00	6.20	4.32	33.1	
	6/3/2019	16.5	6.40	5.53	3.12	<2.00	<2.00	<2.00	<2.00	6.35	
	11/13/2018	<2.00	<2.00	3.34	<2.00	<2.00	20.0	<2.00	<2.00	<6.00	
	11/27/2018	<2.00	<2.00	23.6	<2.00	<2.00	11.8	<2.00	<2.00	<6.00	
	3/27/2019	<2.00	<2.00	52.2	2.97	<2.00	10.4	<2.00	<2.00	<6.00	
MW-9	6/3/2019	<2.00	<2.00	54.4	<2.00	<2.00	13.0	<2.00	<2.00	<6.00	
	11/13/2018	<2.00	<2.00	8.92	<2.00	<2.00	49.1	<2.00	5.67	10.0	
	11/27/2018	24.6	6.76	130	60.9	3.83	22.3	<2.00	281	271	
	3/25/2019	<2.00	4.00	288	62.3	5.37	37.1	<2.00	3.96	6.78	
	6/3/2019	<2.00	<2.00	325	26.3	3.96	34.8	<2.00	4.49	<6.00	
MW-1BR	11/13/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	11/27/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	3/25/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	6/3/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	3/25/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-2BR	6/3/2019	2130	510	68.9	752	139	<2.00	298	92.5	3090	
	11/13/2018	1,530	388	1,600	2,190	<200	<200	248	15,100	11,300	
	11/27/2018	346	144	88.2	166	37.6	<20.0	31.2	588	975	
	3/25/2019	2,370	554	4,770	2,470	230	<50.0	334	44,700	14,600	
	6/3/2019	3100	706	1210	2,500	253	<100	398	7160	11,200	
MW-4BR	11/13/2018	266	63.8	748	333	16.2	<10.00	44.7	3,140	2,450	
	11/27/2018	<200	<200	478	363	<200	<200	<200	4,470	2,180	
	3/25/2019	140	34.3	327	239	14.0	<10.0	21.2	1,270	1,180	
	6/3/2019	266	64.9	650	473	28.7	<10.0	39.1	2,590	2,300	
	11/13/2018	5.64	<2.00	<2.00	2.96	<2.00	3.05	<2.00	14.4	19.1	
MW-5BR	11/27/2018	3.62	<2.00	5.53	3.16	<2.00	6.83	<2.00	39.8	36.1	
	3/25/2019	<2.00	<2.00	3.01	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	6/3/2019	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	11/13/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	11/27/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	

Bold = Detected

Shaded = Exceeds PADEP MSC

Red = Detection Limit Exceeds PADEP MSC

TMB = Trimethylbenzene

----- = Vapor Intrusion Screening Exceedance

Prepared By: MPL 6/18/19

Checked By: JPN 6/20/2019