



### Monitoring Well Development Log

WELL NUMBER	WELL INFORMATION					Date: 7/12/16 - 7/13/16
K TZ-MW-1 PERMIT NUMBER	Well Diameter (inches)	Total Depth <sup>(1)</sup> (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Personnel: Nathaniel Peterson
	N/A	2	12.5	6.2	N/A	0
						Job Number: 240658.0000.0000

<sup>(1)</sup> Use a previously determined total depth. Confirm the total depth of well after developing.  
TOC = top of casing

PURGING INFORMATION							WATER QUALITY METER CALIBRATION READINGS		
Pump Type	Tubing Type	Pump Intake Depth <sup>(2)</sup> (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/min)	Total Purge Vol. (US Gal)	Temp:	pH: 7.0	Cond: 1.413
							D.O.: 99.8%	ORP: 120.0	Turbidity: 0.0
Whale	LDPE	12	7/12/2016 11:08	7/13/2016 14:05	500	5	Rental Meter Name: YSI		
							Rental Meter Serial No.:		

<sup>(2)</sup> Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)														
Time	Criteria: Flow Rate (ml/min)	<0.3 ft Depth to Water (ft)	± 3% Temp (°C)		± 0.1 su pH (su)		± 3% Cond (mS/cm)		± 10% D.O. (mg/L)		± 10 mv ORP (mv)	± 10% <sup>(3)</sup> Turbidity (NTU)	Initials	Water Conditions/Comments
7/12/2016														
11:08	500	6.2	11.52	8.09	2.11	94	349	1000	NP					
11:16	500		12.49	7.22	1.858	89	300	1000	NP					
11:27	500		11.8	7.18	1.85	82	321	1000	NP					
11:36	500		12.9	7.15	1.617	99	330	1000	NP					
7/13/2016														
9:40	500	6.4	10.94	5.83	1.508	9.67	297.1	1000	NP	Brown coloration				
8:48	500		10.98	6.08	1.383	10.26	292	1000	NP					
9:15	500	10.21	11.19	6.58	1.448	11.04	288	1265	NP					
9:47	500	10	11.05	7.29	1.431	10.11	284	1258	NP					
14:05	500	7.6	11.36	6.75	1.205	9.78	368	800	NP	Well ran dry.				

**Weather Conditions:**

<sup>(3)</sup> For values greater than 10.

**Note:** Indicator parameters have stabilized when 3 consecutive readings taken every 5 min are within criteria listed above.



### Monitoring Well Development Log

<b>WELL NUMBER</b>	<b>WELL INFORMATION</b>					Date: 7/12/16
KTZ-MW-2	Well Diameter (inches)	Total Depth <sup>(1)</sup> (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Personnel: Nathaniel Peterson
PERMIT NUMBER						Site Name: NYSDEC Katzman Recycling
N/A	2	17.55	11.5	N/A	0	Site Location: Granville, New York
						Job Number: 240658.0000.0000

<sup>(1)</sup> Use a previously determined total depth. Confirm the total depth of well after developing.  
TOC = top of casing

<b>PURGING INFORMATION</b>							<b>WATER QUALITY METER CALIBRATION READINGS</b>		
Pump Type	Tubing Type	Pump Intake Depth <sup>(2)</sup> (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/min)	Total Purge Vol. (US Gal)	Temp:	pH: 7.0	Cond: 1.413
							D.O.: 99.8%	ORP: 120.0	Turbidity: 0.0
Whale	LDPE	17.5	11:55	12:15	500	2.6	Rental Meter Name: YSI		
							Rental Meter Serial No.:		

<sup>(2)</sup> Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)											
Time	Criteria: Flow Rate (ml/min)	<0.3 ft Depth to Water (ft)	± 3%	± 0.1 su	± 3%	± 10%	± 10 mv	± 10% <sup>(3)</sup>	Initials	Water Conditions/Comments	
			Temp (°C)	pH (su)	Cond (mS/cm)	D.O. (mg/L)	ORP (mv)	Turbidity (NTU)			
11:55	500		9.93	6.8	0.564	10.5	382.3	45	NP		
12:09	500		10.02	6.73	0.569	11.26	402	40	NP		
12:15	500		10.21	6.63	0.575	10.27	405	46	NP	Turbidity < 50 NTU. Done developing.	

Weather Conditions:

<sup>(3)</sup> For values greater than 10.  
Note: Indicator parameters have stabilized when 3 consecutive readings taken every 5 min are within criteria listed above.



### Monitoring Well Development Log

<b>WELL NUMBER</b>	<b>WELL INFORMATION</b>					<b>Date:</b> 7/12/16 - 7/13/16
KTZ-MW-3	<b>Well Diameter (inches)</b>	<b>Total Depth<sup>(1)</sup> (ft)</b>	<b>Depth to Water TOC (ft)</b>	<b>Depth to Product TOC (ft)</b>	<b>PID (ppm)</b>	<b>Personnel:</b> Nathaniel Peterson
<b>PERMIT NUMBER</b>						<b>Site Name:</b> NYSDEC Katzman Recycling
N/A	2	17.6	15.35	N/A	0	<b>Site Location:</b> Granville, New York
						<b>Job Number:</b> 240658.0000.0000

<sup>(1)</sup> Use a previously determined total depth. Confirm the total depth of well after developing.

TOC = top of casing

<b>PURGING INFORMATION</b>							<b>WATER QUALITY METER CALIBRATION READINGS</b>		
<b>Pump Type</b>	<b>Tubing Type</b>	<b>Pump Intake Depth<sup>(2)</sup> (ft)</b>	<b>Purge Start Time</b>	<b>Purge Stop Time</b>	<b>Flow Rate (ml/min)</b>	<b>Total Purge Vol. (US Gal)</b>	<b>Temp:</b>	<b>pH:</b> 7.0	<b>Cond:</b> 1.413
							<b>D.O.:</b> 99.8%	<b>ORP:</b> 120.0	<b>Turbidity:</b> 0.0
							<b>Rental Meter Name:</b> YSI		
Whale	LDPE	17.5	7/12/2016 12:31	7/13/2016 10:52	500	4.5	<b>Rental Meter Serial No.:</b>		

<sup>(2)</sup> Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)											
Criteria:		<0.3 ft	± 3%	± 0.1 su	± 3%	± 10%	± 10 mv	± 10% <sup>(3)</sup>	Initials	Water Conditions/Comments	
Time	Flow Rate (ml/min)	Depth to Water (ft)	Temp (°C)	pH (su)	Cond (mS/cm)	D.O. (mg/L)	ORP (mv)	Turbidity (NTU)			
7/12/2016											
12:31	500		10.53	6.02	2.62	105.3	269	403	NP		
12:46	500		11.29	6.57	1.975	13.63	415	231	NP		
13:05	500		12.2	6.98	1.772	13.99	409	207	NP		
7/13/2016											
10:12	500	15.3	11.06	6.81	1.895	12.75	263	422	NP		
10:52	500	16.5	13.95	7.14	1.813	12.5	296	328	NP	Well ran dry	
										>6x well volume pumped.	

**Weather Conditions:**

<sup>(3)</sup> For values greater than 10.

**Note:** Indicator parameters have stabilized when 3 consecutive readings taken every 5 min are within criteria listed above.



### Monitoring Well Development Log

WELL NUMBER	WELL INFORMATION					Date: 7/12/16
PERMIT NUMBER	Well Diameter (inches)	Total Depth <sup>(1)</sup> (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Personnel: Nathaniel Peterson
	KTZ-MW-4	2	17.68	15.77	N/A	0
N/A						Site Location: Granville, New York
						Job Number: 240658.0000.0000

<sup>(1)</sup> Use a previously determined total depth. Confirm the total depth of well after developing.  
 TOC = top of casing

PURGING INFORMATION						WATER QUALITY METER CALIBRATION READINGS			
Pump Type	Tubing Type	Pump Intake Depth <sup>(2)</sup> (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/min)	Total Purge Vol. (US Gal)	Temp:	pH: 7.0	Cond: 1.413
Whale	LDPE	17.5	10:44	14:35	500	2.5	D.O.: 99.8%	ORP: 120.0	Turbidity: 0.0
							Rental Meter Name: YSI		
							Rental Meter Serial No.:		

<sup>(2)</sup> Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)											
Time	Criteria:	Flow Rate (ml/min)	Depth to Water (ft)	Temp (°C)	pH (su)	Cond (mS/cm)	D.O. (mg/L)	ORP (mv)	Turbidity (NTU)	Initials	Water Conditions/Comments
10:44	<0.3 ft	500	15.77	± 3%	± 3%	± 3%	± 10%	± 10 mv	± 10% <sup>(3)</sup>	NP	Well dry.
14:25	± 3%	500	15.76	11.74	7.26	0.767	8.11	387	90	NP	
14:30	± 0.1 su	500		12.53	7.08	0.727	8.63	392	97	NP	
14:35	± 3%	500		12.87	7	0.728	8.71	396	101	NP	
14:40	± 10%	500				0.743	8.5	395.5	72	NP	Well ran dry.

Weather Conditions:

<sup>(3)</sup> For values greater than 10.  
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## Monitoring Well Development Log

WELL NUMBER	WELL INFORMATION					Date: 7/13/16
KTZ-MW-6	Well Diameter (inches)	Total Depth <sup>(1)</sup> (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Personnel: Nathaniel Peterson
						Site Name: NYSDEC Katzman Recycling
PERMIT NUMBER						Site Location: Granville, New York
N/A	2	18.1	4.27	N/A	0	Job Number: 240658.0000.0000

<sup>(1)</sup> Use a previously determined total depth. Confirm the total depth of well after developing.  
TOC = top of casing

PURGING INFORMATION							WATER QUALITY METER CALIBRATION READINGS		
Pump Type	Tubing Type	Pump Intake Depth <sup>(2)</sup> (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/min)	Total Purge Vol. (US Gal)	Temp:	pH: 7.0	Cond: 1.413
							D.O.: 99.8%	ORP: 120.0	Turbidity: 0.0
							Rental Meter Name: YSI		
Whale	LDPE	18	12:12	12:47	500	4.5	Rental Meter Serial No.:		

<sup>(2)</sup> Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)										
Criteria:		<0.3 ft	± 3%	± 0.1 su	± 3%	± 10%	± 10 mv	± 10% <sup>(3)</sup>		
Time	Flow Rate (ml/min)	Depth to Water (ft)	Temp (°C)	pH (su)	Cond (mS/cm)	D.O. (mg/L)	ORP (mv)	Turbidity (NTU)	Initials	Water Conditions/Comments
12:12	500	4.27	9.35	5.66	0.8	10.52	217	100	NP	
12:15	500		13.33	5.74	0.741	10.68	255	120	NP	
12:18	500		9.08	5.36	1.016	10.83	298	77	NP	
12:21	500		9.55	5.64	0.714	10.51	310	25	NP	
12:36	500	15.42	11.42	6.36	0.401	11.25	319	50	NP	
12:42	500		11.46	6.4	0.406	11.08	308	28	NP	
12:47	500		11.58	6.58	0.421	11.33	329	13.8	NP	

Weather Conditions:

<sup>(3)</sup> For values greater than 10.  
Note: Indicator parameters have stabilized when 3 consecutive readings taken every 5 min are within criteria listed above.



## Monitoring Well Development Log

<b>WELL NUMBER</b>	<b>WELL INFORMATION</b>					Date: 7/13/16
KTZ-MW-7	Well Diameter (inches)	Total Depth <sup>(1)</sup> (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Personnel: Nathaniel Peterson
<b>PERMIT NUMBER</b>						Site Name: NYSDEC Katzman Recycling
N/A	2	17.7	6.2	N/A	0	Site Location: Granville, New York
						Job Number: 240658.0000.0000

<sup>(1)</sup> Use a previously determined total depth. Confirm the total depth of well after developing.  
 TOC = top of casing

<b>PURGING INFORMATION</b>							<b>WATER QUALITY METER CALIBRATION READINGS</b>		
<b>Pump Type</b>	<b>Tubing Type</b>	<b>Pump Intake Depth<sup>(2)</sup> (ft)</b>	<b>Purge Start Time</b>	<b>Purge Stop Time</b>	<b>Flow Rate (ml/min)</b>	<b>Total Purge Vol. (US Gal)</b>	<b>Temp:</b>	<b>pH:</b> 7.0	<b>Cond:</b> 1.413
							<b>D.O.:</b> 99.8%	<b>ORP:</b> 120.0	<b>Turbidity:</b> 0.0
Whale	LDPE	17.5	12:55	13:15	500	2.5	Rental Meter Name: YSI		
							Rental Meter Serial No.:		

<sup>(2)</sup> Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)											
Criteria:		<0.3 ft	± 3%	± 0.1 su	± 3%	± 10%	± 10 mv	± 10% <sup>(3)</sup>			
Time	Flow Rate (ml/min)	Depth to Water (ft)	Temp (°C)	pH (su)	Cond (mS/cm)	D.O. (mg/L)	ORP (mv)	Turbidity (NTU)	Initials	Water Conditions/Comments	
12:55	500	6.2	10.05	6.71	0.381	13.37	329	44	NP		
15:58	500		9.54	6.22	0.369	13.93	353	32	NP		
13:01	500		10.12	6.23	0.328	13.95	369	27	NP		
13:04	500		10.22	6.3	0.324	14.33	372	39	NP		
13:07	500		10.29	6.39	0.331	14.4	376	23	NP		
13:15	500	17.1	10.33	6.43	0.341	14.45	382	33	NP		

Weather Conditions:

<sup>(3)</sup> For values greater than 10.  
 Note: Indicator parameters have stabilized when 3 consecutive readings taken every 5 min are within criteria listed above.



**Monitoring Well Development Log**

<b>WELL NUMBER</b>	<b>WELL INFORMATION</b>					Date: 7/13/16
KTZ-MW-8	Well Diameter (inches)	Total Depth <sup>(1)</sup> (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Personnel: Nathaniel Peterson
<b>PERMIT NUMBER</b>						Site Name: NYSDEC Katzman Recycling
N/A	2	6.15	3.95	N/A	0	Site Location: Granville, New York
						Job Number: 240658.0000.0000

<sup>(1)</sup> Use a previously determined total depth. Confirm the total depth of well after developing.  
TOC = top of casing

<b>PURGING INFORMATION</b>						<b>WATER QUALITY METER CALIBRATION READINGS</b>			
Pump Type	Tubing Type	Pump Intake Depth <sup>(2)</sup> (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/min)	Total Purge Vol. (US Gal)	Temp:	pH: 7.0	Cond: 1.413
							D.O.: 99.8%	ORP: 120.0	Turbidity: 0.0
							Rental Meter Name: YSI		
Whale	LDPE	6	11:08	11:11	500	2	Rental Meter Serial No.:		

<sup>(2)</sup> Below TOC

<b>PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)</b>										
Criteria:		<0.3 ft	± 3%	± 0.1 su	± 3%	± 10%	± 10 mv	± 10% <sup>(3)</sup>		
Time	Flow Rate (ml/min)	Depth to Water (ft)	Temp (°C)	pH (su)	Cond (mS/cm)	D.O. (mg/L)	ORP (mv)	Turbidity (NTU)	Initials	Water Conditions/Comments
11:08	500	3.95	13.67	7.37	0.186	9.76	290	238	NP	
11:11	500	Dry	18.89	6.2	0.151	10.8	262	187	NP	
										Well ran dry.

Weather Conditions:

<sup>(3)</sup> For values greater than 10.  
Note: Indicator parameters have stabilized when 3 consecutive readings taken every 5 min are within criteria listed above.