

April 28, 2017

Michael J. Menghini
District Mining Manager
Bureau of Mining & Reclamation
PA Department of Environmental Protection
5 West Laurel Boulevard
Pottsville, PA 17901-2454

**RE: New Hope Crushed Stone Quarry Operation
Noncoal Permit No. 7974SM3C12
NPDES Permit No. PA0595853
NPDES 1st Quarter 2017 Monitoring Report
Solebury Township, Bucks County, PA
EarthRes Project No. 011012.004**

Dear Mr. Menghini:

On behalf of New Hope Crushed Stone Co. (NHCS), EarthRes Group, Inc. (EarthRes) is providing the 1st Quarter 2017 Monitoring Report. This report includes changes to the reporting requirements per: 1) the Consent Order and Agreement (COA) between NHCS and the PA DEP, Primrose Creek Watershed Association, Inc. (PCWSA), and Citizens for Pennsylvania's Future (PennFuture) executed on May 28, 2013, and 2) the Reclamation Order outlined in the Department's letter to NHCS dated January 29, 2016.

Due to the reclamation order, the quarry has been filling with water (as detailed later in this letter report) with reduction of the daily pumping rate to 0.5 MGD. Basin water inflow is greater than basin outflow as water levels in the quarry continue to rise.

Current Basin Conditions

The Basin received a total of 7.22 inches of precipitation in the 1st Quarter 2017. The relationship of precipitation, stream flow, and quarry discharge is shown on the attached 2017 1st Quarter NPDES Discharge / Primrose Stream Flow / Precipitation hydrograph. Due to the reduction in quarry pumping, the quarry is receiving more water than is pumped, causing water levels in the quarry pit to rise.

The budgets previously provided used south sump measurements (volume and level) and were completed to assess potential impacts to the hydrogeological balance from continued mining to deeper levels. However, the south sump has overfilled and the water levels in the south and north pits have joined. Additionally, mining is not occurring in the bottom two lifts of the quarry (-85 MSL and -120 MSL) due to flooding and rising water levels. Accordingly, budget calculations to assess the impacts from mining at depth and dewatering are no longer meaningful or applicable. Overall, the quarry water budget has changed as not all groundwater received by the quarry is being pumped. The quarry is pumping the minimal required volume (0.5 MGD) to provide flow into the Primrose Creek. Monitoring of the quarry discharge is discussed in the following report section.

Discharge Monitoring

NHCS monitors and records the daily minimum and maximum discharge volume, which is updated monthly and submitted on the attached “Minimum/Maximum Discharge Table.” There was one “Zero” flow reading on January 7th at 11:44 am, the electricity kicked-off, pumping was resumed at 11:55 am. Three “zero” flow readings occurred during the month of February, the first of which happened on the 6th at 9:08 am when the electricity was turned off to replace a blown fuse on the main line; power was restored at 9:30 am. On February 7th a “zero” flow reading occurred at 10:15 am, there was a loss of power and pumping was restored at 10:50 am. On February 25th a “zero” flow reading occurred at 5:14 pm, the power went out due to a storm and was restored at 6:20 pm. There were no “zero” flow readings in the month of March.

Consent Order Agreement

Weekly sampling of the NPDES-permitted discharge for Total Suspended Solids (TSS) was completed during the 1st Quarter 2017. The results of the TSS sampling indicate continued compliance with the NPDES permit. Additionally, the PECO culvert area was inspected by NHCS and EarthRes personnel; flow obstruction through the culvert was not observed.

Well Repairs/Replacements

There were no well complaints in the 1st quarter of 2017.

Sinkhole Activity

A sinkhole was found and confirmed near the Knight/Busik property in the afternoon of March 22, 2017. The finding was reported within 24 hours to PA DEP. The sinkhole is a recurrence on the west side of the prior Busik sinkhole repair. The hole was indicated to be approximately 10

feet in diameter, by 6 to 10 feet deep. It was repaired on April 28th by NHCS personnel using methods provided in the approved SMMP. As required, an updated Sinkhole Map is attached to this report.

Reclamation Progress Report

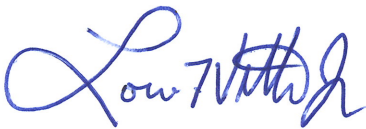
Reclamation progress at the quarry is reported monthly. The reclamation progress for the 1st quarter is contained in the February 2017, March 2017 and April 2017 reports provided to the Department. The above referenced reclamation progress updates are included herein in Attachment 12. The next progress report will be submitted by the 5th of May as requested by the Department.

Summary

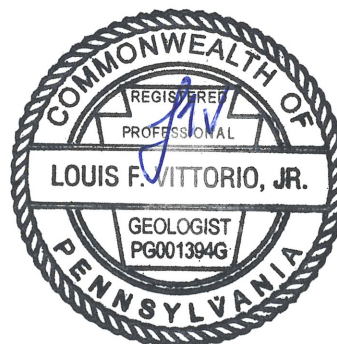
Required (weekly) TSS sampling performed per the COA indicates continued compliance with the NPDES permit. Reclamation and water infilling of the quarry is ongoing. The basin is no longer at equilibrium, as basin inflow is currently greater than basin outflow resulting in increasing quarry water levels. The quarry pit water level at the end of March was approximately -72 ft. MSL (as of 4/28/2017 the water level is at approximately -68 ft. MSL). Access to the quarry through the main ramp into the south pit is no longer accessible due to flooding.

Please contact me should you have any questions regarding the enclosed information.

Sincerely,
EarthRes Group, Inc.



Louis F. Vittorio, Jr., P.G.
Vice President / Principal Hydrogeologist



cc: Christina Cursley, NHCS

ATTACHMENTS

- 1.0 – Static Water Level Table
- 2.0 – Quarry Basin Calculations
- 3.0 – Minimum / Maximum Discharge Table
- 4.0 – Discharge Monitoring Report
- 5.0 – Analytical Reports
- 6.0 – Milltronics Data Recording
- 7.0 – Quarry Discharge / Stream Flow / Precipitation Tables
- 8.0 – Quarry Discharge / Stream Flow / Precipitation Graphs
- 9.0 – Discharge / Rainfall / Static Water Level Hydrographs
- 10.0 – Continuous Monitoring Hydrographs: MW-3, MW-6
- 11.0 – Groundwater Contour Map
- 12.0 – Reclamation Information
- 13.0 – Sinkhole Map

ATTACHMENT 1.0
STATIC WATER LEVEL TABLE

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.
Year 2017

DATE	MW-1 (ERG 1)		MW-2 (ERG 2)		MW-3		MW-4		MW-5		MW-6	
	TOC (Ft.) 101.72		TOC (Ft.) 101.25		TOC (Ft.) 155.79		TOC (Ft.) 153.11		TOC (Ft.) 148.05		TOC (Ft.) 177.66	
	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Transducer Reading (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
1/9/2014	8.23	93.49	9.30	91.95	*	13.23	134.75	18.36	135.87	12.18	*	113.465
1/20/2014	8.06	93.66	9.00	92.25	*	13.24	135.42	17.69	135.80	12.25	*	115.54
2/4/2014	-	-	-	-	*	11.92	140.75	12.36	-	-	*	112.08
2/10/2014	-	-	9.25	92.00	*	12.84	135.02	18.09	136.00	12.05	*	114.49
2/24/2014	6.41	95.31	8.60	92.65	*	15.78	128.51	24.60	134.22	13.83	*	115.98
3/5/2014	-	-	-	-	*	14.58	133.47	19.64	-	-	*	115.41
3/11/2014	7.10	94.62	8.79	92.46	*	14.88	135.23	17.88	135.00	13.05	*	115.22
3/20/2014	7.30	94.42	8.80	92.45	*	15.56	133.90	19.21	134.43	13.62	*	115.34
4/7/2014	7.38	94.34	8.79	92.46	*	17.39	132.36	20.75	133.71	14.34	-	-
4/14/2014	-	-	-	-	*	16.06	135.20	17.91	-	-	-	-
4/21/2014	7.40	94.32	8.86	92.39	*	16.18	132.86	20.25	134.50	13.55	-	-
5/1/2014	-	-	-	-	*	28.34	110.75	42.36	-	-	*	114.27
5/6/2014	7.10	94.62	8.60	92.65	*	21.76	127.72	25.39	129.83	18.22	*	115.38
5/19/2014	7.27	94.45	8.80	92.45	*	18.92	134.75	18.36	131.57	16.48	*	111.73
5/28/2014	-	-	-	-	*	19.60	131.80	21.31	-	-	*	113.10
6/2/2014	7.71	94.01	9.18	92.07	*	18.65	135.17	17.94	132.60	15.45	*	111.77
6/9/2014	-	-	-	-	*	17.27	138.23	14.88	-	-	*	110.61
6/16/2014	7.80	93.92	9.38	91.87	*	16.38	138.57	14.54	134.42	13.63	*	110.14
6/23/2014	-	-	-	-	*	15.36	139.50	13.61	-	-	*	109.56
7/1/2014	9.66	92.06	10.14	91.11	*	14.50	140.90	12.21	135.98	12.07	*	109.23
7/7/2014	-	-	-	-	*	13.92	141.50	11.61	-	-	*	108.74
7/17/2014	9.80	91.92	10.47	90.78	*	13.07	142.35	10.76	137.11	10.94	*	107.76
7/22/2014	-	-	-	-	*	12.64	142.83	10.28	-	-	*	107.53
8/1/2014	11.15	90.57	11.45	89.80	*	11.96	143.62	9.49	138.07	9.98	*	106.82
8/7/2014	-	-	-	-	*	11.66	143.94	9.17	-	-	*	106.61
8/14/2014	11.80	89.92	12.06	89.19	*	11.35	144.19	8.92	138.62	9.43	*	106.28
8/20/2014	-	-	-	-	*	11.13	144.47	8.64	-	-	*	105.97
8/25/2014	-	-	-	-	*	10.96	144.49	8.62	-	-	*	105.75
9/2/2014	12.20	89.52	12.63	88.62	*	10.77	144.79	8.32	139.10	8.95	*	105.67
9/10/2014	-	-	-	-	*	10.56	145.00	8.11	-	-	*	105.44
9/18/2014	12.53	89.19	12.84	88.41	*	10.41	145.29	7.82	139.47	8.58	*	105.18
9/24/2014	-	-	-	-	*	10.27	145.45	7.66	-	-	*	104.78
10/2/2014	12.78	88.94	12.12	89.13	*	10.15	145.57	7.54	139.69	8.36	*	104.61

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.
Year 2017

DATE	MW-1 (ERG 1)		MW-2 (ERG 2)		MW-3		MW-4		MW-5		MW-6	
	TOC (Ft.) 101.72		TOC (Ft.) 101.25		TOC (Ft.) 155.79		TOC (Ft.) 153.11		TOC (Ft.) 148.05		TOC (Ft.) 177.66	
	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Transducer Reading (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
10/7/2014	-	-	-	-	*	10.10	145.62	7.49	-	-	*	104.54
10/14/2014	12.55	89.17	12.85	88.40	*	10.02	145.65	7.46	139.79	8.26	*	104.52
10/20/2014	-	-	-	-	*	10.02	144.60	8.51	-	-	*	104.77
10/27/2014	-	-	-	-	*	9.98	144.36	8.75	-	-	*	105.05
11/3/2014	11.60	90.12	11.99	89.26	*	9.93	144.74	8.37	139.86	8.19	*	105.10
11/10/2014	-	-	-	-	*	9.88	144.80	8.31	139.90	8.15	*	105.09
11/20/2014	10.80	90.92	11.33	89.92	*	9.81	142.28	10.83	139.98	8.07	*	105.43
11/24/2014	-	-	-	-	*	9.76	142.65	10.46	-	-	*	105.80
12/1/2014	10.55	91.17	11.10	90.15	*	9.96	140.19	12.92	139.86	8.19	*	106.30
12/8/2014	-	-	-	-	*	10.78	138.20	14.91	-	-	*	107.55
12/15/2014	9.20	92.52	10.14	91.11	*	11.61	138.29	14.82	138.42	9.63	*	**
1/7/2015	8.72	93.00	9.55	91.70	*	10.97	139.39	13.72	139.05	9.00	*	111.15
1/15/2015	9.00	92.72	9.66	91.59	*	11.10	141.30	11.81	138.89	9.16	*	111.58
1/20/2015	-	-	-	-	*	13.79	137.45	15.66	-	-	*	112.19
2/4/2015	8.46	93.26	9.55	91.70	*	12.82	137.19	15.92	137.35	10.70	*	112.39
2/10/2015	-	-	-	-	*	12.38	139.14	13.97	-	-	*	111.67
2/16/2015	-	-	9.82	91.43	*	11.98	141.64	11.47	138.11	9.94	*	111.13
3/3/2015	10.18	91.54	-	-	*	11.16	143.74	9.37	138.83	9.22	*	110.06
3/11/2015	-	-	-	-	*	17.87	131.10	22.01	-	-	*	111.67
3/16/2015	7.37	94.35	8.96	92.29	*	19.24	126.92	26.19	132.42	15.63	*	115.30
3/24/2015	-	-	-	-	*	16.62	131.89	21.22	-	-	*	114.13
4/1/2015	8.02	93.70	9.05	92.20	*	16.88	131.28	21.83	134.30	13.75	*	115.06
4/15/2015	8.10	93.62	9.25	92.00	*	14.73	139.04	14.07	135.95	12.10	*	111.80
5/1/2015	-	-	-	-	*	14.42	136.91	16.20	136.15	11.90	*	111.35
5/13/2015	8.80	92.92	9.73	91.52	*	13.41	141.41	11.70	136.95	11.10	*	110.37
6/2/2015	-	-	-	-	*	12.01	143.19	9.92	138.10	9.95	*	107.27
6/10/2015	8.63	93.09	9.88	91.37	*	12.03	140.05	13.06	138.10	9.95	*	106.57
6/29/2015	-	-	-	-	*	11.55	140.44	12.67	138.52	9.53	*	103.86
7/6/2015	10.37	91.35	10.87	90.38	*	11.054	141.95	11.16	138.95	9.10	*	103.889
7/22/2015	-	-	-	-	*	10.162	-	-	-	-	*	103.069
7/30/2015	-	-	-	-	*	9.699	145.54	7.57	140.2	7.85	*	103.01
8/5/2015	11.8	89.92	12.06	89.19	*	9.402	145.9	7.21	140.47	7.58	*	102.163
9/1/2015	-	-	-	-	*	8.19	147.37	5.74	141.7	6.35	*	101.072

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	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Transducer Reading (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
9/8/2015	-	-	-	-	*	7.876	-	-	-	-	*	100.987
9/14/2015	12.1	89.62	12.48	88.77	*	7.672	147.75	5.36	142.91	5.14	*	100.874
9/21/2015	-	-	-	-	*	7.43	-	-	-	-	*	100.815
10/1/2015	-	-	-	-	*	7.226	147.93	5.18	142.61	5.44	*	100.775
10/5/2015	11.45	90.27	11.92	89.33	*	7.48	144.45	8.66	142.35	5.70	*	100.908
11/2/2015	-	-	-	-	*	7.006	145.09	8.02	142.8	5.25	*	100.702
11/11/2015	11.26	90.46	11.77	89.48	*	6.874	147.3	5.81	142.95	5.10	*	100.683
11/30/2015	-	-	-	-	*	6.995	145	8.11	142.82	5.23	*	100.802
12/7/2015	10.86	90.86	11.57	89.68	*	6.984	144.3	8.81	142.8	5.25	*	101
12/28/2015	-	-	-	-	*	8.295	139.86	13.25	141.6	6.45	*	103.803
1/6/2016	8.7	93.02	10.09	91.16	*	9.782	139.05	14.06	140.22	7.83	*	107.665
1/28/2016	-	-	-	-	*	10.173	143.35	9.76	139.83	8.22	*	109.166
2/8/2016	7.36	94.36	8.88	92.37	*	14.75	133.85	19.26	135.87	12.18	*	113.649
3/1/2016	-	-	-	-	*	16.17	132.7	20.41	135.05	13	*	116.916
3/7/2016	7.75	93.97	8.92	92.33	*	15.048	136.34	16.77	135.8	12.25	*	115.594
3/30/2016	-	-	-	-	*	13.07	141.35	11.76	137.35	10.7	*	110.058
4/5/2016	8.6	93.12	9.46	91.79	*	12.663	142.14	10.97	137.7	10.35	*	**
4/28/2016	-	-	-	-	*	11.242	143.38	9.73	138.9	9.15	*	**
5/9/2016	8.5	93.22	10.04	91.21	*	11.241	140.17	12.94	138.82	9.23	*	107.388
5/31/2016	-	-	-	-	*	10.525	144.05	9.06	139.51	8.54	*	107.586
6/6/2016	-	-	-	-	*	10.245	144.68	8.43	-	-	*	107.255
6/13/2016	11.05	90.67	11.44	89.81	*	9.936	145.1	8.01	140.05	8	*	106.865
6/30/2016	-	-	-	-	*	9.049	146.45	6.66	140.88	7.17	*	106.343
7/11/2016	10.48	91.24	11.25	90.00	*	9.347	143.86	9.25	140.6	7.45	*	106.78
8/1/2016	-	-	-	-	*	13.528	136.3	16.81	136.86	11.19	*	110.112
8/8/2016	8.43	93.29	10.21	91.04	*	11.836	139.1	14.01	138.34	9.71	*	112.889
8/29/2016	-	-	-	-	*	11.247	143.38	9.73	138.84	9.21	*	111.832
9/6/2016	10.39	91.33	10.8	90.45	*	10.531	144.83	8.28	139.54	8.51	*	110.615
10/3/2016	-	-	-	-	*	8.746	145.57	7.54	140.14	7.91	*	107.593
10/17/2016	10.89	90.83	11.29	89.96	*	8.124	147.44	5.67	141.6	6.45	*	106.919
11/2/2016	-	-	-	-	*	7.496	147.95	5.16	142.19	5.86	*	106.046
11/14/2016	11	90.72	11.24	90.01	*	7.022	148.55	4.56	142.72	5.33	*	105.359
11/28/2016	-	-	-	-	*	6.593	149	4.11	143.09	4.96	*	104.539

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.

Year 2017

DATE	MW-1 (ERG 1)		MW-2 (ERG 2)		MW-3		MW-4		MW-5		MW-6	
	TOC (Ft.) 101.72		TOC (Ft.) 101.25		TOC (Ft.) 155.79		TOC (Ft.) 153.11		TOC (Ft.) 148.05		TOC (Ft.) 177.66	
	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Transducer Reading (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
12/13/2016	8.75	92.97	10.17	91.08	*	7.546	145.83	7.28	142.17	5.88	*	105.074
1/12/2017	8	93.72	9.4	91.85	*	8.08	145.45	7.66	141.59	6.46	*	110.232
1/30/2017	-	-	-	-	*	11.396	139.39	13.72	137.25	10.8	*	116.025
2/6/2017	8.33	93.39	9.53	91.72	*	10.828	142.64	10.47	137.84	10.21	*	114.649
2/28/2017	-	-	-	-	*	9.859	145	8.11	140.05	8	*	111.402
3/13/2017	9.38	92.34	10	91.25	*	9.291	145.8	7.31	140.54	7.51	*	110.179

Note: * Readings taken from continuous transducer data reporting.

** Transducer was found unresponsive on 4/29/16. It was evaluated, repaired and replaced on same day.

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.

Year 2017

DATE	MW-7A		MW-8		MW-9		MW-11		SS-1	
	TOC (Ft.)	146.81	TOC (Ft.)	143.66	TOC (Ft.)	115.08	TOC (Ft.)	188.74	TOC (Ft.)	158.09
	Depth to Water (Ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
1/9/2014	166.05	-19.24	no DTW	***	**	**	30.52	158.22	-	-
1/20/2014	163.87	-17.06	28.22	115.44	**	**	31.40	157.34	-	-
2/10/2014	164.84	-18.03	26.99	116.67	**	**	31.64	157.10	-	-
2/20/2014	164.55	-17.74	-	-	**	**	-	-	-	-
2/24/2014	164.15	-17.34	22.15	121.51	**	**	-	-	-	-
3/11/2014	163.15	-16.34	26.40	117.26	**	**	36.05	152.69	-	-
3/20/2014	161.22	-14.41	25.79	117.87	**	**	32.17	156.57	-	-
4/7/2014	160.39	-13.58	24.11	119.55	**	**	29.92	158.82	-	-
4/21/2014	163.42	-16.61	26.20	117.46	**	**	30.29	158.45	-	-
5/6/2014	162.42	-15.61	21.24	122.42	**	**	26.15	162.59	-	-
5/19/2014	163.35	-16.54	29.30	114.36	**	**	34.69	154.05	-	-
6/2/2014	161.98	-15.17	30.80	112.86	**	**	34.66	154.08	-	-
6/16/2014	165.90	-19.09	37.44	106.22	**	**	44.30	144.44	-	-
7/1/2014	169.03	-22.22	40.02	103.64	**	**	48.95	139.79	-	-
7/17/2014	172.28	-25.47	42.10	101.56	**	**	53.20	135.54	-	-
8/1/2014	173.70	-26.89	43.53	100.13	**	**	58.53	130.21	-	-
8/14/2014	172.99	-26.18	44.18	99.48	**	**	69.50	119.24	-	-
9/2/2014	177.15	-30.34	44.50	99.16	**	**	76.68	112.06	-	-
9/18/2014	175.39	-28.58	45.40	98.26	**	**	80.59	108.15	-	-
10/2/2014	176.35	-29.54	45.90	97.76	**	**	88.15	100.59	-	-
10/14/2014	173.57	-26.76	46.43	97.23	**	**	96.22	92.52	-	-
11/3/2014	173.35	-26.54	46.05	97.61	**	**	93.14	95.60	-	-
11/20/2014	171.75	-24.94	45.63	98.03	**	**	89.66	99.08	-	-
12/1/2014	170.10	-23.29	40.62	103.04	**	**	75.16	113.58	-	-
12/15/2014	168.99	-22.18	32.30	111.36	**	**	51.80	136.94	-	-
1/7/2015	167.30	-20.49	34.15	109.51	**	**	45.65	143.09	-	-
1/15/2015	167.09	-20.28	35.05	108.61	**	**	44.78	143.96	-	-
2/4/2015	165.38	-18.57	31.10	112.56	**	**	39.01	149.73	-	-

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.
Year 2017

DATE	MW-7A		MW-8		MW-9		MW-11		SS-1	
	TOC (Ft.)	146.81	TOC (Ft.)	143.66	TOC (Ft.)	115.08	TOC (Ft.)	188.74	TOC (Ft.)	158.09
	Depth to Water (Ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
2/16/2015	166.45	-19.64	35.43	108.23	**	**	-	-	-	-
3/3/2015	166.11	-19.30	37.50	106.16	**	**	9.75	178.99	-	-
3/16/2015	163.08	-16.27	18.75	124.91	**	**	24.82	163.92	-	-
4/1/2015	162.56	-15.75	24.10	119.56	**	**	29.30	159.44	-	-
4/15/2015	163.55	-16.74	33.68	109.98	**	**	40.12	148.62	-	-
5/1/2015	164.43	-17.62	-	-	**	**	-	-	-	-
5/13/2015	172.99	-26.18	35.20	108.46	**	**	44.57	144.17	-	-
6/10/2015	177.80	-30.99	37.20	106.46	**	**	54.00	134.74	-	-
7/6/2015	172.68	-25.87	37	106.66	**	**	54	134.74	-	-
8/5/2015	178.59	-31.78	41.46	102.20	**	**	78.53	110.21	-	-
9/14/2015	189.6	-42.79	44.1	99.56	**	**	91.2	97.54	-	-
10/5/2015	179.55	-32.74	44.35	99.31	**	**	92.53	96.21	-	-
11/11/2015	175.34	-28.53	44.25	99.41	**	**	82	106.74	-	-
12/7/2015	173.23	-26.42	42.25	101.41	**	**	68.5	120.24	-	-
1/6/2016	172.23	-25.42	33.78	109.88	**	**	44.74	144	-	-
2/8/2016	169.04	-22.23	23.6	120.06	**	**	32.62	156.12	-	-
3/7/2016	164.5	-17.69	28.3	115.36	**	**	36.06	152.68	-	-
4/5/2016	167.25	-20.44	35.1	108.56	**	**	45.25	143.49	-	-
4/28/2016	-	-	-	-	**	**	-	-	-	-
5/9/2016	172.57	-25.76	34.23	109.43	**	**	40.03	148.71	-	-
5/31/2016	-	-	-	-	**	**	-	-	-	-
6/6/2016	-	-	-	-	**	**	-	-	-	-
6/13/2016	179.48	-32.67	38.53	105.13	**	**	52.38	136.36	-	-
6/30/2016	-	-	-	-	**	**	-	-	-	-
7/11/2016	193.47	-46.66	40.28	103.38	**	**	72.63	116.11	-	-
8/1/2016	-	-	-	-	**	**	-	-	-	-
8/8/2016	183.8	-36.99	32.1	111.56	**	**	44.61	144.13	-	-
8/29/2016	-	-	-	-	**	**	-	-	-	-

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.
Year 2017

DATE	MW-7A		MW-8		MW-9		MW-11		SS-1	
	TOC (Ft.)	146.81	TOC (Ft.)	143.66	TOC (Ft.)	115.08	TOC (Ft.)	188.74	TOC (Ft.)	158.09
	Depth to Water (Ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
9/6/2016	188.17	-41.36	38.73	104.93	**	**	53	135.74	-	-
10/17/2016	177.35	-30.54	44.86	98.8	**	**	83.36	105.38	-	-
11/14/2016	177.29	-30.48	43.01	100.65	**	**	91.68	97.06	-	-
12/13/2016	171.66	-24.85	39.32	104.34	**	**	71.42	117.32	-	-
1/12/2017	168.34	-21.53	35.35	108.31	**	**	49.95	138.79	-	-
1/30/2017	-	-	-	-	-	-	-	-	146.23	11.86
2/6/2017	165.84	-19.03	33	110.66	**	**	41.63	147.11	-	-
2/27/2017	-	-	-	-	-	-	-	-	144.56	13.53
3/13/2017	166.12	-19.31	37.12	106.54	**	**	47.2	141.54	-	-
3/31/2017	-	-	-	-	-	-	-	-	145.22	12.87

Notes: ** Eliminated - New ramp construction at same location.

*** Unable to measure / Manhole cover over MW-8 frozen.

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.

Year 2017

DATE	Well Nest 1-S (Pit 1 - Shallow)		Well Nest 1-I (Pit 2 - Intermediate)		Well Nest 1-D (Pit 3 - Deep)	
	<i>TOC (Ft.)</i> 15.57		<i>TOC (Ft.)</i> 15.42		<i>TOC (Ft.)</i> 15.39	
	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>
1/9/2014	50.38	-34.81	59.69	-44.27	21.63	-6.24
3/11/2014	50.61	-35.04	65.65	-50.23	22.33	-6.94
4/7/2014	50.33	-34.76	65.99	-50.57	23.44	-8.05
4/21/2014	51.22	-35.65	68.35	-52.93	23.93	-8.54
5/6/2014	48.28	-32.71	57.40	-41.98	23.79	-8.40
5/19/2014	49.50	-33.93	62.65	-47.23	23.35	-7.96
6/2/2014	50.32	-34.75	66.05	-50.63	23.14	-7.75
6/16/2014	51.30	-35.73	68.45	-53.03	23.57	-8.18
7/1/2014	52.78	-37.21	71.74	-56.32	24.25	-8.86
7/17/2014	53.23	-37.66	72.23	-56.81	25.97	-10.58
8/1/2014	54.45	-38.88	74.00	-58.58	27.68	-12.29
8/14/2014	54.89	-39.32	74.99	-59.57	28.95	-13.56
9/2/2014	55.21	-39.64	75.82	-60.40	30.36	-14.97
9/18/2014	55.40	-39.83	75.43	-60.01	31.21	-15.82
10/2/2014	55.62	-40.05	76.03	-60.61	31.80	-16.41
10/14/2014	55.48	-39.91	76.14	-60.72	32.23	-16.84
11/3/2014	54.93	-39.36	75.50	-60.08	32.55	-17.16
11/20/2014	54.20	-38.63	73.95	-58.53	32.70	-17.31
12/1/2014	54.25	-38.68	74.65	-59.23	32.66	-17.27
12/15/2014	53.83	-38.26	73.77	-58.35	32.12	-16.73
1/15/2015	54.37	-38.80	74.96	-59.54	31.27	-15.88
3/16/2015	48.40	-32.83	60.15	-44.73	32.29	-16.90
5/26/2015	58.87	-43.30	79.14	-63.72	32.40	-17.01
6/10/2015	53.55	-37.98	75.95	-60.53	32.85	-17.46

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.

Year 2017

DATE	Well Nest 1-S (Pit 1 - Shallow)		Well Nest 1-I (Pit 2 - Intermediate)		Well Nest 1-D (Pit 3 - Deep)	
	<i>TOC (Ft.)</i> 15.57		<i>TOC (Ft.)</i> 15.42		<i>TOC (Ft.)</i> 15.39	
	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>
7/6/2015	55.65	-40.08	82.12	-66.70	33.90	-18.51
8/12/2015	56.3	-40.73	82.8	-67.38	35.43	-20.04
9/14/2015	56.45	-40.88	83.5	-68.08	38	-22.61
10/5/2015	55.54	-39.97	81.99	-66.57	40	-24.61
11/11/2015	57.1	-41.53	85	-69.58	44.9	-29.51
12/7/2015	56.35	-40.78	84.32	-68.90	47.82	-32.43
1/6/2016	55.63	-40.06	82.96	-67.54	47.3	-31.91
2/8/2016	52.54	-36.97	77.38	-61.96	45.46	-30.07
3/7/2016	53.5	-37.93	78.78	-63.36	41.68	-26.29
4/5/2016	54.71	-39.14	81.37	-65.95	40	-24.61
5/9/2016	54.35	-38.78	80.65	-65.23	51.6	-36.21
6/13/2016	55.66	-40.09	80.75	-65.33	53.2	-37.81
7/11/2016	53.8	-38.23	74.28	-58.86	53.2	-37.81
8/8/2016	54.52	-38.95	74.88	-59.46	49.6	-34.21
9/12/2016	55.2	-39.63	71.66	-56.24	46.77	-31.38
10/17/2016	55.75	-40.18	70.95	-55.53	44.56	-29.17
11/14/2016	56.2	-40.63	70.89	-55.47	40.69	-25.3
1/12/2017	-	-	-	-	-	-
2/6/2017	-	-	-	-	-	-
3/13/2017	-	-	-	-	-	-

Notes: Well Nest 1 inaccessible during February monitoring due to snow conditions, and inaccessible during March due to quarry flooding.

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.
Year 2017

DATE	Well Nest 1-S (Pit 1 - Shallow)		Well Nest 1-I (Pit 2 - Intermediate)		Well Nest 1-D (Pit 3 - Deep)	
	<i>TOC (Ft.)</i>	<i>15.57</i>	<i>TOC (Ft.)</i>	<i>15.42</i>	<i>TOC (Ft.)</i>	<i>15.39</i>
	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.

Year 2017

DATE	Busik 1		Busik Well 2 (Busik #2)		Busik Well Nest #2 (S) (Busik Well Nest 2 (s))		Busik Well Nest #2 (I) (Busik Well Nest 2 (i))		Busik Well Nest #2 (D) (Busik Well Nest 2 (d))	
	<i>TOC (Ft.)</i> 312.47		<i>TOC (Ft.)</i> 189.02		<i>TOC (Ft.)</i> 312.68		<i>TOC (Ft.)</i>	312.65	<i>TOC (Ft.)</i>	312.59
	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Transducer Reading (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
1/9/2014	-	-	169.93	19.09	-	-	*	235.812	-	-
1/20/2014	72.3	240.17	167.74	21.28	58.31	254.37	*	232.231	267.36	45.23
2/4/2014	-	-	-	-	-	-	*	235.038	-	-
2/10/2014	-	-	-	-	-	-	*	237.746	-	-
2/24/2014	69.77	242.7	166.78	22.24	55.57	257.11	*	240.573	264.48	48.11
3/5/2014	-	-	-	-	-	-	*	241.153	-	-
3/11/2014	-	-	163.54	25.48	-	-	*	245.733	-	-
3/20/2014	70.71	241.76	161.75	27.27	57.41	255.27	*	242.906	259.92	52.67
4/7/2014	-	-	157.14	31.88	-	-	*	242.78	-	-
4/21/2014	69.92	242.55	158.22	30.8	56.68	256.00	-	-	258.57	54.02
5/6/2014	-	-	150.55	38.47	-	-	-	-	-	-
5/19/2014	69.8	242.67	152	37.02	57.05	255.63	** 74.5	238.15	257.33	55.26
6/2/2014	-	-	153.91	35.11	-	-	-	-	-	-
6/16/2014	72.39	240.08	159.93	29.09	59.87	252.81	72.65	240	261.18	51.41
7/1/2014	-	-	165.15	23.87	-	-	-	-	-	-
7/17/2014	77.06	235.41	169.35	19.67	62.83	249.85	77.18	235.47	265.69	46.9
8/1/2014	-	-	172.04	16.98	-	-	-	-	-	-
8/14/2014	80.25	232.22	173.7	15.32	64.46	248.22	80.29	232.36	268.9	43.69
9/2/2014	-	-	175.28	13.74	-	-	-	-	-	-
9/18/2014	83.18	229.29	176.2	12.82	66.46	246.22	83.28	229.37	272.19	40.4
10/2/2014	-	-	176.9	12.12	-	-	-	-	-	-
10/14/2014	84.85	227.62	177.3	11.72	67.74	244.94	84.97	227.68	272.37	40.22
11/3/2014	-	-	177.78	11.24	-	-	-	-	-	-
11/20/2014	85.5	226.97	178.09	10.93	68.39	244.29	85.6	227.05	272.5	40.09
12/1/2014	-	-	177.87	11.15	-	-	-	-	-	-
12/15/2014	77.45	235.02	175.36	13.66	61.4	251.28	77.65	235	272.07	40.52
1/7/2015	-	-	175.65	13.37	62.57	250.11	72.43	240.22	271.95	40.64
1/15/2015	77.07	235.4	175.54	13.48	-	-	-	-	-	-

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.

Year 2017

DATE	Busik 1		Busik Well 2 (Busik #2)		Busik Well Nest #2 (S) (Busik Well Nest 2 (s))		Busik Well Nest #2 (I) (Busik Well Nest 2 (i))		Busik Well Nest #2 (D) (Busik Well Nest 2 (d))	
	<i>TOC (Ft.)</i> 312.47		<i>TOC (Ft.)</i> 189.02		<i>TOC (Ft.)</i> 312.68		<i>TOC (Ft.)</i>	312.65	<i>TOC (Ft.)</i>	312.59
	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Transducer Reading (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
2/4/2015	-	-	173.42	15.6	-	-	-	-	-	-
2/16/2015	75.5	236.97	-	-	61.83	250.85	75.8	236.85	269.38	43.21
3/16/2015	68.9	243.57	167.3	21.72	54.25	258.43	68.9	243.75	266.93	45.66
4/1/2015	-	-	162.8	26.22	-	-	-	-	-	-
4/15/2015	72.3	240.17	165.23	23.79	59.66	253.02	72.66	239.99	261.18	51.41
5/13/2015	73.7	238.77	168.82	20.2	60.88	251.8	70.40	242.25	263.17	49.42
6/10/2015	76.61	235.86	173.17	15.85	62.27	250.41	76.88	235.77	266.83	45.76
7/6/2015	78	234.47	174.57	14.45	62.98	249.7	78.23	234.42	268.7	43.89
8/5/2015	81.4	231.07	177.23	11.79	65.52	247.16	81.53	231.12	271.54	41.05
9/14/2015	84.03	228.44	180.04	8.98	67.56	245.12	84.29	228.36	272.63	39.96
10/5/2015	84.62	227.85	180.56	8.46	68.18	244.5	84.9	227.75	272.55	40.04
11/11/2015	86.86	225.61	181.36	7.66	69.37	243.31	86.44	226.21	272.66	39.93
12/7/2015	84.73	227.74	181.25	7.77	68.43	244.25	85.16	227.49	272.86	39.73
1/6/2016	77.1	235.37	177.8	11.22	61.82	250.86	77.27	235.38	272.27	40.32
2/8/2016	70.56	241.91	172.41	16.61	56.23	256.45	70.23	242.42	270.7	41.89
3/7/2016	71.69	240.78	166.42	22.6	59.08	253.6	71.84	240.81	263.22	49.37
4/5/2016	75	237.47	171.24	17.78	62.14	250.54	75.28	237.37	265.25	47.34
5/9/2016	75.14	237.33	174.55	14.47	61	251.68	75.68	236.97	267.51	45.08
6/13/2016	78.73	233.74	176.25	12.77	64.1	248.58	78.8	233.85	268.4	44.19
7/11/2016	80.46	232.01	178.1	10.92	65.5	247.18	81.1	231.55	271.35	41.24
8/8/2016	76.22	236.25	174.54	14.48	62.85	249.83	77.55	235.1	271.6	40.99
9/6/2016	80.38	232.09	175.61	13.41	66.05	246.63	80.93	231.72	272	40.59
10/17/2016	83.62	228.85	177.88	11.14	68.24	244.44	83.87	228.78	272.12	40.47
11/14/2016	85.15	227.32	179.52	9.5	69.57	243.11	85.55	227.1	272.25	40.34
12/13/2016	82.77	229.7	179.1	9.92	67.32	245.36	83.08	229.57	272.42	40.17
1/12/2017	79.08	233.39	178.33	10.69	63.96	248.72	79.29	233.36	271.83	40.76
2/6/2017	75.11	237.36	173.95	15.07	62	250.68	75.24	237.41	270.92	41.67
3/13/2017	76.72	235.75	175.86	13.16	64.23	248.45	78.27	234.38	271.33	41.26

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.

Year 2017

DATE	Busik 1		Busik Well 2 (Busik #2)		Busik Well Nest #2 (S) (Busik Well Nest 2 (s))		Busik Well Nest #2 (I) (Busik Well Nest 2 (i))		Busik Well Nest #2 (D) (Busik Well Nest 2 (d))	
	<i>TOC (Ft.)</i> 312.47		<i>TOC (Ft.)</i> 189.02		<i>TOC (Ft.)</i> 312.68		<i>TOC (Ft.)</i>	312.65	<i>TOC (Ft.)</i>	312.59
	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>	Transducer Reading <i>(ft.)</i>	SWL Reading <i>(msl)</i>	Depth to Water <i>(ft.)</i>	SWL Reading <i>(msl)</i>

Notes: * Readings taken from continuous transducer data reporting.

** Readings taken manually on or about date noted

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.

Year 2017

DATE	Ely		Gerold - Old (6920 Ely)		Vehling (6908 Ely)		Depamphillis (2771 Sagan Road)		Worthington (6967 Phillips Mill Road)		Mihalich (6962 Ely Road)	
	TOC (Ft.) 255.20		TOC (Ft.) 248.01		TOC (Ft.) 221.28		TOC (Ft.) 186.33		TOC (Ft.) 222.08		TOC (Ft.)	266.95
	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
1/20/2014	**	**	***	47.29	140.32	80.96	166.80	19.53	59.77	162.31		
1/23/2014	**	**	***	43.75	-	-	-	-	-	-	246.40*	20.55
2/24/2014	**	**	***	47.24	113.40	107.88	161.80	24.53	-	-		
3/20/2014	**	**	***	48.32	133.68	87.60	159.28	27.05	59.71	162.37		
3/31/2014	**	**	***	47.99	-	-	-	-	-	-	238.2*	28.75
4/7/2014	**	**	***	48.86	-	-	-	-	-	-		
4/21/2014	**	**	***	-11.01	127.80	93.48	158.98	27.35	59.50	162.58		
4/28/2014	**	**	***	40.95	-	-	-	-	-	-	235.46*	31.49
5/6/2014	**	**	***	49.02	-	-	-	-	-	-		
5/19/2014	**	**	***	49.42	130.80	90.48	157.50	28.83	59.50	162.58		
5/29/2014	**	**	***	48.63	-	-	-	-	-	-	228.9*	38.05
6/2/2014	**	**	***	48.28	-	-	-	-	-	-		
6/16/2014	**	**	***	47.98	143.42	77.86	163.10	23.23	59.60	162.48		
6/30/2014	**	**	***	48.46	-	-	-	-	-	-	232.6*	34.35
7/1/2014	**	**	***	48.00	-	-	-	-	-	-	-	-
7/7/2014	**	**	***	48.30	-	-	-	-	-	-	-	-
7/17/2014	**	**	***	47.10	160.16	61.12	171.20	15.13	59.59	162.49	-	-
7/22/2014	**	**	***	47.98	-	-	-	-	-	-	*251.45	15.50
8/1/2014	**	**	***	46.86	-	-	-	-	-	-	-	-
8/7/2014	**	**	***	47.06	-	-	-	-	-	-	-	-
8/14/2014	**	**	***	11.89	169.79	51.49	172.88	13.45	59.61	162.47	-	-
8/20/2014	**	**	***	54.82	-	-	-	-	-	-	-	-
8/25/2014	**	**	***	53.72	-	-	-	-	-	-	*254.48	12.47
9/2/2014	**	**	***	51.46	-	-	-	-	-	-	-	-
9/10/2014	**	**	***	50.23	-	-	-	-	-	-	-	-
9/18/2014	**	**	***	47.94	183.57	37.71	174.92	11.41	59.62	162.46	-	-
9/24/2014	**	**	***	38.05	-	-	-	-	-	-	*256.38	10.57
10/14/2014	**	**	***	40.63	175.99	45.29	175.60	10.73	59.84	162.24	*255.54	11.41
11/20/2014	**	**	***	45.86	174.84	46.44	176.30	10.03	59.69	162.39	*257.14	9.81
12/15/2014	**	**	***	46.43	166.72	54.56	176.60	9.73	59.68	162.40	*254.65	12.30

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.

Year 2017

DATE	Ely		Gerold - Old (6920 Ely)		Vehling (6908 Ely)		Depamphillis (2771 Sagan Road)		Worthington (6967 Phillips Mill Road)		Mihalich (6962 Ely Road)	
	TOC (Ft.) 255.20		TOC (Ft.) 248.01		TOC (Ft.) 221.28		TOC (Ft.) 186.33		TOC (Ft.) 222.08		TOC (Ft.)	266.95
	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
1/15/2015	**	**	***	46.36	163.86	57.42	172.55	13.78	59.67	162.41	*252.85	14.10
2/16/2015	**	**	***	47.12	-	-	171.45	14.88	-	-	*254.80	12.15
3/16/2015	**	**	***	48.42	120.22	101.06	159.72	26.61	59.48	162.60	*239.65	27.30
4/15/2015	**	**	***	42.21	146.45	74.83	165.50	20.83	59.60	162.48	*244.14	22.81
5/13/2015	**	**	***	45.56	-	-	173.08	13.25	59.55	162.53	*250.51	16.44
6/10/2015	**	**	***	41.82	-	-	187.50	-1.17	59.60	162.48	*247.26	19.69
7/6/2015	**	**	***	44.95	-	-	174.05	12.28	59.65	162.43	*255.00	11.95
8/5/2015	**	**	***	38.02	-	-	190.73	-4.40	59.68	162.40	*258.58	8.37
9/14/2015	**	**	***	33.33	-	-	182.37	3.96	59.68	162.40	*254.89	12.06
10/5/2015	**	**	***	32.63	-	-	178.3	8.03	59.71	162.37	*260.16	6.79
11/11/2015	**	**	***	35.51	-	-	178.75	7.58	59.68	162.40	*260.42	6.53
12/7/2015	**	**	***	38.88	-	-	178.08	8.25	59.67	162.41	*257.8	9.15
1/6/2016	**	**	***	35.88	-	-	188.1	-1.77	59.62	162.46	*255.32	11.63
2/8/2016	**	**	***	38.74	-	-	164.92	21.41	59.63	162.45	*244.36	22.59
3/7/2016	**	**	****	44.86	-	-	163.61	22.72	59.59	162.49	*247.66	19.29
4/5/2016	**	**	****	46.59	-	-	169.8	16.53	59.84	162.24	*252.64	14.31
5/9/2016	**	**	****	39.45	-	-	172.11	14.22	59.59	162.49	*261.47	5.48
6/13/2016	**	**	****	42.15	-	-	174.81	11.52	59.65	162.43	*257.19	9.76
7/11/2016	**	**	****	41.75	-	-	175.47	10.86	59.67	162.41	*245.81	21.14
8/8/2016	**	**	****	34.28	-	-	171.24	15.09	59.61	162.47	*252.88	14.07
9/6/2016	**	**	****	39.67	-	-	172.78	13.55	59.66	162.42	*260.1	6.85
10/17/2016	**	**	****	40.63	-	-	176.8	9.53	59.6	162.48	*240.55	26.40
11/14/2016	**	**	****	41.82	-	-	178.65	7.68	59.6	162.48	*244.41	22.54
12/13/2016	**	**	****	41.64	-	-	177.75	8.58	59.62	162.46	*251.4	15.55
1/12/2017	**	**	****	40.21	-	-	175.95	10.38	59.62	162.46	*250.17	16.78
2/6/2017	**	**	****	38.57	-	-	172	14.33	59.62	162.46	*255.35	11.60
3/13/2017	**	**	****	39.72	-	-	174.41	11.92	59.6	162.48	*252.36	14.59

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.

Year 2017

DATE	Ely		Gerold - Old (6920 Ely)		Vehling (6908 Ely)		Depamphillis (2771 Sagan Road)		Worthington (6967 Phillips Mill Road)		Mihalich (6962 Ely Road)	
	TOC (Ft.) 255.20		TOC (Ft.) 248.01		TOC (Ft.) 221.28		TOC (Ft.) 186.33		TOC (Ft.) 222.08		TOC (Ft.)	266.95
	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)

Notes: * Readings taken manually on or about date as noted.

** Obstruction.

*** Readings take from a continuous logging device

**** Continuous logging device failed, manual measurements taken

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.
Year 2017

DATE	Diodati (2759 Sugan Road)		Friends (Solebury Friends Well)		Holbrow (7022 Ely Road)		Ammirati (2830 Sugan Road)		Rogan (2877 Sugan Road)		Winterbottom		Bucciarelli-1	
	TOC (Ft.)	157.97	TOC (Ft.)	241.09	TOC (Ft.)	189.86	TOC (Ft.)	172.49	TOC (Ft.)	224.17	TOC (Ft.)	178.05	TOC (Ft.)	193.03
	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
1/9/2014	-	-	-	-	**	**	-	-	-	-	-	-	81.84	111.19
1/20/2014	140.37	17.6	192.48	48.61	**	**	140.69	31.8	200.37	23.8	-	-		
2/20/2014	-	-	191.52	49.57	**	**	-	-	-	-	-	-		
2/24/2014	-	-	190.66	50.43	**	**	-	-	198.15	26.02	-	-		
3/20/2014	136.72	21.25	186.1	54.99	**	**	134.93	37.56	195.14	29.03	-	-		
3/31/2014	-	-	-	-	**	**	-	-	-	-	-	-	76.1	116.93
4/7/2014	-	-	-	-	**	**	-	-	-	-	-	-		
4/21/2014	135.93	22.04	189.1	51.99	**	**	134.86	37.63	194	30.17	-	-		
4/28/2014	-	-	-	-	**	**	-	-	-	-	-	-	88.29	104.74
5/6/2014	-	-	-	-	**	**	-	-	-	-	-	-		
5/19/2014	132.95	25.02	192.29	48.80	**	**	132.16	40.33	190.45	33.72	-	-		
5/29/2017	-	-	-	-	**	**	-	-	-	-	-	-	77.2	115.83
6/2/2014	-	-	-	-	**	**	-	-	-	-	-	-		
6/16/2014	138.2	19.77	200.6	40.49	**	**	139.79	32.7	197.59	26.58	-	-		
6/30/2014	-	-	-	-	**	**	-	-	-	-	-	-	79.8	113.23
7/1/2014	-	-	-	-	**	**	-	-	-	-	-	-	-	-
7/7/2014	-	-	-	-	**	**	-	-	-	-	-	-	-	-
7/17/2014	143.63	14.34	212.83	28.26	**	**	147.2	25.29	204.7	19.47	-	-	-	-
7/22/2014	-	-	-	-	**	**	-	-	-	-	-	-	***90.61	102.42
8/1/2014	-	-	-	-	**	**	-	-	-	-	-	-	-	-
8/7/2014	-	-	-	-	**	**	-	-	-	-	-	-	-	-
8/14/2014	146.36	11.61	222.8	18.29	**	**	151.3	21.19	208.5	15.67	-	-	-	-
8/20/2014	-	-	-	-	**	**	-	-	-	-	-	-	-	-
8/25/2014	-	-	-	-	**	**	-	-	-	-	-	-	***91.51	101.52
9/2/2014	-	-	-	-	**	**	-	-	-	-	-	-	-	-
9/10/2014	147.83	10.14	227.66	13.43	**	**	154.04	18.45	210.91	13.26	-	-	-	-
9/18/2014	-	-	-	-	**	**	-	-	-	-	-	-	-	-
9/24/2014	-	-	-	-	**	**	-	-	-	-	-	-	***94.04	98.99
10/14/2014	148.56	9.41	230.2	10.89	**	**	155.69	16.8	211.95	12.22	-	-	***92.87	100.16
11/20/2014	148.8	9.17	234.03	7.06	**	**	156.57	15.92	212.42	11.75	-	-	***92.94	100.09
12/15/2014	146.43	11.54	222.44	18.65	**	**	153.2	19.29	209.15	15.02	-	-	***91.89	101.14
1/15/2015	146.96	11.01	215.6	25.49	**	**	152.71	19.78	209.35	14.82	-	-	***79.80	113.23

STATIC WATER LEVEL TABLE
New Hope Crushed Stone & Lime Company, Inc.
Year 2017

DATE	Diodati (2759 Sugan Road)		Friends (Solebury Friends Well)		Holbrow (7022 Ely Road)		Ammirati (2830 Sugan Road)		Rogan (2877 Sugan Road)		Winterbottom		Bucciarelli-1	
	TOC (Ft.)	157.97	TOC (Ft.)	241.09	TOC (Ft.)	189.86	TOC (Ft.)	172.49	TOC (Ft.)	224.17	TOC (Ft.)	178.05	TOC (Ft.)	193.03
	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)	Depth to Water (ft.)	SWL Reading (msl)
2/16/2015	145.65	12.32	212.68	28.41	**	**	150.75	21.74	207.38	16.79	-	-	***81.14	111.89
3/16/2015	136	21.97	186.25	54.84	**	**	137.1	35.39	197.95	26.22	-	-	***75.54	117.49
4/15/2015	140.98	16.99	201.01	40.08	**	**	142.95	29.54	200.9	23.27	-	-	***85.03	108
5/13/2015	143.1	14.87	210.33	30.76	**	**	146.03	26.46	204.05	20.12	-	-	***91.67	101.36
6/10/2015	145.44	12.53	218.24	22.85	**	**	150.34	22.15	207.23	16.94	-	-	***87.62	105.41
7/6/2015	146.69	11.28	223.32	17.77	**	**	152	20.49	208.8	15.37	-	-	***92.80	100.23
8/5/2015	148.77	9.2	227.1	13.99	**	**	154.75	17.74	211.63	12.54	-	-	***94.14	98.89
9/14/2015	151.04	6.93	231.27	9.82	**	**	158.48	14.01	214.3	9.87	-	-	***97.23	95.8
10/5/2015	151.2	6.77	234.3	6.79	**	**	158.84	13.65	214.55	9.62	-	-	***95.75	97.28
11/11/2015	151.8	6.17	231.27	9.82	**	**	159.4	13.09	215.27	8.9	-	-	***92.56	100.47
12/7/2015	151.77	6.2	230.37	10.72	**	**	159.08	13.41	215.12	9.05	-	-	***90.6	102.43
1/6/2016	148.14	9.83	214.08	27.01	**	**	153.48	19.01	210.99	13.18	-	-	***88.62	104.41
2/8/2016	142.23	15.74	195.7	45.39	**	**	144.7	27.79	204.16	20.01	-	-	***76.84	116.19
3/7/2016	140.27	17.7	192.82	48.27	**	**	140.27	32.22	199.78	24.39	-	-	***81.54	111.49
4/5/2016	144.15	13.82	210.59	30.5	**	**	146.6	25.89	204.65	19.52	-	-	***85.13	107.9
5/9/2016	146.18	11.79	218.1	22.99	**	**	150.5	21.99	208.08	16.09	-	-	***88.64	104.39
6/13/2016	148	9.97	231.65	9.44	**	**	153.14	19.35	210.15	14.02	-	-	***82.09	110.94
7/11/2016	148.9	9.07	228.1	12.99	**	**	155	17.49	211.85	12.32	-	-	***81.7	111.33
8/8/2016	145.43	12.54	204.35	36.74	**	**	149.25	23.24	207.5	16.67	-	-	***82.4	110.63
9/6/2016	147.03	10.94	217.43	23.66	**	**	151.15	21.34	209.16	15.01	-	-	***84.21	108.82
10/17/2016	149.91	8.06	227.54	13.55	**	**	155.7	16.79	212.88	11.29	-	-	***87.4	105.63
11/14/2016	151.4	6.57	231.46	9.63	**	**	158.95	13.54	214.55	9.62	-	-	***90.7	102.33
12/13/2016	150.8	7.17	232.05	9.04	**	**	157.77	14.72	214	10.17	-	-	***91.2	101.83
1/12/2017	150.22	7.75	226.95	14.14	**	**	155.86	16.63	212.82	11.35	-	-	***89.54	103.49
2/6/2017	146.5	11.47	207	34.09	**	**	149.96	22.53	207.95	16.22	-	-	***88.87	104.16
3/13/2017	148.34	9.63	219.5	21.59	**	**	152.52	19.97	210.33	13.84	-	-	***90.11	102.92

Note: ** Previous homeowner moved / Permission to enter property not granted by new owner.

*** Readings taken manually on or about date noted

ATTACHMENT 2.0
QUARRY BASIN CALCULATIONS

1st Quarter 2017

New Hope Crushed Stone, Inc.
Solebury, Bucks Co., PA

Calculation From:		1/1/2017	3/31/2017	90 days	
Measured Component	Variable	Vol. (gallons)	Daily Avg (gpd)	% of Basin	
Quarry Precip IN (Less 20% Evap.)	Pq = Precip. Quarry	14,679,500	163,106		
Basin Precip IN	Pb = Basin Precip.	250,931,620	2,788,129		
Stream Flow IN	Q = Stream Flow	99,030,564	1,100,340	NA	
Quarry Pumped Water	Quarry Pumping & Storage	44,617,820	495,754		
Quarry Water South Sump Level Change (feet) 6.0	Sump Storage + Quarry Storage	NA	NA		
North Pit Water Inflow		NA	NA		
Calculated Groundwater Component	Delta Sg1 = Groundwater	NA	NA		
Calculated Groundwater Base-flow	Delta Sg2 = Base-flow	NA	NA		
Transient Groundwater Flow OUT	Delta Sg	NA	NA	NA	
Calculated ET OUT	ET= Evapotrans.	NA	NA	NA	

1. The change in Sump Storage was calculated by multiplying the change in the sump stage over the period of record by the area of the sump (125,620 square feet) and converting to gallons (multiply by 7.48).
2. A rise in sump level equates to an increased groundwater component as it represents groundwater not pumped by the quarry.
3. The basin area west of the Furlong Fault equals 1.99 square miles.
4. Quarry Precipitation shown assumes evaporation loss of 20 %.

ATTACHMENT 3.0

MINIMUM / MAXIMUM DISCHARGE TABLE

MINIMUM / MAXIMUM DISCHARGE TABLE

New Hope Crushed Stone & Lime Company, Inc.

(Year 2017)

DATE	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)
1	0.69	0.36	0.86	0.51	0.57	0.35																		
2	0.69	0.43	0.85	0.3	0.58	0.33																		
3	0.67	0.39	0.56	0.3	0.59	0.34																		
4	0.61	0.35	0.55	0.31	0.61	0.36																		
5	0.64	0.37	0.54	0.31	0.62	0.32																		
6	0.64	0.34	0.83	0	0.6	0.32																		
7	0.76	0	0.93	0	0.57	0.31																		
8	0.77	0.47	0.89	0.47	0.55	0.32																		
9	0.78	0.46	0.81	0.48	0.55	0.32																		
10	0.77	0.44	0.79	0.47	0.59	0.34																		
11	0.68	0.41	0.75	0.45	0.62	0.37																		
12	0.67	0.41	0.76	0.48	0.61	0.35																		
13	0.68	0.39	0.76	0.22	0.6	0.28																		
14	0.7	0.4	0.41	0.19	0.57	0.32																		
15	0.66	0.36	0.57	0.22	0.58	0.31																		
16	0.69	0.34	0.58	0.33	0.58	0.32																		
17	0.65	0.38	0.6	0.33	0.57	0.3																		
18	0.65	0.4	0.6	0.3	0.55	0.34																		
19	0.63	0.35	0.58	0.34	0.56	0.3																		
20	0.6	0.35	0.72	0.05	0.57	0.29																		
21	0.59	0.38	0.75	0.05	0.54	0.26																		
22	0.58	0.36	0.57	0.32	0.57	0.28																		
23	0.58	0.29	0.57	0.33	0.58	0.31																		
24	0.58	0.31	0.67	0.07	0.58	0.31																		
25	0.52	0.28	0.86	0	0.53	0.3																		
26	0.53	0.29	0.87	0.57	0.56	0.34																		
27	0.58	0.06	0.9	0.19	0.55	0.3																		
28	0.53	0.31	0.57	0.16	0.9	0.33																		
29	0.52	0.3			0.91	0.21																		
30	0.88	0.3			0.51	0.22																		
31	0.89	0.55			0.52	0.3																		

* Minimum/Maximum Discharge Volumes are discussed in the Report Text.

ATTACHMENT 4.0
DISCHARGE MONITORING REPORT

PERMITTEE NAME/ADDRESS (Include

Facility Name/Location if different)

NAME New Hope Crushed Stone & Lime Co.

ADDRESS 6970 Phillips Mill Road

P.O. Box 248

New Hope, PA 18938

FACILITY New Hope Crushed Stone Quarry SMP #7974SM3

LOCATION Solebury Township, Bucks County

National Pollutant Discharge Elimination System (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

PA0595853

Permit Number

(17-19)

001

Discharge Number

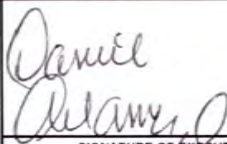
Form Approved.

OMB No. 2040-0004

Monitoring Period

	Year	Mo	Day		Year	Mo	Day
From	17	01	01	To	17	03	31

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Acidity	SAMPLE MEASUREMENT				22.5	22.5	22.5		0	1/31	Grab
	PERMIT REQUIREMENT				----	----	----	mg/l			
Alkalinity	SAMPLE MEASUREMENT				160	163	165		0	1/31	Grab
	PERMIT REQUIREMENT				----	----	----	mg/l			
Chloride	SAMPLE MEASUREMENT				20.5	21.6	22.7		0	1/31	Grab
	PERMIT REQUIREMENT				----	----	----	mg/l			
Total Dissolved Solids	SAMPLE MEASUREMENT				305	312	317		0	1/31	Grab
	PERMIT REQUIREMENT				----	----	----	mg/l			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
TYPED OR PRINTED			(215) 862-5289	2017	4	27	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include

Facility Name/Location if different)

NAME New Hope Crushed Stone & Lime Co.

ADDRESS 6970 Phillips Mill Road
P.O. Box 248

FACILITY New Hope Crushed Stone Quarry SMP #7974SM3

LOCATION Solebury Township, Bucks County

National Pollutant Discharge Elimination System (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

PA0595853
Permit Number

001
Discharge Number

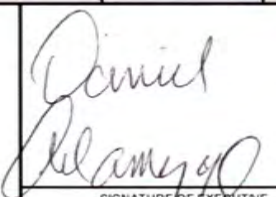
Form Approved.

OMB No. 2040-0004

Monitoring Period

From	Year	Mo	Day	To	Year	Mo	Day
	17	01	01		17	03	31

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
pH (Field)	SAMPLE MEASUREMENT				7.98	8.21	8.43		0	1/31	Grab
	PERMIT REQUIREMENT				6.0	----	9.0	Std. Units			
Total Suspended Solids	SAMPLE MEASUREMENT				1.50	1.94	5.67		0	Weekly	Grab
	PERMIT REQUIREMENT				----	35.0	70.0	mg/l			
Total Iron	SAMPLE MEASUREMENT				0.200	0.200	0.200		0	1/31	Grab
	PERMIT REQUIREMENT				----	----	----	mg/l			
Manganese	SAMPLE MEASUREMENT				0.005	0.005	0.005		0	1/31	Grab
	PERMIT REQUIREMENT				----	----	----	mg/l			
Aluminum	SAMPLE MEASUREMENT				0.200	0.200	0.200		0	1/31	Grab
	PERMIT REQUIREMENT				----	----	----	mg/l			
Sulfate	SAMPLE MEASUREMENT				54.8	58.4	62.2		0	1/31	Grab
	PERMIT REQUIREMENT				----	----	----	mg/l			
Specific Conductance	SAMPLE MEASUREMENT				482	497	504		0	1/31	Grab
	PERMIT REQUIREMENT				----	----	----	umhos			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER DANIEL ADAMCZYK	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			(215) 862-5289		2017	4	27
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ATTACHMENT 5.0
ANALYTICAL REPORTS

CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS

P.O. No:

Inv. No: EOM-01/17 PI
PWSID No:

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L6599369-1 NEW HOPE CRUSHED STONE QUARRY 01/03/17 01:15pm NA C Joan Cummings Nulty, Eurofins QC, Inc.
Received Date/Time/Temp 01/03/17 05:45pm 2.0 C **Iced (Y/N):** Y

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
-----------	--------	------	-------	--------	----	----	--------------------------

GENERAL CHEMISTRY (EUROFINS LANCASTER)

Chloride	20.5		mg/l	EPA 300.0	5	2.00	01/18/17 02:45AM CMW
Sulfate	62.2		mg/l	EPA 300.0	5	5.00	01/18/17 02:45AM CMW
Acidity	ND		mg/l	SM 2310 B-1997	1	45.0	01/13/17 08:26PM BPC
Alkalinity	165		mg/l	SM 2320 B-1997	1	5.00	01/07/17 06:02AM BPC
Conductivity @ 25.0 C	504		umhos/cm	SM 2510 B-1997	1	5.00	01/09/17 06:42PM BPC
Total Dissolved Solids	313		mg/l	SM 2540 C-1997	1	60	01/05/17 06:22AM ANP
Total Suspended Solids	ND		mg/l	SM 2540 D-1997	1	3.00	01/09/17 10:23AM ALH

METALS (EUROFINS LANCASTER)

Aluminum	ND		mg/l	SW-846 6010C	1	0.400	01/09/17 11:52PM MRM
Iron	ND		mg/l	SW-846 6010C	1	0.400	01/09/17 11:52PM MRM
Manganese	ND		mg/l	SW-846 6010C	1	0.0100	01/09/17 11:52PM MRM

Sample Comments | Result Qualifiers:

L6599369-1 :

U = ND evaluated at the RL or MDL, when shown.



CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **P.O. No:** **Inv. No:** EOM-01/17 PI
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **PWSID No:**

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6636906-1	011217 NEW HOPE CRUSHED STONE QUARRY GRAB	01/12/17 12:45pm NA C	Customer
	Received Date/Time/Temp 01/12/17 01:54pm 1.9 C	Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
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GENERAL CHEMISTRY (EUROFINS LANCASTER)

Total Suspended Solids	ND		mg/l	SM 2540 D-1997	1	3.00	01/17/17 09:22AM KDL
------------------------	----	--	------	----------------	---	------	----------------------

Sample Comments | Result Qualifiers:

L6636906-1 :

U = ND evaluated at the RL or MDL, when shown.



CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **P.O. No:** **Inv. No:** EOM-01/17 PI
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **PWSID No:**

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6641426-1	NEW HOPE CRUSHED STONE QUARRY, 011817 GRAB	01/18/17 10:15am NA C	Customer
	Received Date/Time/Temp 01/18/17 11:02am 2.3 C	Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
GENERAL CHEMISTRY (EUROFINS LANCASTER)							
Total Suspended Solids	5.67		mg/l	SM 2540 D-1997	1	3.00	01/20/17 09:10AM ALH

Sample Comments | Result Qualifiers:

L6641426-1 :

U = ND evaluated at the RL or MDL, when shown.



CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **P.O. No:** **Inv. No:** EOM-01/17 PI
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **PWSID No:**

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6648086-1	NEW HOPE CRUSHED STONE QUARRY, 012417 GRAB	01/24/17 10:35am NA C	Customer
	Received Date/Time/Temp 01/24/17 11:12am 1.6 C	Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
GENERAL CHEMISTRY (EUROFINS LANCASTER)							
Total Suspended Solids	ND		mg/l	SM 2540 D-1997	1	3.00	01/26/17 08:34AM ALH

Sample Comments | Result Qualifiers:

L6648086-1 :

U = ND evaluated at the RL or MDL, when shown.



Eurofins QC, Inc.

Analytical Report

Printed 02/03/17 19:18 QC36

CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No:C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS

P.O. No:

Inv. No: EOM-02/17 PI

PWSID No:

Sample ID	Sample Description	Received Date/Time/Temp	Iced (Y/N):
L6652535-1	NEW HOPE CRUSHED STONE QUARRY, 013017 GRAB	01/30/17 11:45am 2.5 C	Y

Samp. Date/Time/Temp Sampled by
01/30/17 11:00am NA C Customer

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
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GENERAL CHEMISTRY (EUROFINS LANCASTER)

Total Suspended Solids	ND	mg/l	SM 2540 D-1997	1	3.00	02/01/17 09:20AM	ALH
------------------------	----	------	----------------	---	------	------------------	-----

Sample Comments | Result Qualifiers:

L6652535-1 :



PIN: 62766

Serial Number: 6132081

CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **P.O. No:** **Inv. No:** EOM-02/17 PI
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **PWSID No:**

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L6640990-1 0217 NEW HOPE CRUSHED STONE QUARRY 02/06/17 00:00am NA C Customer
Received Date/Time/Temp 02/06/17 02:26pm 2.0 C **Iced (Y/N):** Y

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
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GENERAL CHEMISTRY (EUROFINS LANCASTER)

Chloride	22.7		mg/l	EPA 300.0	5	2.00	02/16/17 03:53AM CMW
Sulfate	58.1		mg/l	EPA 300.0	5	5.00	02/16/17 03:53AM CMW
Acidity	ND		mg/l	SM 2310 B-1997	1	45.0	02/10/17 09:34PM BPC
Alkalinity	163		mg/l	SM 2320 B-1997	1	5.00	02/14/17 04:36PM BPC
Conductivity @ 25.0 C	504		umhos/cm	SM 2510 B-1997	1	5.00	02/14/17 04:00PM BPC
Total Dissolved Solids	305		mg/l	SM 2540 C-1997	1	60	02/07/17 12:47PM NTM
Total Suspended Solids	ND		mg/l	SM 2540 D-1997	1	3.00	02/09/17 09:18AM KDL

METALS (EUROFINS LANCASTER)

Aluminum	ND		mg/l	SW-846 6010C	1	0.400	02/10/17 01:20AM MRM
Iron	ND		mg/l	SW-846 6010C	1	0.400	02/13/17 03:42AM MRM
Manganese	ND		mg/l	SW-846 6010C	1	0.0100	02/10/17 01:20AM MRM

Sample Comments | Result Qualifiers:

L6640990-1 :

A sample collection time was not provided by the client.



Eurofins QC, Inc.

Analytical Report

Printed 02/22/17 11:20 QC36

CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No:C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **P.O. No:** **Inv. No:** EOM-02/17 PI
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **PWSID No:**

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6679942-1	NEW HOPE CRUSHED STONE QUARRY 021417 GRAB	02/14/17 10:04am NA C	Customer
	Received Date/Time/Temp 02/14/17 10:54am 1.2 C	Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
GENERAL CHEMISTRY (EUROFINS LANCASTER)							
Total Suspended Solids	ND		mg/l	SM 2540 D-1997	1	3.00	02/16/17 08:46AM ALH

Sample Comments | Result Qualifiers:

L6679942-1 :



PIN: 62766

Serial Number: 6157602

CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **P.O. No:** **Inv. No:** EOM-03/17 PI
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **PWSID No:**

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L6686976-1 NEW HOPE CRUSHED STONE QUARRY 022117 GRAB 02/21/17 10:05am NA C Customer
 Received Date/Time/Temp 02/21/17 10:53am 3.8 C **Iced (Y/N):** Y

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
GENERAL CHEMISTRY (EUROFINS LANCASTER)							
Total Suspended Solids	ND		mg/l	SM 2540 D-1997	1	3.00	02/23/17 10:08AM KDL

Sample Comments | Result Qualifiers:

L6686976-1 :



Eurofins QC, Inc.

Analytical Report

Printed 03/06/17 23:40 QC36

CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No:C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS

P.O. No:

Inv. No: EOM-03/17 PI
PWSID No:

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6692546-1	NEW HOPE CRUSHED STONE QUARRY, 022817	02/28/17 11:00am NA C	Customer
	Received Date/Time/Temp 02/28/17 11:48am 4.1 C	Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
GENERAL CHEMISTRY (EUROFINS LANCASTER)							
Total Suspended Solids	ND		mg/l	SM 2540 D-1997	1	6.00	03/02/17 08:52AM ALH

Sample Comments | Result Qualifiers:

L6692546-1 :



PIN: 62766

Serial Number: 6176371

CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **P.O. No:** **Inv. No:** EOM-03/17 PI
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **PWSID No:**

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L6681981-1 NEW HOPE CRUSHED STONE QUARRY 03/06/17 10:32am NA C Customer
Received Date/Time/Temp 03/06/17 02:30pm 1.6 C **Iced (Y/N):** Y

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
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GENERAL CHEMISTRY (EUROFINS LANCASTER)

Chloride	21.6		mg/l	EPA 300.0	5	2.00	03/10/17 04:18AM AML
Sulfate	54.8		mg/l	EPA 300.0	5	5.00	03/10/17 04:18AM AML
Acidity	ND		mg/l	SM 2310 B-1997	1	45.0	03/14/17 01:45AM MLL
Alkalinity	160		mg/l	SM 2320 B-1997	1	5.00	03/09/17 10:32PM BPC
Conductivity @ 25.0 C	482		umhos/cm	SM 2510 B-1997	1	5.00	03/09/17 10:32PM BPC
Total Dissolved Solids	317		mg/l	SM 2540 C-1997	1	60	03/08/17 11:04PM HMR
Total Suspended Solids	ND		mg/l	SM 2540 D-1997	1	3.00	03/09/17 08:51AM KDL

METALS (EUROFINS LANCASTER)

Aluminum	ND		mg/l	SW-846 6010C	1	0.400	03/12/17 04:02PM EFS
Iron	ND		mg/l	SW-846 6010C	1	0.400	03/12/17 04:02PM EFS
Manganese	ND		mg/l	SW-846 6010C	1	0.0100	03/12/17 04:02PM EFS

Sample Comments | Result Qualifiers:

L6681981-1 :



CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **P.O. No:** **Inv. No:** EOM-03/17 PI
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **PWSID No:**

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L6717405-1 NEW HOPE CRUSHED STONE QUARRY, 031317 03/13/17 12:56pm NA C Customer
 Received Date/Time/Temp 03/13/17 02:03pm 2.1 C **Iced (Y/N):** Y

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
GENERAL CHEMISTRY (EUROFINS LANCASTER)							
Total Suspended Solids	ND		mg/l	SM 2540 D-1997	1	3.00	03/17/17 08:48AM ALH

Sample Comments | Result Qualifiers:

L6717405-1 :



Eurofins QC, Inc.

Analytical Report

Printed 03/30/17 11:21 OC36

CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No:C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS

P.O. No:

Inv. No: EOM-03/17 PI
PWSID No:

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6726538-1	NEW HOPE CRUSHED STONE QUARRY, 032117	03/21/17 10:14am NA C	Customer
	Received Date/Time/Temp 03/21/17 01:30pm 1.8 C	Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
GENERAL CHEMISTRY (EUROFINS LANCASTER)							
Total Suspended Solids	ND		mg/l	SM 2540 D-1997	1	3.00	03/24/17 09:56AM KDL

Sample Comments | Result Qualifiers:

L6726538-1 :



PIN: 62766

Serial Number: 6219622

CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Regarding:
CHARLES HANDSCHIN
EASTERN GEOTECHNICAL SERVICES, INC.
PO BOX 64114
SOUDERTON, PA 18964

Account No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **P.O. No:** **Inv. No:** EOM-04/17 PI
Project No: C00365, EASTERN GEOTECHNICAL SVCS SOUDERTON EGS **PWSID No:**

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L6736090-1 NEW HOPE CRUSHED STONE QUARRY, 032917 03/29/17 11:01am NA C Customer
 Received Date/Time/Temp 03/29/17 11:52am 3.3 C **Iced (Y/N):** Y

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
GENERAL CHEMISTRY (EUROFINS LANCASTER)							
Total Suspended Solids	ND		mg/l	SM 2540 D-1997	1	3.00	04/03/17 10:11AM KDL

Sample Comments | Result Qualifiers:

L6736090-1 :



ATTACHMENT 6.0
MILTRONICS DATA RECORDING

NEW HOPE CRUSHED STONE

Milltronics Data Recording

Date	Rainfall (In.)	Million Gallons Per Day (MGD)	Gallons Per Day (GPD)
01/01/17	0.00	0.54	537580
01/02/17	0.16	0.56	561784
01/03/17	0.22	0.53	534293
01/04/17	0.00	0.50	495253
01/05/17	0.00	0.52	516329
01/06/17	0.04	0.51	505160
01/07/17	0.00	0.59	590741
01/08/17	0.00	0.64	636783
01/09/17	0.00	0.63	628253
01/10/17	0.01	0.60	598455
01/11/17	0.33	0.56	555220
01/12/17	0.02	0.54	544182
01/13/17	0.00	0.54	537208
01/14/17	0.00	0.54	544038
01/15/17	0.02	0.53	527017
01/16/17	0.01	0.52	518180
01/17/17	0.20	0.53	534075
01/18/17	0.01	0.52	518630
01/19/17	0.00	0.49	490212
01/20/17	0.22	0.49	485146
01/21/17	0.01	0.49	485843
01/22/17	0.04	0.49	486058
01/23/17	1.09	0.46	457633
01/24/17	0.29	0.46	457698
01/25/17	0.00	0.41	411688
01/26/17	0.02	0.41	413572
01/27/17	0.00	0.42	418937
01/28/17	0.00	0.43	425166
01/29/17	0.00	0.42	416467
01/30/17	0.00	0.58	577258
01/31/17	0.00	0.73	727116
02/01/17	0.00	0.70	703452
02/02/17	0.00	0.55	552901
02/03/17	0.00	0.44	443324
02/04/17	0.00	0.44	444171
02/05/17	0.00	0.42	421557
02/06/17	0.00	0.53	530351
02/07/17	0.23	0.67	671403
02/08/17	0.02	0.67	671067
02/09/17	0.15	0.25	252288
02/10/17	0.01	0.64	641686
02/11/17	0.18	0.60	602762
02/12/17	0.20	0.62	622313
02/13/17	0.01	0.45	452879
02/14/17	0.00	0.31	312314
02/15/17	0.00	0.39	392502
02/16/17	0.00	0.47	469688
02/17/17	0.00	0.47	470643

January 2017
Avg. = 0.52 MGD

NEW HOPE CRUSHED STONE

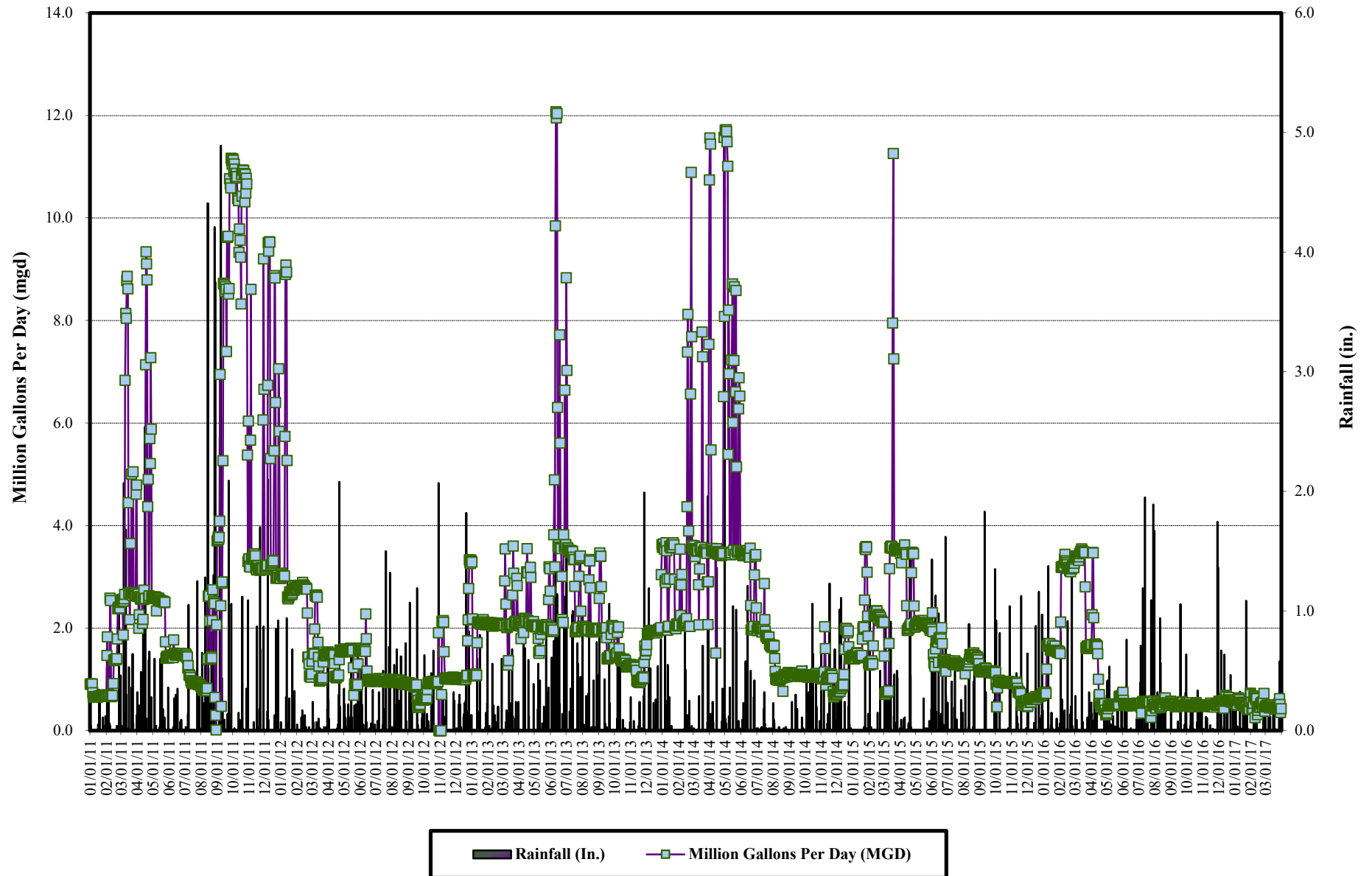
Milltronics Data Recording

Date	Rainfall (In.)	Million Gallons Per Day (MGD)	Gallons Per Day (GPD)
02/18/17	0.00	0.45	453473
02/19/17	0.00	0.45	454210
02/20/17	0.00	0.52	520242
02/21/17	0.00	0.54	542005
02/22/17	0.00	0.55	550806
02/23/17	0.00	0.46	455789
02/24/17	0.00	0.51	513406
02/25/17	0.26	0.57	569849
02/26/17	0.00	0.73	725393
02/27/17	0.00	0.43	426687
02/28/17	0.00	0.38	377063
03/01/17	0.11	0.47	470718
03/02/17	0.01	0.46	460154
03/03/17	0.00	0.49	485409
03/04/17	0.00	0.50	498620
03/05/17	0.00	0.48	480869
03/06/17	0.00	0.46	460655
03/07/17	0.12	0.46	460899
03/08/17	0.01	0.45	446542
03/09/17	0.00	0.44	444091
03/10/17	0.12	0.47	474305
03/11/17	0.01	0.50	501662
03/12/17	0.00	0.49	494066
03/13/17	0.00	0.46	455222
03/14/17	0.01	0.46	463655
03/15/17	0.00	0.46	461664
03/16/17	0.24	0.46	455695
03/17/17	0.26	0.44	444496
03/18/17	0.10	0.45	447260
03/19/17	0.02	0.43	430459
03/20/17	0.00	0.43	426951
03/21/17	0.01	0.42	415860
03/22/17	0.00	0.45	445894
03/23/17	0.00	0.45	451297
03/24/17	0.00	0.44	441827
03/25/17	0.00	0.43	432278
03/26/17	0.01	0.44	443387
03/27/17	0.19	0.43	433826
03/28/17	0.58	0.62	623249
03/29/17	0.01	0.51	506549
03/30/17	0.17	0.35	352725
03/31/17	1.58	0.43	427337

February 2017
Avg. = 0.51 MGD

March 2017
Avg. = 0.46 MGD

NEW HOPE CRUSHED STONE & LIME COMPANY, INC.
Rainfall vs. Discharge (Milltronics Data Recording)
(Updated 3/31/17)



ATTACHMENT 7.0

QUARRY DISCHARGE / STREAM FLOW / PRECIPITATION TABLES

MONTHLY AVERAGE DISCHARGE / STREAM FLOW/ PRECIPITATION

Month	Avg. Daily Stream Flow (MGD)	Avg. Daily Quarry Discharge (MGD)	Precipitation (In.)
January-17	1.30	0.52	2.65
February-17	0.83	0.51	1.06
March-17	1.19	0.46	3.52
April-17			
May-17			
June-17			
July-17			
August-17			
September-17			
October-17			
November-17			
December-17			

2016 DAILY DISCHARGE / STREAM FLOW / PRECIPITATION

Date	Stream Flow (MGD)	Quarry Discharge (MGD)	Precipitation (In.)
1/1/2016	0.09	0.74	0.00
1/2/2016	0.34	0.73	0.00
1/3/2016	0.28	0.74	0.00
1/4/2016	0.31	0.75	0.00
1/5/2016	0.06	0.75	0.00
1/6/2016	0.06	0.73	0.01
1/7/2016	0.06	1.20	0.01
1/8/2016	0.05	1.64	0.00
1/9/2016	0.05	1.66	0.02
1/10/2016	0.99	1.67	1.38
1/11/2016	3.22	1.70	0.01
1/12/2016	3.82	1.69	0.01
1/13/2016	4.17	1.69	0.01
1/14/2016	1.93	1.57	0.00
1/15/2016	0.80	1.56	0.05
1/16/2016	0.04	1.58	0.15
1/17/2016	0.23	1.59	0.03
1/18/2016	1.99	1.64	0.01
1/19/2016	3.85	1.66	0.00
1/20/2016	0.18	1.59	0.01
1/21/2016	0.15	1.59	0.00
1/22/2016	0.04	1.61	0.00

2016 DAILY DISCHARGE / STREAM FLOW / PRECIPITATION

Date	Stream Flow (MGD)	Quarry Discharge (MGD)	Precipitation (In.)
1/23/2016	0.93	1.65	0.00
1/24/2016	1.66	1.57	0.01
1/25/2016	0.05	1.55	0.01
1/26/2016	0.05	1.54	0.10
1/27/2016	0.06	1.54	0.01
1/28/2016	0.06	1.53	0.00
1/29/2016	0.05	1.56	0.00
1/30/2016	0.04	1.54	0.02
1/31/2016	0.05	1.51	0.03
2/1/2016	0.20	1.53	0.06
2/2/2016	0.28	1.50	0.02
2/3/2016	2.18	2.12	0.83
2/4/2016	5.48	3.18	0.04
2/5/2016	5.07	3.20	0.26
2/6/2016	5.93	3.18	0.00
2/7/2016	3.77	3.18	0.00
2/8/2016	0.42	3.21	0.01
2/9/2016	0.32	3.21	0.11
2/10/2016	0.45	3.34	0.17
2/11/2016	4.20	3.44	0.01
2/12/2016	6.46	3.28	0.00
2/13/2016	6.46	3.31	0.00
2/14/2016	6.01	3.27	0.00
2/15/2016	3.69	3.24	0.02
2/16/2016	1.50	3.16	0.92
2/17/2016	1.86	3.18	0.00
2/18/2016	6.16	3.18	0.00
2/19/2016	4.85	3.17	0.00
2/20/2016	0.37	3.12	0.00
2/21/2016	0.15	3.14	0.14
2/22/2016	0.47	3.10	0.00
2/23/2016	0.56	3.17	0.21
2/24/2016	0.62	3.15	1.43
2/25/2016	5.12	3.19	0.04
2/26/2016	6.46	3.22	0.00
2/27/2016	6.27	3.19	0.00
2/28/2016	3.91	3.18	0.00
2/29/2016	1.07	3.26	0.01
3/1/2016	2.76	3.35	0.00
3/2/2016	2.80	3.38	0.29

2016 DAILY DISCHARGE / STREAM FLOW / PRECIPITATION

Date	Stream Flow (MGD)	Quarry Discharge (MGD)	Precipitation (In.)
3/3/2016	6.06	3.40	0.00
3/4/2016	5.50	3.41	0.09
3/5/2016	5.17	3.39	0.00
3/6/2016	5.00	3.37	0.00
3/7/2016	2.79	3.36	0.00
3/8/2016	0.36	3.32	0.00
3/9/2016	0.31	3.39	0.00
3/10/2016	0.27	3.45	0.00
3/11/2016	0.24	3.45	0.00
3/12/2016	0.22	3.49	0.00
3/13/2016	0.29	3.51	0.01
3/14/2016	3.65	3.54	0.67
3/15/2016	1.35	3.51	0.02
3/16/2016	2.07	3.47	0.07
3/17/2016	0.76	3.49	0.00
3/18/2016	0.23	3.47	0.01
3/19/2016	0.22	3.48	0.00
3/20/2016	0.22	3.47	0.00
3/21/2016	0.22	2.80	0.01
3/22/2016	0.19	1.62	0.00
3/23/2016	0.18	1.62	0.00
3/24/2016	0.15	1.60	0.00
3/25/2016	0.15	1.65	0.11
3/26/2016	0.11	1.63	0.01
3/27/2016	0.11	1.64	0.00
3/28/2016	0.19	1.66	0.32
3/29/2016	0.11	1.63	0.00
3/30/2016	0.09	1.64	0.00
3/31/2016	0.09	1.66	0.01
4/1/2016	0.04	1.67	0.24
4/2/2016	0.17	1.68	0.15
4/3/2016	4.70	2.26	0.02
4/4/2016	6.46	3.48	0.09
4/5/2016	2.47	3.46	0.01
4/6/2016	2.09	2.20	0.00
4/7/2016	0.00	1.67	0.27
4/8/2016	0.01	1.66	0.01
4/9/2016	0.19	1.69	0.16
4/10/2016	1.80	1.67	0.00
4/11/2016	0.15	1.65	0.00

2016 DAILY DISCHARGE / STREAM FLOW / PRECIPITATION

Date	Stream Flow (MGD)	Quarry Discharge (MGD)	Precipitation (In.)
4/12/2016	0.06	1.66	0.24
4/13/2016	1.62	1.64	0.00
4/14/2016	0.83	1.50	0.00
4/15/2016	0.05	1.00	0.00
4/16/2016	0.05	0.66	0.00
4/17/2016	0.04	0.70	0.00
4/18/2016	0.04	0.53	0.00
4/19/2016	0.04	0.48	0.00
4/20/2016	0.03	0.46	0.00
4/21/2016	0.03	0.51	0.00
4/22/2016	0.03	0.49	0.00
4/23/2016	0.03	0.50	0.01
4/24/2016	0.02	0.51	0.00
4/25/2016	0.02	0.41	0.00
4/26/2016	0.02	0.50	0.11
4/27/2016	0.02	0.52	0.00
4/28/2016	0.04	0.40	0.23
4/29/2016	0.06	0.31	0.02
4/30/2016	0.01	0.31	0.00
5/1/2016	0.02	0.34	0.30
5/2/2016	0.01	0.34	0.42
5/3/2016	0.02	0.43	0.42
5/4/2016	0.01	0.48	0.08
5/5/2016	0.01	0.48	0.01
5/6/2016	0.04	0.49	0.54
5/7/2016	0.05	0.48	0.00
5/8/2016	0.02	0.48	0.06
5/9/2016	0.20	0.49	0.00
5/10/2016	0.58	0.50	0.00
5/11/2016	0.38	0.50	0.00
5/12/2016	0.11	0.50	0.00
5/13/2016	0.05	0.51	0.12
5/14/2016	0.08	0.52	0.02
5/15/2016	0.04	0.52	0.01
5/16/2016	0.03	0.50	0.01
5/17/2016	0.03	0.52	0.04
5/18/2016	0.03	0.50	0.01
5/19/2016	0.03	0.49	0.01
5/20/2016	0.02	0.49	0.00
5/21/2016	0.02	0.50	0.30

2016 DAILY DISCHARGE / STREAM FLOW / PRECIPITATION

Date	Stream Flow (MGD)	Quarry Discharge (MGD)	Precipitation (In.)
5/22/2016	0.10	0.51	0.18
5/23/2016	0.03	0.51	0.03
5/24/2016	0.03	0.51	0.02
5/25/2016	0.02	0.66	0.00
5/26/2016	0.01	0.66	0.00
5/27/2016	0.01	0.67	0.00
5/28/2016	0.01	0.66	0.00
5/29/2016	0.01	0.68	0.21
5/30/2016	0.02	0.69	0.24
5/31/2016	0.01	0.71	0.00
6/1/2016	0.00	0.75	0.00
6/2/2016	0.00	0.59	0.00
6/3/2016	0.00	0.53	0.02
6/4/2016	0.00	0.52	0.01
6/5/2016	0.00	0.53	0.36
6/6/2016	0.00	0.52	0.01
6/7/2016	0.00	0.51	0.06
6/8/2016	0.08	0.51	0.76
6/9/2016	0.02	0.49	0.00
6/10/2016	0.03	0.48	0.00
6/11/2016	0.00	0.50	0.00
6/12/2016	0.00	0.50	0.00
6/13/2016	0.00	0.50	0.00
6/14/2016	0.00	0.50	0.00
6/15/2016	0.00	0.50	0.01
6/16/2016	0.00	0.51	0.02
6/17/2016	0.00	0.49	0.00
6/18/2016	0.00	0.49	0.00
6/19/2016	0.00	0.49	0.00
6/20/2016	0.00	0.49	0.00
6/21/2016	0.00	0.49	0.00
6/22/2016	0.00	0.51	0.00
6/23/2016	0.00	0.51	0.00
6/24/2016	0.00	0.51	0.00
6/25/2016	0.00	0.51	0.00
6/26/2016	0.00	0.52	0.00
6/27/2016	0.00	0.53	0.10
6/28/2016	0.00	0.53	0.07
6/29/2016	0.00	0.52	0.01
6/30/2016	0.00	0.52	0.00

2016 DAILY DISCHARGE / STREAM FLOW / PRECIPITATION

Date	Stream Flow (MGD)	Quarry Discharge (MGD)	Precipitation (In.)
7/1/2016	0.00	0.52	0.09
7/2/2016	0.00	0.52	0.00
7/3/2016	0.00	0.52	0.00
7/4/2016	0.00	0.53	0.40
7/5/2016	0.03	0.52	0.71
7/6/2016	0.00	0.46	0.00
7/7/2016	0.00	0.34	0.00
7/8/2016	0.65	0.54	0.08
7/9/2016	0.05	0.57	1.19
7/10/2016	0.04	0.56	0.01
7/11/2016	0.00	0.55	0.00
7/12/2016	0.00	0.55	0.00
7/13/2016	0.91	0.57	1.95
7/14/2016	0.05	0.56	0.04
7/15/2016	0.03	0.56	0.00
7/16/2016	0.03	0.56	0.09
7/17/2016	0.02	0.55	0.00
7/18/2016	0.00	0.56	0.11
7/19/2016	0.00	0.55	0.00
7/20/2016	0.00	0.54	0.00
7/21/2016	0.00	0.55	0.00
7/22/2016	0.00	0.55	0.00
7/23/2016	0.00	0.37	0.01
7/24/2016	0.00	0.29	0.00
7/25/2016	0.60	0.26	1.09
7/26/2016	0.00	0.39	0.00
7/27/2016	0.00	0.58	0.00
7/28/2016	0.05	0.55	0.09
7/29/2016	1.04	0.48	1.89
7/30/2016	0.22	0.50	0.40
7/31/2016	0.92	0.51	1.67
8/1/2016	0.01	0.51	0.01
8/2/2016	0.00	0.47	0.00
8/3/2016	0.00	0.44	0.00
8/4/2016	0.00	0.44	0.00
8/5/2016	0.00	0.51	0.01
8/6/2016	0.18	0.56	0.32
8/7/2016	0.07	0.56	0.14
8/8/2016	0.00	0.51	0.00
8/9/2016	0.00	0.49	0.00

2016 DAILY DISCHARGE / STREAM FLOW / PRECIPITATION

Date	Stream Flow (MGD)	Quarry Discharge (MGD)	Precipitation (In.)
8/10/2016	0.00	0.53	0.00
8/11/2016	0.52	0.45	0.94
8/12/2016	1.77	0.50	0.57
8/13/2016	0.66	0.48	0.29
8/14/2016	0.36	0.47	0.17
8/15/2016	0.28	0.57	0.10
8/16/2016	0.22	0.51	0.00
8/17/2016	0.25	0.50	0.16
8/18/2016	0.22	0.55	0.25
8/19/2016	0.15	0.60	0.00
8/20/2016	0.13	0.61	0.00
8/21/2016	0.12	0.64	0.19
8/22/2016	0.11	0.54	0.00
8/23/2016	0.08	0.51	0.00
8/24/2016	0.07	0.51	0.00
8/25/2016	0.04	0.52	0.00
8/26/2016	0.04	0.52	0.00
8/27/2016	0.05	0.50	0.00
8/28/2016	0.01	0.51	0.00
8/29/2016	0.00	0.50	0.00
8/30/2016	0.00	0.50	0.00
8/31/2016	0.00	0.50	0.00
9/1/2016	0.01	0.57	0.29
9/2/2016	0.00	0.54	0.00
9/3/2016	0.00	0.51	0.00
9/4/2016	0.00	0.51	0.00
9/5/2016	0.00	0.51	0.00
9/6/2016	0.00	0.51	0.00
9/7/2016	0.00	0.50	0.00
9/8/2016	0.00	0.51	0.00
9/9/2016	0.00	0.50	0.00
9/10/2016	0.00	0.47	0.00
9/11/2016	0.00	0.46	0.00
9/12/2016	0.00	0.46	0.00
9/13/2016	0.00	0.48	0.00
9/14/2016	0.00	0.47	0.08
9/15/2016	0.00	0.48	0.00
9/16/2016	0.00	0.49	0.00
9/17/2016	0.00	0.51	0.00
9/18/2016	0.00	0.54	0.00

2016 DAILY DISCHARGE / STREAM FLOW / PRECIPITATION

Date	Stream Flow (MGD)	Quarry Discharge (MGD)	Precipitation (In.)
9/19/2016	0.19	0.54	1.06
9/20/2016	0.03	0.52	0.00
9/21/2016	0.00	0.51	0.00
9/22/2016	0.00	0.50	0.00
9/23/2016	0.00	0.57	0.00
9/24/2016	0.00	0.55	0.00
9/25/2016	0.00	0.49	0.00
9/26/2016	0.00	0.50	0.00
9/27/2016	0.00	0.49	0.05
9/28/2016	0.00	0.50	0.01
9/29/2016	0.00	0.51	0.32
9/30/2016	0.00	0.53	0.64
10/1/2016	0.00	0.50	0.00
10/2/2016	0.01	0.50	0.01
10/3/2016	0.01	0.48	0.01
10/4/2016	0.01	0.49	0.01
10/5/2016	0.01	0.48	0.01
10/6/2016	0.01	0.54	0.01
10/7/2016	0.01	0.50	0.01
10/8/2016	0.04	0.49	0.04
10/9/2016	0.16	0.48	0.16
10/10/2016	0.00	0.47	0.00
10/11/2016	0.00	0.47	0.00
10/12/2016	0.25	0.47	0.25
10/13/2016	0.02	0.48	0.02
10/14/2016	0.00	0.49	0.00
10/15/2016	0.01	0.47	0.01
10/16/2016	0.00	0.48	0.00
10/17/2016	0.00	0.47	0.00
10/18/2016	0.00	0.48	0.00
10/19/2016	0.00	0.54	0.00
10/20/2016	0.00	0.52	0.00
10/21/2016	0.07	0.49	0.07
10/22/2016	0.34	0.50	0.34
10/23/2016	0.00	0.49	0.00
10/24/2016	0.00	0.49	0.00
10/25/2016	0.00	0.50	0.00
10/26/2016	0.01	0.49	0.01
10/27/2016	0.24	0.50	0.24
10/28/2016	0.00	0.48	0.00

2016 DAILY DISCHARGE / STREAM FLOW / PRECIPITATION

Date	Stream Flow (MGD)	Quarry Discharge (MGD)	Precipitation (In.)
10/29/2016	0.01	0.48	0.01
10/30/2016	0.17	0.48	0.17
10/31/2016	0.00	0.48	0.00
11/1/2016	0.00	0.48	0.00
11/2/2016	0.02	0.47	0.02
11/3/2016	0.01	0.49	0.01
11/4/2016	0.00	0.47	0.00
11/5/2016	0.01	0.49	0.01
11/6/2016	0.00	0.50	0.00
11/7/2016	0.12	0.50	0.12
11/8/2016	0.00	0.49	0.00
11/9/2016	0.11	0.50	0.11
11/10/2016	0.00	0.48	0.00
11/11/2016	0.00	0.48	0.00
11/12/2016	0.00	0.48	0.00
11/13/2016	0.00	0.48	0.00
11/14/2016	0.00	0.47	0.00
11/15/2016	0.05	0.47	0.05
11/16/2016	0.01	0.53	0.01
11/17/2016	0.00	0.50	0.00
11/18/2016	0.00	0.47	0.00
11/19/2016	0.01	0.46	0.01
11/20/2016	0.02	0.48	0.02
11/21/2016	0.00	0.48	0.00
11/22/2016	0.00	0.47	0.00
11/23/2016	0.00	0.46	0.00
11/24/2016	0.00	0.51	0.00
11/25/2016	0.00	0.51	0.00
11/26/2016	0.00	0.50	0.00
11/27/2016	0.00	0.50	0.00
11/28/2016	0.01	0.49	0.01
11/29/2016	1.75	0.51	1.75
11/30/2016	1.37	0.51	1.37
12/1/2016	0.00	0.50	0.00
12/2/2016	0.00	0.57	0.00
12/3/2016	0.00	0.54	0.00
12/4/2016	0.00	0.50	0.00
12/5/2016	0.23	0.51	0.23
12/6/2016	0.67	0.52	0.67
12/7/2016	0.04	0.56	0.04

2016 DAILY DISCHARGE / STREAM FLOW / PRECIPITATION

Date	Stream Flow (MGD)	Quarry Discharge (MGD)	Precipitation (In.)
12/8/2016	0.00	0.57	0.00
12/9/2016	0.00	0.59	0.00
12/10/2016	0.00	0.59	0.00
12/11/2016	0.00	0.58	0.00
12/12/2016	0.64	0.43	0.64
12/13/2016	0.00	0.63	0.00
12/14/2016	0.00	0.57	0.00
12/15/2016	0.00	0.69	0.00
12/16/2016	0.00	0.66	0.00
12/17/2016	0.25	0.58	0.25
12/18/2016	0.31	0.58	0.31
12/19/2016	0.00	0.60	0.00
12/20/2016	0.00	0.58	0.00
12/21/2016	0.00	0.65	0.00
12/22/2016	0.00	0.60	0.00
12/23/2016	0.00	0.57	0.00
12/24/2016	0.47	0.58	0.47
12/25/2016	0.01	0.56	0.01
12/26/2016	0.01	0.58	0.00
12/27/2016	0.00	0.55	0.00
12/28/2016	0.00	0.57	0.00
12/29/2016	0.31	0.58	0.31
12/30/2016	0.01	0.57	0.01
12/31/2016	0.00	0.56	0.00
1/1/2017	0.28	0.54	0.00
1/2/2017	0.35	0.56	0.16
1/3/2017	1.12	0.53	0.22
1/4/2017	1.23	0.50	0.00
1/5/2017	0.63	0.52	0.00
1/6/2017	0.64	0.51	0.04
1/7/2017	0.59	0.59	0.00
1/8/2017	0.54	0.64	0.00
1/9/2017	0.45	0.63	0.00
1/10/2017	0.48	0.60	0.01
1/11/2017	0.74	0.56	0.33
1/12/2017	2.09	0.54	0.02
1/13/2017	0.73	0.54	0.00
1/14/2017	0.62	0.54	0.00
1/15/2017	0.62	0.53	0.02
1/16/2017	0.56	0.52	0.01

2016 DAILY DISCHARGE / STREAM FLOW / PRECIPITATION

Date	Stream Flow (MGD)	Quarry Discharge (MGD)	Precipitation (In.)
1/17/2017	0.69	0.53	0.20
1/18/2017	1.19	0.52	0.01
1/19/2017	0.64	0.49	0.00
1/20/2017	0.70	0.49	0.22
1/21/2017	0.76	0.49	0.01
1/22/2017	0.64	0.49	0.04
1/23/2017	1.67	0.46	1.09
1/24/2017	5.05	0.46	0.29
1/25/2017	4.67	0.41	0.00
1/26/2017	3.20	0.41	0.02
1/27/2017	2.48	0.42	0.00
1/28/2017	2.19	0.43	0.00
1/29/2017	1.80	0.42	0.00
1/30/2017	1.48	0.58	0.00
1/31/2017	1.38	0.73	0.00
2/1/2017	1.29	0.70	0.00
2/2/2017	1.07	0.55	0.00
2/3/2017	0.92	0.44	0.00
2/4/2017	4.50	0.44	0.00
2/5/2017	2.24	0.42	0.00
2/6/2017	0.39	0.53	0.00
2/7/2017	0.18	0.67	0.23
2/8/2017	0.01	0.67	0.02
2/9/2017	0.49	0.25	0.15
2/10/2017	0.94	0.64	0.01
2/11/2017	0.67	0.60	0.18
2/12/2017	0.91	0.62	0.20
2/13/2017	1.01	0.45	0.01
2/14/2017	0.83	0.31	0.00
2/15/2017	0.91	0.39	0.00
2/16/2017	0.81	0.47	0.00
2/17/2017	0.77	0.47	0.00
2/18/2017	0.74	0.45	0.00
2/19/2017	0.62	0.45	0.00
2/20/2017	0.50	0.52	0.00
2/21/2017	0.43	0.54	0.00
2/22/2017	0.44	0.55	0.00
2/23/2017	0.43	0.46	0.00
2/24/2017	0.34	0.51	0.00
2/25/2017	0.47	0.57	0.26

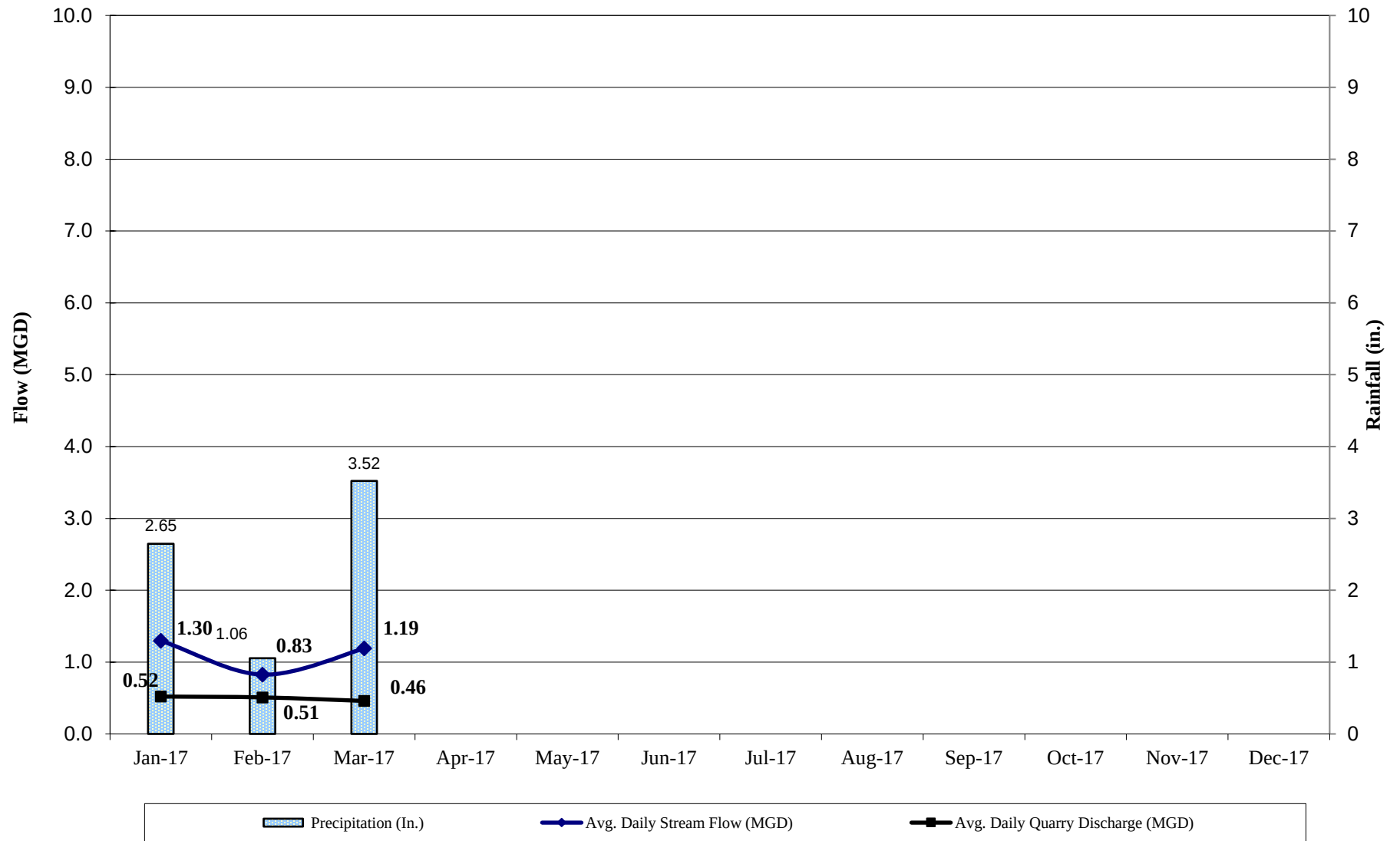
2016 DAILY DISCHARGE / STREAM FLOW / PRECIPITATION

Date	Stream Flow (MGD)	Quarry Discharge (MGD)	Precipitation (In.)
2/26/2017	0.61	0.73	0.00
2/27/2017	0.32	0.43	0.00
2/28/2017	0.28	0.38	0.00
3/1/2017	0.34	0.47	0.11
3/2/2017	0.24	0.46	0.01
3/3/2017	0.21	0.49	0.00
3/4/2017	0.21	0.50	0.00
3/5/2017	0.20	0.48	0.00
3/6/2017	0.25	0.46	0.00
3/7/2017	0.30	0.46	0.12
3/8/2017	0.26	0.45	0.01
3/9/2017	0.18	0.44	0.00
3/10/2017	0.27	0.47	0.12
3/11/2017	0.26	0.50	0.01
3/12/2017	0.19	0.49	0.00
3/13/2017	0.18	0.46	0.00
3/14/2017	1.44	0.46	0.01
3/15/2017	0.40	0.46	0.00
3/16/2017	0.30	0.46	0.24
3/17/2017	0.42	0.44	0.26
3/18/2017	0.50	0.45	0.10
3/19/2017	1.20	0.43	0.02
3/20/2017	2.43	0.43	0.00
3/21/2017	3.54	0.42	0.01
3/22/2017	4.32	0.45	0.00
3/23/2017	2.20	0.45	0.00
3/24/2017	2.04	0.44	0.00
3/25/2017	1.74	0.43	0.00
3/26/2017	1.49	0.44	0.01
3/27/2017	1.46	0.43	0.19
3/28/2017	3.31	0.62	0.58
3/29/2017	3.94	0.51	0.01
3/30/2017	1.88	0.35	0.17
3/31/2017		0.43	1.58

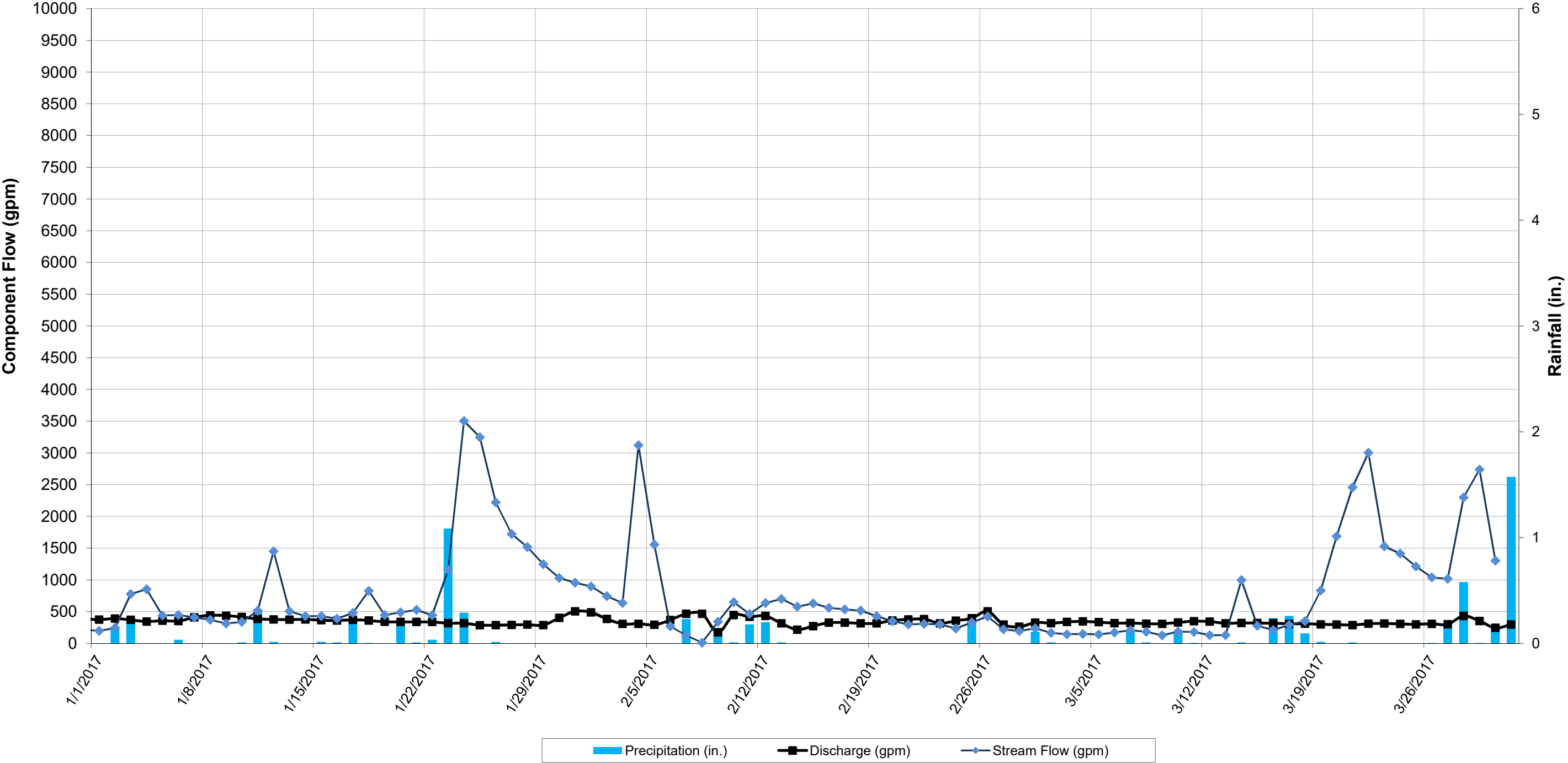
ATTACHMENT 8.0

QUARRY DISCHARGE / STREAM FLOW / PRECIPITATION GRAPHS

2017 AVERAGE MONTHLY DISCHARGE / AVERAGE MONTHLY STREAM FLOW / PRECIPITATION



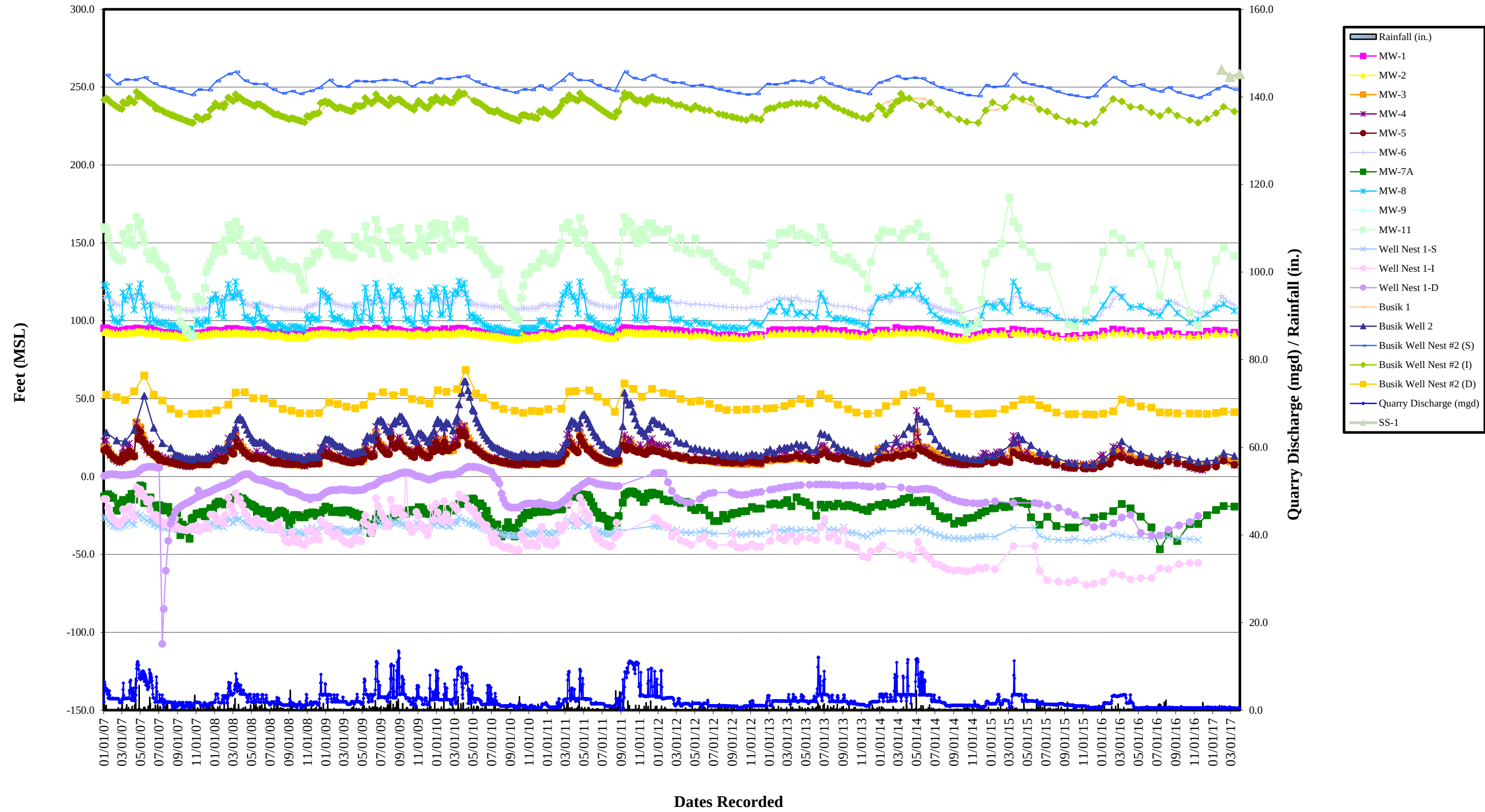
2017 1st QTR NPDES Discharge / Primrose Stream Flow / Precipitation



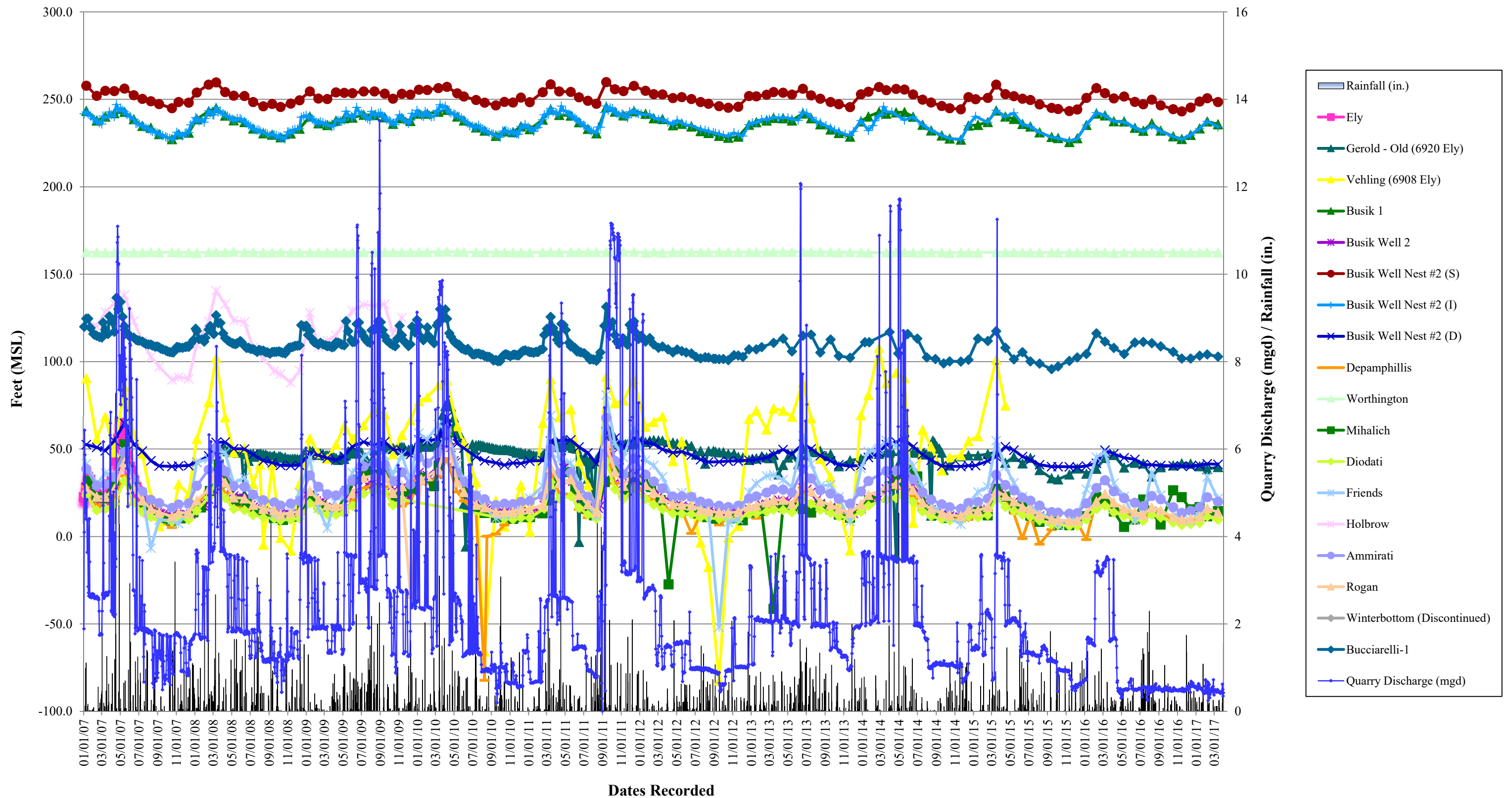
ATTACHMENT 9.0

DISCHARGE / RAINFALL / STATIC WATER LEVEL HYDROGRAPHS

NEW HOPE CRUSHED STONE & LIME COMPANY, INC.
Discharge/Rainfall/Static Water Level Readings
January 1, 2007 through March 31, 2017

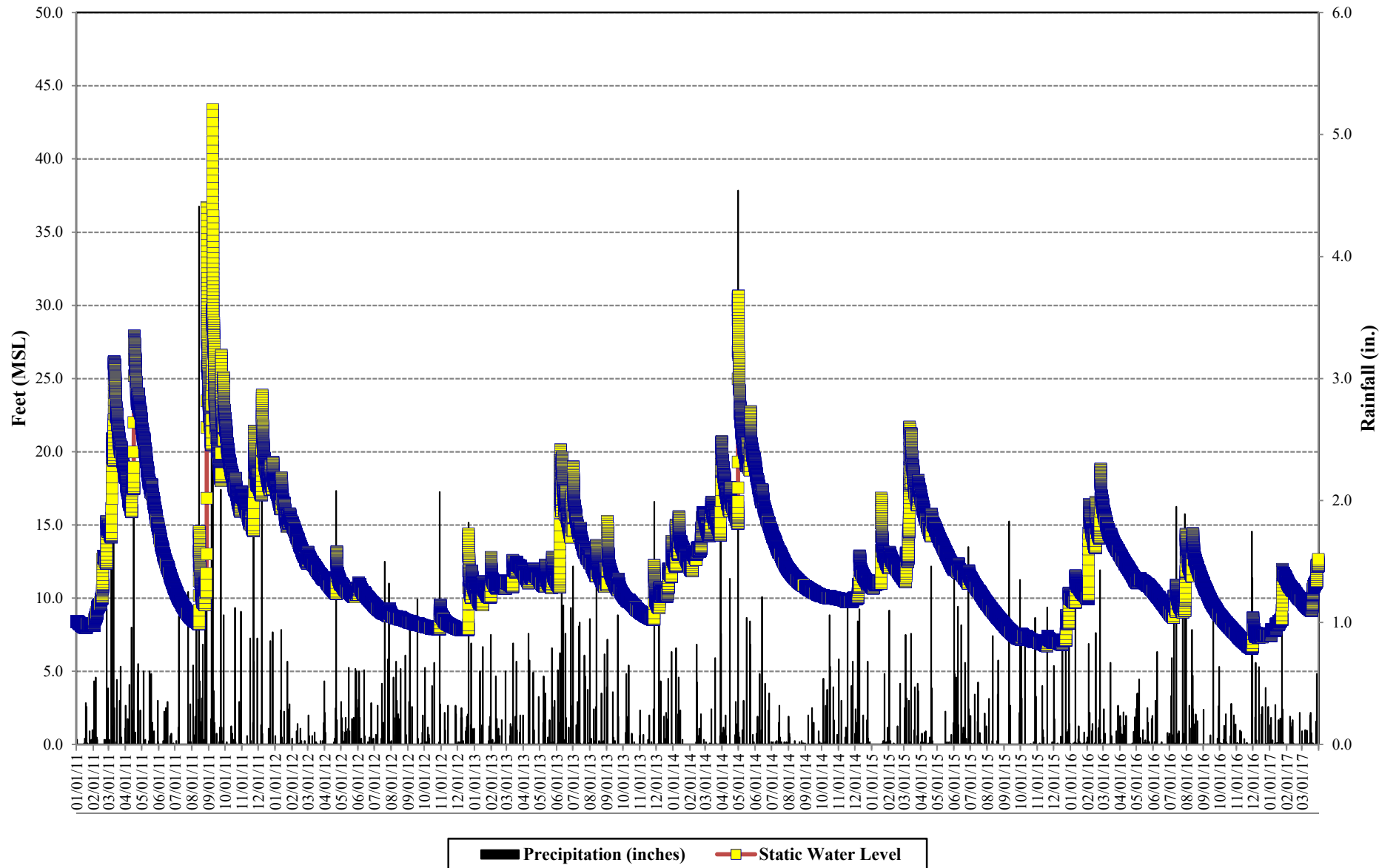


NEW HOPE CRUSHED STONE & LIME COMPANY, INC.
Discharge/Rainfall/Static Water Level Readings
January 1, 2007 through March 31, 2017

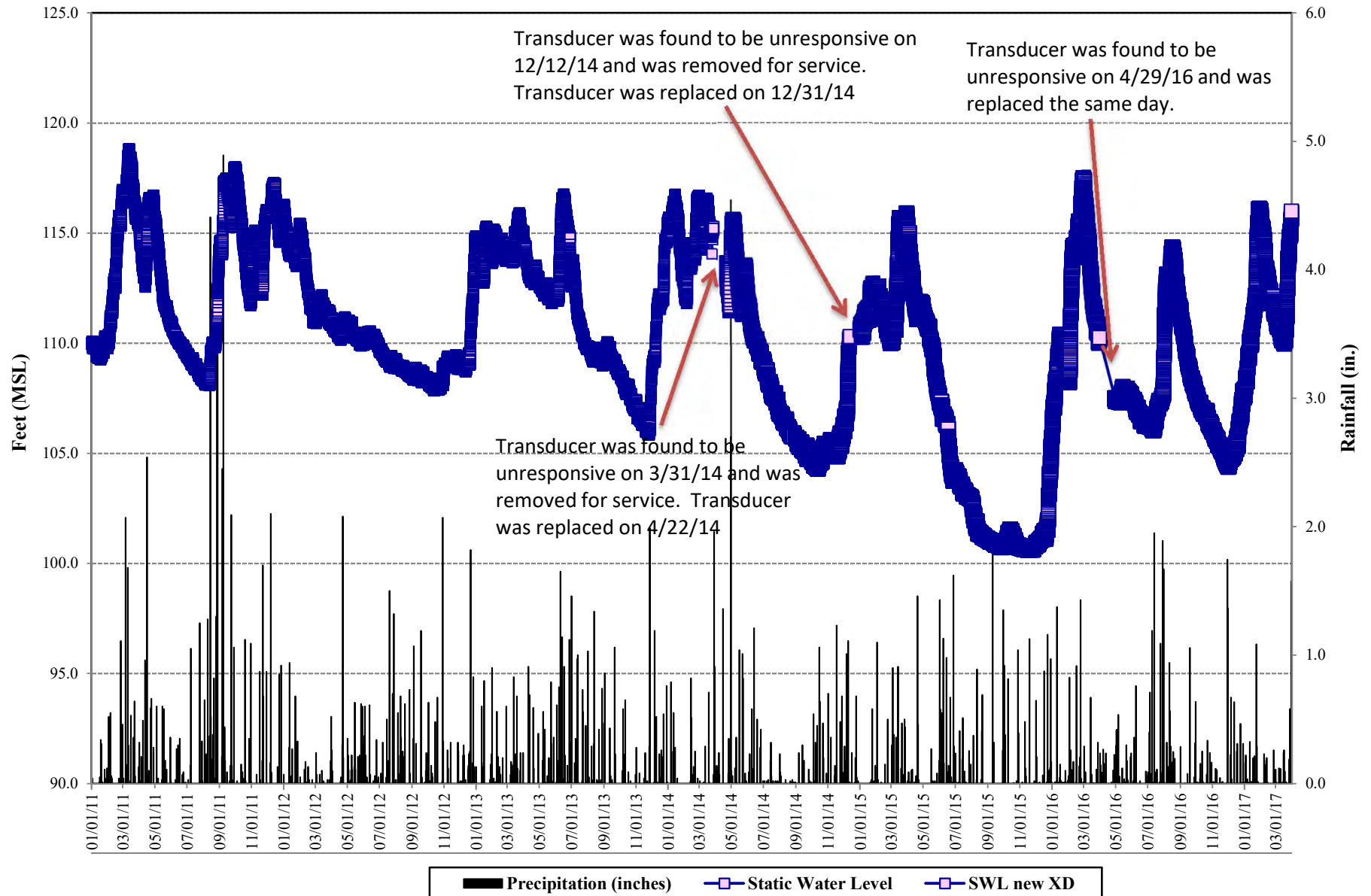


ATTACHMENT 10.0
CONTINUOUS MONITORING HYDROGRAPHS

MW-3 STATIC WATER LEVEL READINGS
New Hope Crushed Stone & Lime Company, Inc.
(Updated 3/31/17)



MW-6 STATIC WATER LEVEL READINGS
New Hope Crushed Stone & Lime Company, Inc.
(Updated 3/31/17)



ATTACHMENT 11.0
GROUNDWATER CONTOUR MAP

ATTACHMENT 12.0
RECLAMATION INFORMATION

February 6, 2017

Mr. Gary Latsha
Inspector Supervisor
PA Department of Environmental Protection
Pottsville District Mining Operations
5 West Laurel Boulevard
Pottsville, PA 17901

**SUBJECT: New Hope Crushed Stone Quarry
January 2017 CAP Monthly Report
Compliance Order No. 16-5-032-N
Noncoal Permit No. 7974SM3
Solebury Township, Bucks County
EarthRes Project No. 011012.015**

Dear Mr. Latsha:

On behalf of New Hope Crushed Stone & Lime Company (NHCS), EarthRes Group, Inc. (EarthRes) is providing the monthly Corrective Action Plan (CAP) update in response to Compliance Order No. 16-5-032-N issued by the Department and dated August 26, 2016. This letter and attached table details activities completed by NHCS during the month of January 2017.

There were 21 working days in January and NHCS completed reclamation / restoration activities in accordance with the manpower requirements detailed in the Department's January 29, 2016 letter. Reclamation was completed over 16 work days; stream reclamation was not completed due to weather conditions. Rain and snow was observed on approximately 20 days throughout the month, with significant precipitation occurring on January 2nd (0.32 in.), 3rd (0.42 in.), 11th (0.63 in.), 17th (0.38 in.), 20th (0.21 in.), 23rd (0.97 in.) and the 24th (0.34 in.).

NHCS worked on most rain days moving reclamation fill to the east and north walls. Work was able to continue due to the short haul distance and stable ground conditions, which are much better in the eastern quarry area (i.e. stone on the ground and shallow bedrock). Due to wet conditions and safety considerations, fill placement over the wall was minimally completed. Additionally, the access road through the south pit and to the western wall is now inaccessible

due to pit flooding. Accordingly, effort was required to create a ramp on the east wall to regain access to the north and west walls. These conditions are shown on the attached photographs. The details of the work completed in January are provided in the attached table.

Conclusion

NHCS completed significant work in January, but efforts were reduced due to precipitation due to winter weather conditions. NHCS is hopeful that upon resuming work in favorable weather conditions that make up reclamation volumes can be completed by the end of the 2nd quarter of 2016.

Work efforts on stream restoration and/or reclamation will continue in the coming months as scheduled, noting potential limitations due to weather, safety and other factors as indicated in the September 23, 2016 CAP and November 4, 2016 CAP update filed with the Department.

If you have any questions or need any additional information, please contact me at (215) 766-1211.

Sincerely,
EarthRes Group, Inc.



Louis F. Vittorio, Jr., P.G.
Vice President

Enclosure: January Reclamation and Restoration Efforts
Site Photographs

cc: Ms. Christina Cursley, NHCS

January 2017 **Reclamation and Restoration Work**

Days Worked:

Days working on Reclamation	16
Days working in Stream	
Inclement Weather	1
Loader For Repairs	1
Ramp on East Wall	<u>3</u>
Total Working Days January	21

Hours Worked:

Working days per month:	16
Number of employees	4
Hours allotted per day	<u>7</u>
Hours to be worked for reclamation days	448

Dirt Moved:

	<u>Yards</u>	<u>Tons</u>
Days working on Reclamation	16	
Cubic Yards per hour	200	300
Hours allotted per day	7	7

Actual hours worked on Rec 434

Required Yards/Tons to be moved 22,400 33,600

Actual Dirt moved by trucks	24,007	36,011
Reclamation Berm	<u>-</u>	<u>-</u>

Total moved 24,007 36,011
 Make-Up Reclamation Completed 1,607 2,411

Truck loads moved 588

0

Cumulative Stream Days

	<u>Hours</u>	<u>Days</u>
Miscellaneous Repairs	-	-
Actual Stream Work	-	-



02/06/2017 10:54 AM



02/06/2017 10:54 AM



02/06/2017 10:55 AM

March 6, 2017

Mr. Gary Latsha
Inspector Supervisor
PA Department of Environmental Protection
Pottsville District Mining Operations
5 West Laurel Boulevard
Pottsville, PA 17901

**SUBJECT: New Hope Crushed Stone Quarry
February 2017 CAP Monthly Report
Compliance Order No. 16-5-032-N
Noncoal Permit No. 7974SM3
Solebury Township, Bucks County
EarthRes Project No. 011012.015**

Dear Mr. Latsha:

On behalf of New Hope Crushed Stone & Lime Company (NHCS), EarthRes Group, Inc. (EarthRes) is providing the monthly Corrective Action Plan (CAP) update in response to Compliance Order No. 16-5-032-N issued by the Department and dated August 26, 2016. This letter and attached table details activities completed by NHCS during the month of February 2017.

There were 20 working days in February and NHCS completed reclamation / restoration activities in accordance with the manpower requirements detailed in the Department's January 29, 2016 letter. Reclamation was completed over 8 work days; stream reclamation was not completed due to weather conditions. Rain and/or snow was observed on approximately 6 days (4 work days) throughout the month, with significant precipitation occurring on February 7th and 8th (0.28 in.), 9th (0.26 in.), 12th (0.18 in.), and the 25th (0.42 in.). Due to freeze/thaw and wet conditions, reclamation activities were precluded or limited on surrounding days and the efficiency of the work completed was reduced.

Additionally, the access road through the south pit and to the western wall is now inaccessible due to pit flooding. Accordingly, effort was required to create a ramp on the east wall to regain

access to the north and west walls. The work is necessary to ensure safe access and was completed on days surrounding precipitation, when working conditions for reclamation were unsuitable. The details of the work completed in February are provided in the attached table.

Conclusion

NHCS completed work in February, but efforts were reduced due to precipitation and freeze/thaw wet weather conditions. NHCS is hopeful that upon resuming work in favorable weather conditions that make-up reclamation volumes can be completed by the end of the 2nd quarter of 2016. However, March conditions and progress will be critical to completion of the proposed catch-up work. NHCS indicated that February sick and time-off days were greater than usual and that they have three (3) less employees as March begins.

Work efforts on stream restoration and/or reclamation will continue in the coming months as scheduled, noting potential limitations due to weather, safety and other factors as indicated in the September 23, 2016 CAP and November 4, 2016 CAP update filed with the Department.

If you have any questions or need any additional information, please contact me at (215) 766-1211.

Sincerely,
EarthRes Group, Inc.

A handwritten signature in black ink, appearing to read "Louis F. Vittorio, Jr.", enclosed within a rectangular border.

Louis F. Vittorio, Jr., P.G.
Vice President

Enclosure: February Reclamation and Restoration Efforts

cc: Ms. Christina Cursley, NHCS

February 2017 Reclamation and Restoration Work

Days Worked:

Days working on Reclamation	8
Days working in Stream	0
Inclement Weather	4
Loader For Repairs	0
Ramp on East Wall*	<u>8</u>
Total Working Days January	20

* Days surrounding inclement weather

Hours Worked:

Working days per month:	8
Number of employees	4
Hours allotted per day	<u>7</u>

Hours to be worked for
reclamation days 224

Dirt Moved:

	<u>Yards</u>	<u>Tons</u>
Days working on Reclamation	8	
Cubic Yards per hour	200	300
Hours allotted per day	7	7

Required Yards/Tons to be moved 11,200 16,800

Actual Dirt moved by trucks	7,043	10,565
Reclamation Berm	<u>-</u>	<u>-</u>

Total moved 7,043 10,565
Make-Up Reclamation Completed (4,157) (6,235)

Truck loads moved 186

Cumulative Stream Days

	<u>Hours</u>	<u>Days</u>
Miscellaneous Repairs	-	-
Actual Stream Work	-	-

April 5, 2017

Mr. Gary Latsha
Inspector Supervisor
PA Department of Environmental Protection
Pottsville District Mining Operations
5 West Laurel Boulevard
Pottsville, PA 17901

**SUBJECT: New Hope Crushed Stone Quarry
March 2017 CAP Monthly Report
Compliance Order No. 16-5-032-N
Noncoal Permit No. 7974SM3
Solebury Township, Bucks County
EarthRes Project No. 011012.015**

Dear Mr. Latsha:

On behalf of New Hope Crushed Stone & Lime Company (NHCS), EarthRes Group, Inc. (EarthRes) is providing the monthly Corrective Action Plan (CAP) update in response to Compliance Order No. 16-5-032-N issued by the Department and dated August 26, 2016. This letter and attached table details activities completed by NHCS during the month of March 2017.

There were 23 working days in March; however NHCS was closed due to snow on March 14 and most of March 15th. Due to the MSHA citations received on March 6, 2017, reclamation activities were focused on compliance with those citations. Actions to that end began on March 7th and went through the 30th. This work included sloping and benching on the east wall to remove material, placement of berms, and working with MSHA to determine ground control actions to be completed. As such, reclamation per the order could not be completed, but NHCS spent considerable time working towards east wall reclamation per the MSHA citations. Stream reclamation was not completed due to weather conditions. Due to increased water inflow to the pit, efforts were required to modify the south pit pumping system on March 31st.

Rain and/or snow was observed on approximately 14 days (11 work days) throughout the month, with significant precipitation occurring on March 1st and 2nd (2.53 in.), 7th (0.19 in.), 10th and

11th (0.21 in), 14th through the 18th (2.1 in.), and the 22nd through the 24th (0.98 in). Due to freeze/thaw and wet conditions, reclamation activities were precluded prior to March 6th. The details of the work completed in March are provided in the attached table.

Conclusion

NHCS spent considerable time working towards east wall reclamation per the MSHA citations in March. Other reclamation activities per the order were precluded by this work and wet weather conditions.

Work efforts on stream restoration and/or reclamation will continue in the coming months, noting potential limitations due to weather, safety and other factors as indicated in the September 23, 2016 CAP and November 4, 2016 CAP update filed with the Department.

If you have any questions or need any additional information, please contact me at (215) 766-1211.

Sincerely,
EarthRes Group, Inc.

A handwritten signature in black ink, reading "Louis F. Vittorio, Jr.", enclosed in a rectangular box.

Louis F. Vittorio, Jr., P.G.
Vice President

Enclosure: March Reclamation and Restoration Efforts

cc: Ms. Christina Cursley, NHCS

March 2017 Reclamation and Restoration Work

Days Worked:

Days working on Reclamation*	17
Days working in Stream	0
Inclement Weather	11
Loader For Repairs	0
Pumping System Modification	<u>1</u>
Total Working Days January	23
* Reclamation Earth Work per MSHA Citations	

Hours Worked:

Working days per month:	-
Number of employees	4
Hours allotted per day	<u>7</u>
Hours to be worked for reclamation days	NA

Dirt Moved:

	<u>Yards</u>	<u>Tons</u>
Days working on Reclamation*		
Cubic Yards per hour	200	300
Hours allotted per day	7	7

Actual hours worked on Rec NA

Required Yards/Tons to be moved - -

* Reclamation Earth work per MSHA Citations

Actual Dirt moved by trucks	-	-
Reclamation Berm	<u>-</u>	<u>-</u>

Total moved - -

Make-Up Reclamation Completed - -

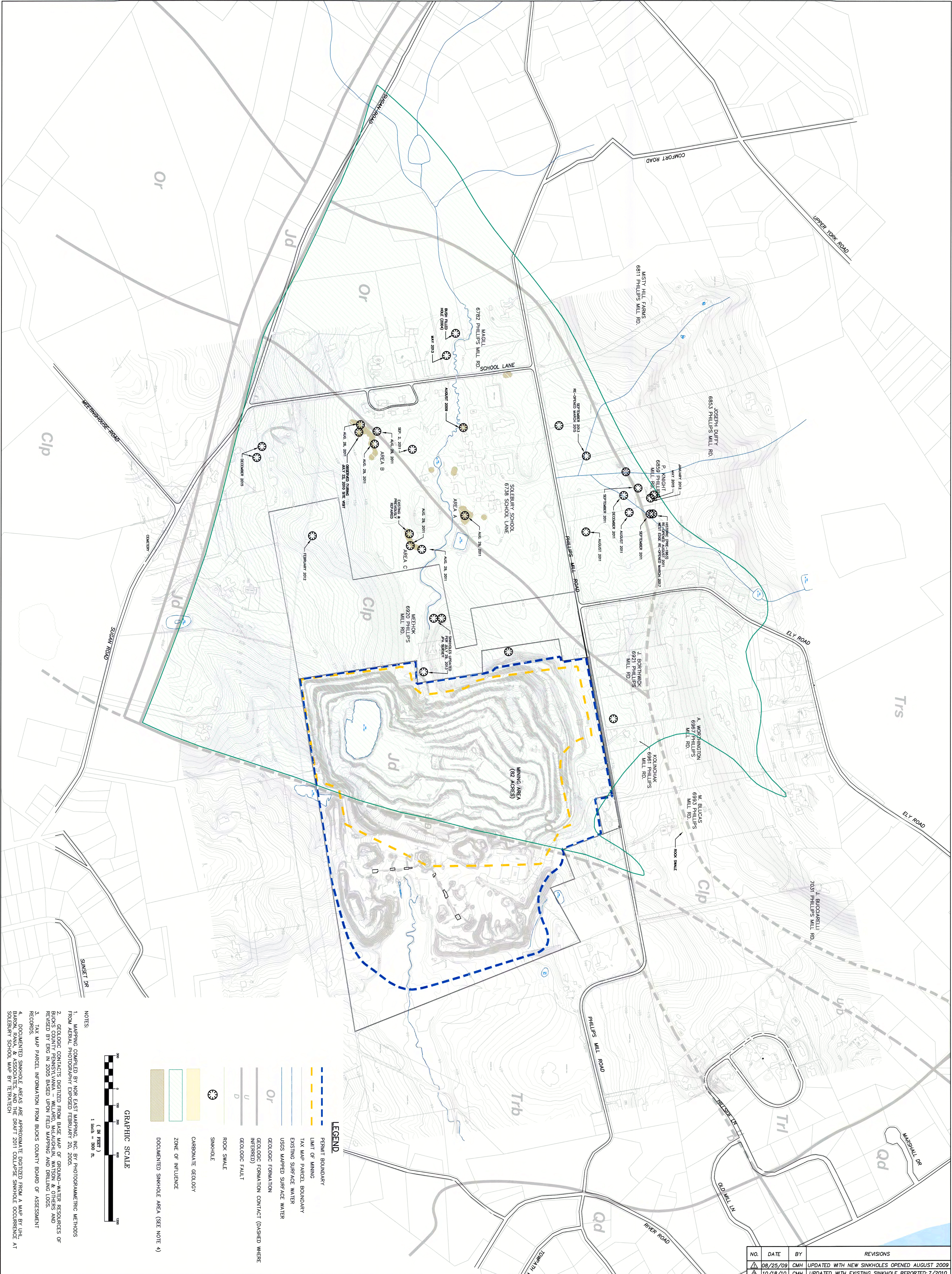
Truck loads moved* NA

Cumulative Stream Days

	<u>Hours</u>	<u>Days</u>
Miscellaneous Repairs	-	-
Actual Stream Work	-	-

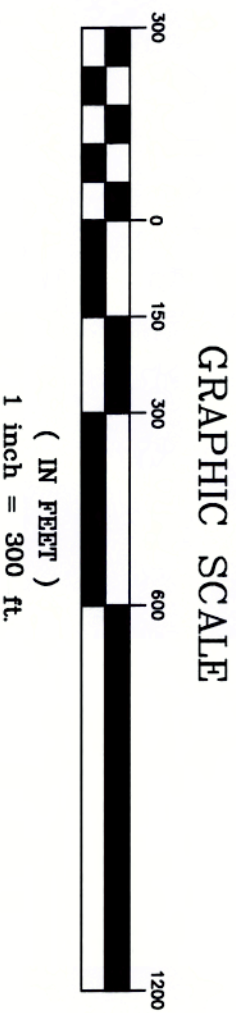
ATTACHMENT 13.0

SINKHOLE MAP



NOTES:

1. MAPPING COMPILED BY NOR EAST MAPPING, INC. BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY EXPOSED FEBRUARY 20, 2005.
2. GEOLOGIC CONTACTS DIGITIZED FROM BASE MAP OF GROUND-WATER RESOURCES OF BUCKS COUNTY PENNSYLVANIA - WILLARD, McLAUGHLIN, VASSTON & OTHERS AND REVISED BY ERG IN 2005 BASED UPON FIELD MAPPING AND DRILLING LOGS.
3. TAX MAP PARCEL INFORMATION FROM BUCKS COUNTY BOARD OF ASSESSMENT RECORDS.
4. DOCUMENTED SINKHOLE AREAS ARE APPROXIMATELY DIGITIZED FROM A MAP BY UHL, BARON, RANA, & ASSOCIATES, AND THE DRAFT 2011 COLLAPSE SINKHOLE OCCURRENCE AT SOLEBURY SCHOOL MAP BY TETRATECH



- LEGEND**
- PERMIT BOUNDARY
 - LIMIT OF MINING
 - TAX MAP PARCEL BOUNDARY
 - EXISTING SURFACE WATER
 - USGS MAPPED SURFACE WATER
 - GEOLOGIC FORMATION CONTACT (DASHED WHERE INFERRED)
 - GEOLOGIC FAULT
 - ROCK SWALE
 - SINKHOLE
 - CARBONATE GEOLOGY
 - ZONE OF INFLUENCE
 - DOCUMENTED SINKHOLE AREA (SEE NOTE 4)

DRAWN BY: JJB		CHECKED BY: LFV		SINKHOLE ACTIVITY		PREPARED BY:		P.O. Box 469 6912 Old Easton Road Pipersville, PA 18947 USA		PREPARED FOR:		PROJECT SITE:			
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