

**Appendix E**  
**Groundwater Monitoring Well Sampling Sheets**

SITE NAME: HIGHLAND PLAZA

POINT ID: MW - 1

LOCATION: TONAWANDA, NY

FIELD REPRESENTATIVE: E&GMS / ES&S

SAMPLE MATRIX: GROUNDWATER

LAB SAMPLE / PROJECT #: 48012783

**EVACUATION INFORMATION**

INITIAL WATER LEVEL (FT) 12.76

DEPTH TO BOTTOM (FT) 23.57

ELEV., MEAS. PT. (MSL): \_\_\_\_\_

ELEVATION, G/W (MSL): \_\_\_\_\_

DATE 12-22-15

TIME: START/FINISH 8:28 / 8:38

**METHOD OF EVACUATION:**

**EVACUATION EQUIPMENT DEDICATED:**

- PVC BAILER     S.S. BAILER     GRUNDFOS PUMP     YES     NO
- S.S. BAILER     QED PUMP     OTHER - PERISTALTIC PUMP

WELL RISER DIAMETER (IN.):  1     2     3     4     6

ONE (1) RISER VOLUME (GAL) 0.43

WAS WELL PURGED TO DRYNESS  YES  NO

TOTAL VOL. EVACUATED (GAL) 0.25

WATER LEVEL END PURGE (FT) 19.10

TURBIDITY OF PURGINGS: START TURBID - TAN

FINISH CLEAR - TAN TINT

**EVACUATION STABILIZATION DATA**

TIME	PURGE RATE (ml/min)	DTW (FT)	CUMULATIVE VOL (GAL)	TEMP. (F)	pH (Std.Units)	CONDUCT. (umhos/cm)	TURBIDITY (NTU)	OTHER [eh (mV)]
8:28	100	12.76	0	14.5	7.31	2500	>200	-10.2
8:33	100	16.02	0.125	15.2	7.36	2360	9.03	-12.6
8:38	100	19.10	0.25	15.3	7.38	2340	8.81	-13.7

**SAMPLING INFORMATION**

DATE / TIME 12.22-15 / 8:38

DEPTH TO GROUNDWATER (FT) 19.10

**METHOD OF SAMPLING:**

**SAMPLING EQUIPMENT DEDICATED:**

- PVC BAILER     S.S. BAILER     GRUNDFOS PUMP     YES     NO
- S.S. BAILER     QED PUMP     OTHER - PERISTALTIC PUMP

**GENERAL INFORMATION**

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY. 50°

SAMPLE CHARACTERISTICS: CLEAR - TAN TINT

COMMENTS: \_\_\_\_\_

SAMPLE COLLECTION NUMBER 1

SITE NAME: HIGHLAND PLAZA

POINT ID: MW - 2

LOCATION: TONAWANDA, NY

FIELD REPRESENTATIVE: E&GMS / ES&S

SAMPLE MATRIX: GROUNDWATER

LAB SAMPLE / PROJECT #: 48012783

**EVACUATION INFORMATION**

INITIAL WATER LEVEL (FT) 8.60

DEPTH TO BOTTOM (FT) 23.55

ELEV., MEAS. PT. (MSL): \_\_\_\_\_

ELEVATION, GW (MSL): \_\_\_\_\_

DATE 12-22-15

TIME: START/FINISH 8:58 / 9:08

**METHOD OF EVACUATION:**

**EVACUATION EQUIPMENT DEDICATED:**

- PVC BAILER     S.S. BAILER     GRUNDFOS PUMP     YES     NO
- S.S. BAILER     QED PUMP     OTHER - PERISTALTIC PUMP

WELL RISER DIAMETER (IN.):  1     2     3     4     6

ONE (1) RISER VOLUME (GAL) 0.60

WAS WELL PURGED TO DRYNESS  YES  NO

TOTAL VOL. EVACUATED (GAL) 0.25

WATER LEVEL END PURGE (FT) 15.09

TURBIDITY OF PURGINGS: START TURBID - TAN

FINISH SL. TURBID - TAN

**EVACUATION STABILIZATION DATA**

TIME	PURGE RATE (ml/min)	DTW (FT)	CUMULATIVE VOL (GAL)	TEMP. (F)	pH (Std.Units)	CONDUCT. (umhos/cm)	TURBIDITY (NTU)	OTHER [eh (mV)]
8:58	100	8.60	0	14.8	7.54	1359	7200	-23.0
9:03	100	12.70	0.125	15.1	7.46	1390	162.00	-18.5
9:08	100	15.09	0.25	15.1	7.45	1396	138.00	-18.0

**SAMPLING INFORMATION**

DATE / TIME 12-22-15 / 9:08 + 9:09

DEPTH TO GROUNDWATER (FT) 15.09

**METHOD OF SAMPLING:**

**SAMPLING EQUIPMENT DEDICATED:**

- PVC BAILER     S.S. BAILER     GRUNDFOS PUMP     YES     NO
- S.S. BAILER     QED PUMP     OTHER - PERISTALTIC PUMP

**GENERAL INFORMATION**

WEATHER CONDITIONS AT TIME OF SAMPLING: cloudy, 50°F

SAMPLE CHARACTERISTICS: SL. TURBID - TAN

COMMENTS: DUP TAKEN (#3 @ 9:09)

SAMPLE COLLECTION NUMBER 2+3

SITE NAME: HIGHLAND PLAZA

POINT ID: MW - 3

LOCATION: TONAWANDA, NY

FIELD REPRESENTATIVE: E&GMS / ES&S

SAMPLE MATRIX: GROUNDWATER

LAB SAMPLE / PROJECT #: 48012783

**EVACUATION INFORMATION**

INITIAL WATER LEVEL (FT) 11.05

DEPTH TO BOTTOM (FT) 23.52

ELEV., MEAS. PT. (MSL): \_\_\_\_\_

ELEVATION, GW (MSL): \_\_\_\_\_

DATE 12-22-15

TIME: START/FINISH 9:26 / 9:36

**METHOD OF EVACUATION:**

- PVC BAILER     S.S. BAILER     GRUNDFOS PUMP
- S.S. BAILER     QED PUMP     OTHER - PERISTALTIC PUMP

**EVACUATION EQUIPMENT DEDICATED:**

- YES     NO

WELL RISER DIAMETER (IN.):  1     2     3     4     6

ONE (1) RISER VOLUME (GAL) 0.50

WAS WELL PURGED TO DRYNESS  YES  NO

TOTAL VOL. EVACUATED (GAL) 0.25

WATER LEVEL END PURGE (FT) 18.22

TURBIDITY OF PURGINGS: START TURBID-TAN

FINISH SI. TURBID-TAN

**EVACUATION STABILIZATION DATA**

TIME	PURGE RATE (ml/min)	DTW (FT)	CUMULATIVE VOL (GAL)	TEMP. (F)	pH (Std.Units)	CONDUCT. (umhos/cm)	TURBIDITY (NTU)	OTHER [eh (mV)]
9:26	100	11.05	0	14.9	7.44	1604	7200	-17.1
9:31	100	15.10	0.125	14.9	7.35	1660	180.00	-11.6
9:36	100	18.22	0.25	15.0	7.31	1675	148.00	-9.7

**SAMPLING INFORMATION**

DATE / TIME 12-22-15 / 9:36

DEPTH TO GROUNDWATER (FT) 18.22

**METHOD OF SAMPLING:**

- PVC BAILER     S.S. BAILER     GRUNDFOS PUMP
- S.S. BAILER     QED PUMP     OTHER - PERISTALTIC PUMP

**SAMPLING EQUIPMENT DEDICATED:**

- YES     NO

**GENERAL INFORMATION**

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY, 50°

SAMPLE CHARACTERISTICS: SI. TURBID-TAN

COMMENTS: MS/MSD TAKEN

SAMPLE COLLECTION NUMBER 4

SITE NAME: HIGHLAND PLAZA

POINT ID: MW - 4

LOCATION: TONAWANDA, NY

FIELD REPRESENTATIVE: E&GMS / ES&S

SAMPLE MATRIX: GROUNDWATER

LAB SAMPLE / PROJECT #: 48012783

**EVACUATION INFORMATION**

INITIAL WATER LEVEL (FT) 8.42

DEPTH TO BOTTOM (FT) 23.72

ELEV., MEAS. PT. (MSL): \_\_\_\_\_

ELEVATION, GW (MSL): \_\_\_\_\_

DATE 12-22-15

TIME: START/FINISH 9:56 / 10:06

**METHOD OF EVACUATION:**

- PVC BAILER     S.S. BAILER     GRUNDFOS PUMP
- S.S. BAILER     QED PUMP     OTHER - PERISTALTIC PUMP

**EVACUATION EQUIPMENT DEDICATED:**

- YES     NO

WELL RISER DIAMETER (IN.):  1     2     3     4     6

ONE (1) RISER VOLUME (GAL) 0.61

WAS WELL PURGED TO DRYNESS  YES  NO

TOTAL VOL. EVACUATED (GAL) 0.25

WATER LEVEL END PURGE (FT) 15.26

TURBIDITY OF PURGINGS: START SI. TURBID-TAN

FINISH SI. TURBID-TAN

**EVACUATION STABILIZATION DATA**

TIME	PURGE RATE (ml/min)	DTW (FT)	CUMULATIVE VOL (GAL)	TEMP. (F)	pH (Std.Units)	CONDUCT. (umhos/cm)	TURBIDITY (NTU)	OTHER [eh (mV)]
9:56	100	8.42	0	12.9	7.37	1409	51.10	-13.1
10:01	100	12.55	0.125	12.9	7.38	1442	42.20	-13.5
10:06	100	15.26	0.25	12.9	7.38	1451	36.20	-13.6

**SAMPLING INFORMATION**

DATE / TIME 12-22-15 / 10:06

DEPTH TO GROUNDWATER (FT) 15.26

**METHOD OF SAMPLING:**

- PVC BAILER     S.S. BAILER     GRUNDFOS PUMP
- S.S. BAILER     QED PUMP     OTHER - PERISTALTIC PUMP

**SAMPLING EQUIPMENT DEDICATED:**

- YES     NO

**GENERAL INFORMATION**

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY, 50<sup>OF</sup>

SAMPLE CHARACTERISTICS: SI. TURBID-TAN

COMMENTS: \_\_\_\_\_

SAMPLE COLLECTION NUMBER 5

SITE NAME: HIGHLAND PLAZA

POINT ID: MW - 5

LOCATION: TONAWANDA, NY

FIELD REPRESENTATIVE: E&GMS / ES&S

SAMPLE MATRIX: GROUNDWATER

LAB SAMPLE / PROJECT #: 48012783

**EVACUATION INFORMATION**

INITIAL WATER LEVEL (FT) 4.18

DEPTH TO BOTTOM (FT) 23.68

ELEV., MEAS. PT. (MSL): \_\_\_\_\_

ELEVATION, G/W (MSL): \_\_\_\_\_

DATE 12-22-15

TIME: START/FINISH 10:30 / 10:40

**METHOD OF EVACUATION:**

- PVC BAILER     S.S. BAILER     GRUNDFOS PUMP
- S.S. BAILER     QED PUMP     OTHER - PERISTALTIC PUMP

**EVACUATION EQUIPMENT DEDICATED:**

- YES     NO

WELL RISER DIAMETER (IN.):  1     2     3     4     6

ONE (1) RISER VOLUME (GAL) 0.78

WAS WELL PURGED TO DRYNESS  YES  NO

TOTAL VOL. EVACUATED (GAL) 0.25

WATER LEVEL END PURGE (FT) 10.99

TURBIDITY OF PURGINGS: START TURBID-TAN

FINISH TURBID-TAN

**EVACUATION STABILIZATION DATA**

TIME	PURGE RATE (ml/min)	DTW (FT)	CUMULATIVE VOL (GAL)	TEMP. (F)	pH (Std.Units)	CONDUCT. (umhos/cm)	TURBIDITY (NTU)	OTHER [eh (mV)]
10:30	100	4.18	0	13.1	7.28	1389	7200	-8.5
10:35	100	10.60	0.125	13.3	7.26	1530	7200	-6.8
10:40	100	10.99	0.25	13.3	7.25	1542	7200	-6.4

**SAMPLING INFORMATION**

DATE / TIME 12-22-15 / 10:40

DEPTH TO GROUNDWATER (FT) 10.99

**METHOD OF SAMPLING:**

- PVC BAILER     S.S. BAILER     GRUNDFOS PUMP
- S.S. BAILER     QED PUMP     OTHER - PERISTALTIC PUMP

**SAMPLING EQUIPMENT DEDICATED:**

- YES     NO

**GENERAL INFORMATION**

WEATHER CONDITIONS AT TIME OF SAMPLING: cloudy, 50°F

SAMPLE CHARACTERISTICS: TURBID-TAN

COMMENTS: \_\_\_\_\_

SAMPLE COLLECTION NUMBER 6