Attachment 16

PaDEP Major Permit Modification for the Southeastern Realignment – Form 7

Form 7
Hydrogeologic Supplemental Information

Attachment 7-1
Monitoring Wells
Decommissioning Plan

Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
Monitoring and Well Decommissioning Plan
July 2014

Meiser & Earl, Inc. has summarized in Table 1 the existing groundwater monitoring system associated with the proposed Southeastern Realignment at the PA Bethlehem Landfill Corporation site. As shown in Table 1, monitoring wells TW-9A and BL-10D, and abatement wells TW-1, AB-1, and AB-2 are within the construction area of the Southeastern Realignment area and will be decommissioned. Wells MP-8U, OW-1A, OW-1B, OW-1C, OW-4B, and OW-4C are used for water-level measurements only, and they are within the construction area of the Southeastern Realignment area and will be decommissioned. Well OW-2B is inactive and it also is within the construction area and will be decommissioned. These wells are shown on the Composite Highest Groundwater Elevation Contour Map. Table 1 also lists the 6 monitoring wells, 2 stream monitoring points, 2 abatement wells, 4 wells used for water-level measurements and, the 3 inactive wells that are downgradient of the proposed Southeastern Realignment disposal area.

Meiser & Earl, Inc. performed a detailed fracture trace analysis of four sets of aerial photographs and did not find any fracture traces in the area downgradient of the Southeastern Realignment that could be used to locate any new wells. As shown in Table 2, existing inactive well MP-3 is proposed as a new downgradient well. With the 6 existing downgradient wells and two stream monitoring points there will be sufficient downgradient monitoring of the Southeastern Realignment area. Upgradient Well TW-9A is within the construction area of the subject area and will be replaced by Well TW-9AR, as shown on the map. The construction details of existing Well MP-3 and proposed Well TW-9AR are listed in Table 2.

Proposed replacement Abatement Wells AB-1R and AB-2R are shown on the map, and the proposed construction details are listed in Table 2. Existing downgradient abatement wells AB-3 and AB-4 will continue to operate, thus providing 4 downgradient abatement wells for the Southeastern Realignment.

The open rock holes will be decommissioned by either tremie piping cement or bentonite slurry into the bottom of the well until the slurry is nearly at ground level, or the hole will be filled with rock chip bentonite. The protective steel casing will then be removed and the remaining drill hole will be filled with the bentonite (slurry or rock chip) or cement slurry to the ground surface. If the sealing material settles, the remaining hole will be filled with rock chip bentonite to ground level. For those wells that have PVC screen and riser pipe in them, they will be drilled out to their original drilled depth and then decommissioned like the open rock holes. After completion of the decommissioning, a Form 37, along with decommissioning forms signed and sealed by a Pennsylvania registered professional geologist will, be submitted to the Department.

TABLE 1
Progressive Waste Solutions
IESI PA Bethlehem Landfill Corp.
Southeastern Realignment
Existing Well Summary

Location	Monitoring No.	Abatement Well No.	Well No. for Water-Level Measurements Only	Inactive Well No.
Within Proposed Disposal Area:				
	TW-9A	TW-1 (1)	MP-8U	OW-2B
	BL-10D	AB-1	OW-1A	
		AB-2	OW-1B	
			OW-1C	
			OW-4B	
			OW-4C	
Downgradient of Disposal Area:				
	MP-10Ds	AB-3	MP-10Dd	MP-3
	MP-10DdA	AB-4	OW-3B	MP-2
	MP-11Ds		OW-3C	CW-2
	MP-11Dd		GF-35	
	MP-12D			
	BL-11D			
	ST-1 (2)			
	ST-2 (2)			

(1) Sampled and water levels measured quarterly, no routine pumping.
(2) Surface-water monitoring location.

TABLE 2
Progressive Waste Solutions
IESI PA Bethlehem Landfill Corp.
Southeastern Realignment
Proposed Wells

Monitoring Well	Drilling Method	Total Drilled Depth (feet)	Borehole Diameter (inches)	Casing		Location State Planar		Measuring Point Elevation (ft MSL)
				Diameter (inches)	Screened Interval (inches)	North	East	
MP-3	Air Rotary	82	6	4 (0'-3.5') 2 (0'-60')	2 (60'-80')	479,780.93	2,648,489.72	519.51
TW-9AR	Air Rotary	60	10 (0'-17') 6 (17'-60')	6 (0'-17') 2 (0'-18')	2 (18'-58')			

Abatement Well	Drilling Method	Total Drilled Depth	Borehole Diameter (inches)	Casing		Location		Measuring Point Elevation (ft MSL)
				Diameter (inches)	Screened Interval	North	East	
AB-1R	Air Rotary	150	12 (0'-17') 8 (17'-150')	8 (0'-17')	none			
AB-2R	Air Rotary	150	12 (0'-17') 8 (17'-150')	8 (0'-17')	none			

NOTES:
MP-3 is an existing well.
TW-9AR is a replacement well for TW-9A.
Abatement Wells AB-1R and AB-2R are replacement wells for AB-1 and AB-2, respectively.
All casings larger than 2-inch diameter are steel, and all 2-inch casing and screen are Schedule 40, flushed-threaded PVC.
Dimensions for new wells are estimates and field conditions will determine the final well construction.

Attachment 7-2
Groundwater Contours

Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
Composite Highest Groundwater Elevation
Contour Map
June 2014

Meiser & Earl, Inc. (M&E) prepared the Composite Highest Groundwater Elevation Contour Map for the Southeastern Expansion Area by using the water levels measured during quarterly groundwater sampling. Water levels are also measured in wells during the sampling event that are not part of the groundwater monitoring system. Water levels are summarized in Table 1 (BL wells), Table 2 (CO, MP, and TW wells), Table 3 (AB wells, plus TW-1), and Table 4 (OW and GF wells). Twenty nine of the wells listed in Tables 1 through 4 are in the area of the southeastern expansion, and we evaluated the water levels from these wells for the water-level contouring. Based on this evaluation, we selected the highest water-level elevations from 18 representative wells in order to construct the highest water-level contours.

Table 5 lists the 18 wells and the highest water-level elevations used in the Composite Highest Groundwater Elevation Contour Map for water levels measured through June 2014 (second quarter 2014). These levels are also marked with an asterisk on the last page of each of Tables 1 through 4. Many of the water-level measurements listed in Tables 1 through 4 started in the third quarter of 2000. As shown in Table 5, most of the wells have 53 to 56 water-level measurements listed in Tables 1 through 4. The highest water-level elevation for each well for the period of record is listed in the last column in Table 5, and these are the water-level elevations through June 2014 used in the Composite Highest Groundwater Elevation Contour Map.

E 1
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
BL Wells
Water-Level Summary

Well	TOC Steel Elevation		TOC PVC Elevation		03Q00	04Q00	01Q01	02Q01	03Q01	04Q01	01Q02	02Q02	03Q02	04Q02	01Q03	02Q03	03Q03	04Q03	01Q04	02Q04	03Q04	04Q04	01Q05	02Q05	03Q05	04Q05	01Q06
BL-2Ds	436.53		436.2		21.64	16.64	14.52	14.22	17.52	20.43	18.26	16.32	18.84	15.92	14.26	13.90	14.90	13.70	14.30	14.51	13.85	11.51	**11.25**	13.18	17.85	20.60	21.47
					414.56	419.56	421.68	421.98	418.68	415.77	417.94	419.88	417.36	420.28	421.94	422.30	421.30	422.50	421.90	421.69	422.35	424.69	**424.95**	423.02	418.35	415.60	414.73
BL-2Dd	431.08		430.83		18.95	14.41	12.60	12.47	15.53	17.97	16.02	14.24	16.56	13.86	12.42	12.17	13.34	12.12	12.08	12.85	12.46	10.65	**10.58**	12.01	15.88	17.88	18.73
					411.88	416.42	418.23	418.36	415.30	412.86	414.81	416.59	414.27	416.97	418.41	418.66	417.49	418.71	418.75	417.98	418.37	420.18	**420.25**	418.82	414.95	412.95	412.10
BL-3Ds	564.96		564.65			52.35	31.31	35.05				45.90			32.07	32.52	41.26	30.24	33.77	40.04	41.26	31.20	35.23	41.06		38.26	36.49
						512.30	533.34	529.60				518.75			532.58	532.13	523.39	534.41	530.88	524.61	523.39	533.45	529.42	523.59		526.39	528.16
BL-4Ds	548.02		547.81		40.08	40.31	35.64	36.31	40.22	44.55	41.57	38.85	43.70	39.10	36.96	36.88	37.38	36.11	36.99	38.40	35.68	36.23	36.53	37.39	41.64	36.64	36.30
					507.73	507.50	512.17	511.50	507.59	503.26	506.24	508.96	504.11	508.71	510.85	510.93	510.43	511.70	510.82	509.41	512.13	511.58	511.28	510.42	506.17	511.17	511.51
BL-4Dd	548.56		548.31		107.59	116.10	98.83	98.71	110.98	128.66	130.70	109.80	130.48	115.50	102.27	101.48	106.10	98.79	101.67	106.53	109.55	99.39	100.40	103.40	119.47	101.89	99.18
					440.72	432.21	449.48	449.60	437.33	419.65	417.61	438.51	417.83	432.81	446.04	446.83	442.21	449.52	446.64	441.78	438.76	448.92	447.91	444.91	428.84	446.42	449.13
BL-5U	612.14		611.74		86.01	86.15	79.43	78.60	86.25	86.16	86.11	86.12	85.91	86.04	85.95	86.86	86.13	85.91	86.05	86.04	86.02	84.28	86.08	86.30	86.07	86.53	86.00
					525.73	525.59	532.31	533.14	525.49	525.58	525.63	525.62	525.83	525.70	525.79	524.88	525.61	525.83	525.69	525.70	525.72	527.46	525.66	525.44	525.67	525.21	525.74
BL-6D	467.09	471.32	467.09	470.36	59.19	49.50	48.42	48.15	52.91	55.55	51.76	49.85	52.32	51.70	47.35	45.78	46.59	44.78	45.93	46.37	45.22	42.16	**41.69**	43.82	54.13	57.30	60.61
					407.90	417.59	418.67	418.94	414.18	411.54	415.33	417.24	414.77	415.39	419.74	421.31	420.50	422.31	421.16	420.72	421.87	424.93	425.40	423.27	412.96	409.79	406.48
BL-7D	478		477.52		53.00	58.91	56.70	59.53	59.91	63.43	62.77	60.45	61.97	62.46	57.35	57.50	56.98	52.37	52.30	53.72	48.57	43.95	**43.20**	46.37	62.28	67.35	69.95
					424.52	418.61	420.82	417.99	417.61	414.09	414.75	417.07	415.55	415.06	420.17	420.02	420.54	425.15	425.22	423.80	428.95	433.57	**434.32**	431.15	415.24	410.17	407.57
BL-8D	478.94		478.62		66.00	64.02	62.42	55.59	63.88	65.90	65.29	63.79	65.18	63.39	62.37	62.14	60.15	49.49	51.26	55.08	45.80	41.06	**40.00**	43.52	64.34	65.06	67.05
					412.62	414.60	416.20	423.03	414.74	412.72	413.33	414.83	413.44	415.23	416.25	416.48	418.47	429.13	427.36	423.54	432.82	437.56	**438.62**	435.10	414.28	413.56	411.57
BL-9UR	654.92		654.02		63.00	70.25										91.52	90.80	81.33	92.98	94.66	98.88	87.75	85.82	91.45	105.85	94.51	86.50
					591.02	583.77										562.50	563.22	572.69	561.04	559.36	555.14	566.27	568.20	562.57	548.17	559.51	567.52
BL-10D	481.15		480.61		46.85	47.80	43.43	44.01	45.97	48.60	49.80	48.23	50.04	45.07	40.23	36.45	38.85	36.39	36.30	37.39	38.76	32.74	32.89	**30.85**	40.78	40.70	37.15
					433.76	432.81	437.18	436.60	434.64	432.01	430.81	432.38	430.57	435.54	440.38	444.16	441.76	444.22	444.31	443.22	441.85	447.87	447.72	**449.76**	439.83	439.91	443.46
BL-11D	476.35		475.81		63.82	62.57	39.61	50.75	59.26	63.57	61.10	58.67		47.24	37.23	35.40	35.42	32.68	38.03	44.11	43.11	**28.55**	33.86	36.77	54.41	40.54	48.50
					411.99	413.24	436.20	425.06	416.55	412.24	414.71	417.14		428.57	438.58	440.41	440.39	443.13	437.78	431.70	432.70	**447.26**	441.95	439.04	421.40	435.27	427.31
BL-13D	424.51	429.56	423.88	428.91												**5.34**	14.57	7.63	10.60	10.87	9.73	9.25	9.29	10.05	12.75	14.98	15.82
																418.54	414.34	421.28	418.31	418.04	419.18	419.66	419.62	418.86	416.16	413.93	413.09
BL-14DR	474.27		473.44																				**7.76**	9.66	12.21	8.89	
																							465.68	463.78	461.23	464.55	
BL-15D	518.11		517.81																								
BL-16D	637.43		637.1																								
BL-17D	618.94		618.23																108.69	113.95	120.87	109.26	106.30	104.06	132.83	120.35	105.29
																			509.54	504.28	497.36	508.97	511.93	514.17	485.40	497.88	512.94
BL-18D	564.21		563.75													108.18	108.32	102.85	105.41	111.03	109.56	102.01	104.54	109.19	114.61	106.85	109.20
																455.57	455.43	460.90	458.34	452.72	454.19	461.74	459.21	454.56	449.14	456.90	454.55
BL-19D	507.28		506.7														39.81	37.60	39.95	42.27	41.75	39.50	39.25	42.10	47.30	40.48	40.41
																	466.89	469.10	466.75	464.43	464.95	467.20	467.45	464.60	459.40	466.22	466.29

NOTES:
All measurements are in feet, unless otherwise noted.
Bolded numbers represent highest water level/water level elevation for the number of measurements listed.
*Designates the water level elevations used in the Composite Highest Groundwater Elevation Contour Map - June 2014.

E 1
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
BL Wells
Water-Level Summary

Well	TOC Steel Elevation		TOC PVC Elevation		02Q06	03Q06	04Q06	01Q07	02Q07	03Q07	04Q07	01Q08	02Q08	03Q08	04Q08	01Q09	02Q09	03Q09	04Q09	01Q10	02Q10	03Q10	04Q10	01Q11	02Q11	03Q11
BL-2Ds	436.53		436.2		24.75		23.76	21.10	27.09	29.46	28.67	24.84	28.62		30.70	30.00	28.09		29.53	24.00	28.20	*31.55*	27.94	24.45	26.15	21.87
					411.45		412.44	415.10	409.11	406.74	407.53	411.36	407.58		405.50	406.20	408.11		406.67	412.20	408.00	*404.65*	408.26	411.75	410.05	414.33
BL-2Dd	431.08		430.83		22.00		20.92	19.39	21.50	23.85	22.98	19.30	22.90	25.25	24.83	24.11	22.37	24.41	23.73	18.48	22.20	25.76	*27.23*	18.90	20.50	16.72
					408.83		409.91	411.44	409.33	406.98	407.85	411.53	407.93	405.58	406.00	406.72	408.46	406.42	407.10	412.35	408.63	405.07	*403.60*	411.93	410.33	414.11
BL-3Ds	564.96		564.65		50.53		44.43	40.35	41.30			**28.84**	38.80			50.61	39.05			35.90	42.22			29.68	36.91	30.70
					514.12		520.22	524.30	523.35			**535.81**	525.85			514.04	525.60			528.75	522.43			534.97	527.74	533.95
BL-4Ds	548.02		547.81		38.74		36.40	36.51	36.51	40.24	37.12	34.08	35.51	41.69	36.91	36.23	35.12	36.45	35.20	34.17	35.48	40.35	36.50	33.46	34.42	33.57
					509.07		511.41	511.30	511.30	507.57	510.69	513.73	512.30	506.12	510.90	511.58	512.69	511.36	512.61	513.64	512.33	507.46	511.31	514.35	513.39	514.24
BL-4Dd	548.56		548.31		108.82		102.52	101.90	100.99	114.01	114.43	93.75	100.61	118.90	110.73	104.35	101.54	106.18	104.85	97.38	101.40	115.49	110.15	96.30	97.14	**89.34**
					439.49		445.79	446.41	447.32	434.30	433.88	454.56	447.70	429.41	437.58	443.96	446.77	442.13	443.46	450.93	446.91	432.82	438.16	452.01	451.17	**458.97**
BL-5U	612.14		611.74		86.95		86.20	85.95	85.93	85.93	86.45	86.00	86.05	*88.90*	85.99	86.07	86.63	86.41	86.00	85.94	86.00	85.94	86.05	86.00	85.61	**66.30**
					524.79		525.54	525.79	525.81	525.81	525.29	525.74	525.69	*522.84*	525.75	525.67	525.11	525.33	525.74	525.80	525.74	525.80	525.69	525.74	526.13	**545.44**
BL-6D	467.09	471.32	467.09	470.36	63.94			59.97	67.18		66.10	60.20	63.90	66.46	70.17	70.17	70.26		67.80	58.25	65.87	70.10	63.02	58.11	63.75	53.97
					403.15			407.12	399.91		400.99	406.89	403.19	400.63	396.92	396.92	*396.83*		399.29	408.84	401.22	396.99	404.07	408.98	403.34	413.12
BL-7D	478		477.52		72.82		76.72	73.30	75.44	74.40	66.95	60.85	73.43	76.48	75.77	78.37	77.48	79.86	74.29	54.85	68.82	78.30	68.48	64.10	70.89	62.91
					404.70		400.80	404.22	402.08	403.12	410.57	416.67	404.09	401.04	401.75	399.15	400.04	397.66	403.23	422.67	408.70	399.22	409.04	413.42	406.63	414.61
BL-8D	478.94		478.62		71.31	67.90	73.70	69.67	71.80		64.10	70.65							74.52	56.55	61.70	75.12	61.30	65.71	64.51	59.68
					407.31	410.72	404.92	408.95	406.82		414.52	407.97							404.10	422.07	416.92	403.50	417.32	412.91	414.11	418.94
BL-9UR	654.92		654.02		103.05	97.02	93.80	94.52	92.69	105.02	107.63	73.86	98.86	108.27	109.68	102.33	107.39	105.45	100.50	89.23	98.91	107.72	108.78	80.24	95.60	**62.98**
					550.97	557.00	560.22	559.50	561.33	549.00	546.39	580.16	555.16	545.75	544.34	551.69	546.63	548.57	553.52	564.79	555.11	546.30	545.24	573.78	558.42	**591.04**
BL-10D	481.15		480.61		45.09	43.74	41.64	49.70	46.35	*51.05*	48.54	40.45	41.99	48.90	50.50	49.56	50.59	50.00	48.16	42.70	37.41	45.45	47.55	41.63	37.85	37.96
					435.52	436.87	438.97	430.91	434.26	*429.56*	432.07	440.16	438.62	431.71	430.11	431.05	430.02	430.61	432.45	437.91	443.20	435.16	433.06	438.98	442.76	442.65
BL-11D	476.35		475.81		61.04	57.40	49.22	56.01	62.66		42.28	34.06	57.30		56.84	60.35	58.65		40.49	32.13	55.45	62.05	45.50	30.41	44.99	32.89
					414.77	418.41	426.59	419.80	413.15		433.53	441.75	418.51		418.97	415.46	417.16		435.32	443.68	420.36	413.76	430.31	445.40	430.82	442.92
BL-13D	424.51	429.56	423.88	428.91	18.65	18.70	17.47	15.06	16.99	19.00	18.35	15.79	18.41	20.47	18.95	19.36	17.25	19.82	19.11	15.20	17.97	21.00	18.08	15.87	17.32	14.13
					410.26	410.21	411.44	413.85	411.92	409.91	410.56	413.12	410.50	408.44	409.96	409.55	411.66	409.09	409.80	413.71	410.94	*407.91*	410.83	413.04	411.59	414.78
BL-14DR	474.27		473.44						26.60	38.54	39.06	33.60	37.05	40.15	39.96	38.41	40.19	41.39	39.58	37.04	37.41	40.68	40.50	36.63	37.30	33.62
									446.84	434.90	434.38	439.84	436.39	433.29	433.48	435.03	433.25	432.05	433.86	436.40	436.03	432.76	432.94	436.81	436.14	439.82
BL-15D	518.11		517.81																							
BL-16D	637.43		637.1																							
BL-17D	618.94		618.23		127.88	122.16	131.10	132.71	110.23	132.02	148.42	115.20	120.52	144.45	153.95	141.35	148.45	140.61	144.79	129.01	114.56	142.02	159.88	148.61	118.30	**89.30**
					490.35	496.07	487.13	485.52	508.00	486.21	469.81	503.03	497.71	473.78	464.28	476.88	469.78	477.62	473.44	489.22	503.67	476.21	458.35	469.62	499.93	**528.93**
BL-18D	564.21		563.75		112.82	114.31	107.19	105.77	111.66	117.20	116.10	**100.54**	111.17	*125.44*	118.00	110.98	109.74	113.91	106.19	108.71	113.97	120.34	110.45	103.79	101.62	103.00
					450.93	449.44	456.56	457.98	452.09	446.55	447.65	**463.21**	452.58	*438.31*	445.75	452.77	454.01	449.84	457.56	455.04	449.78	443.41	453.30	459.96	462.13	460.75
BL-19D	507.28		506.7		43.09	43.17	41.80	40.05	42.04	46.02	39.84	36.28	41.56	46.65	42.22	38.90	39.05	41.44	36.62	**34.78**	41.55	46.14	37.50	37.12	40.49	37.87
					463.61	463.53	464.90	466.65	464.66	460.68	466.86	470.42	465.14	460.05	464.48	467.80	467.65	465.26	470.08	**471.92**	465.15	460.56	469.20	469.58	466.21	468.83

NOTES:
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Bolded numbers represent highest water level/water level elevation for the number of measurements listed.
*Designates the water level elevations used in the Composite Highest Groundwater Elevation Contour Map - June 2014.

E 1

Progre... Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
BL Wells
Water-Level Summary

Well	TOC Steel Elevation		TOC PVC Elevation		04Q11	01Q12	02Q12	03Q12	04Q12	01Q13	02Q13	03Q13	04Q13	01Q14	02Q14	*Lowest Water Level Water-Level Elevation (feet)*	**Highest Water Level Water-Level Elevation (feet)**	Maximum Fluctuation (feet)	Total Number of Measurements
BL-2Ds	436.53		436.2		23.65	25.38	27.16	29.20	28.28	26.55	27.96	30.81	DRY	26.94	25.36	31.55	11.25	20.30	52
					412.55	410.82	409.04	407.00	407.92	409.65	408.24	405.72		409.59	411.17	404.65	424.95		
BL-2Dd	431.08		430.83		18.22	19.91	21.55	23.66	21.64	20.88	22.18	24.94	26.40	20.96	19.68	27.23	10.58	16.65	55
					412.61	410.92	409.28	407.17		409.95	408.65	406.14	404.68	410.12	411.40	403.60	420.25		
BL-3Ds	564.96		564.65		30.40	41.31	45.50			33.70	31.82		DRY	38.71	30.51	52.35	28.84	23.51	36
					534.25	523.34	519.15			530.95	532.83			525.94	534.14	512.30	535.81		
BL-4Ds	548.02		547.81		33.28	34.64	35.43	42.42	37.07	34.32	33.42	36.49	40.10	33.61	**32.88**	44.55	32.88	11.67	55
					514.53	513.17	512.38	505.39	510.74	513.49	514.39	511.53	507.92	514.41	**515.14**	503.26	515.14		
BL-4Dd	548.56		548.31		91.08	101.39	104.90	118.86	111.94	97.03	95.48	104.13	119.35	100.17	93.83	130.70	89.34	41.36	55
					457.23	446.92	443.41	429.45	436.37	451.28	452.83	444.43	429.21	448.39	454.73	417.61	458.97		
BL-5U	612.14		611.74		80.40	86.02	85.85		86.00	85.94	83.59	86.36	86.60	86.35	83.51	88.90	66.30	22.60	54
					531.34	525.72	525.89		525.74	525.80	528.15	525.78	525.54	525.79	528.63	522.84	545.44		
BL-6D	467.09	471.32	467.09	470.36	61.69	62.50	67.10			62.72	63.68	72.43	*72.65*	67.92	65.71	72.65	41.69	30.96	50
					405.40	404.59	399.99			404.37	407.64	398.89	398.67	403.40	**471.32**	396.83	471.32		
BL-7D	478		477.52		62.58	67.95	75.00	79.72	72.00	67.89	71.17	79.68	*81.20*	68.65	67.02	81.20	43.20	38.00	55
					414.94	409.57	402.52	397.80	405.52	409.63	406.35	398.32	*396.80*	409.35	410.98	396.80	434.32		
BL-8D	478.94		478.62		62.66	65.90	75.00		70.90	65.28	65.28	75.46	75.10	*75.59*	60.38	75.59	40.00*	35.59	48
					415.96	412.72	403.62		407.72	413.34	413.34	403.48	403.84	*403.35*	418.56	403.35	438.62*		
BL-9UR	654.92		654.02		85.45	101.32	113.75	120.39	114.52	104.08	103.93	111.32	*121.47*	103.10	91.19	121.47	62.98	58.49	47
					568.57	552.70	540.27	533.63	539.50	549.94	550.09	543.60	*533.45*	551.82	563.73	533.45	591.04		
BL-10D	481.15		480.61		33.12	37.50	43.95	48.91	46.92	42.70	41.87	44.69	50.02	43.08	33.28	51.05	30.85	20.20	56
					447.49	443.11	436.66	431.70	433.69	437.91	438.74	436.46	431.13	438.07	447.87	429.56	449.76		
BL-11D	476.35		475.81		34.50	53.53	60.88		57.52	43.76	41.62	61.61	DRY	39.16	37.86	63.82	28.55*	35.27	50
					441.31	422.28	414.93		418.29	432.05	434.19	414.74		437.19	438.49	411.99	447.26*		
BL-13D	424.51	429.56	423.88	428.91	14.80	16.10	17.41	18.95	17.80	17.32	19.08	20.83	*21.65*	17.35	16.24	21.65	5.34	16.31	45
					414.11	412.81	411.50	409.96	411.11	411.59	409.83	408.73	*407.91*	412.21	**429.56**	407.91	429.56		
BL-14DR	474.27		473.44		34.58	37.45	39.80	43.00	42.90	39.91	39.96	41.43	*44.10*	40.70	32.68	44.10	7.76	36.34	33
					438.86	435.99	433.64	430.44	430.54	433.53	433.48	432.84	*430.17*	433.57	441.59	430.17	465.68		
BL-15D	518.11		517.81				70.76	73.50	73.40	68.02	67.58	68.98	*73.68*	70.24	**62.52**	73.68	62.52	11.16	9
							447.05	*444.31*	444.41	449.79	450.23	449.13	444.43	447.87	**455.59**	444.31	455.59		
BL-16D	637.43		637.1				196.11	*212.00*	206.42	179.85	145.57	175.58	207.50	189.05	**142.01**	212.00	142.01	69.99	9
							440.99	*425.10*	430.68	457.25	491.53	461.85	429.93	448.38	**495.42**	425.10	495.42		
BL-17D	618.94		618.23		106.32	126.00	147.92	*163.40*	155.91	133.43	122.23	132.96	163.05	138.40	107.74	163.40	89.30	74.10	42
					511.91	492.23	470.31	*454.83*	462.32	484.80	496.00	485.98	455.89	480.54	511.20	454.83	528.93		
BL-18D	564.21		563.75		102.91	110.73	109.24	120.00	111.98	105.80	106.24	113.54	122.81	106.70	106.39	125.44	100.54	24.90	45
					460.84	453.02	454.51	443.75	451.77	457.95	457.51	450.67	441.40	457.51	457.82	438.31	463.21		
BL-19D	507.28		506.7		37.88	45.50	41.09	42.20	38.43	38.06	38.54	43.31	43.19	*115.12*	38.09	115.12	34.78	80.34	44
					468.82	461.20	465.61	464.50	468.27	468.64	468.16	463.97	464.09	*392.16*	469.19	392.16	471.92		

NOTES:
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E 2
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
CO, MP TW Wells
Water-Level Summary

Well	TOC Steel Elevation		TOC PVC Elevation		03Q00	04Q00	01Q01	02Q01	03Q01	04Q01	01Q02	02Q02	03Q02	04Q02	01Q03	02Q03	03Q03	04Q03	01Q04	02Q04	03Q04	04Q04	01Q05	02Q05	03Q05
CO-1	568.46		568.19		63.71	62.75	36.77	40.99	65.28			51.40		68.92	40.16	38.80	47.92	36.72	40.65	47.39	57.54	38.53	42.88	48.83	79.70
					504.48	505.44	531.42	527.20	502.91			516.79		499.27	528.03	529.39	520.27	531.47	527.54	520.80	510.65	529.66	525.31	519.36	488.49
CO-2	602.75																		67.85	74.17	78.83	69.81	68.14	67.63	103.10
																			534.90	528.58	523.92	532.94	534.61	535.12	499.65
CO-6	485.05																		83.97	51.20	85.57	29.75	55.30	50.30	
																			401.08	433.85	399.48	455.30	429.75	434.75	
MP-2	456.77																							31.91	35.65
																								424.86	421.12
MP-5	484.06	486.41	484.06	484.2	68.57	85.65	55.91	58.87	72.07	93.41		79.34			52.28	50.47	59.45	41.49	58.09	62.09	59.45	48.75	51.74	50.91	83.55
					415.49	398.41	428.15	425.19	411.99	390.65		404.72			431.78	433.59	424.61	442.57	425.97	421.97	424.61	435.31	432.32	433.15	400.51
MP-8U	587.54		586.83				28.77	30.45	39.02	46.98	*52.76*	39.37	48.93	50.73	32.16	29.88	37.08	32.24	30.77	33.04	39.16	27.78	29.99	32.85	45.05
							558.06	556.38	547.81	539.85	*534.07*	547.46	537.90	536.10	554.67	556.95	549.75	554.59	556.06	553.79	547.67	559.05	556.84	553.98	541.78
MP-9Ds	438.62		438.14		18.71	18.21	10.44	12.60	19.87			16.33		12.54	12.26	11.34	10.32	9.65	13.28	14.19	12.29	10.19	11.03	12.78	17.15
					419.43	419.93	427.70	425.54	418.27			421.81		425.60	425.88	426.80	427.82	428.49	424.86	423.95	425.85	427.95	427.11	425.36	420.99
MP-9Dd	437.34		436.68		**2.25**	21.93	19.57	20.55	25.23	28.27	26.87	23.14	27.67	22.29	20.35	19.90	19.26	18.38	20.83	21.74	20.35	17.80	18.47	19.69	23.74
					434.43	414.75	417.11	416.13	411.45	408.41	409.81	413.54	409.01	414.39	416.33	416.78	417.42	418.30	415.85	414.94	416.33	418.88	418.21	416.99	412.94
MP-10Ds	455.9		455.34		36.21	34.44	28.45	30.46	36.79	38.97	38.71	35.04	*39.72*	33.49	25.77	27.58	28.35	26.57	31.22	32.03	30.94	28.17	28.54	31.18	35.05
					419.13	420.90	426.89	424.88	418.55	416.37	416.63	420.30	*415.62*	421.85	429.57	427.76	426.99	428.77	424.12	423.31	424.40	427.17	426.80	424.16	420.29
MP-10DdA	443.81		443.54		39.36	43.41	29.05	36.05	38.31	41.13	42.66	36.44	43.85	32.87	27.13	27.28	26.13	22.08	26.04	28.27	25.15	21.18	**19.96**	24.81	32.79
					404.18	400.13	414.49	407.49	405.23	402.41	400.88	407.10	399.69	410.67	416.41	416.26	417.41	421.46	417.50	415.27	418.39	422.36	**423.58**	418.73	410.75
MP-11Ds	473.37		472.91		35.69	36.82	31.50	31.02	34.69	38.07	*40.11*	36.43	39.69	33.72	25.86	23.39	25.36	22.77	23.42	24.26	25.87	21.16	21.81	21.25	29.16
					437.22	436.09	441.41	441.89	438.22	434.84	*432.80*	436.48	433.22	439.19	447.05	449.52	447.55	450.14	449.49	448.65	447.04	451.75	451.10	451.66	443.75
MP-11Dd	473.61		472.8		37.21	38.62	32.97	33.35	35.91	39.72	*40.38*	37.56	39.36	32.81	25.55	22.05	25.21	21.31	22.36	23.21	24.71	**18.21**	19.74	19.02	29.17
					435.59	434.18	439.83	439.45	436.89	433.08	*432.42*	435.24	433.44	439.99	447.25	450.75	447.59	451.49	450.44	449.59	448.09	**454.59**	453.06	453.78	443.63
MP-12D	447.29		446.54		18.63	18.35	13.90	13.51	19.50	21.91	21.47	18.72	*22.34*	16.81	12.41	12.13	13.35	11.43	12.36	13.19	13.05	13.75	11.65	11.97	15.27
					427.91	428.19	432.64	433.03	427.04	424.63	425.07	427.82	*424.20*	429.73	434.13	434.41	433.19	435.11	434.18	433.35	433.49	432.79	434.89	434.57	431.27
TW-7	602.16																		68.18	75.12	79.74	69.85	68.78	67.95	95.40
																			533.98	527.04	522.42	532.31	533.38	534.21	506.76
TW-9	606.55																		34.96	36.29	36.95	33.84	34.65	36.47	*41.12*
																			571.59	570.26	569.60	572.71	571.90	570.08	*565.43*
TW-9A	619.71		619.34		39.61	42.12	27.97	31.56	37.33	45.65	*45.70*	34.92	42.94	42.40	29.21	29.46	32.82	25.74	31.22	32.91	34.81	27.32	31.14	33.25	40.47
					579.73	577.22	591.37	587.78	582.01	573.69	*573.64*	584.42	576.40	576.94	590.13	589.88	586.52	593.60	588.12	586.43	584.53	592.02	588.20	586.09	578.87

NOTES:

E 2
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
CO, MP TW Wells
Water-Level Summary

Well	TOC Steel Elevation	TOC PVC Elevation	03Q00	04Q00	01Q01	02Q01	03Q01	04Q01	01Q02	02Q02	03Q02	04Q02	01Q03	02Q03	03Q03	04Q03	01Q04	02Q04	03Q04	04Q04	01Q05	02Q05	03Q05

All measurements are in feet, unless otherwise noted.
Bolded numbers represent highest water level/water level elevation for the number of measurements listed.
*Designates the water level elevations used in the Composite Highest Groundwater Elevation Contour Map - June 2014.

E 2
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
CO, MP TW Wells
Water-Level Summary

Well	TOC Steel Elevation		TOC PVC Elevation		04Q05	01Q06	02Q06	03Q06	04Q06	01Q07	02Q07	03Q07	04Q07	01Q08	02Q08	03Q08	04Q08	01Q09	02Q09	03Q09	04Q09	01Q10	02Q10	03Q10	04Q10
CO-1	568.46		568.19		45.70	43.75	58.05	56.81	54.83	48.07	49.31	75.70	*90.90*	**34.46**	45.79	78.44	90.76	56.66	45.72	62.03	62.22	43.00	49.26	75.70	90.19
					522.49	524.44	510.14	511.38	513.36	520.12	518.88	492.49	*477.29*	**533.73**	522.40	489.75	477.43	511.53	522.47	506.16	505.97	525.19	518.93	492.49	478.00
CO-2	602.75				76.03	66.45	93.70		82.55	83.40	73.67	94.30	124.21	70.70	77.04	118.60	128.72		83.03		129.31		70.90	107.26	127.15
					526.72	536.30	509.05		520.20	519.35	529.08	508.45	478.54	532.05	525.71	484.15	474.03		519.72		473.44		531.85	495.49	475.60
CO-6	485.05					55.75				163.10	70.25	210.39	200.00	57.40	100.00	200.00	72.00		168.48		104.00		100.00	215.12	222.00
						429.30				321.95	414.80	274.66	285.05	427.65	385.05	285.05	413.05		316.57		381.05		385.05	269.93	263.05
MP-2	456.77				31.63	31.71	36.24		33.41	32.75	35.82	39.46	34.67	**25.87**	33.85	*39.51*	36.69		36.43		30.74		33.63	38.15	29.25
					425.14	425.06	420.53		423.36	424.02	420.95	417.31	422.10	**430.90**	422.92	*417.26*	420.08		420.34		426.03		423.14	418.62	427.52
MP-5	484.06	486.41	484.06	484.2	63.85	50.81	73.28	71.11	73.90	73.63	60.43	82.65	94.66	49.69	66.56	93.42	94.65	81.11	75.53	83.26	75.19	68.12	62.21	86.00	90.00
					420.21	433.25	410.78	412.95	410.16	410.43	423.63	401.41	389.40	434.37	417.50	390.64	389.41	402.95	408.53	400.80	408.87	415.94	421.85	398.06	394.06
MP-8U	587.54		586.83		34.59	30.40	37.00	36.65	36.53	31.76	32.24	43.89	50.55	25.72	32.21	45.23	50.83	37.55	32.83		43.65	29.58	33.62	43.78	49.59
					552.24	556.43	549.83	550.18	550.30	555.07	554.59	542.94	536.28	561.11	554.62	541.60	536.00	549.28	554.00		543.18	557.25	553.21	543.05	537.24
MP-9Ds	438.62		438.14		13.25	14.64		19.60	14.49	14.17	20.84		14.55	8.15	20.38		18.39	19.00	13.11		14.76	7.95	18.92		14.27
					424.89	423.50		418.54	423.65	423.97	417.30		423.59	429.99	417.76		419.75	419.14	425.03		423.38	430.19	419.22		423.87
MP-9Dd	437.34		436.68		21.03	22.45	29.03	27.06	23.32	22.38	27.30	31.09	21.15	15.47	26.68	*32.80*	25.00	25.31	24.04	24.04	19.84	14.54	24.24	31.52	19.70
					415.65	414.23	407.65	409.62	413.36	414.30	409.38	405.59	415.53	421.21	410.00	*403.88*	411.68	411.37	412.64	412.64	416.84	422.14	412.44	405.16	416.98
MP-10Ds	455.9		455.34		30.55	30.59	35.53	34.60	31.22	31.24	34.79	38.53	33.00	24.05	33.25	38.60	35.96	33.91	35.33	36.56	29.79	24.58	32.96	37.45	27.53
					424.79	424.75	419.81	420.74	424.12	424.10	420.55	416.81	422.34	431.29	422.09	416.74	419.38	421.43	420.01	418.78	425.55	430.76	422.38	417.89	427.81
MP-10DdA	443.81		443.54		33.81	34.57	43.80	41.00	34.79	36.55	40.70	43.06	37.35	26.88	38.03	47.62	43.50	39.67	42.13	44.60	39.71	30.89	38.38	42.55	36.41
					409.73	408.97	399.74	402.54	408.75	406.99	402.84	400.48	406.19	416.66	405.51	395.92	400.04	403.87	401.41	398.94	403.83	412.65	405.16	400.99	407.13
MP-11Ds	473.37		472.91		28.08	24.00	30.57	29.75	27.58	34.22	31.88	38.15	37.99	26.72	27.62	34.48	36.77	35.05	37.01	34.69	31.76	26.14	24.47	31.62	32.62
					444.83	448.91	442.34	443.16	445.33	438.69	441.03	434.76	434.92	446.19	445.29	438.43	436.14	437.86	435.90	438.22	441.15	446.77	448.44	441.29	440.29
MP-11Dd	473.61		472.8		27.77	23.53	31.50	29.86	27.54	36.88	35.65	39.60	38.24	26.84	28.19	35.03	38.10	37.08	36.13	35.99	32.77	26.40	24.49	32.18	32.96
					445.03	449.27	441.30	442.94	445.26	435.92	437.15	433.20	434.56	445.96	444.61	437.77	434.70	435.72	436.67	436.81	440.03	446.40	448.31	440.62	439.84
MP-12D	447.29		446.54		13.77	12.68	15.80	15.26	13.55	15.72	16.33	20.70	16.94	12.35	14.80	19.05	17.00	15.90	16.46	17.78	13.56	13.80	13.63	17.58	14.40
					432.77	433.86	430.74	431.28	432.99	430.82	430.21	425.84	429.60	434.19	431.74	427.49	429.54	430.64	430.08	428.76	432.98	432.74	432.91	428.96	432.14
TW-7	602.16				76.98	66.95	88.36		83.45	83.67	72.16	90.70	98.69	74.91	77.68	100.85	*100.94*		83.98		93.51		71.95	94.89	93.60
					525.18	535.21	513.80		518.71	518.49	530.00	511.46	503.47	527.25	524.48	501.31	*501.22*		518.18		508.65		530.21	507.27	508.56
TW-9	606.55				36.24	35.82	37.81		36.82	35.24	36.63	40.50	39.96	30.65	36.31	40.87	40.50		36.98		32.91		35.97	40.41	37.62
					570.31	570.73	568.74		569.73	571.31	569.92	566.05	566.59	575.90	570.24	565.68	566.05		569.57		573.64		570.58	566.14	568.93
TW-9A	619.71		619.34		32.15	31.19	34.74	34.74	33.10	31.26	32.59	38.90	44.19	**24.91**	31.88	40.45	44.11	33.94	30.71	35.72	36.18	29.33	32.93	39.35	43.90
					587.19	588.15	584.60	584.60	586.24	588.08	586.75	580.44	575.15	**594.43**	587.46	578.89	575.23	585.40	588.63	583.62	583.16	590.01	586.41	579.99	575.44

NOTES:

E 2
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
CO, MP TW Wells
Water-Level Summary

Well	TOC Steel Elevation	TOC PVC Elevation	04Q05	01Q06	02Q06	03Q06	04Q06	01Q07	02Q07	03Q07	04Q07	01Q08	02Q08	03Q08	04Q08	01Q09	02Q09	03Q09	04Q09	01Q10	02Q10	03Q10	04Q10

All measurements are in feet, unless otherwise noted.
Bolded numbers represent highest water level/water level elevation for the number of measurements listed.
*Designates the water level elevations used in the Composite Highest Groundwater Elevation Contour Map - June 2014.

E 2
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
CO, MP TW Wells
Water-Level Summary

Well	TOC Steel Elevation		TOC PVC Elevation		01Q11	02Q11	03Q11	04Q11	01Q12	02Q12	03Q12	04Q12	01Q13	02Q13	03Q13	04Q13	01Q14	02Q14	*Lowest Water Level Water-Level Elevation (feet)*	**Highest Water Level Water-Level Elevation (feet)**	Maximum Fluctuation (feet)
CO-1	568.46		568.19		35.40	42.85	34.80	36.00	47.80	52.36	76.60	81.71	40.80	38.18	62.52	86.42	47.55	37.43	90.90	34.46	56.44
					532.79	525.34	533.39	532.19	520.39	515.83	491.59	486.48	527.39	530.01	505.94	482.04	520.91	531.03	477.29	533.73	
CO-2	602.75				73.88	69.85	**54.40**		73.29	DRY	*131.52*	72.96			72.55	96.91	93.11	61.66	131.52	54.40	77.12
					528.87	532.90	**548.35**		529.46		*471.23*	529.79			530.20	505.84	509.64	541.09	471.23	548.35	
CO-6	485.05				125.00	168.00	**20.90**	29.50	183.00	211.27	*226.40*	223.20	100.00	75.00	197.00	223.71	220.19	217.10	226.40	20.90	205.50
					360.05	317.05	**464.15**	455.55	302.05	273.78	*258.65*	261.85	385.05	410.05	288.05	261.34	264.86	267.95	258.65	464.15	
MP-2	456.77				26.10	31.23	27.92	29.62	33.10	34.75	39.14	34.97	30.65	30.96	35.28	34.80	29.84	29.16	39.51	25.87*	13.64
					430.67	425.54	428.85	427.15	423.67	422.02	417.63	421.80	426.12	425.81	421.49	421.97	426.93	427.61	417.26	430.90*	
MP-5	484.06	486.41	484.06	484.2	54.40	59.51	**26.70**	35.75	65.45	79.57	*95.52*	87.57	62.05	59.29	71.22	DRY	DRY	52.35	95.52	26.70	68.82
					429.66	424.55	457.36	448.31	418.61	404.49	*388.54*	396.49	422.01	427.12	415.19			**486.41**	388.54	486.41	
MP-8U	587.54		586.83		26.40	30.97	**23.40**	26.17	33.36	34.45	43.85	47.33	30.21	30.08	40.55	48.38	34.13	28.76	52.76	23.40*	29.36
					560.43	555.86	**563.43**	560.66	553.47	552.38	542.98	539.50	556.62	556.75	546.99	539.16	553.41	558.78	534.07	563.43*	
MP-9Ds	438.62		438.14		7.39	15.04	**6.00**	11.08	18.70	18.70	22.00	17.75	11.94	13.93		*22.90*	11.36	12.79	22.90	6.00*	16.90
					430.75	423.10	**432.14**	427.06	419.44	419.44	416.14	420.39	426.20	424.21		*415.72*	427.26	425.83	415.72	432.14*	
MP-9Dd	437.34		436.68		14.13	20.91	15.40	16.63	22.91	27.40	32.78	22.79	17.42	19.65	28.88	32.60	17.43	18.04	32.80	2.25*	30.55
					422.55	415.77	421.28	420.05	413.77	409.28	403.90	413.89	419.26	417.03	408.46	404.74	419.91	419.30	403.88	434.43*	
MP-10Ds	455.9		455.34		**21.88**	27.85	25.89	28.04	32.37	34.31	38.45	39.50	29.57	30.13	34.91	38.30	29.31	27.80	39.72	21.88*	17.84
					433.46	427.49	429.45	427.30	422.97	421.03	416.89	415.84	425.77	425.21	420.99	417.60	426.59	428.10	415.62	433.46*	
MP-10DdA	443.81		443.54		35.90	34.93	27.62	28.13	37.17	42.77	47.55	39.00	31.21	37.83	42.23	*48.65*	29.49	31.78	48.65	19.96	28.69
					407.64	408.61	415.92	415.41	406.37	400.77	395.99	404.54	412.33	405.71	401.58	*395.16*	414.32	412.03	395.16	423.58	
MP-11Ds	473.37		472.91		26.23	22.28	23.15	20.94	24.50	28.52	33.87	31.70	26.31	24.97	28.94	33.15	26.65	**20.60**	40.11	20.60*	19.51
					446.68	450.63	449.76	451.97	448.41	444.39	439.04	441.21	446.60	447.94	444.43	440.22	446.72	**452.77**	432.80	452.77*	
MP-11Dd	473.61		472.8		24.75	20.70	22.60	19.88	23.10	29.18	34.64	31.70	26.92	25.45	29.41	33.65	26.15	19.91	40.38	18.21*	22.17
					448.05	452.10	450.20	452.92	449.70	443.62	438.16	441.10	445.88	447.35	444.20	439.96	447.46	453.70	432.42	454.59*	
MP-12D	447.29		446.54		12.00	12.64	11.75	11.60	13.48	15.06	18.70	15.12	12.71	12.72	15.85	17.95	12.98	**11.71**	22.34	11.71*	10.63
					434.54	433.90	434.79	434.94	433.06	431.48	427.84	431.42	433.83	433.82	431.44	429.34	434.31	**435.58**	424.20	435.58*	
TW-7	602.16				76.72	71.09	**53.25**	57.58	75.05	75.89	89.64	75.98	67.40	61.35	74.75	85.55	60.40	63.35	100.94	53.25	47.69
					525.44	531.07	**548.91**	544.58	527.11	526.27	512.52	526.18	534.76	540.81	527.41	516.61	541.76	538.81	501.22	548.91	
TW-9	606.55				30.98	35.55	**30.39**	31.40	35.90	34.84	38.70	38.18	32.63	31.99	36.54	40.65	38.60	31.99	41.12	30.39*	10.73
					575.57	571.00	**576.16**	575.15	570.65	571.71	567.85	568.37	573.92	574.56	570.01	565.90	567.95	574.56	565.43	576.16*	
TW-9A	619.71		619.34		25.22	31.29	25.78	26.64	32.30	31.74	36.01	38.00	28.30	27.49	35.28	39.70	27.71	28.59	45.70	24.91*	20.79
					594.12	588.05	593.56	592.70	587.04	587.60	583.33	581.34	591.04	591.85	584.43	580.01	592.00	591.12	573.64	594.43*	

NOTES:

E 2
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
CO, MP TW Wells
Water-Level Summary

Well	TOC Steel Elevation	TOC PVC Elevation	01Q11	02Q11	03Q11	04Q11	01Q12	02Q12	03Q12	04Q12	01Q13	02Q13	03Q13	04Q13	01Q14	02Q14	*Lowest Water Level Water-Level Elevation (feet)*	**Highest Water Level Water-Level Elevation (feet)**	Maximum Fluctuation (feet)

All measurements are in feet, unless otherwise noted.
Bolded numbers represent highest water level/water level elevation for the number of measurements listed.
*Designates the water level elevations used in the Composite Highest Groundwater Elevation Contour Map - June 2014.

LE 2
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
CO, MP TW Wells
Water-Level Summary

Well	TOC Steel Elevation		TOC PVC Elevation		Total Number of Measurements
CO-1	568.46		568.19		53
CO-2	602.75				34
CO-6	485.05				34
MP-2	456.77				33
MP-5	484.06	486.41	484.06	484.2	51
MP-8U	587.54		586.83		53
MP-9Ds	438.62		438.14		47
MP-9Dd	437.34		436.68		56
MP-10Ds	455.9		455.34		56
MP-10DdA	443.81		443.54		56
MP-11Ds	473.37		472.91		56
MP-11Dd	473.61		472.8		56
MP-12D	447.29		446.54		56
TW-7	602.16				38
TW-9	606.55				38
TW-9A	619.71		619.34		56

NOTES:

LE 2
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
CO, MP TW Wells
Water-Level Summary

Well	TOC Steel Elevation	TOC PVC Elevation	Total Number of Measurements

All measurements are in feet, unless otherwise noted.
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E 3
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
Abatement Wells
Water-Level Summary

Well	TOC Steel Elevation	03Q00	04Q00	01Q01	02Q01	03Q01	04Q01	01Q02	02Q02	03Q02	04Q02	01Q03	02Q03	03Q03	04Q03	01Q04	02Q04	03Q04	04Q04
AB-1	479.36	46.90	46.27	45.90	45.85	59.75	48.50	45.80	47.93	42.92	30.50	30.50	*117.30*	110.80	91.40	87.00	84.80	34.68	28.42
		432.46	433.09	433.46	433.51	419.61	430.86	433.56	431.43	436.44	448.86	448.86	*362.06*	368.56	387.96	392.36	394.56	444.68	450.94
AB-2	490.54	52.80	51.43	36.15	53.22	56.54	58.64	53.25	56.55	54.85	34.20	34.20	34.20	34.20	**32.40**	34.20	34.20	47.95	34.20
		437.74	439.11	454.39	437.32	434.00	431.90	437.29	433.99	435.69	456.34	456.34	456.34	456.34	**458.14**	456.34	456.34	442.59	456.34
AB-3	484.57	59.75	68.30	73.87	74.06	74.78	75.29	58.91	63.55	83.30	77.95	83.20	83.40	83.10	83.30	83.30	97.80	97.00	83.20
		424.82	416.27	410.70	410.51	409.79	409.28	425.66	421.02	401.27	406.62	401.37	401.17	401.47	401.27	401.27	386.77	387.57	401.37
AB-4	477.53	101.30	*108.69*	89.39	90.25	54.18	58.35	68.36	56.93	84.00	66.49	59.50	60.10	60.00	61.30	57.20	58.60	61.80	65.50
		376.23	*368.84*	388.14	387.28	423.35	419.18	409.17	420.60	393.53	411.04	418.03	417.43	417.53	416.23	420.33	418.93	415.73	412.03
AB-5	472.58	65.35	65.48	62.62	**51.91**	65.19	85.31	85.33	65.39	85.15	84.60	84.60	84.60	84.60	*105.30*	96.10	65.40	67.60	67.20
		407.23	407.10	409.96	**420.67**	407.39	387.27	387.25	407.19	387.43	387.98	387.98	387.98	387.98	*367.28*	376.48	407.18	404.98	405.38
AB-6	472.88	61.37	59.99	59.75	**51.89**	60.28	61.99	59.99	62.19	60.36	91.50	91.70	91.90	94.00	104.10	102.70	71.40	70.70	61.30
		411.51	412.89	413.13	**420.99**	412.60	410.89	412.89	410.69	412.52	381.38	381.18	380.98	378.88	368.78	370.18	401.48	402.18	411.58
AB-7	473.87	58.58	57.23	63.88	69.47	55.33	66.64	64.69	65.94	89.80	70.80	89.90	89.20	89.50	89.90	89.70	83.30	66.90	53.80
		415.29	416.64	409.99	404.40	418.54	407.23	409.18	407.93	384.07	403.07	383.97	384.67	384.37	383.97	384.17	390.57	406.97	420.07
AB-8	473.68	62.34	59.90	53.47	53.25	58.91	67.69	57.20	56.30	83.40	85.40	82.80	51.89	51.95	55.49	51.28	51.70	53.40	
		411.34	413.78	420.21	420.43	414.77	405.99	416.48	417.38	390.28	388.28	390.88	421.79	421.73	418.19	422.40	421.98	420.28	
AB-9	481.94	51.75	44.20	45.69	44.94	52.68	51.09	46.09	48.72	47.07	121.40	103.90	81.10	74.60	69.80	70.10	71.70	75.70	64.70
		430.19	437.74	436.25	437.00	429.26	430.85	435.85	433.22	434.87	360.54	378.04	400.84	407.34	412.14	411.84	410.24	406.24	417.24
AB-10	457.88	46.60	39.49		36.87	45.89	41.19	47.59	47.40	42.10	41.05	*110.80*	*110.80*	92.50	78.70	81.80	79.50	80.10	69.60
		411.28	418.39		421.01	411.99	416.69	410.29	410.48	415.78	416.83	*347.08*	*347.08*	365.38	379.18	376.08	378.38	377.78	388.28
TW-1	487.53	48.70	50.35	46.30	46.65	46.20	50.95	52.64	49.02	83.90	42.40	44.80	103.10	100.30	104.60	103.40	103.30	34.41	
		438.83	437.18	441.23	440.88	441.33	436.58	434.89	438.51	403.63	445.13	442.73	384.43	387.23	382.93	384.13	384.23	453.12	

NOTES:

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LE 3
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
Abatement Wells
Water-Level Summary

Well	TOC Steel Elevation	01Q05	02Q05	03Q05	04Q05	01Q06	02Q06	03Q06	04Q06	01Q07	02Q07	03Q07	04Q07	01Q08	02Q08	03Q08	04Q08	01Q09	02Q09
AB-1	479.36	84.50	81.60	96.40	92.70	97.00	91.90	100.80	102.20	89.50	93.00	88.90	68.69	42.68	39.62	46.14	48.87	60.41	
		394.86	397.76	382.96	386.66	382.36	387.46	378.56	377.16	389.86	386.36	390.46	410.67	436.68	439.74	433.22	430.49	418.95	
AB-2	490.54	34.20	34.20	93.30	93.80	93.60	93.50	93.40	*108.90*	93.50	93.70	93.50	36.09	50.40	51.71	53.85	49.38	48.60	
		456.34	456.34	397.24	396.74	396.94	397.04	397.14	*381.64*	397.04	396.84	397.04	454.45	440.14	438.83	436.69	441.16	441.94	
AB-3	484.57	101.30	83.30	93.50	93.60	66.60	66.50	70.70	70.80	70.70	70.70	90.80	66.98	67.03	69.80	71.27	74.33	76.25	
		383.27	401.27	391.07	390.97	417.97	418.07	413.87	413.77	413.87	413.87	393.77	417.59	417.54	414.77	413.30	410.24	408.32	
AB-4	477.53	60.60	58.90	70.60	69.10	71.70	71.80	71.70	71.70	71.70	71.80	94.70	71.05	71.32	56.61	73.69	69.77	71.60	
		416.93	418.63	406.93	408.43	405.83	405.73	405.83	405.83	405.83	405.73	382.83	406.48	406.21	420.92	403.84	407.76	405.93	
AB-5	472.58	67.10	66.20	71.90	71.80	74.70	74.80	72.60	72.60	72.70	72.50	76.20	59.31	78.38	89.65	89.70	87.92	89.40	
		405.48	406.38	400.68	400.78	397.88	397.78	399.98	399.98	399.88	400.08	396.38	413.27	394.20	382.93	382.88	384.66	383.18	
AB-6	472.88	61.80	62.00	74.70	74.50	81.60	80.90	81.70	72.70	83.70	79.00	76.00	60.71	84.78	91.69	83.47	81.42	79.71	
		411.08	410.88	398.18	398.38	391.28	391.98	391.18	400.18	389.18	393.88	396.88	412.17	388.10	381.19	389.41	391.46	393.17	
AB-7	473.87	42.90	**38.90**	81.80	81.60	79.60	82.10	69.10	69.60	69.30	72.10	66.80	66.20	55.72	74.12	72.99	92.30	89.74	
		430.97	**434.97**	392.07	392.27	394.27	391.77	404.77	404.27	404.57	401.77	407.07	407.67	418.15	399.75	400.88	381.57	384.13	
AB-8	473.68	**46.39**		79.70	82.10	69.40	68.50	69.30	69.40	*96.80*	69.40	69.40	79.73	79.78	76.41	78.05	90.38	88.91	
		427.29		393.98	391.58	404.28	405.18	404.38	404.28	*376.88*	404.28	404.28	393.95	393.90	397.27	395.63	383.30	384.77	
AB-9	481.94	65.30	65.80	80.30	76.00	**26.00**	85.00	84.90	85.00	84.90	51.10	84.80	101.19	104.53	140.00	140.71	141.40	140.11	
		416.64	416.14	401.64	405.94	**455.94**	396.94	397.04	396.94	397.04	430.84	397.14	380.75	377.41	341.94	341.23	340.54	341.83	
AB-10	457.88	69.90	69.90	85.00	85.00	94.60	**30.10**	94.60	94.60	94.60	94.70	94.50	68.16	68.13	68.30	68.10	73.81	73.74	
		387.98	387.98	372.88	372.88	363.28	**427.78**	363.28	363.28	363.28	363.18	363.38	389.72	389.75	389.58	389.78	384.07	384.14	
TW-1	487.53	96.20	87.20	111.20	*114.30*	95.10	87.70	87.30	84.40	86.30	84.60	85.80	51.20	38.45	37.84	46.73	53.60	53.00	
		391.33	400.33	376.33	*373.23*	392.43	399.83	400.23	403.13	401.23	402.93	401.73	436.33	449.08	449.69	440.80	433.93	434.53	

NOTES:

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LE 3
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
Abatement Wells
Water-Level Summary

Well	TOC Steel Elevation	03Q09	04Q09	01Q10	02Q10	03Q10	04Q10	01Q11	02Q11	03Q11	04Q11	01Q12	02Q12	03Q12	04Q12	01Q13	02Q13	03Q13	04Q13
AB-1	479.36	38.11	50.80	43.06	39.46	44.40	44.65	27.27	**21.36**	34.40	32.20	38.29	44.19	49.40	35.35	40.20	38.90	42.60	36.30
		441.25	428.56	436.30	439.90	434.96	434.71	452.09	**458.00**	444.96	447.16	441.07	435.17	429.96	444.01	439.16	440.46	436.76	443.06
AB-2	490.54	40.24	49.10	49.01		54.65	51.30	47.72	54.45	59.90	57.12	56.56	56.82	38.40	51.81	55.60	71.30	78.10	80.00
		450.30	441.44	441.53		435.89	439.24	442.82	436.09	430.64	433.42	433.98	433.72	452.14	438.73	434.94	419.24	412.44	410.54
AB-3	484.57	91.48	94.00	89.35		98.25	93.21	**36.81**	90.18	90.80	84.91	94.29	*103.79*	93.50	76.49	89.00	89.30	92.60	60.10
		393.09	390.57	395.22		386.32	391.36	**447.76**	394.39	393.77	399.66	390.28	*380.78*	391.07	408.08	395.57	395.27	391.97	424.47
AB-4	477.53	72.32	71.90	71.83		62.08	**45.18**	78.31	74.00	75.69	74.31	70.40	75.45	69.70	93.41	96.80	87.12	83.80	86.50
		405.21	405.63	405.70		415.45	**432.35**	399.22	403.53	401.84	403.22	407.13	402.08	407.83	384.12	380.73	390.41	393.73	391.03
AB-5	472.58	83.00	81.30	68.94		80.03	57.42	76.14	64.00	76.00	75.75	76.31	96.80	92.50	93.91	64.90	63.10	93.70	95.15
		389.58	391.28	403.64		392.55	415.16	396.44	408.58	396.58	396.83	396.27	375.78	380.08	378.67	407.68	409.48	378.88	377.43
AB-6	472.88	80.98	81.30	52.14		81.77	56.91	70.11	61.42	56.05	60.18	61.52	85.50	88.00	69.46	80.10	91.90	90.10	103.86
		391.90	391.58	420.74		391.11	415.97	402.77	411.46	416.83	412.70	411.36	387.38	384.88	403.42	392.78	380.98	382.78	369.02
AB-7	473.87	88.58	93.20	49.13		87.44	85.80	81.50	95.20	98.60	81.82	84.12	91.46	91.00	88.21	89.50	*139.30*	136.40	93.35
		385.29	380.67	424.74		386.43	388.07	392.37	378.67	375.27	392.05	389.75	382.41	382.87	385.66	384.37	*334.57*	337.47	380.52
AB-8	473.68	89.81	86.90	80.22		89.25	83.40	78.08	79.80	64.00	92.56	81.55	95.38	87.80	80.29	76.90	81.70	78.10	74.25
		383.87	386.78	393.46		384.43	390.28	395.60	393.88	409.68	381.12	392.13	378.30	385.88	393.39	396.78	391.98	395.58	399.43
AB-9	481.94	108.51	103.60	103.65		101.82	60.38	101.31	104.19	103.00	91.02	91.62	87.40	58.40	102.81	103.00	139.50	139.20	138.90
		373.43	378.34	378.29		380.12	421.56	380.63	377.75	378.94	390.92	390.32	394.54	423.54	379.13	378.94	342.44	342.74	343.04
AB-10	457.88	74.31	73.70	69.13		73.12	60.98	65.10	50.41	65.01	62.24	68.77	72.78	62.80	51.24	71.00	75.20	77.70	73.20
		383.57	384.18	388.75		384.76	396.90	392.78	407.47	392.87	395.64	389.11	385.10	395.08	406.64	386.88	382.68	380.18	384.68
TW-1	487.53	45.35	44.10	35.60	32.85	41.76	44.86	43.06	26.61	29.89	25.24	31.80	38.30	44.60	42.21	35.20	33.28	37.60	43.35
		442.18	443.43	451.93	454.68	445.77	442.67	444.47	460.92	457.64	462.29	455.73	449.23	442.93	445.32	452.33	454.25	449.93	444.18

NOTES:

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LE 3
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
Abatement Wells
Water-Level Summary

Well	TOC Steel Elevation	01Q14	02Q14
AB-1	479.36	28.20 451.16	28.00 451.36
AB-2	490.54	71.60 418.94	73.00 417.54
AB-3	484.57	94.00 390.57	92.80 391.77
AB-4	477.53	87.40 390.13	85.60 391.93
AB-5	472.58	84.20 388.38	67.10 405.48
AB-6	472.88	*108.30* *364.58*	55.60 417.28
AB-7	473.87	79.80 394.07	86.90 386.97
AB-8	473.68	78.40 395.28	85.10 388.58
AB-9	481.94	140.00 341.94	*143.30* *338.64*
AB-10	457.88	73.70 384.18	52.70 405.18
TW-1	487.53	34.60 452.93	**24.70** **462.83**

NOTES:

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*Designates the water level elevations used in the Composite Highest Groundwater Elevation Contour Map - June 2014.

LE 3
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
Abatement Wells
Water-Level Summary

Well	TOC Steel Elevation	*Lowest Water Level Water-Level Elevation (feet)*	***Highest Water Level Water-Level Elevation (feet)***	***Maximum Fluctuation (feet)***	Total Number of Measurements
AB-1	479.36	117.30 362.06	21.36* 458.00*	95.94	55
AB-2	490.54	108.90 381.64	32.40* 458.14*	76.50	54
AB-3	484.57	103.79 380.78	36.81* 447.76*	66.98	54
AB-4	477.53	108.69 368.84	45.18 432.35	63.51	54
AB-5	472.58	105.30 367.28	51.91 420.67	53.39	54
AB-6	472.88	108.30 364.58	51.89 420.99	56.41	54
AB-7	473.87	139.30 334.57	38.90 434.97	100.40	54
AB-8	473.68	96.80 376.88	46.39 427.29	50.41	52
AB-9	481.94	143.30 338.64	26.00 455.94	117.30	54
AB-10	457.88	110.80 347.08	30.10 427.78	80.70	53
TW-1	487.53	114.30 373.23	24.70 462.83	89.60	54

NOTES:

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LE 4
Progre aste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
OW GF Wells
Water-Level Summary

Well	TOC Steel Elevation	TOC PVC Elevation	04Q00	01Q01	02Q01	03Q01	04Q01	01Q02	02Q02	03Q02	04Q02	01Q03	02Q03	03Q03	04Q03	01Q04	02Q04	03Q04	04Q04	01Q05
OW-1A	498.74	498.45		55.22	55.54	56.04	61.13	62.66	59.30	60.35	53.52	44.82	39.65	44.12	38.81	40.59	40.81	43.29	35.79	36.54
				443.23	442.91	442.41	437.32	435.79	439.15	438.10	444.93	453.63	458.80	454.33	459.64	457.86	457.64	455.16	462.66	461.91
OW-1B	498.71		59.85	53.92	54.33	55.44	60.29	62.03	58.36	59.60	53.00	44.52	39.24	43.75	38.52	40.26	40.53	43.03	35.53	36.25
			438.86	444.79	444.38	443.27	438.42	436.68	440.35	439.11	445.71	454.19	459.47	454.96	460.19	458.45	458.18	455.68	463.18	462.46
OW-1C	499.76		61.04	55.16	55.61	56.61	61.45	63.16	59.57	60.77	54.15	45.69	40.23	44.94	39.69	41.43	41.71	44.18	36.71	37.40
			438.72	444.60	444.15	443.15	438.31	436.60	440.19	438.99	445.61	454.07	459.53	454.82	460.07	458.33	458.05	455.58	463.05	462.36
OW-3B	495.32		59.12	52.94	48.81	56.07	60.46	*61.49*	57.80		54.98	47.16	44.58	46.81	43.97	44.65	45.69	47.19	42.60	42.96
			436.20	442.38	446.51	439.25	434.86	*433.83*	437.52		440.34	448.16	450.74	448.51	451.35	450.67	449.63	448.13	452.72	452.36
OW-3C	493.27	492.87	54.44	48.43	52.43	49.75	54.80	56.58	52.90		47.54	39.05	33.81	38.29	33.06	34.84	35.11	37.73	29.85	30.85
			438.43	444.44	440.44	443.12	438.07	436.29	439.97		445.33	453.82	459.06	454.58	459.81	458.03	457.76	455.14	463.02	462.02
OW-4A	485.16		48.31	43.76	44.17	44.70	47.81	49.90	47.19	47.86	41.06	33.11	29.38	32.96	27.63	29.08	29.55	31.46	24.06	25.35
			436.85	441.40	440.99	440.46	437.35	435.26	437.97	437.30	444.10	452.05	455.78	452.20	457.53	456.08	455.61	453.70	461.10	459.81
OW-4B	486.51	486.13	49.70	45.15	45.55	46.15	50.23	51.26	48.61	49.28	42.47	34.51	31.91	34.42	29.09	30.46	30.97	32.88	25.42	26.71
			436.43	440.98	440.58	439.98	435.90	434.87	437.52	436.85	443.66	451.62	454.22	451.71	457.04	455.67	455.16	453.25	460.71	459.42
OW-4C	485.95		47.93	44.27	44.68	45.27	48.45	50.54	47.82	48.50	41.75	33.75	29.12	33.55	28.25	29.60	30.07	32.03	24.54	25.79
			438.02	441.68	441.27	440.68	437.50	435.41	438.13	437.45	444.20	452.20	456.83	452.40	457.70	456.35	455.88	453.92	461.41	460.16
GF-32	446.16	445.47		25.74	25.67	30.28	34.36	30.28	28.10	30.97	28.62	25.65	24.48	25.12	32.27	25.15	25.58	24.37	**20.37**	20.70
				419.73	419.80	415.19	411.11	415.19	417.37	414.50	416.85	419.82	420.99	420.35	413.20	420.32	419.89	421.10	**425.10**	424.77
GF-34	444.67	443.96		32.43	32.59	34.32	36.61	34.75	33.11	35.60	33.30	32.70	32.41	32.73	32.33	33.06	33.06	32.90	**31.92**	32.25
				411.53	411.37	409.64	407.35	409.21	410.85	408.36	410.66	411.26	411.55	411.23	411.63	410.90	410.90	411.06	**412.04**	411.71
GF-35	452.18			23.73	23.26	27.34		32.66	28.80	32.47	26.63	18.61	17.28	18.49	16.02	16.73	17.80	19.07	15.07	15.41
				428.45	428.92	424.84		419.52	423.38	419.71	425.55	433.57	434.90	433.69	436.16	435.45	434.38	433.11	437.11	436.77

NOTES:

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LE 4
Progre aste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
OW GF Wells
Water-Level Summary

Well	TOC Steel Elevation	TOC PVC Elevation	02Q05	03Q05	04Q05	01Q06	02Q06	03Q06	04Q06	01Q07	02Q07	03Q07	04Q07	01Q08	02Q08	03Q08	04Q08	01Q09	02Q09	03Q09
OW-1A	498.74	498.45	34.51 463.94	50.18 448.27	48.86 449.59	41.22 457.23	52.13 446.32	49.07 449.38	48.53 449.92		60.09 438.36	*64.25* *434.20*	60.33 438.12	45.60 452.85	46.74 451.71	56.18 442.27	63.73 434.72	62.23 436.22	56.80 441.65	
OW-1B	498.71		34.19 464.52	49.63 449.08	48.33 450.38	40.08 458.63	51.55 447.16	48.64 450.07	47.86 450.85	*63.34* *435.37*	57.59 441.12	62.60 436.11	61.76 436.95	44.72 453.99	46.25 452.46	55.59 443.12	62.85 435.86	60.64 438.07	55.32 443.39	
OW-1C	499.76		35.25 464.51	50.71 449.05	49.54 450.22	42.06 457.70	52.52 447.24	50.00 449.76	49.10 450.66	*64.70* *435.06*	59.17 440.59	63.64 436.12	59.40 440.36	46.54 453.22	47.76 452.00	56.87 442.89	64.31 435.45	62.00 437.76	56.81 442.95	
OW-3B	495.32		42.30 453.02	50.51 444.81	49.62 445.70	45.41 449.91	51.90 443.42	51.03 444.29	49.00 446.32	55.81 439.51	53.03 442.29	59.61 435.71	54.88 440.44	48.08 447.24	48.73 446.59	55.98 439.34	58.18 437.14	56.40 438.92	49.80 445.52	
OW-3C	493.27	492.87	28.80 464.07	44.20 448.67	42.86 450.01	35.35 457.52	46.20 446.67	43.18 449.69	42.40 450.47	57.83 435.04	52.09 440.78	57.10 435.77	49.20 443.67	39.25 453.62	40.76 452.11	50.09 442.78	57.31 435.56	55.11 437.76	55.09 437.78	
OW-4A	485.16		24.05 461.11	38.63 446.53	37.16 448.00	30.80 454.36	40.91 444.25	37.70 447.46	36.91 448.25	*51.98* *433.18*	47.52 437.64	50.90 434.26	50.58 434.58	35.60 449.56	35.80 449.36	44.15 441.01	50.10 435.06	49.30 435.86	44.74 440.42	
OW-4B	486.51	486.13	25.33 460.80	39.90 446.23	38.55 447.58	32.26 453.87	42.20 443.93	39.09 447.04	38.14 447.99	*53.11* *433.02*	48.61 437.52	52.09 434.04	49.85 436.28	37.06 449.07	37.15 448.98	45.50 440.63	51.40 434.73	50.61 435.52	45.89 440.24	
OW-4C	485.95		24.18 461.77	28.90 457.05	37.69 448.26	31.25 454.70	41.29 444.66	38.15 447.80	37.15 448.80	52.52 433.43	47.76 438.19	51.35 434.60	*98.69* *387.26*	36.07 449.88	36.16 449.79	44.63 441.32	50.85 435.10	49.87 436.08	45.11 440.84	
GF-32	446.16	445.47	23.36 422.11	29.61 415.86	33.62 411.85	35.58 409.89	29.51 415.96	40.84 404.63	38.55 406.92	34.57 410.90	38.51 406.96	41.55 403.92	38.80 406.67	30.39 415.08	38.53 406.94	41.62 403.85	40.98 404.49	40.96 404.51	37.43 408.04	
GF-34	444.67	443.96	32.80 411.16	34.65 409.31	33.79 410.17	34.40 409.56	38.20 405.76	37.48 406.48	35.81 408.15		36.81 407.15	39.63 404.33	37.49 406.47	32.79 411.17	37.47 406.49	40.66 403.30	38.99 404.97	37.89 406.07	36.46 407.50	
GF-35	452.18		15.02 437.16	22.09 430.09	21.12 431.06	17.32 434.86	23.20 428.98	22.51 429.67	20.42 431.76	26.20 425.98	23.88 428.30	30.45 421.73	30.48 421.70	19.26 432.92	20.21 431.97	27.20 424.98	28.92 423.26	*37.10* *415.08*	26.19 425.99	

NOTES:

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LE 4
Progre... aste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
OW GF Wells
Water-Level Summary

Well	TOC Steel Elevation	TOC PVC Elevation	04Q09	01Q10	02Q10	03Q10	04Q10	01Q11	02Q11	03Q11	04Q11	01Q12	02Q12	03Q12	04Q12	01Q13	02Q13	03Q13	04Q13	01Q14
OW-1A	498.74	498.45	54.99	44.14	40.38	51.21	55.20	42.94	35.00	37.81	33.24	40.80	47.31	54.10	52.17	44.70	42.41	46.84	53.50	44.22
			443.46	454.31	458.07	447.24	443.25	455.51	463.45	460.64	465.21	457.65	451.14	444.35	446.28	453.75	456.04	451.90	445.24	454.52
OW-1B	498.71		54.34	43.60	40.08	50.81	54.75	42.45	34.69	37.44	**32.90**	40.51	46.85	53.50	51.73	44.28	41.87	46.52	53.35	43.86
			444.37	455.11	458.63	447.90	443.96	456.26	464.02	461.27	**465.81**	458.20	451.86	445.21	446.98	454.43	456.84	452.19	445.36	454.85
OW-1C	499.76		55.78	45.39	41.65	52.14	56.02	44.23	36.29	39.32	34.61	42.00	47.35	54.90	53.05	45.81	43.51	47.91	54.25	45.39
			443.98	454.37	458.11	447.62	443.74	455.53	463.47	460.44	465.15	457.76	452.41	444.86	446.71	453.95	456.25	451.85	445.51	454.37
OW-3B	495.32		53.22	47.33	45.28	52.94	53.93	47.38	43.59	44.45	42.16	45.83	49.76	54.80	52.75	47.24	46.37	50.20	59.10	47.32
			442.10	447.99	450.04	442.38	441.39	447.94	451.73	450.87	453.16	449.49	445.56	440.52	442.57	448.08	448.95	445.12	436.22	448.00
OW-3C	493.27	492.87	48.83	38.11	34.64	45.35	49.30	36.95	29.25	31.90	27.44	35.08	41.38	48.00	46.24	38.78	36.42	41.12	*59.98*	38.77
			444.04	454.76	458.23	447.52	443.57	455.92	463.62	460.97	465.43	457.79	451.49	444.87	446.63	454.09	456.45	452.15	*433.29*	454.50
OW-4A	485.16		43.14	34.05	30.07	39.56	42.73	32.03	24.81	28.29	23.90	30.28	36.49	42.63	39.90	33.90	31.91	36.03	41.46	33.20
			442.02	451.11	455.09	445.60	442.43	453.13	460.35	456.87	461.26	454.88	448.67	442.53	445.26	451.26	453.25	449.13	443.70	451.96
OW-4B	486.51	486.13	44.55	35.50	31.43	40.96	44.08	33.43	26.11	29.83	25.32	31.64	37.85	44.00	41.26	35.33	33.40	37.37	42.65	34.69
			441.58	450.63	454.70	445.17	442.05	452.70	460.02	456.30	460.81	454.49	448.28	442.13	444.87	450.80	452.73	449.14	443.86	451.82
OW-4C	485.95		43.86	34.72	30.41	40.10	43.36	32.71	25.02	28.96	24.24	30.64	37.00	43.20	40.51	34.55	32.68	36.46	40.96	33.65
			442.09	451.23	455.54	445.85	442.59	453.24	460.93	456.99	461.71	455.31	448.95	442.75	445.44	451.40	453.27	449.49	444.99	452.30
GF-32	446.16	445.47	37.61	29.70	38.31	42.60	36.39	28.90	36.35	27.81	31.05	36.00	36.80	39.40	37.28	34.16	35.27	41.69	*43.61*	40.07
			407.86	415.77	407.16	402.87	409.08	416.57	409.12	417.66	414.42	409.47	408.67	406.07	408.19	411.31	410.20	404.47	*402.55*	406.09
GF-34	444.67	443.96	37.01	33.07	36.33	*40.92*	36.62	32.60	34.92	33.15	33.02	35.00	36.23	39.29	36.59	33.85	35.08	39.20	40.90	34.49
			406.95	410.89	407.63	*403.04*	407.34	411.36	409.04	410.81	410.94	408.96	407.73	404.67	407.37	410.11	408.88	405.47	403.77	410.18
GF-35	452.18		23.96	18.62	17.66	24.34	24.95	18.88	15.82	16.20	14.46	17.61	21.11	25.90	23.92	19.24	17.85	21.73	22.68	35.42
			428.22	433.56	434.52	427.84	427.23	433.30	436.36	435.98	437.72	434.57	431.07	426.28	428.26	432.94	434.33	430.45	429.50	416.76

NOTES:

All measurements are in feet, unless otherwise noted.
Bolded numbers represent highest water level/water level elevation for the number of measurements listed.
*Designates the water level elevations used in the Composite Highest Groundwater Elevation Contour Map - June 2014.

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Progr[illegible]aste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
OW GF Wells
Water-Level Summary

Well	TOC Steel Elevation	TOC PVC Elevation	02Q14
OW-1A	498.74	498.45	**33.24** **465.50**
OW-1B	498.71		32.91 465.80
OW-1C	499.76		**34.53** **465.23**
OW-3B	495.32		**42.09** **453.23**
OW-3C	493.27	492.87	**27.45** **465.82**
OW-4A	485.16		**23.61** **461.55**
OW-4B	486.51	486.13	**25.09** **461.42**
OW-4C	485.95		**24.06** **461.89**
GF-32	446.16	445.47	33.28 412.88
GF-34	444.67	443.96	33.60 411.07
GF-35	452.18		**14.39** **437.79**

NOTES:

All measurements are in feet, unless otherwise noted.
Bolded numbers represent highest water level/water level elevation for the number of measurements listed.
*Designates the water level elevations used in the Composite Highest Groundwater Elevation Contour Map - June 2014.

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Progre Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
OW GF Wells
Water-Level Summary

Well	TOC Steel Elevation	TOC PVC Elevation	*Lowest Water Level Water-Level Elevation (feet)*	**Highest Water Level Water-Level Elevation (feet)**	Maximum Fluctuation (feet)	Total Number of Measurements
OW-1A	498.74	498.45	64.25 434.20	33.24 465.50	31.01	52
OW-1B	498.71		63.34 435.37	32.90* 465.81*	30.44	54
OW-1C	499.76		64.70 435.06	34.53 465.23	30.17	54
OW-3B	495.32		61.49 433.83	42.09 453.23	19.40	53
OW-3C	493.27	492.87	59.98 433.29	27.45* 465.82*	32.53	53
OW-4A	485.16		51.98 433.18	23.61 461.55	28.37	54
OW-4B	486.51	486.13	53.11 433.02	25.09 461.42	28.02	54
OW-4C	485.95		98.69 387.26	24.06* 461.89*	74.63	54
GF-32	446.16	445.47	43.61 402.55	20.37 425.10	23.24	53
GF-34	444.67	443.96	40.92 403.04	31.92 412.04	9.00	52
GF-35	452.18		37.10 415.08	14.39 437.79	22.71	52

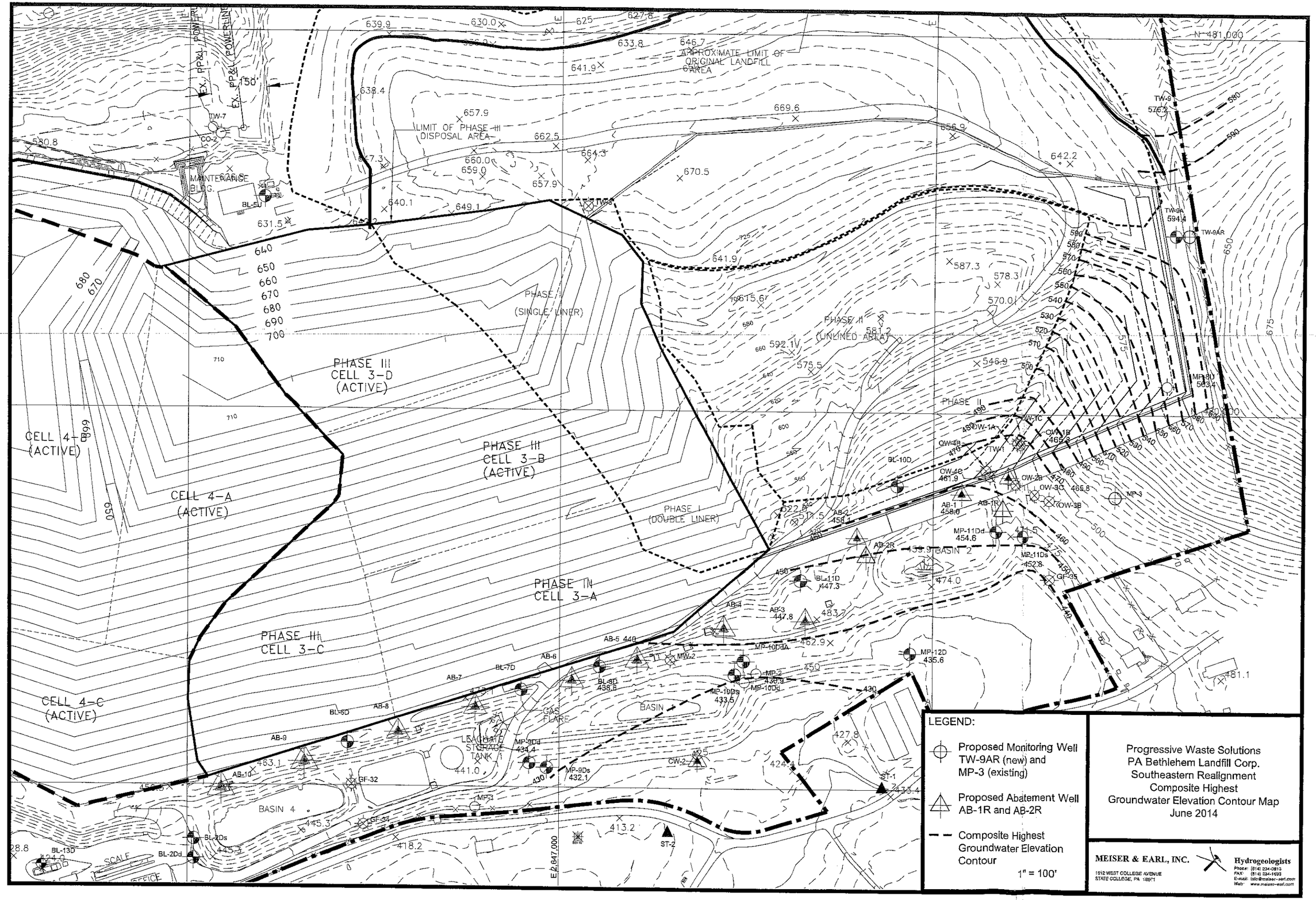
NOTES:

All measurements are in feet, unless otherwise noted.
Bolded numbers represent highest water level/water level elevation for the number of measurements listed.
*Designates the water level elevations used in the Composite Highest Groundwater Elevation Contour Map - June 2014.

TABLE 5
Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
Highest Water-Level Elevations

Well No.	Earliest Date in Water-Level Tables (feet)	Number of Water-Level Measurements	Highest Water-Level Elevation (1)
BL-8D	03Q00	48	438.6
BL-11D	03Q00	50	447.3
MP-2	02Q05	33	430.9
MP-8U	01Q01	53	563.4
MP-9Ds	03Q00	47	432.1
MP-9Dd	03Q00	56	434.4
MP-10DDs	03Q00	56	433.5
MP-11Ds	03Q00	56	452.8
MP-11Dd	03Q00	56	454.6
MP-12D	03Q00	56	435.6
TW-9	01Q04	38	576.2
TW-9A	03Q00	56	594.4
AB-1	03Q00	55	458.0
AB-2	03Q00	54	458.1
AB-3	03Q00	54	447.8
OW-1B	04Q00	54	465.8
OW-3C	04Q00	53	465.8
OW-4C	04Q00	54	461.9

(1) Water-level elevation used in Composite Highest Groundwater Elevation Contour Map, June 2014.



LEGEND:

- Proposed Monitoring Well TW-9AR (new) and MP-3 (existing)
- Proposed Abatement Well AB-1R and AB-2R
- Composite Highest Groundwater Elevation Contour

1" = 100'

Progressive Waste Solutions
PA Bethlehem Landfill Corp.
Southeastern Realignment
Composite Highest
Groundwater Elevation Contour Map
June 2014

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