

ATTACHMENT IV
SUMMARY OF HISTORICAL STATIC WATER LEVEL DATA (TABLE 1) AND
GROUNDWATER FLOW RATE CALCULATIONS

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-1A	534.84	05/02/2001	5.27	529.57
		01/31/2002	6.25	528.59
		06/24/2002	7.15	527.69
		01/13/2003	4.61	530.23
		11/18/2003	4.72	530.12
		05/10/2004	4.98	529.86
		11/01/2004	5.81	529.03
		05/03/2005	5.50	529.34
		11/14/2005	6.00	528.84
		05/15/2006	5.78	529.06
		11/27/2006	4.59	530.25
		05/07/2007	5.41	529.43
		11/26/2007	7.60	527.24
		06/11/2008	5.67	529.17
		12/01/2008	6.68	528.16
		06/08/2009	4.81	530.03
		12/01/2009	6.24	528.60
		11/29/2010	6.72	528.12
		05/02/2011	4.75	530.09
		10/03/2011	5.15	529.69
		04/16/2012	5.80	529.04
		10/04/2012	7.63	527.21
		04/15/2013	5.02	529.82
		10/14/2013	8.77	526.07
		04/07/2014	4.75	530.09
		10/13/2014	7.78	527.06
		04/07/2015	5.07	529.77
		10/12/2015	6.30	528.54
		04/04/2016	5.32	529.52
		10/03/2016	8.01	526.83
		04/04/2017	6.01	528.83
		10/02/2017	7.96	526.88
		04/02/2018	5.74	529.10
		09/25/2018	7.27	527.57
		04/01/2019	3.86	530.98

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Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251**

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-1B	532.44	05/09/2000	4.26	528.18
		11/07/2000	5.14	527.30
		05/02/2001	5.17	527.27
		12/17/2001	5.34	527.10
		01/31/2002	5.45	526.99
		05/14/2002	5.52	526.92
		06/24/2002	5.75	526.69
		11/04/2002	5.90	526.54
		01/13/2003	4.49	527.95
		07/18/2003	4.59	527.85
		11/18/2003	4.58	527.86
		05/10/2004	4.37	528.07
		11/01/2004	5.07	527.37
		05/03/2005	4.48	527.96
		11/14/2005	5.26	527.18
		05/15/2006	6.91	525.53
		11/27/2006	5.81	526.63
		05/07/2007	6.95	525.49
		11/26/2007	5.65	526.79
		06/11/2008	4.79	527.65
		12/01/2008	4.98	527.46
		06/08/2009	3.87	528.57
		12/01/2009	4.60	527.84
		06/07/2010	4.87	527.57
		11/29/2010	5.29	527.15
		05/02/2011	3.87	528.57
		10/03/2011	4.40	528.04
		04/16/2012	4.57	527.87
		10/02/2012	5.43	527.01
		04/15/2013	4.20	528.24
		10/14/2013	4.23	528.21
		04/07/2014	3.81	528.63
		10/13/2014	6.00	526.44
		04/07/2015	4.12	528.32
		10/12/2015	4.65	527.79
		04/04/2016	4.25	528.19
		10/03/2016	5.07	527.37
		04/04/2017	3.94	528.50
		10/02/2017	7.13	525.31
		04/02/2018	4.43	528.01
		09/25/2018	3.66	528.78
		04/01/2019	3.90	528.54
		10/14/2019	6.54	525.90
		04/28/2019	3.80	528.64
		10/19/2020	4.33	528.30

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			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-1C	537.30	12/01/2008	13.18	524.12
		01/20/2009	13.34	523.96
		06/08/2009	12.87	524.43
		12/01/2009	13.13	524.17
		06/07/2010	13.30	524.00
		11/29/2010	13.61	523.69
		05/02/2011	12.91	524.39
		10/03/2011	13.20	524.10
		04/16/2012	13.40	523.90
		10/02/2012	13.53	523.77
		04/15/2013	13.17	524.13
		10/14/2013	13.00	524.30
		04/07/2014	13.03	524.27
		10/13/2014	14.78	522.52
		04/07/2015	13.27	524.03
		10/12/2015	13.68	523.62
		04/04/2016	13.44	523.86
		10/03/2016	14.00	523.30
		04/04/2017	13.42	523.88
		10/02/2017	16.50	520.80
		04/02/2018	13.73	523.57
		09/25/2018	12.94	524.36
		04/01/2019	13.50	523.80
		10/14/2019	14.81	522.49
		04/28/2020	13.48	523.82
		10/19/2020	13.85	524.37
MW-1D	522.01	11/29/2010	17.35	504.66
		05/02/2011	17.35	504.66
		10/03/2011	15.90	506.11
		04/16/2012	15.79	506.22
		10/03/2012	18.63	503.38
		04/15/2013	14.81	507.20
		10/14/2013	16.51	505.50
		04/07/2014	14.11	507.90
		10/13/2014	18.23	503.78
		04/07/2015	14.80	507.21
		10/12/2015	16.71	505.30
		04/04/2016	15.07	506.94
		10/03/2016	17.91	504.10
		04/04/2017	15.28	506.73
		10/02/2017	20.07	501.94
		04/02/2018	16.70	505.31
		09/25/2018	15.25	506.76
		04/01/2019	14.60	507.41
		10/14/2019	19.02	502.99
		04/28/2020	14.32	507.69
		10/19/2020	15.28	506.77

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Historical Groundwater Elevation Table
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			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-1E	517.05	11/29/2010	18.00	499.05
		05/02/2011	15.40	501.65
		10/03/2011	19.50	497.55
		04/16/2012	17.47	499.58
		10/03/2012	23.79	493.26
		04/15/2013	19.27	497.78
		10/14/2013	18.10	498.95
		04/07/2014	17.93	499.12
		10/13/2014	17.96	499.09
		04/07/2015	15.80	501.25
		10/12/2015	17.81	499.24
		04/04/2016	15.81	501.24
		10/03/2016	17.93	499.12
		04/04/2017	16.94	500.11
		10/02/2017	20.12	496.93
		04/02/2018	18.79	498.26
		09/25/2018	16.53	500.52
		04/01/2019	14.70	502.35
		10/14/2019	18.45	498.60
		MW-1F	516.96	06/22/2011
04/28/2020	17.65			499.40
10/19/2020	18.32			500.53
06/02/2011	13.50			503.46
10/03/2011	17.10			499.86
04/16/2012	14.97			501.99
10/03/2012	18.92			498.04
04/15/2013	14.95			502.01
10/14/2013	15.58			501.38
04/07/2014	12.95			504.01
10/13/2014	15.57			501.39
04/07/2015	13.75			503.21
10/12/2015	15.25	501.71		
04/04/2016	13.51	503.45		
10/03/2016	15.39	501.57		
04/04/2017	14.66	502.30		
10/02/2017	17.70	499.26		
04/02/2018	15.92	501.04		
09/25/2018	13.74	503.22		
04/01/2019	11.75	505.21		
10/14/2019	15.64	501.32		
04/28/2020	13.62	503.34		
10/20/2020	16.78	503.23		

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			Depth to Water ft btoc	Groundwater Elevation ft msl		
Well ID	TOC Elevation	Date				
MW-1G	508.93	10/03/2011	34.00	474.93		
		04/16/2012	16.61	492.32		
		10/03/2012	10.31	498.62		
		04/15/2013	7.35	501.58		
		10/14/2013	8.24	500.69		
		04/07/2014	5.52	503.41		
		10/13/2014	7.31	501.62		
		04/07/2015	6.00	502.93		
		10/12/2015	8.12	500.81		
		04/04/2016	5.55	503.38		
		10/03/2016	7.60	501.33		
		04/04/2017	7.21	501.72		
		10/02/2017	9.66	499.27		
		04/02/2018	8.20	500.73		
		09/25/2018	6.21	502.72		
		04/01/2019	4.10	504.83		
		10/14/2019	7.92	501.01		
		04/29/2020	6.35	502.58		
		10/19/2020	6.81	504.84		
		MW-1H	504.23	10/03/2012	5.74	498.49
04/15/2013	3.06			501.17		
10/14/2013	3.47			500.76		
04/07/2014	0.98			503.25		
10/13/2014	5.43			498.80		
04/07/2015	3.31			500.92		
10/12/2015	6.61			497.62		
04/04/2016	2.29			501.94		
10/03/2016	3.65			500.58		
04/04/2017	4.90			499.33		
10/02/2017	7.19			497.04		
04/02/2018	5.43			498.80		
09/25/2018	5.11			499.12		
04/01/2019	0			504.23		
10/14/2019	3.78			500.45		
04/28/2020	1.53			502.70		
10/19/2020	2.51			497.05		
MW-1I	488.02			10/02/2012	0	488.02
				04/15/2013	0	488.02
				10/14/2013	0	488.02
		04/07/2014	0	488.02		
		10/13/2014	0	488.02		
		04/07/2015	0	488.02		
		10/12/2015	0	488.02		
		04/04/2016	0	488.02		
		10/03/2016	0	488.02		
		04/04/2017	0	488.02		
		10/02/2017	0	488.02		
		04/02/2018	0	488.02		
		09/25/2018	0	488.02		
		04/01/2019	0	488.02		
		10/14/2019	0	488.02		
		04/28/2020	0	488.02		
		10/19/2020	0	488.02		

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-2A	525.64	05/09/2000	8.02	517.62
		05/02/2001	8.22	517.42
		12/17/2001	8.52	517.12
		01/31/2002	8.55	517.09
		06/24/2002	9.31	516.33
		01/13/2003	7.35	518.29
		07/18/2003	7.82	517.82
		11/18/2003	7.58	518.06
		05/10/2004	7.53	518.11
		11/01/2004	8.45	517.19
		05/03/2005	7.49	518.15
		11/14/2005	9.17	516.47
		05/15/2006	8.25	517.39
		11/27/2006	7.77	517.87
		05/07/2007	8.64	517.00
		11/26/2007	11.56	514.08
		06/11/2008	8.62	517.02
		12/01/2008	9.12	516.52
		06/08/2009	7.56	518.08
		12/01/2009	8.06	517.58
		06/07/2010	8.83	516.81
		11/29/2010	9.20	516.44
		05/02/2011	7.67	517.97
		04/16/2012	8.76	516.88
		10/04/2012	9.26	516.38
		10/14/2013	6.90	518.74
		04/07/2014	7.89	517.75
		10/13/2014	10.13	515.51
		04/07/2015	8.10	517.54
		10/12/2015	8.93	516.71
		04/04/2016	8.36	517.28
		10/03/2016	10.91	514.73
		04/04/2017	7.75	517.89
		10/02/2017	11.15	514.49
		04/02/2018	8.33	517.31
		09/25/2018	10.68	514.96
		04/01/2019	8.01	517.63

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-2B	532.01	05/09/2000	16.55	515.46
		11/07/2000	18.71	513.30
		05/02/2001	18.00	514.01
		12/17/2001	19.18	512.83
		01/31/2002	19.23	512.78
		05/14/2002	18.42	513.59
		06/24/2002	19.30	512.71
		11/04/2002	19.89	512.12
		01/13/2003	18.10	513.91
		07/18/2003	16.11	515.90
		11/18/2003	17.28	514.73
		05/10/2004	17.08	514.93
		11/01/2004	18.70	513.31
		05/03/2005	17.49	514.52
		11/14/2005	19.33	512.68
		05/15/2006	18.58	513.43
		11/27/2006	18.61	513.40
		05/07/2007	18.46	513.55
		11/26/2007	20.87	511.14
		06/11/2008	18.58	513.43
		12/01/2008	20.11	511.90
		06/08/2009	18.14	513.87
		12/01/2009	19.69	512.32
		06/07/2010	18.64	513.37
		11/29/2010	20.04	511.97
		05/02/2011	18.12	513.89
		10/03/2011	19.10	512.91
		04/16/2012	18.41	513.60
		10/02/2012	20.91	511.10
		04/15/2013	18.36	513.65
		10/14/2013	19.48	512.53
		04/07/2014	17.69	514.32
		10/13/2014	19.96	512.05
		04/07/2015	18.05	513.96
		10/12/2015	20.04	511.97
		04/04/2016	17.98	514.03
		10/03/2016	19.51	512.50
		04/04/2017	18.90	513.11
		10/02/2017	20.95	511.06
		04/02/2018	18.84	513.17
		09/25/2018	18.80	513.21
		04/01/2019	17.30	514.71
		10/14/2019	19.99	512.02
		04/28/2020	18.75	513.26
		10/19/2020	18.89	513.12

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-3	517.63	05/09/2000	9.78	507.85
		11/07/2000	11.60	506.03
		05/02/2001	9.65	507.98
		12/17/2001	11.28	506.35
		01/31/2002	11.13	506.50
		06/24/2002	11.85	505.78
		01/13/2003	8.69	508.94
		07/18/2003	9.05	508.58
		11/18/2003	8.66	508.97
		11/29/2010	14.86	502.77
		05/02/2011	11.16	506.47
		10/03/2011	13.30	504.33
		04/16/2012	13.14	504.49
		10/03/2012	16.44	501.19
		04/15/2013	12.08	505.55
		10/14/2013	14.14	503.49
		04/07/2014	11.42	506.21
		10/13/2014	15.75	501.88
		04/07/2015	12.05	505.58
		10/12/2015	14.10	503.53
		04/04/2016	12.36	505.27
		10/03/2016	15.40	502.23
		04/04/2017	12.61	505.02
		10/02/2017	17.58	500.05
		04/02/2018	14.02	503.61
		09/25/2018	12.78	504.85
		04/01/2019	11.81	505.82
		10/14/2019	16.54	501.09
		04/28/2020	11.55	506.08
		10/19/2020	13.10	504.86

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-3A	527.04	05/09/2000	7.45	519.59
		11/07/2000	10.89	516.15
		05/02/2001	8.00	519.04
		12/17/2001	10.91	516.13
		01/31/2002	11.32	515.72
		05/14/2002	9.46	517.58
		06/24/2002	11.49	515.55
		11/04/2002	11.29	515.75
		01/13/2003	5.76	521.28
		07/18/2003	5.30	521.74
		11/18/2003	4.68	522.36
		05/10/2004	4.16	522.88
		11/01/2004	8.45	518.59
		05/03/2005	5.15	521.89
		11/14/2005	8.61	518.43
		05/15/2006	7.23	519.81
		11/27/2006	5.63	521.41
		05/07/2007	7.14	519.90
		11/26/2007	12.98	514.06
		06/11/2008	7.55	519.49
		12/01/2008	12.55	514.49
		01/20/2009	10.30	516.74
		06/08/2009	5.32	521.72
		12/01/2009	10.80	516.24
		06/07/2010	10.63	516.41
		11/29/2010	13.00	514.04
		05/02/2011	5.50	521.54
		10/03/2011	10.00	517.04
		04/16/2012	8.70	518.34
		10/02/2012	15.31	511.73
		04/15/2013	6.82	520.22
		10/14/2013	8.77	518.27
		04/07/2014	5.39	521.65
		10/13/2014	12.81	514.23
		04/07/2015	6.81	520.23
		10/12/2015	12.75	514.29
		04/04/2016	7.13	519.91
		10/03/2016	12.46	514.58
		04/04/2017	9.25	517.79
		10/02/2017	14.94	512.10
		04/02/2018	11.99	515.05
		09/25/2018	7.09	519.95
		04/01/2019	5.75	521.29
		10/14/2019	12.17	514.87
		04/28/2020	4.70	522.34
		10/19/2020	8.88	515.06

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			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-4	617.56	05/09/2000	39.20	578.36
		11/07/2000	38.93	578.63
		05/02/2001	40.16	577.40
		12/17/2001	39.31	578.25
		01/31/2002	40.08	577.48
		05/14/2002	41.97	575.59
		06/24/2002	41.07	576.49
		11/04/2002	41.05	576.51
		01/13/2003	39.99	577.57
		07/18/2003	33.05	584.51
		11/18/2003	33.08	584.48
		05/10/2004	30.50	587.06
		11/01/2004	32.31	585.25
		05/03/2005	33.22	584.34
		11/14/2005	34.28	583.28
		05/15/2006	36.71	580.85
	618.02	11/27/2006	37.35	580.67
		05/07/2007	37.55	580.47
		11/26/2007	38.10	579.92
		06/11/2008	39.85	578.17
		12/01/2008	39.90	578.12
		06/08/2009	39.82	578.20
		12/01/2009	40.32	577.70
		06/07/2010	36.81	581.21
		11/29/2010	38.17	579.85
		05/02/2011	39.02	579.00
		10/03/2011	38.50	579.52
		04/16/2012	38.40	579.62
		10/02/2012	38.90	579.12
		04/15/2013	38.80	579.22
		10/14/2013	36.92	581.10
		04/07/2014	36.13	581.89
		10/13/2014	33.97	584.05
		04/07/2015	36.90	581.12
		10/12/2015	37.65	580.37
		04/04/2016	36.95	581.07
		10/03/2016	36.66	581.36
		04/04/2017	38.43	579.59
		10/02/2017	39.05	578.97
		04/02/2018	40.83	577.19
		09/25/2018	40.21	577.81
		04/01/2019	33.50	584.52
		10/14/2019	34.78	582.78
		04/28/2020	38.05	579.97
		10/19/2020	38.02	577.82

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			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-4A	514.25	05/09/2000	31.03	483.22
		11/07/2000	32.46	481.79
		05/02/2001	32.46	481.79
		12/17/2001	32.45	481.80
		01/31/2002	32.47	481.78
		06/24/2002	32.50	481.75
		01/13/2003	32.52	481.73
		07/18/2003	18.42	495.83
		11/18/2003	18.29	495.96
		05/10/2004	17.40	496.85
		11/01/2004	24.15	490.10
MW-5	561.23	05/09/2000	8.64	552.59
		11/07/2000	9.45	551.78
		05/02/2001	9.08	552.15
		12/17/2001	9.59	551.64
		01/31/2002	9.64	551.59
		06/24/2002	9.85	551.38
		01/13/2003	7.97	553.26
		11/18/2003	7.92	553.31
		05/10/2004	8.06	553.17
		11/01/2004	9.23	552.00
		05/03/2005	8.05	553.18
		11/14/2005	9.21	552.02
		05/15/2006	9.29	551.94
		11/27/2006	7.67	553.56
		05/07/2007	9.12	552.11
		11/26/2007	9.80	551.43
		06/11/2008	8.93	552.30
		12/01/2008	9.36	551.87
		06/08/2009	7.76	553.47
		12/01/2009	8.43	552.80
		06/07/2010	9.66	551.57
		11/29/2010	9.35	551.88
		05/02/2011	7.70	553.53
		10/03/2011	8.20	553.03
		04/16/2012	9.52	551.71
		10/02/2012	9.38	551.85
		04/15/2013	7.88	553.35
		10/14/2013	6.90	554.33
		04/07/2014	8.17	553.06
		10/13/2014	10.42	550.81
		04/07/2015	8.45	552.78
10/12/2015	9.71	551.52		
04/04/2016	8.93	552.30		
10/03/2016	9.96	551.27		
04/04/2017	7.28	553.95		
10/02/2017	11.93	549.30		
04/02/2018	8.84	552.39		
09/25/2018	6.15	555.08		
04/01/2019	8.48	552.75		
10/14/2019	10.59	550.64		
04/28/2020	6.70	554.53		
10/19/2020	8.59	555.09		

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-6	632.02	05/09/2000	46.28	585.74
		11/07/2000	46.47	585.55
		05/02/2001	47.58	584.44
		12/17/2001	47.97	584.05
		01/31/2002	48.49	583.53
		06/24/2002	49.70	582.32
		01/13/2003	49.93	582.09
		11/18/2003	39.92	592.10
		11/01/2004	36.92	595.10
		05/03/2005	38.52	593.50
		11/14/2005	39.22	592.80
		05/15/2006	41.06	590.96
		11/27/2006	42.57	589.45
		05/07/2007	42.49	589.53
		11/26/2007	43.81	588.21
		06/11/2008	45.70	586.32
		12/02/2008	46.61	585.41
		06/08/2009	Dry	--
		12/01/2009	Dry	--
		06/07/2010	44.25	587.77
		11/29/2010	45.50	586.52
		05/02/2011	47.41	584.61
		10/03/2011	47.10	584.92
		04/16/2012	44.92	587.10
		10/02/2012	46.34	585.68
		04/15/2013	Dry	--
		10/14/2013	45.00	587.02
		04/07/2014	43.52	588.50
		10/13/2014	39.25	592.77
		04/07/2015	42.95	589.07
		10/12/2015	44.18	587.84
		04/04/2016	43.60	588.42
		10/03/2016	42.76	589.26
		04/04/2017	45.71	586.31
		10/02/2017	46.92	585.10
		04/02/2018	Dry	--
		09/25/2018	Dry	--
		04/01/2019	43.60	588.42
		10/14/2019	39.12	592.90
		04/28/2020	42.70	589.32
		10/19/2020	43.37	588.43

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-7	634.58	05/09/2000	28.88	605.70
		11/07/2000	34.15	600.43
		05/02/2001	30.73	603.85
		12/17/2001	35.61	598.97
		01/31/2002	37.61	596.97
		06/24/2002	38.56	596.02
		01/13/2003	31.70	602.88
		07/18/2003	17.24	617.34
		11/18/2003	18.45	616.13
		05/10/2004	15.30	619.28
		11/01/2004	24.57	610.01
		05/03/2005	17.65	616.93
		11/14/2005	26.79	607.79
		05/15/2006	24.69	609.89
		11/27/2006	26.41	608.17
		05/07/2007	22.11	612.47
		11/26/2007	33.26	601.32
		06/11/2008	66.61	567.97
		06/08/2009	28.82	605.76
		12/01/2009	37.13	597.45
		11/29/2010	34.15	600.43
		05/02/2011	25.19	609.39
		04/16/2012	25.55	609.03
		10/04/2012	33.85	600.73
		04/15/2013	26.95	607.63
		10/14/2013	26.60	607.98
		04/07/2014	17.92	616.66
		10/13/2014	25.91	608.67
		04/07/2015	26.25	608.33
		10/12/2015	30.79	603.79
		04/04/2016	29.84	604.74
		10/03/2016	27.02	607.56
		04/04/2017	25.91	608.67
		10/02/2017	28.04	606.54
		04/02/2018	26.71	607.87
		09/25/2018	27.51	607.07
		04/01/2019	20.19	614.39

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-20	509.95	05/09/2000	34.34	475.61
		11/07/2000	36.73	473.22
		05/02/2001	34.85	475.10
		12/17/2001	37.31	472.64
		01/31/2002	37.41	472.54
		05/14/2002	36.91	473.04
		06/24/2002	37.53	472.42
		11/04/2002	39.44	470.51
		01/13/2003	38.87	471.08
		07/18/2003	29.91	480.04
		11/18/2003	29.31	480.64
		05/10/2004	27.62	482.33
		11/01/2004	32.80	477.15
		05/03/2005	29.81	480.14
		11/14/2005	34.46	475.49
		05/15/2006	32.67	477.28
		11/27/2006	35.25	474.70
		05/07/2007	31.61	478.34
		11/26/2007	37.36	472.59
		06/11/2008	35.60	474.35
		12/01/2008	38.13	471.82
		03/09/2009	37.32	472.63
		06/08/2009	35.83	474.12
		09/09/2009	36.45	473.50
		12/01/2009	37.23	472.72
		06/07/2010	31.84	478.11
		11/29/2010	37.17	472.78
		05/02/2011	35.45	474.50
		10/03/2011	36.55	473.40
		04/16/2012	32.54	477.41
		10/04/2012	37.87	472.08
		04/15/2013	35.00	474.95
		10/14/2013	35.29	474.66
		04/07/2014	31.82	478.13
		10/13/2014	34.00	475.95
		04/07/2015	33.75	476.20
		10/12/2015	36.00	473.95
		04/04/2016	31.64	478.31
		10/03/2016	34.39	475.56
		04/04/2017	35.35	474.60
		10/02/2017	35.88	474.07
		04/02/2018	37.21	472.74
		09/25/2018	37.10	472.85
		04/01/2019	36.11	473.84
		10/14/2019	34.09	475.86
		04/29/2020	32.80	477.15
	Resample	5/18/2020	32.31	477.64
		10/20/2020	34.97	

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-X1	607.29	05/09/2000	29.08	578.21
		11/07/2000	30.24	577.05
		05/02/2001	29.68	577.61
		12/17/2001	31.57	575.72
		01/31/2002	32.02	575.27
		06/24/2002	32.91	574.38
		01/13/2003	32.44	574.85
		07/18/2003	26.20	581.09
		11/18/2003	26.12	581.17
		05/10/2004	23.73	583.56
		11/01/2004	25.46	581.83
		05/03/2005	23.26	584.03
		11/14/2005	25.67	581.62
		05/15/2006	26.01	581.28
		11/27/2006	25.80	581.49
		05/07/2007	25.78	581.51
		11/26/2007	29.51	577.78
		06/11/2008	28.57	578.72
		12/01/2008	31.56	575.73
		06/08/2009	30.17	577.12
		12/01/2009	32.52	574.77
		06/07/2010	28.40	578.89
		11/29/2010	31.53	575.76
		05/02/2011	30.05	577.24
		10/03/2011	37.00	570.29
		04/16/2012	29.02	578.27
		10/02/2012	32.05	575.24
		04/15/2013	30.86	576.43
		10/14/2013	30.06	577.23
		04/07/2014	27.30	579.99
		10/13/2014	27.96	579.33
		04/07/2015	27.82	579.47
		10/12/2015	29.20	578.09
		04/04/2016	26.94	580.35
		10/03/2016	27.97	579.32
		04/04/2017	29.97	577.32
		10/02/2017	30.97	576.32
		04/02/2018	33.07	574.22
		09/25/2018	30.84	576.45
		04/01/2019	25.30	581.99
		10/14/2019	27.29	580.00
		04/28/2020	26.60	580.69
		10/19/2020	27.41	581.100

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-X2	573.63	05/09/2000	7.69	565.94
		11/07/2000	8.93	564.70
		05/02/2001	7.97	565.66
		12/17/2001	8.44	565.19
		01/31/2002	8.85	564.78
		06/24/2002	9.45	564.18
		01/13/2003	6.13	567.50
		11/18/2003	5.87	567.76
		05/10/2004	5.82	567.81
		11/01/2004	7.45	566.18
		05/03/2005	5.85	567.78
		11/14/2005	7.52	566.11
		05/15/2006	7.21	566.42
		11/27/2006	5.13	568.50
		05/07/2007	7.22	566.41
		11/26/2007	8.76	564.87
		06/11/2008	6.92	566.71
		12/01/2008	6.39	567.24
		03/09/2009	7.08	566.55
		06/08/2009	5.43	568.20
		09/09/2009	8.61	565.02
		12/01/2009	4.50	569.13
		06/07/2010	6.97	566.66
		11/29/2010	7.57	566.06
		05/02/2011	4.11	569.52
		10/03/2011	6.60	567.03
		04/16/2012	6.68	566.95
		10/03/2012	3.71	569.92
		04/15/2013	4.72	568.91
		10/14/2013	4.06	569.57
		04/07/2014	4.26	569.37
		10/13/2014	7.77	565.86
		04/07/2015	3.85	569.78
		10/12/2015	6.24	567.39
		04/04/2016	4.70	568.93
		10/03/2016	6.82	566.81
		04/04/2017	3.95	569.68
		10/02/2017	4.18	569.45
		04/02/2018	4.22	569.41
		09/25/2018	4.58	569.05
		04/01/2019	4.00	569.63
		10/14/2019	7.33	566.30
		04/28/2020	3.97	569.66
		10/19/2020	4.80	569.12

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-X2D	570.60	12/01/2008	61.29	509.31
		06/08/2009	62.50	508.10
		12/01/2009	63.04	507.56
		06/07/2010	62.13	508.47
		11/29/2010	60.20	510.40
		05/02/2011	61.95	508.65
		10/03/2011	62.40	508.20
		04/16/2012	61.98	508.62
		10/02/2012	62.00	508.60
		04/15/2013	61.56	509.04
		10/14/2013	61.83	508.77
		04/07/2014	61.50	509.10
		10/13/2014	61.76	508.84
		04/07/2015	61.85	508.75
		10/12/2015	61.90	508.70
		04/04/2016	61.52	509.08
		10/03/2016	61.48	509.12
		04/04/2017	61.17	509.43
		10/02/2017	61.38	509.22
		04/02/2018	61.22	509.38
		09/25/2018	61.16	509.44
		04/01/2019	59.60	511.00
		10/14/2019	58.19	512.41
		04/28/2020	61.16	509.44
		10/19/2020	61.94	509.50

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-X3	583.40	05/09/2000	7.74	575.66
		11/07/2000	9.53	573.87
		05/02/2001	8.17	575.23
		12/17/2001	10.67	572.73
		01/31/2002	11.22	572.18
		06/24/2002	11.71	571.69
		01/13/2003	6.56	576.84
		07/18/2003	6.15	577.25
		11/18/2003	5.88	577.52
		05/10/2004	6.12	577.28
		11/01/2004	7.29	576.11
		05/03/2005	6.31	577.09
		11/14/2005	7.67	575.73
		05/15/2006	7.78	575.62
		11/27/2006	5.70	577.70
		05/07/2007	7.60	575.80
		11/26/2007	10.85	572.55
		06/11/2008	7.04	576.36
		12/01/2008	9.74	573.66
		06/08/2009	5.87	577.53
		12/01/2009	7.95	575.45
		11/29/2010	9.78	573.62
		05/02/2011	6.16	577.24
		04/16/2012	8.20	575.20
		10/04/2012	10.80	572.60
		04/15/2013	6.69	576.71
		10/14/2013	7.28	576.12
		04/07/2014	5.98	577.42
		10/13/2014	10.51	572.89
		04/07/2015	6.68	576.72
		04/04/2016	6.97	576.43
		10/03/2016	11.61	571.79
		04/04/2017	6.80	576.60
		10/02/2017	10.96	572.44
		04/02/2018	6.89	576.51
		09/25/2018	10.65	572.75
		04/01/2019	5.14	578.26

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
MW-X4	582.73	05/09/2000	10.98	571.75
		11/07/2000	13.77	568.96
		05/02/2001	11.69	571.04
		12/17/2001	15.16	567.57
		01/31/2002	15.41	567.32
		06/24/2002	15.11	567.62
		01/13/2003	10.72	572.01
		07/18/2003	9.05	573.68
		11/18/2003	8.26	574.47
		11/01/2004	11.33	571.40
		05/03/2005	8.35	574.38
		11/14/2005	11.82	570.91
		05/15/2006	10.69	572.04
		11/27/2006	9.01	573.72
		05/07/2007	10.15	572.58
		11/26/2007	15.60	567.13
		06/11/2008	11.15	571.58
		12/01/2008	15.78	566.95
		12/01/2009	14.89	567.84
		11/29/2010	15.89	566.84
		05/02/2011	15.89	566.84
		04/16/2012	11.50	571.23
		10/04/2012	15.33	567.40
		04/15/2013	10.60	572.13
		10/14/2013	12.30	570.43
		04/07/2014	8.88	573.85
		10/13/2014	14.61	568.12
		04/07/2015	10.60	572.13
		10/12/2015	13.57	569.16
		04/04/2016	10.55	572.18
		10/03/2016	15.91	566.82
		04/04/2017	12.16	570.57
		10/02/2017	16.04	566.69
		04/02/2018	13.11	569.62
		09/25/2018	15.29	567.44
		04/01/2019	10.12	572.61

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
PZ-1E	616.67	05/09/2000	39.08	577.59
		11/07/2000	38.79	577.88
		05/02/2001	39.63	577.04
		12/17/2001	38.50	578.17
		01/31/2002	39.21	577.46
		06/24/2002	39.89	576.78
		01/13/2003	39.09	577.58
		07/18/2003	33.56	583.11
		11/18/2003	33.62	583.05
		05/10/2004	32.08	584.59
	11/01/2004	33.76	582.91	
	05/03/2005	34.11	582.56	
	11/14/2005	35.00	581.67	
	05/15/2006	36.21	580.46	
	11/27/2006	38.70	580.57	
	05/07/2007	38.50	580.77	
	11/26/2007	39.10	580.17	
	06/11/2008	40.29	578.98	
	12/01/2008	38.30	580.97	
	06/08/2009	41.04	578.23	
12/01/2009	40.63	578.64		
11/29/2010	38.85	580.42		
05/02/2011	39.91	579.36		
04/16/2012	39.05	580.22		
10/02/2012	39.01	580.26		
04/15/2013	39.78	579.49		
10/14/2013	37.76	581.51		
04/07/2014	37.16	582.11		
10/13/2014	36.66	582.61		
04/07/2015	38.39	580.88		
10/12/2015	38.00	581.27		
04/04/2016	37.86	581.41		
10/03/2016	38.02	581.25		
04/04/2017	39.76	579.51		
10/02/2017	39.69	579.58		
04/02/2018	41.62	577.65		
09/25/2018	39.12	580.15		
04/01/2019	36.41	582.86		
PZ-2	486.25	05/09/2000	26.46	459.79
		11/07/2000	31.59	454.66
		05/02/2001	37.70	448.55
		12/17/2001	31.83	454.42
		01/31/2002	31.95	454.30
		06/24/2002	32.30	453.95
		01/13/2003	31.55	454.70
		11/18/2003	27.98	458.27
		05/10/2004	27.81	458.44
		11/01/2004	29.98	456.27

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
PZ-3	481.27	05/09/2000	19.27	462.00
		11/07/2000	20.65	460.62
		05/02/2001	19.26	462.01
		12/17/2001	20.96	460.31
		01/31/2002	21.00	460.27
		06/24/2002	23.69	457.58
		01/13/2003	20.05	461.22
		11/18/2003	34.08	447.19
		05/10/2004	14.61	466.66
		11/01/2004	17.30	463.97
PZ-3E	588.44	05/09/2000	20.82	567.62
		11/07/2000	16.83	571.61
		05/02/2001	21.33	567.11
		12/17/2001	21.03	567.41
		01/31/2002	21.67	566.77
		06/24/2002	23.76	564.68
		01/13/2003	23.06	565.38
		07/18/2003	20.10	568.34
		11/18/2003	19.77	568.67
		05/10/2004	19.08	569.36
		11/01/2004	20.48	567.96
		05/03/2005	19.71	568.73
		11/14/2005	21.09	567.35
		05/15/2006	21.17	567.27
		11/27/2006	21.41	567.03
		05/07/2007	20.89	567.55
		11/26/2007	23.00	565.44
		06/11/2008	22.11	566.33
		12/01/2008	23.66	564.78
		06/08/2009	22.35	566.09
		12/01/2009	23.53	564.91
		11/29/2010	23.33	565.11
		05/02/2011	22.11	566.33
		04/16/2012	21.20	567.24
		10/04/2012	23.65	564.79
		04/15/2013	22.25	566.19
		10/14/2013	22.46	565.98
		04/07/2014	20.90	567.54
10/13/2014	22.05	566.39		
04/07/2015	21.84	566.60		
10/12/2015	22.82	565.62		
04/04/2016	21.40	567.04		
10/03/2016	23.16	565.28		
04/04/2017	23.63	564.81		
10/02/2017	23.88	564.56		
04/02/2018	24.46	563.98		
09/25/2018	23.62	564.82		
04/01/2019	20.40	568.04		

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
PZ-4	483.03	05/09/2000	28.27	454.76
		12/17/2001	30.46	452.57
		01/31/2002	30.44	452.59
		06/24/2002	31.00	452.03
		01/13/2003	29.93	453.10
		11/18/2003	24.28	458.75
		05/10/2004	23.07	459.96
		11/01/2004	26.25	456.78
PZ-4E	591.21	05/09/2000	21.55	569.66
		11/07/2000	23.15	568.06
		05/02/2001	22.00	569.21
		12/17/2001	24.17	567.04
		01/31/2002	24.62	566.59
		06/24/2002	24.78	566.43
		01/13/2003	23.86	567.35
		07/18/2003	19.33	571.88
		11/18/2003	18.95	572.26
		05/10/2004	18.40	572.81
		11/01/2004	19.92	571.29
		05/03/2005	19.14	572.07
		11/14/2005	21.66	569.55
		05/15/2006	20.45	570.76
		11/27/2006	20.99	570.22
		05/07/2007	19.83	571.38
		11/26/2007	23.98	567.23
		06/11/2008	22.01	569.20
		12/01/2008	24.31	566.90
		01/20/2009	24.33	566.88
		03/09/2009	23.53	567.68
		06/08/2009	21.91	569.30
		09/09/2009	23.02	568.19
		12/01/2009	24.30	566.91
		06/07/2010	21.37	569.84
		11/29/2010	24.80	566.41
		05/02/2011	22.90	568.31
		10/03/2011	23.30	567.91
		04/16/2012	20.79	570.42
		10/03/2012	24.50	566.71
		04/15/2013	22.02	569.19
		10/14/2013	22.30	568.91
04/07/2014	19.70	571.51		
10/13/2014	22.35	568.86		
04/07/2015	21.76	569.45		
10/12/2015	23.30	567.91		
04/04/2016	20.81	570.40		
10/03/2016	22.39	568.82		
04/04/2017	23.45	567.76		
10/02/2017	22.81	568.40		
04/02/2018	25.68	565.53		
09/25/2018	23.00	568.21		
04/01/2019	19.65	571.56		
10/14/2019	22.78	568.43		
04/29/2020	21.15	570.06		

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
		10/20/2020	22.21	565.54

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
PZ-9	539.73	05/09/2000	41.95	497.78
PZ-10	516.59	05/09/2000	48.06	468.53
		11/07/2000	48.49	468.10
		05/02/2001	48.42	468.17
		12/17/2001	48.16	468.43
		01/31/2002	48.78	467.81
		06/24/2002	49.39	467.20
		01/13/2003	49.76	466.83
		11/18/2003	40.08	476.51
		05/10/2004	37.64	478.95
		11/01/2004	40.17	476.42
PZ-15	521.30	05/09/2000	13.81	507.49
		11/07/2000	17.48	503.82
		05/02/2001	14.52	506.78
		12/17/2001	17.44	503.86
		01/31/2002	17.53	503.77
		06/24/2002	17.89	503.41
		01/13/2003	14.55	506.75
		07/18/2003	11.11	510.19
		11/18/2003	11.30	510.00
		11/01/2004	14.20	507.10
PZ-17	499.06	05/09/2000	32.82	466.24
		11/07/2000	33.82	465.24
		05/02/2001	32.72	466.34
		01/31/2002	33.69	465.37
		06/24/2002	34.22	464.84
		01/13/2003	33.31	465.75
		11/18/2003	31.52	467.54
		05/10/2004	31.14	467.92
		11/01/2004	33.05	466.01
PZ-19	482.38	05/09/2000	28.43	453.95
		11/07/2000	28.86	453.52
		05/02/2001	28.41	453.97
		12/17/2001	28.96	453.42
		01/31/2002	28.94	453.44
		06/24/2002	29.24	453.14
		01/13/2003	28.50	453.88
		11/18/2003	27.98	454.40
		05/10/2004	27.94	454.44
		11/01/2004	28.66	453.72
PZ-21	481.17	05/09/2000	11.94	469.23
		11/07/2000	15.11	466.06
		05/02/2001	11.84	469.33
		12/17/2001	15.50	465.67
		01/31/2002	15.42	465.75
		06/24/2002	16.45	464.72
		01/13/2003	13.09	468.08
		11/18/2003	7.02	474.15
		05/10/2004	7.37	473.80
		11/01/2004	11.11	470.06

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl	
Well ID	TOC Elevation	Date			
PZ-22	491.60	05/09/2000	18.54	473.06	
		11/07/2000	23.56	468.04	
		05/02/2001	19.29	472.31	
		12/17/2001	25.40	466.20	
		01/31/2002	25.95	465.65	
		06/24/2002	25.35	466.25	
		01/13/2003	23.39	468.21	
		11/18/2003	9.78	481.82	
		11/01/2004	16.87	474.73	
CLF-1	619.43	01/31/2002	36.13	583.30	
		06/24/2002	37.59	581.84	
		01/13/2003	37.22	582.21	
		07/18/2003	30.95	588.48	
		11/18/2003	28.38	591.05	
		05/10/2004	25.39	594.04	
		11/01/2004	25.60	593.83	
		05/03/2005	27.16	592.27	
		618.37	12/01/2008	34.22	584.15
			06/08/2009	35.50	582.87
	12/01/2009		35.60	582.77	
	06/07/2010		32.07	586.30	
	11/29/2010		33.15	585.22	
	05/02/2011		35.05	583.32	
	10/03/2011		34.10	584.27	
	04/16/2012		32.50	585.87	
	10/02/2012		33.87	584.50	
	04/15/2013		35.60	582.77	
	10/14/2013		32.60	585.77	
	04/07/2014	31.11	587.26		
	10/13/2014	27.23	591.14		
04/07/2015	30.71	587.66			
10/12/2015	31.91	586.46			
04/04/2016	31.20	587.17			
10/03/2016	30.80	587.57			
04/04/2017	33.35	585.02			
10/02/2017	34.44	583.93			
04/02/2018	37.00	581.37			
09/25/2018	36.54	581.83			
04/01/2019	30.96	587.41			
10/14/2019	27.00	591.37			
04/28/2020	30.42	587.95			
10/19/2020	30.97	581.84			
CLF-2A	519.23	01/31/2002	11.58	507.65	
		06/24/2002	12.03	507.20	
		01/13/2003	9.04	510.19	
		07/18/2003	7.58	511.65	
		11/18/2003	7.60	511.63	
		05/10/2004	7.75	511.48	
11/01/2004	9.53	509.70			

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-6A	600.72	01/31/2002	25.89	574.83
		06/24/2002	26.34	574.38
		01/13/2003	24.96	575.76
		07/18/2003	20.09	580.63
		11/18/2003	19.48	581.24
		05/10/2004	18.32	582.40
		11/01/2004	20.94	579.78
		05/03/2005	18.49	582.23
		11/14/2005	21.80	578.92
		05/15/2006	21.01	579.71
		11/27/2006	21.30	579.42
		05/07/2007	20.81	579.91
		11/26/2007	25.66	575.06
		06/11/2008	23.20	577.52
		12/01/2008	26.90	573.82
		06/08/2009	23.90	576.82
		12/01/2009	27.15	573.57
		11/29/2010	27.25	573.47
		05/02/2011	24.00	576.72
		04/16/2012	22.82	577.90
		10/04/2012	27.68	573.04
		04/15/2013	23.93	576.79
		10/14/2013	24.55	576.17
		04/07/2014	21.20	579.52
		10/13/2014	24.30	576.42
		04/07/2015	22.35	578.37
		10/12/2015	24.81	575.91
		04/04/2016	21.47	579.25
		10/03/2016	26.12	574.60
		04/04/2017	24.37	576.35
		10/02/2017	30.72	570.00
		04/02/2018	25.63	575.09
		09/25/2018	28.94	571.78
		04/01/2019	20.40	580.32

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-9A	662.98	01/31/2002	88.97	574.01
		06/24/2002	92.28	570.70
		01/13/2003	91.16	571.82
		07/18/2003	83.40	579.58
		11/18/2003	80.58	582.40
		05/10/2004	77.05	585.93
		11/01/2004	80.58	582.40
		05/03/2005	80.82	582.16
		11/14/2005	80.91	582.07
		05/15/2006	80.43	582.55
		11/27/2006	85.88	577.10
		05/07/2007	80.38	582.60
		11/26/2007	83.05	579.93
		06/11/2008	83.03	579.95
		12/01/2008	85.85	577.13
		06/08/2009	86.35	576.63
		12/01/2009	87.09	575.89
		11/29/2010	86.33	576.65
		05/02/2011	85.45	577.53
		04/16/2012	86.82	576.16
10/04/2012	95.58	567.40		
04/15/2013	94.88	568.10		
10/14/2013	90.37	572.61		
04/07/2014	88.92	574.06		
10/13/2014	86.61	576.37		
04/07/2015	85.19	577.79		
10/12/2015	88.17	574.81		
04/04/2016	84.36	578.62		
10/03/2016	86.91	576.07		
04/04/2017	75.04	587.94		
10/02/2017	84.77	578.21		
04/02/2018	77.64	585.34		
09/25/2018	84.23	578.75		
04/01/2019	75.00	587.98		
CLF-12A	621.55	01/31/2002	42.12	579.43
		06/24/2002	43.22	578.33
		01/13/2003	43.87	577.68
		07/18/2003	35.90	585.65
		11/18/2003	32.86	588.69
		05/10/2004	30.72	590.83
		11/01/2004	33.71	587.84
		05/03/2005	33.63	587.92
		11/14/2005	35.60	585.95
		05/15/2006	36.58	584.97
11/27/2006	38.44	583.11		
05/07/2007	37.11	584.44		
11/26/2007	40.01	581.54		
06/11/2008	41.84	579.71		

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-12AR	620.97	12/01/2008	44.16	576.81
		03/09/2009	44.83	576.14
		06/08/2009	44.07	576.90
		09/09/2009	43.00	577.97
		12/01/2009	44.40	576.57
		06/07/2010	38.64	582.33
		11/29/2010	41.98	578.99
		05/02/2011	42.90	578.07
		10/03/2011	43.00	577.97
		04/16/2012	40.84	580.13
		10/02/2012	43.82	577.15
		04/15/2013	44.34	576.63
		10/14/2013	41.81	579.16
		04/07/2014	39.91	581.06
		10/13/2014	37.71	583.26
		04/07/2015	40.71	580.26
		10/12/2015	41.95	579.02
		04/04/2016	40.24	580.73
		10/03/2016	37.07	583.90
		04/04/2017	43.61	577.36
		10/02/2017	43.60	577.37
		04/02/2018	46.77	574.20
		09/25/2018	42.77	578.20
		04/01/2019	36.10	584.87

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-15A	588.85	01/31/2002	21.96	566.89
		06/24/2002	21.93	566.92
		01/13/2003	22.54	566.31
		07/18/2003	18.69	570.16
		11/18/2003	15.95	572.90
		05/10/2004	15.97	572.88
		11/01/2004	18.84	570.01
		05/03/2005	16.85	572.00
		11/14/2005	19.58	569.27
		05/15/2006	18.45	570.40
		11/27/2006	17.72	571.13
		05/07/2007	17.70	571.15
		11/26/2007	25.63	563.22
		06/11/2008	19.01	569.84
		12/01/2008	51.27	537.58
		03/09/2009	49.20	539.65
		06/08/2009	47.22	541.63
		09/09/2009	47.46	541.39
		12/01/2009	48.55	540.30
		06/07/2010	52.50	536.35
		11/29/2010	61.95	526.90
		05/02/2011	47.77	541.08
		10/03/2011	47.10	541.75
		04/16/2012	46.70	542.15
		10/03/2012	53.25	535.60
		04/15/2013	52.54	536.31
		10/14/2013	48.28	540.57
		04/07/2014	53.68	535.17
		10/13/2014	51.16	537.69
		04/07/2015	47.00	541.85
		10/12/2015	47.45	541.40
		04/04/2016	52.28	536.57
		10/03/2016	44.10	544.75
		04/04/2017	47.67	541.18
		10/02/2017	46.01	542.84
		04/02/2018	48.22	540.63
		09/25/2018	51.20	537.65
		04/01/2019	40.30	548.55
		10/14/2019	42.90	545.95
		04/29/2020	49.20	539.65
		10/20/2020	50.20	537.66

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-15B	590.41	06/24/2002	23.00	567.41
		01/13/2003	21.50	568.91
		07/18/2003	17.81	572.60
		11/18/2003	16.49	573.92
		05/10/2004	15.66	574.75
		11/01/2004	18.91	571.50
		05/03/2005	16.17	574.24
		11/14/2005	19.84	570.57
		05/15/2006	18.42	571.99
		11/27/2006	18.59	571.82
		05/07/2007	17.80	572.61
		11/26/2007	22.80	567.61
		06/11/2008	20.11	570.30
		12/01/2008	23.41	567.00
		06/08/2009	19.89	570.52
		12/01/2009	23.31	567.10
		11/29/2010	23.73	566.68
		05/02/2011	20.55	569.86
		04/16/2012	19.42	570.99
		10/04/2012	23.72	566.69
		04/15/2013	20.30	570.11
		10/14/2013	21.25	569.16
		04/07/2014	17.75	572.66
		10/13/2014	21.68	568.73
		04/07/2015	19.95	570.46
		10/12/2015	22.50	567.91
		04/04/2016	18.70	571.71
		10/03/2016	20.71	569.70
		04/04/2017	18.76	571.65
		10/02/2017	21.18	569.23
		04/02/2018	19.21	571.20
		09/25/2018	20.60	569.81
		04/01/2019	14.83	575.58

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-E1	616.99	06/24/2002	33.80	583.19
		01/13/2003	33.41	583.58
		07/18/2003	20.89	596.10
		11/18/2003	20.30	596.69
		05/10/2004	17.44	599.55
		11/01/2004	22.87	594.12
		05/03/2005	20.90	596.09
		11/14/2005	24.94	592.05
		05/15/2006	25.51	591.48
		11/27/2006	27.37	589.62
		05/07/2007	24.00	592.99
		11/26/2007	29.55	587.44
		06/11/2008	29.05	587.94
		12/01/2008	31.56	585.43
		06/08/2009	30.05	586.94
		12/01/2009	31.07	585.92
		11/29/2010	29.30	587.69
		05/02/2011	28.44	588.55
		04/16/2012	25.62	591.37
		10/02/2012	30.19	586.80
		04/15/2013	29.45	587.54
		10/15/2013	27.29	589.70
		04/07/2014	22.69	594.30
		10/13/2014	23.95	593.04
		04/07/2015	26.70	590.29
		10/12/2015	28.63	588.36
		04/04/2016	25.01	591.98
		10/03/2016	24.41	592.58
		04/04/2017	30.47	586.52
		10/02/2017	28.17	588.82
		04/02/2018	33.83	583.16
		09/25/2018	28.10	588.89
		04/01/2019	17.82	599.17

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-E1S	619.40	06/24/2002	36.41	582.99
		01/13/2003	36.91	582.49
		07/18/2003	24.09	595.31
		11/18/2003	22.68	596.72
		05/10/2004	19.59	599.81
		11/01/2004	24.80	594.60
		05/03/2005	23.18	596.22
		11/14/2005	27.08	592.32
		05/15/2006	19.95	599.45
		11/27/2006	30.25	589.15
		05/07/2007	27.05	592.35
		11/26/2007	31.74	587.66
		06/11/2008	32.15	587.25
		12/01/2008	34.22	585.18
		06/08/2009	33.57	585.83
		12/01/2009	34.08	585.32
		11/29/2010	31.61	587.79
		05/02/2011	31.91	587.49
		04/16/2012	27.98	591.42
		10/02/2012	32.55	586.85
		04/15/2013	32.65	586.75
		10/14/2013	29.83	589.57
		04/07/2014	25.34	594.06
		10/13/2014	25.76	593.64
		04/07/2015	29.18	590.22
		10/12/2015	31.69	587.71
		04/04/2016	27.56	591.84
		10/03/2016	25.10	594.30
		04/04/2017	33.90	585.50
		10/02/2017	27.91	591.49
		04/02/2018	36.80	582.60
		09/25/2018	27.11	592.29
		04/01/2019	21.60	597.80

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-E2S	606.38	06/24/2002	42.40	563.98
		01/13/2003	42.65	563.73
		07/18/2003	32.15	574.23
		11/18/2003	31.40	574.98
		05/10/2004	29.93	576.45
		11/01/2004	34.02	572.36
		05/03/2005	32.47	573.91
		11/14/2005	35.62	570.76
		05/15/2006	35.54	570.84
		11/27/2006	37.66	568.72
		05/07/2007	35.15	571.23
		11/26/2007	39.81	566.57
		06/11/2008	39.71	566.67
		12/01/2008	41.74	564.64
		03/09/2009	43.00	563.38
		06/08/2009	40.40	565.98
		09/09/2009	40.08	566.30
		12/01/2009	41.64	564.74
		06/07/2010	34.78	571.60
		11/29/2010	39.40	566.98
		05/02/2011	39.10	567.28
		10/03/2011	40.00	566.38
		04/16/2012	37.37	569.01
		10/02/2012	41.73	564.65
		04/15/2013	40.31	566.07
		10/14/2013	38.85	567.53
		04/07/2014	35.67	570.71
		10/13/2014	36.00	570.38
		04/07/2015	17.90	588.48
		10/12/2015	39.52	566.86
		04/04/2016	36.49	569.89
		10/03/2016	37.12	569.26
		04/04/2017	36.19	570.19
		10/02/2017	38.01	568.37
		04/02/2018	41.11	565.27
		09/25/2018	37.27	569.11
		04/01/2019	31.30	575.08

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-E3	600.07	07/18/2003	17.55	582.52
		11/18/2003	17.22	582.85
		05/10/2004	17.75	582.32
		11/01/2004	21.04	579.03
		05/03/2005	19.45	580.62
		11/14/2005	22.26	577.81
		05/15/2006	22.30	577.77
		11/27/2006	20.95	579.12
		05/07/2007	21.71	578.36
		11/26/2007	26.48	573.59
		06/11/2008	23.00	577.07
		12/01/2008	26.90	573.17
		06/08/2009	22.63	577.44
		12/01/2009	26.17	573.90
		11/29/2010	25.92	574.15
		05/02/2011	22.40	577.67
		10/03/2011	24.05	576.02
		04/16/2012	22.65	577.42
		10/02/2012	25.35	574.72
		04/15/2013	24.00	576.07
		10/14/2013	22.80	577.27
		04/07/2014	20.40	579.67
		10/13/2014	22.88	577.19
		04/07/2015	22.09	577.98
		10/12/2015	24.20	575.87
		04/04/2016	21.65	578.42
		10/03/2016	21.15	578.92
		04/04/2017	20.34	579.73
		10/02/2017	21.15	578.92
		04/02/2018	22.07	578.00
		09/25/2018	20.62	579.45
		04/01/2019	14.62	585.45

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-E3D	559.10	12/01/2008	8.25	550.85
		03/09/2009	7.85	551.25
		06/08/2009	3.89	555.21
		09/09/2009	9.61	549.49
		12/01/2009	7.04	552.06
		06/07/2010	5.20	553.90
		05/02/2011	15.10	544.00
		10/03/2011	13.75	545.35
		04/16/2012	13.75	545.35
		10/02/2012	12.31	546.79
		04/15/2013	11.06	548.04
		10/14/2013	9.13	549.97
		04/07/2014	9.94	549.16
		10/13/2014	15.15	543.95
		04/07/2015	11.94	547.16
		10/12/2015	13.69	545.41
		04/04/2016	12.31	546.79
		10/03/2016	16.08	543.02
		04/04/2017	10.90	548.20
		10/02/2017	15.12	543.98
04/02/2018	14.00	545.10		
09/25/2018	14.55	544.55		
04/01/2019	9.28	549.82		
CLF-E3S	559.17	07/18/2003	6.05	553.12
		11/18/2003	4.95	554.22
		05/10/2004	5.12	554.05
		11/01/2004	7.47	551.70
		05/03/2005	4.22	554.95
		11/14/2005	7.40	551.77
		05/15/2006	6.82	552.35
		11/27/2006	4.06	555.11
		05/07/2007	6.75	552.42
		11/26/2007	9.46	549.71
		06/11/2008	6.75	552.42
		12/01/2008	8.45	550.72
		06/08/2009	4.02	555.15
		12/01/2009	6.95	552.22
		05/02/2011	10.40	548.77
		04/16/2012	15.45	543.72
		10/02/2012	13.97	545.20
		04/15/2013	12.58	546.59
		10/14/2013	10.58	548.59
		04/07/2014	11.94	547.23
10/13/2014	17.04	542.13		
04/07/2015	14.00	545.17		
10/12/2015	15.13	544.04		
04/04/2016	14.53	544.64		
10/03/2016	16.89	542.28		
04/04/2017	11.17	548.00		
10/02/2017	15.55	543.62		
04/02/2018	14.20	544.97		
09/25/2018	14.81	544.36		
04/01/2019	9.35	549.82		

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-E4	549.03	12/01/2008	10.10	538.93
		06/08/2009	6.66	542.37
		12/01/2009	8.29	540.74
		06/07/2010	9.29	539.74
		11/29/2010	10.35	538.68
		05/02/2011	6.85	542.18
		10/03/2011	8.85	540.18
		04/16/2012	9.15	539.88
		10/04/2012	10.65	538.38
		04/15/2013	7.15	541.88
		10/14/2013	6.85	542.18
		04/07/2014	6.68	542.35
		10/13/2014	11.89	537.14
		04/07/2015	7.21	541.82
		10/12/2015	8.92	540.11
		04/04/2016	8.51	540.52
		10/03/2016	11.02	538.01
		04/04/2017	7.00	542.03
		10/02/2017	11.81	537.22
		04/02/2018	7.74	541.29
		09/25/2018	11.55	537.48
		04/01/2019	6.10	542.93

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-S1	557.28	06/24/2002	7.30	549.98
		01/13/2003	3.88	553.40
		07/18/2003	0	557.28
		11/18/2003	0	557.28
		05/10/2004	0	557.28
		11/01/2004	0.25	557.03
		05/03/2005	0	557.28
		11/14/2005	0.78	556.50
		05/15/2006	0	557.28
		11/27/2006	0	557.28
		05/07/2007	0	557.28
		11/26/2007	2.30	554.98
		06/11/2008	0	557.28
		12/01/2008	1.79	555.49
		06/08/2009	0	557.28
		12/01/2009	1.26	556.02
		11/29/2010	3.59	553.69
		05/02/2011	5.30	551.98
		10/03/2011	1.90	555.38
		04/16/2012	4.40	552.88
		10/03/2012	67.17	490.11
		04/15/2013	84.67	472.61
		10/14/2013	84.05	473.23
		04/07/2014	89.43	467.85
		10/13/2014	89.95	467.33
		04/07/2015	89.65	467.63
		10/12/2015	87.88	469.40
		04/04/2016	84.36	472.92
		10/03/2016	81.03	476.25
		04/04/2017	88.21	469.07
		10/02/2017	82.16	475.12
		04/02/2018	79.50	477.78
		09/25/2018	90.11	467.17
		04/01/2019	79.30	477.98
		10/14/2019	53.65	503.63
		04/29/2020	74.06	483.22
		10/20/2020	78.36	477.79

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-S2	562.89	06/24/2002	9.26	553.63
		01/13/2003	4.82	558.07
		07/18/2003	3.85	559.04
		11/18/2003	3.40	559.49
		05/10/2004	3.79	559.10
		11/01/2004	5.93	556.96
		05/03/2005	3.64	559.25
		11/14/2005	6.26	556.63
		05/15/2006	4.84	558.05
		11/27/2006	3.87	559.02
		05/07/2007	5.00	557.89
		11/26/2007	10.32	552.57
		06/11/2008	4.96	557.93
		12/01/2008	8.61	554.28
		06/08/2009	3.47	559.42
		12/01/2009	6.68	556.21
		11/29/2010	9.38	553.51
		05/02/2011	3.62	559.27
		04/16/2012	5.18	557.71
		10/04/2012	9.50	553.39
		04/15/2013	3.85	559.04
		10/14/2013	4.70	558.19
		04/07/2014	2.85	560.04
		10/13/2014	9.18	553.71
		04/01/2019	3.40	559.49

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-S3	571.23	07/18/2003	15.88	555.35
		11/18/2003	15.70	555.53
		05/10/2004	16.07	555.16
		11/01/2004	18.63	552.60
		05/03/2005	16.46	554.77
		11/14/2005	19.05	552.18
		05/15/2006	17.75	553.48
		11/27/2006	16.09	555.14
		05/07/2007	17.35	553.88
		11/26/2007	23.03	548.20
		06/11/2008	17.58	553.65
		12/01/2008	21.44	549.79
		06/08/2009	16.01	555.22
		12/01/2009	19.82	551.41
		06/07/2010	18.60	552.63
		11/29/2010	22.38	548.85
		05/02/2011	17.05	554.18
		10/03/2011	19.55	551.68
		04/16/2012	19.22	552.01
		10/03/2012	23.40	547.83
		04/15/2013	18.40	552.83
		10/14/2013	19.54	551.69
		04/07/2014	16.78	554.45
		10/13/2014	23.13	548.10
		04/07/2015	18.35	552.88
		10/12/2015	21.21	550.02
		04/04/2016	18.53	552.70
		10/03/2016	21.80	549.43
		04/04/2017	18.95	552.28
		10/02/2017	22.48	548.75
		04/02/2018	12.21	559.02
		09/25/2018	17.52	553.71
		04/01/2019	17.00	554.23
		10/14/2019	23.89	547.34
		04/29/2020	17.09	554.14
		10/20/2020	19.22	552.29

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-W1	657.92	06/24/2002	62.82	595.10
		01/13/2003	61.44	596.48
		07/18/2003	41.26	616.66
		11/18/2003	46.22	611.70
		05/10/2004	39.19	618.73
		11/01/2004	52.82	605.10
		05/03/2005	44.63	613.29
		11/14/2005	54.21	603.71
		05/15/2006	53.19	604.73
		11/27/2006	52.65	605.27
		05/07/2007	49.25	608.67
		11/26/2007	56.08	601.84
		06/11/2008	54.90	603.02
		12/01/2008	57.60	600.32
		06/08/2009	49.31	608.61
		12/01/2009	57.25	600.67
		11/29/2010	55.70	602.22
		05/02/2011	47.86	610.06
		04/16/2012	47.73	610.19
		10/04/2012	51.93	605.99
		04/15/2013	48.57	609.35
		10/14/2013	46.60	611.32
		04/07/2014	35.35	622.57
		10/13/2014	48.03	609.89
		04/07/2015	51.06	606.86
		10/12/2015	52.08	605.84
		04/04/2016	44.16	613.76
		10/03/2016	48.19	609.73
		04/04/2017	47.15	610.77
		10/02/2017	48.61	609.31
		04/02/2018	48.07	609.85
		09/25/2018	47.85	610.07
		04/01/2019	44.20	613.72

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-W2	662.24	01/13/2003	48.32	613.92
		07/18/2003	26.02	636.22
		11/18/2003	27.75	634.49
		05/10/2004	24.17	638.07
		11/01/2004	34.23	628.01
		05/03/2005	30.32	631.92
		11/14/2005	37.20	625.04
		05/15/2006	37.33	624.91
		11/27/2006	41.29	620.95
		05/07/2007	33.10	629.14
		11/26/2007	41.94	620.30
		06/11/2008	43.32	618.92
		12/01/2008	45.00	617.24
		06/08/2009	44.02	618.22
		12/01/2009	44.28	617.96
		11/29/2010	42.03	620.21
		05/02/2011	41.30	620.94
		04/16/2012	33.60	628.64
		10/04/2012	40.90	621.34
		04/15/2013	39.20	623.04
		10/14/2013	33.40	628.84
		04/07/2014	26.61	635.63
		10/13/2014	33.36	628.88
		04/07/2015	38.70	623.54
		10/12/2015	40.10	622.14
		04/04/2016	32.38	629.86
		10/03/2016	31.92	630.32
		04/04/2017	30.64	631.60
		10/02/2017	31.98	630.26
		04/02/2018	30.89	631.35
		09/25/2018	31.20	631.04
		04/01/2019	24.88	637.36

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-W3	651.61	01/13/2003	24.73	626.88
		07/18/2003	4.02	647.59
		11/18/2003	5.17	646.44
		05/10/2004	2.11	649.50
		11/01/2004	10.89	640.72
		05/03/2005	5.12	646.49
		11/14/2005	13.72	637.89
		05/15/2006	11.24	640.37
		11/27/2006	15.62	635.99
		05/07/2007	8.40	643.21
		11/26/2007	19.60	632.01
		06/11/2008	16.25	635.36
		12/01/2008	21.78	629.83
		06/08/2009	16.98	634.63
		12/01/2009	21.52	630.09
		11/29/2010	19.99	631.62
		05/02/2011	13.77	637.84
		04/16/2012	9.70	641.91
		10/04/2012	19.44	632.17
		04/15/2013	12.82	638.79
		10/14/2013	10.25	641.36
		04/07/2014	3.06	648.55
		10/13/2014	12.00	639.61
		04/07/2015	11.99	639.62
		10/12/2015	15.53	636.08
		04/04/2016	7.05	644.56
		10/03/2016	11.61	640.00
		04/04/2017	6.80	644.81
		10/02/2017	11.48	640.13
		04/02/2018	8.34	643.27
		09/25/2018	11.12	640.49
		04/01/2019	7.40	644.21

Table 1
Historical Groundwater Elevation Table
Closed Laurel Valley Center Sanitary Landfill, Permit No. 251

			Depth to Water ft btoc	Groundwater Elevation ft msl
Well ID	TOC Elevation	Date		
CLF-W4	678.26	01/13/2003	70.57	607.69
		07/18/2003	49.02	629.24
		11/18/2003	48.59	629.67
		05/10/2004	42.06	636.20
		11/01/2004	53.01	625.25
		05/03/2005	49.68	628.58
		11/14/2005	57.06	621.20
		05/15/2006	58.96	619.30
		11/27/2006	64.12	614.14
		05/07/2007	57.25	621.01
		11/26/2007	63.05	615.21
		06/11/2008	66.03	612.23
		12/01/2008	67.43	610.83
		06/08/2009	68.54	609.72
		12/01/2009	67.99	610.27
		11/29/2010	63.35	614.91
		05/02/2011	65.09	613.17
		04/16/2012	58.86	619.40
		10/04/2012	63.54	614.72
		04/15/2013	64.86	613.40
		10/14/2013	57.28	620.98
		04/07/2014	49.67	628.59
		10/13/2014	53.57	624.69
		04/07/2015	60.94	617.32
		10/12/2015	63.31	614.95
		10/03/2016	53.12	625.14
		04/04/2017	52.31	625.95
		10/02/2017	56.29	621.97
		04/02/2018	54.27	623.99
		09/25/2018	55.71	622.55
		04/01/2019	50.32	627.94

Note:

ft btoc - feet below top of casing

ft msl - feet above mean sea level

Data collected prior to October 2019 was not verified by Golder

GROUNDWATER FLOW EVALUATION

Historical static water level data for the Facility are summarized in Table 1. The groundwater surface contour overlay presented on Drawing 2 was prepared using static water level data measured on April 1, 2019. The data indicate that the general groundwater flow direction remains consistent with previous monitoring events (towards the north). Based on this evaluation of the groundwater flow direction, the groundwater monitoring network continues to adequately monitor the uppermost aquifer in accordance with the provisions in 9VAC20-81-250.A.3.

Using the idealized groundwater flow line shown on Drawing 2, which runs from the western side of the landfill to the northern side of the landfill, the average groundwater flow rate for the Facility was calculated as illustrated below.

The average hydraulic gradient (i) beneath the landfill is calculated to be $6.90E-02$ along the groundwater flow line on Drawing 2, using the following equation:

$$i = \frac{h_L}{L} = \frac{(600 - 500)}{1,450} = 6.90E-02$$

Where: i = hydraulic gradient (unitless)
 h_L = head loss (elevation difference in feet)
 L = length (horizontal distance in feet)

Porosity for the uppermost aquifer beneath the Facility is estimated to be 35% ($\theta = 0.35$), and the hydraulic conductivity, k , for the site is $1.29E-05$ foot per second [ft/s; JEI, 2018].

The groundwater flow rate was calculated using the following formula:

$$V \left(\frac{ft}{s} \right) = \frac{k \left(\frac{ft}{s} \right) * i}{\theta} = \frac{\left(1.29E-05 \frac{ft}{s} * 0.069 \right)}{0.35} = 2.5E-06 \frac{ft}{s}$$

Where: k = hydraulic conductivity (ft/s)
 i = hydraulic gradient (unitless)
 θ = assumed porosity (unitless)

Using conversion factors to express the groundwater flow rate in feet per day (ft/day):

$$V \left(\frac{ft}{y} \right) = \left(2.5E-06 \frac{ft}{s} \right) * \left(86,400 \frac{s}{d} \right) * (365 d) = 78.8 \frac{ft}{y}$$

The estimated average groundwater flow rate beneath the Facility is approximately 79 feet per year, which is consistent with previous estimates (average of approximately 63 feet per year over the last 5 years). It is noted that the groundwater velocity at this Facility is variable due to changes in the hydraulic gradient as groundwater flow in the uppermost aquifer beneath the Facility converges on the receiving stream systems that border the waste

management unit to the east. For the purpose of estimating the rate of transport for solid waste constituents in the groundwater at this facility, detected solid waste constituents are assumed to be soluble with water; therefore, the rate of transport is conservatively estimated to be the velocity of the groundwater.

In summary, Golder concludes that the groundwater monitoring network continues to adequately monitor the uppermost aquifer beneath the Facility in accordance with the provisions of 9VAC20-81-250.A.3 based on the above analysis, the groundwater surface contours shown on Drawing 2, and the analytical data from groundwater samples. No changes to the groundwater monitoring network are recommended at this time.