
Transmittal

Mr. Robert Hayes, P.E.
Regional Environmental and Land Manager – Great Lakes Region
Aggregate Industries US
6211 Ann Arbor Road
Dundee, MI 48131

April 7, 2020

Re: Chelsea Plant – 2020 First Quarter Water Level Data

Project No. 06088BB

- FOR REVIEW
- FOR YOUR USE
- AS REQUESTED

Sent By: Todd C. Campbell, CPG

COPIES	DATE	DESCRIPTION
1	04/06/2020	Table 1 – Groundwater and Surface Water Elevation Data (PDF format)
1	04/06/2020	Monitoring Well and Surface Water Hydrograph (PDF format)
1	04/06/2020	Surface Water (Clear Lake) Hydrograph (PDF format)

COMMENTS

As requested, attached is your 2020 First Quarter water level data for the Chelsea Plant. If you have any questions or require additional information, please contact me at 269.544.6948 or tccampbell@ftch.com.

By email

Copy: Lynn M. Spurr – Fishbeck

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-1	N42.32649	W084.13039	25	15-25	987.90	08/29/02		10.06	977.84	ASTI
						09/20/02		10.96	976.94	ASTI
						01/26/04		11.81	976.09	ASTI
						03/03/04		11.69	976.21	ASTI
						04/19/04		11.72	976.18	ASTI
						02/13/06		10.83	977.07	FTC&H Begins Monitoring
						10/26/06		9.64	978.26	
						11/02/06				Well Abandoned
						MW-2	N42.32887	W084.13489	30	20-30
09/20/02		14.06	976.04	ASTI						
01/26/04		15.02	975.08	ASTI						
03/03/04		14.91	975.19	ASTI						
04/19/04		14.40	975.70	ASTI						
02/13/06		14.23	975.87	FTC&H Begins Monitoring						
10/26/06		15.47	974.63							
08/24/07		13.74	976.36							
09/13/07		13.59	976.51							
10/02/07		13.93	976.17							
11/13/07		13.50	976.60							
12/06/07		13.30	976.80							
01/09/08		12.57	977.53							
02/15/08		12.29	977.81							
03/14/08		12.23	977.87							
04/04/08		12.36	977.74							
05/29/08		13.23	976.87							
06/17/08		13.13	976.97							
07/11/08		13.24	976.86							
08/08/08		13.71	976.39							
09/04/08		14.15	975.95							
10/06/08		13.42	976.68	Large/many rain events in September 2008						
11/10/08		13.97	976.13							
12/03/08		14.02	976.08							
01/09/09		13.62	976.48							
02/09/09		13.77	976.33							
03/13/09		12.97	977.13							
04/03/09		12.89	977.21							
05/08/09		12.60	977.50							
06/26/09		12.45	977.65							
07/28/09		12.84	977.26							
08/25/09		13.70	976.40							
09/25/09		14.37	975.73							
10/28/09		14.50	975.60							
11/24/09		13.96	976.14							
12/16/09		13.81	976.29							
01/13/10		13.83	976.27							
02/18/10		13.97	976.13							
03/11/10		13.91	976.19							
04/21/10		13.71	976.39							
05/05/10		13.71	976.39							
06/25/10		12.90	977.20	Large/many rain events in June 2010						
07/22/10		13.71	976.39							
08/26/10		14.12	975.98							
09/24/10		14.42	975.68							
10/21/10		14.52	975.58							
11/18/10		14.75	975.35							
12/13/10		14.35	975.75							
01/11/11		14.26	975.84							
02/04/11		14.31	975.79							
03/11/11		14.07	976.03							
04/29/11		13.80	976.30							
05/25/11		13.50	976.60							
06/27/11		13.04	977.06							
07/22/11		13.67	976.43							
08/19/11		12.69	977.41							
09/30/11		12.80	977.30							
10/28/11		12.97	977.13							
11/23/11		13.09	977.01							
12/28/11		12.95	977.15							
01/27/12		12.59	977.51							
02/22/12		12.55	977.55							
03/26/12		12.49	977.61							
04/27/12		13.32	976.78							
05/30/12		13.39	976.71							
06/29/12		14.18	975.92							
07/26/12		14.55	975.55							
08/23/12		14.85	975.25							
09/28/12		15.12	974.98							
10/26/12		14.98	975.12							
11/29/12		14.84	975.26							
12/21/12		14.79	975.31							
01/28/13		14.69	975.41							
02/25/13		14.54	975.56							

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-2 (continued)						03/26/13		14.33	975.77	
						04/19/13		14.20	975.90	
						05/23/13		14.11	975.99	
						06/27/13		14.39	975.71	
						07/26/13		14.40	975.70	
						08/29/13		14.53	975.57	
						09/20/13		14.79	975.31	
						10/22/13		15.07	975.03	
						11/27/13		15.17	974.93	
						12/19/13		15.14	974.96	
						01/29/14		14.83	975.27	
						02/25/14		14.79	975.31	
						03/20/14		14.56	975.54	
						04/29/14		14.12	975.98	
						05/30/14		14.16	975.94	
						06/20/14		14.05	976.05	
						07/17/14		14.06	976.04	
						08/28/14		14.48	975.62	
						09/23/14		14.81	975.29	
						10/30/14		15.38	974.72	
						11/25/14		15.44	974.66	
						12/29/14		15.14	974.96	
						01/07/15		15.18	974.92	
						02/16/15		14.95	975.15	
						03/20/15		14.77	975.33	
						04/24/15		15.17	974.93	
						05/12/15		15.71	974.39	
						06/11/15		15.72	974.38	
						07/24/15		14.67	975.43	
						08/28/15		15.10	975.00	
						09/29/15		15.40	974.70	
						10/29/15		15.71	974.39	
						11/24/15		15.63	974.47	
						12/18/15		15.32	974.78	
						01/28/16		14.88	975.22	
						02/26/16		14.75	975.35	
						03/25/16		14.58	975.52	
						04/27/16		14.36	975.74	
						05/26/16		14.17	975.93	
						06/14/16		14.46	975.64	
						07/22/16		15.11	974.99	
						08/31/16		15.16	974.94	
						09/22/16		15.33	974.77	
						10/28/16		15.31	974.79	
						11/28/16		15.26	974.84	
						12/22/16		15.04	975.06	
						01/26/17		14.35	975.75	
						02/28/17		13.76	976.34	
						03/21/17		13.53	976.57	
						04/27/17		12.93	977.17	
						05/23/17		12.67	977.43	
						06/30/17		13.27	976.83	
						07/28/17		13.68	976.42	
						08/31/17		14.05	976.05	
						09/26/17		14.39	975.71	
						10/27/17		14.20	975.90	
						11/29/17		13.95	976.15	
						12/12/17		13.87	976.23	
						01/29/18		13.50	976.60	
						02/28/18		12.68	977.42	
						03/22/18		12.69	977.41	
						04/30/18		12.57	977.53	
						05/25/18		12.07	978.03	
						06/22/18		12.37	977.73	
						07/27/18		13.28	976.82	
						08/31/18		13.72	976.38	
						09/28/18		13.82	976.28	
						10/26/18		13.93	976.17	
						11/27/18		13.84	976.26	
						12/17/18		13.69	976.41	
						01/25/19		13.47	976.63	
						02/26/19		13.33	976.77	
						03/22/19		13.16	976.94	
						04/26/19		13.25	976.85	
						05/30/19		13.14	976.96	
						06/21/19		13.23	976.87	
						07/30/19		13.77	976.33	
						08/30/19		14.19	975.91	
						09/19/19		14.30	975.80	
						10/25/19		14.43	975.67	
						11/21/19		14.15	975.95	
						12/19/19		13.80	976.30	
						01/30/20		12.94	977.16	
						02/28/20		12.85	977.25	
						03/24/20		12.75	977.35	

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 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-3	N42.31787	W084.14101	30	20-30	996.80	08/29/02		15.72	981.08	ASTI
						09/20/02		16.18	980.62	ASTI
						01/26/04		17.45	979.35	ASTI
						03/03/04		17.49	979.31	ASTI
						04/19/04		16.92	979.88	ASTI
						02/13/06		16.24	980.56	FTC&H Begins Monitoring
						10/26/06		15.80	981.00	
						08/24/07		14.54	982.26	
						09/13/07		14.68	982.12	
						10/02/07		14.89	981.91	
						11/13/07		15.28	981.52	
						12/06/07		15.27	981.53	
						01/09/08		14.66	982.14	
						02/15/08		14.24	982.56	
						03/14/08		14.01	982.79	
						04/04/08		13.74	983.06	
						05/29/08		14.30	982.50	
						06/17/08		14.33	982.47	
						07/11/08		14.50	982.30	
						08/08/08		14.99	981.81	
MW-3 (continued)						09/04/08		15.48	981.32	
						10/06/08		15.14	981.66	Large/many rain events in September 2008
						11/10/08		15.53	981.27	
						12/03/08		15.53	981.27	
						01/09/09		15.04	981.76	
						02/09/09		15.20	981.60	
						03/13/09		14.39	982.41	
						04/03/09		14.36	982.44	
						05/08/09		14.10	982.70	
						06/26/09		13.72	983.08	
						07/28/09		14.40	982.40	
						08/25/09		14.76	982.04	
						09/25/09		15.08	981.72	
						10/28/09		15.00	981.80	
						11/24/09		15.22	981.58	
						12/16/09		15.27	981.53	
						01/13/10		15.38	981.42	
						02/18/10		15.58	981.22	
						03/11/10		15.48	981.32	
						04/21/10		15.36	981.44	
						05/05/10		15.40	981.40	
						06/25/10		14.33	982.47	Large/many rain events in June 2010
						07/22/10		14.73	982.07	
						08/26/10		15.00	981.80	
						09/24/10		15.47	981.33	
						10/21/10		15.77	981.03	
						11/18/10		16.00	980.80	
						12/13/10		16.02	980.78	
						01/11/11		16.18	980.62	
						02/04/11		16.36	980.44	
						03/11/11		15.70	981.10	
						04/29/11		14.79	982.01	
						05/25/11		14.70	982.10	
						06/27/11		14.50	982.30	
						07/22/11		15.05	981.75	
						08/19/11		13.96	982.84	
						09/30/11		14.44	982.36	
						10/28/11		14.57	982.23	
						11/23/11		14.68	982.12	
						12/28/11		14.05	982.75	
						01/27/12		13.97	982.83	
						02/22/12		14.05	982.75	
						03/26/12		13.57	983.23	
						04/27/12		14.06	982.74	
						05/30/12		14.51	982.29	
						06/29/12		14.82	981.98	
						07/26/12		15.46	981.34	
						08/23/12		15.82	980.98	
						09/28/12		16.25	980.55	
						10/26/12		16.33	980.47	
						11/29/12		16.59	980.21	
						12/21/12		16.67	980.13	
						01/28/13		16.60	980.20	
						02/25/13		16.35	980.45	
						03/26/13		16.09	980.71	
						04/19/13		15.83	980.97	
						05/23/13		15.56	981.24	
						06/27/13		15.86	980.94	
						07/26/13		16.21	980.59	
						08/29/13		16.45	980.35	
						09/20/13		16.73	980.07	
						10/22/13		16.94	979.86	
						11/27/13		16.93	979.87	
						12/19/13		17.10	979.70	
						01/29/14		16.86	979.94	
						02/25/14		16.93	979.87	
						03/20/14		16.38	980.42	
						04/29/14		15.78	981.02	

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-3 (continued)						05/30/14		15.78	981.02	
						06/20/14		15.80	981.00	
						07/17/14		15.93	980.87	
						08/28/14		16.32	980.48	
						09/23/14		16.29	980.51	
						10/30/14		16.40	980.40	
						11/25/14		16.59	980.21	
						12/29/14		16.72	980.08	
						01/07/15		16.77	980.03	
						02/16/15		17.03	979.77	
						03/20/15		16.48	980.32	
						04/24/15		16.28	980.52	
						05/12/15		16.41	980.39	
						06/11/15		16.29	980.51	
						07/24/15		15.56	981.24	
						08/28/15		16.19	980.61	
						09/29/15		16.67	980.13	
						10/29/15		16.95	979.85	
						11/24/15		17.05	979.75	
						12/18/15		17.10	979.70	
						01/28/16		16.98	979.82	
						02/26/16		17.01	979.79	
						03/25/16		16.53	980.27	
						04/27/16		16.12	980.68	
						05/26/16		15.99	980.81	
						06/14/16		16.32	980.48	
						07/22/16		17.01	979.79	
						08/31/16		16.60	980.20	
						09/22/16		16.95	979.85	
						10/28/16		16.85	979.95	
						11/28/16		16.91	979.89	
						12/22/16		16.98	979.82	
						01/26/17		16.30	980.50	
						02/28/17		15.98	980.82	
						03/21/17		15.82	980.98	
						04/27/17		14.79	982.01	
						05/23/17		14.58	982.22	
						06/30/17		15.19	981.61	
						07/28/17		15.61	981.19	
						08/31/17		15.68	981.12	
						09/26/17		16.08	980.72	
						10/27/17		15.71	981.09	
						11/29/17		15.46	981.34	
						12/12/17		15.64	981.16	
						01/29/18		15.68	981.12	
						02/28/18		14.66	982.14	
						03/22/18		14.73	982.07	
						04/30/18		14.56	982.24	
						05/25/18		13.90	982.90	
						06/22/18		14.27	982.53	
						07/27/18		14.98	981.82	
						08/31/18		15.35	981.45	
						09/28/18		15.67	981.13	
						10/26/18		15.74	981.06	
						11/27/18		15.77	981.03	
						12/17/18		15.84	980.96	
						01/25/19		15.90	980.90	
						02/26/19		15.70	981.10	
						03/22/19		15.52	981.28	
						04/26/19		15.37	981.43	
						05/30/19		15.03	981.77	
						06/21/19		14.90	981.90	
						07/30/19		15.45	981.35	
						08/30/19		15.87	980.93	
						09/19/19		15.98	980.82	
						10/25/19		16.00	980.80	
						11/21/19		15.69	981.11	
						12/19/19		15.67	981.13	
						01/30/20		14.88	981.92	
						02/28/20		14.99	981.81	
						03/24/20		15.01	981.79	

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Aggregate Industries -- Chelsea Operations
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Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-4	N42.31845	W084.13161	55	45-55	1022.90	08/29/02		40.71	982.19	ASTI
						09/20/02		41.00	981.90	ASTI
						01/26/04		42.30	980.60	ASTI
						03/03/04		42.26	980.64	ASTI
						04/19/04		41.64	981.26	ASTI
						02/13/06		41.04	981.86	FTC&H Begins Monitoring
						10/26/06		40.53	982.37	
						08/24/07		38.91	983.99	
						09/13/07		39.26	983.64	
						10/02/07		39.56	983.34	
						11/13/07		40.15	982.75	
						12/06/07		40.09	982.81	
						01/09/08		39.21	983.69	
						02/15/08		38.85	984.05	
						03/14/08		38.44	984.46	
						04/04/08		38.32	984.58	
						05/29/08		38.92	983.98	
						06/17/08		38.99	983.91	
						07/11/08		39.21	983.69	
						08/08/08		39.76	983.14	
						09/04/08		40.26	982.64	
						10/06/08		40.11	982.79	Large/many rain events in September 2008
						11/10/08		40.53	982.37	
						12/03/08		40.55	982.35	
						01/09/09		39.81	983.09	
						02/09/09		39.85	983.05	
						03/13/09		39.05	983.85	
						04/03/09		38.82	984.08	
						05/08/09		38.51	984.39	
						06/26/09		38.06	984.84	
						07/28/09		38.82	984.08	
						08/25/09		39.35	983.55	
						09/25/09		39.78	983.12	
						10/28/09		39.86	983.04	
						11/24/09		40.10	982.80	
						12/16/09		40.15	982.75	
						01/13/10		40.26	982.64	
						02/18/10		40.45	982.45	
						03/11/10		40.23	982.67	
						04/21/10		40.06	982.84	
						05/05/10		40.04	982.86	
						06/25/10		38.66	984.24	Large/many rain events in June 2010
						07/22/10		39.19	983.71	
						08/26/10		39.61	983.29	
						09/24/10		40.14	982.76	
						10/21/10		40.53	982.37	
						11/18/10		40.83	982.07	
						12/13/10		40.95	981.95	
						01/11/11		41.07	981.83	
						02/04/11		41.27	981.63	
						03/11/11		40.59	982.31	
						04/29/11		39.43	983.47	
						05/25/11		39.13	983.77	
						06/27/11		38.72	984.18	
						07/22/11		39.36	983.54	
08/19/11		38.36	984.54							
09/30/11		39.08	983.82							
10/28/11		39.34	983.56							
11/23/11		39.48	983.42							
12/28/11		38.59	984.31							
01/27/12		38.51	984.39							
02/22/12		38.60	984.30							
03/26/12		38.49	984.41							
04/27/12		38.72	984.18							
05/30/12		39.16	983.74							
06/29/12		39.67	983.23							
07/26/12		40.24	982.66							
08/23/12		40.69	982.21							
09/28/12		41.21	981.69							
10/26/12		41.45	981.45							
11/29/12		41.71	981.19							
12/21/12		41.82	981.08							
01/28/13		41.75	981.15							
02/25/13		41.47	981.43							
03/26/13		41.16	981.74							
04/19/13		40.89	982.01							
05/23/13		40.13	982.77							
06/27/13		40.45	982.45							
07/26/13		40.75	982.15							
08/29/13		41.13	981.77							
09/20/13		41.42	981.48							

MW-4 (continued)

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-4 (continued)						10/22/13		41.74	981.16	
						11/27/13		41.84	981.06	
						12/19/13		41.96	980.94	
						01/29/14		41.71	981.19	
						02/25/14		41.79	981.11	
						03/20/14		41.13	981.77	
						04/29/14		40.30	982.60	
						05/30/14		40.19	982.71	
						06/20/14		40.20	982.70	
						07/17/14		40.35	982.55	
						08/28/14		40.84	982.06	
						09/23/14		41.10	981.80	
						10/30/14		41.38	981.52	
						11/25/14		41.51	981.39	
						12/29/14		41.59	981.31	
						01/07/15		41.65	981.25	
						02/16/15		41.83	981.07	
						03/20/15		41.36	981.54	
						04/24/15		41.35	981.55	
						05/12/15		41.33	981.57	
						06/11/15		41.08	981.82	
						07/24/15		40.18	982.72	
						08/28/15		40.74	982.16	
						09/29/15		41.24	981.66	
						10/29/15		41.64	981.26	
						11/24/15		41.86	981.04	
						12/18/15		41.92	980.98	
						01/28/16		41.86	981.04	
						02/26/16		41.95	980.95	
						03/25/16		41.42	981.48	
						04/27/16		40.86	982.04	
						05/26/16		40.58	982.32	
						06/14/16		40.79	982.11	
						07/22/16		41.38	981.52	
						08/31/16		41.47	981.43	
						09/22/16		41.76	981.14	
						10/28/16		41.82	981.08	
						11/28/16		41.83	981.07	
						12/22/16		41.83	981.07	
						01/26/17		41.18	981.72	
						02/28/17		40.63	982.27	
						03/21/17		40.35	982.55	
						04/27/17		38.97	983.93	
						05/23/17		38.70	984.20	
						06/30/17		39.33	983.57	
						07/28/17		39.87	983.03	
						08/31/17		40.37	982.53	
						09/26/17		40.79	982.11	
					10/27/17		40.77	982.13		
					11/29/17		40.54	982.36		
					12/12/17		40.64	982.26		
					01/29/18		40.70	982.20		
					02/28/18		39.64	983.26		
					03/22/18		39.36	983.54		
					04/30/18		39.08	983.82		
					05/25/18		38.34	984.56		
					06/22/18		38.65	984.25		
					07/27/18		39.47	983.43		
					08/31/18		40.09	982.81		
					09/28/18		40.50	982.40		
					10/26/18		40.75	982.15		
					11/27/18		40.88	982.02		
					12/17/18		40.94	981.96		
					01/25/19		40.97	981.93		
					02/26/19		40.77	982.13		
					03/22/19		40.56	982.34		
					04/26/19		40.35	982.55		
					05/30/19		39.65	983.25		
					06/21/19		39.57	983.33		
					07/30/19		40.13	982.77		
					08/30/19		40.63	982.27		
					09/19/19		40.88	982.02		
					10/25/19		41.11	981.79		
					11/21/19		40.85	982.05		
					12/19/19		40.73	982.17		
					01/30/20		39.71	983.19		
					02/28/20		39.71	983.19		
					03/24/20		39.70	983.20		

MW-4 (continued)

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-5	N42.31192	W084.13466	50	40-50	1017.20	08/29/02	35.58	981.62	ASTI	
						09/20/02	35.79	981.41	ASTI	
						01/26/04	37.19	980.01	ASTI	
						03/03/04	37.27	979.93	ASTI	
						04/19/04	36.74	980.46	ASTI	
						02/13/06	36.39	980.81	FTC&H Begins Monitoring	
						10/26/06	35.73	981.47		
						08/24/07	34.47	982.73		
						09/13/07	34.54	982.66		
						10/02/07	34.78	982.42		
						11/13/07	35.16	982.04		
						12/06/07	35.34	981.86		
						01/09/08	35.30	981.90		
						02/15/08	34.42	982.78		
						03/14/08	33.90	983.30		
						04/04/08	33.85	983.35		
						05/29/08	34.13	983.07		
						06/17/08	34.23	982.97		
						07/11/08	34.44	982.76		
						08/08/08	34.76	982.44		
						09/04/08	35.14	982.06		
						10/06/08	35.28	981.92	Large/many rain events in September 2008	
						11/10/08	35.53	981.67		
						12/03/08	35.54	981.66		
						01/09/09	35.23	981.97		
						02/09/09	35.15	982.05		
						03/13/09	34.75	982.45		
						04/03/09	34.37	982.83		
						05/08/09	34.02	983.18		
						06/26/09	33.62	983.58		
						07/28/09	34.01	983.19		
						08/25/09	34.40	982.80		
						09/25/09	34.78	982.42		
						10/28/09	35.08	982.12		
						11/24/09	35.15	982.05		
						12/16/09	35.28	981.92		
						01/13/10	35.29	981.91		
						02/18/10	35.50	981.70		
						03/11/10	35.51	981.69		
						04/21/10	35.15	982.05		
						05/05/10	35.23	981.97		
						06/25/10	34.38	982.82	Large/many rain events in June 2010	
						07/22/10	34.50	982.70		
						08/26/10	34.71	982.49		
						09/24/10	35.06	982.14		
						10/21/10	35.42	981.78		
						11/18/10	35.73	981.47		
						12/13/10	35.93	981.27		
						01/11/11	36.00	981.20		
						02/04/11	36.16	981.04		
						03/11/11	35.96	981.24		
						04/29/11	35.27	981.93		
						05/25/11	34.68	982.52		
						06/27/11	34.15	983.05		
						07/22/11	34.56	982.64		
						08/22/11	33.98	983.22		
						09/30/11	34.37	982.83		
						10/28/11	34.55	982.65		
						11/23/11	34.73	982.47		
						12/28/11	34.08	983.12		
						01/27/12	34.01	983.19		
						02/22/12	33.83	983.37		
						03/26/12	33.89	983.31		
						04/27/12	34.01	983.19		
						05/30/12	34.27	982.93		
						06/29/12	34.64	982.56		
						07/26/12	35.10	982.10		
						08/23/12	35.59	981.61		
						09/28/12	36.11	981.09		
						10/26/12	36.46	980.74		
						11/29/12	36.61	980.59		
						12/21/12	36.82	980.38		
						01/28/13	36.74	980.46		
						02/25/13	36.52	980.68		
						03/26/13	36.37	980.83		
						04/19/13	36.23	980.97		
						05/23/13	35.54	981.66		
						06/27/13	35.57	981.63		

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-5 (continued)						07/26/13		35.82	981.38	
						08/29/13		36.13	981.07	
						09/20/13		36.30	980.90	
						10/22/13		36.58	980.62	
						11/27/13		36.74	980.46	
						12/19/13		36.87	980.33	
						01/29/14		36.68	980.52	
						02/25/14		36.72	980.48	
						03/20/14		36.18	981.02	
						04/29/14		35.64	981.56	
						05/30/14		35.51	981.69	
						06/20/14		35.41	981.79	
						07/17/14		35.57	981.63	
						08/28/14		35.93	981.27	
						09/23/14		36.11	981.09	
						10/30/14		36.28	980.92	
						11/25/14		36.50	980.70	
						12/29/14		36.61	980.59	
						01/07/15		36.67	980.53	
						02/16/15		36.60	980.60	
						03/20/15		36.52	980.68	
						04/24/15		36.31	980.89	
						05/12/15		36.35	980.85	
						06/11/15		36.27	980.93	
						07/24/15		35.55	981.65	
						08/28/15		35.74	981.46	
						09/29/15		36.10	981.10	
						10/29/15		36.45	980.75	
						11/24/15		36.70	980.50	
						12/18/15		36.76	980.44	
						01/28/16		36.74	980.46	
						02/26/16		36.89	980.31	
						03/25/16		36.59	980.61	
						04/27/16		36.11	981.09	
						05/26/16		35.84	981.36	
						06/14/16		35.86	981.34	
						07/22/16		36.34	980.86	
						08/31/16		36.64	980.56	
						09/22/16		36.72	980.48	
						10/28/16		36.82	980.38	
						11/28/16		36.74	980.46	
						12/22/16		36.87	980.33	
						01/26/17		36.56	980.64	
						02/28/17		35.92	981.28	
						03/21/17		35.69	981.51	
						04/27/17		34.84	982.36	
						05/23/17		34.44	982.76	
						06/30/17		34.63	982.57	
						07/28/17		34.96	982.24	
						08/31/17		35.40	981.80	
						09/26/17		35.67	981.53	
						10/27/17		35.94	981.26	
						11/29/17		35.78	981.42	
						12/12/17		35.69	981.51	
						01/29/18		35.74	981.46	
						02/28/18		35.36	981.84	
						03/22/18		34.85	982.35	
						04/30/18		34.43	982.77	
						05/25/18		34.04	983.16	
						06/22/18		33.92	983.28	
						07/27/18		34.50	982.70	
						08/31/18		35.01	982.19	
						09/28/18		35.37	981.83	
						10/26/18		35.62	981.58	
						11/27/18		35.80	981.40	
						12/17/18		35.89	981.31	
						01/25/19		35.93	981.27	
						02/26/19		35.89	981.31	
						03/22/19		35.72	981.48	
						04/26/19		35.53	981.67	
						05/30/19		34.96	982.24	
						06/21/19		34.90	982.30	
						07/30/19		35.18	982.02	
						08/30/19		35.54	981.66	
						09/19/19		35.72	981.48	
						10/25/19		35.96	981.24	
						11/21/19		35.72	981.48	
						12/19/19		35.70	981.50	
						01/30/20		35.15	982.05	
						02/28/20		34.86	982.34	
						03/24/20		34.81	982.39	

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-6	N42.321778	W084.14391	116.85		1079.95	06/20/14		104.19	975.76	Installed May 2014
						07/17/14		104.16	975.79	
						08/28/14		104.25	975.70	
						09/23/14		104.43	975.52	
						10/30/14		104.63	975.32	
						11/25/14		104.85	975.10	
						12/29/14		104.95	975.00	
						01/07/15		105.01	974.94	
						02/16/15		104.98	974.97	
						03/20/15		105.00	974.95	
						04/24/15		105.06	974.89	
						05/12/15		105.09	974.86	
						06/11/15		105.05	974.90	
						07/24/15		104.40	975.55	
						08/28/15		104.40	975.55	
						09/29/15		104.60	975.35	
						10/29/15		104.84	975.11	
						11/24/15		105.15	974.80	
						12/18/15		105.15	974.80	
						01/28/16		105.05	974.90	
						02/26/16		105.35	974.60	
						03/25/16		105.27	974.68	
						04/27/16		104.90	975.05	
						05/26/16		104.66	975.29	
						06/14/16		104.67	975.28	
						07/22/16		104.86	975.09	
						08/31/16		104.93	975.02	
						09/22/16		105.04	974.91	
						10/28/16		105.16	974.79	
						11/28/16		105.04	974.91	
						12/22/16		105.25	974.70	
						01/26/17		105.02	974.93	
						02/28/17		104.60	975.35	
						03/21/17		104.49	975.46	
						04/27/17		103.72	976.23	
						05/23/17		103.27	976.68	
						06/30/17		102.89	977.06	
						07/28/17		103.05	976.90	
						08/31/17		103.38	976.57	
						09/26/17		103.59	976.36	
						10/27/17		103.76	976.19	
						11/29/17		103.90	976.05	
						12/12/17		103.84	976.11	
						01/29/18		103.90	976.05	
						02/28/18		103.54	976.41	
						03/22/18		103.31	976.64	
						04/30/18		102.90	977.05	
						05/25/18		102.36	977.59	
						06/22/18		101.95	978.00	
						07/27/18		102.20	977.75	
						08/31/18		102.64	977.31	
						09/28/18		102.98	976.97	
						10/26/18		103.21	976.74	
						11/27/18		103.56	976.39	
						12/17/18		103.66	976.29	
						01/25/19		103.87	976.08	
						02/26/19		103.95	976.00	
						03/22/19		103.75	976.20	
						04/26/19		103.80	976.15	
						05/30/19		103.49	976.46	
						06/21/19		103.45	976.50	
						07/30/19		103.52	976.43	
						08/30/19		103.84	976.11	
						09/19/19		103.94	976.01	
						10/25/19		104.12	975.83	
						11/21/19		103.93	976.02	
						12/19/19		104.03	975.92	
						01/30/20		103.61	976.34	
						02/28/20		103.38	976.57	
						03/24/20		103.26	976.69	

MW-6 (continued)

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
MW-7	N42.323694	W084.141108	117.12		1080.40	06/20/14		104.49	975.91	Installed May 2014
						07/17/14		104.44	975.96	
						08/28/14		104.53	975.87	
						09/23/14		104.73	975.67	
						10/30/14		105.00	975.40	
						11/25/14		105.21	975.19	
						12/29/14		105.27	975.13	
						01/07/15		105.31	975.09	
						02/16/15		105.28	975.12	
						03/20/15		105.30	975.10	
						04/24/15		105.40	975.00	
						05/12/15		105.49	974.91	
						06/11/15		105.47	974.93	
						07/24/15		104.76	975.64	
						08/28/15		104.79	975.61	
						09/29/15		105.00	975.40	
						10/29/15		105.24	975.16	
						11/24/15		105.50	974.90	
						12/18/15		105.47	974.93	
						01/28/16		105.35	975.05	
						02/26/16		105.60	974.80	
						03/25/16		105.54	974.86	
						04/27/16		105.19	975.21	
						05/26/16		104.99	975.41	
						06/14/16		104.99	975.41	
						07/22/16		105.20	975.20	
						08/31/16		105.25	975.15	
						09/22/16		105.35	975.05	
						10/28/16		105.47	974.93	
						11/28/16		105.37	975.03	
						12/22/16		105.53	974.87	
						01/26/17		105.29	975.11	
						02/28/17		104.86	975.54	
						03/21/17		104.74	975.66	
						04/27/17		103.99	976.41	
						05/23/17		103.59	976.81	
						06/30/17		103.29	977.11	
						07/28/17		103.48	976.92	
						08/31/17		103.82	976.58	
						09/26/17		104.04	976.36	
						10/27/17		104.19	976.21	
						11/29/17		104.30	976.10	
						12/12/17		104.21	976.19	
						01/29/18		104.22	976.18	
						02/28/18		103.84	976.56	
						03/22/18		103.60	976.80	
						04/30/18		103.25	977.15	
						05/25/18		102.76	977.64	
						06/22/18		102.40	978.00	
						07/27/18		102.68	977.72	
08/31/18		103.08	977.32							
09/28/18		103.42	976.98							
10/26/18		103.66	976.74							
11/27/18		103.95	976.45							
12/17/18		104.02	976.38							
01/25/19		104.15	976.25							
02/26/19		104.23	976.17							
03/22/19		104.02	976.38							
04/26/19		104.18	976.22							
05/30/19		103.86	976.54							
06/21/19		103.82	976.58							
07/30/19		103.92	976.48							
08/30/19		104.23	976.17							
09/19/19		104.32	976.08							
10/25/19		104.49	975.91							
11/21/19		104.30	976.10							
12/19/19		104.34	976.06							
01/30/20		103.89	976.51							
02/28/20		103.66	976.74							
03/24/20		103.55	976.85							
AI Lake-SE	N42.32668	W084.13218				02/13/06	976.75			GPS accuracy 18 feet
AI Lake-N	N42.32744	W084.13376				02/13/06	976.24			GPS accuracy 21 feet
AI Lake-N (cont.)						10/26/06	974.83			Elevation Surveyed from MW-2
AI Lake-W	N42.32587	W084.13441				08/24/07	976.60			Elevation Surveyed From BM-1
Freshwater Lake*-W						09/13/07	976.27			AI Lake re-named Freshwater Lake per Part 301 permit
						10/02/07	972.10			
						11/13/07	977.43			
						12/06/07	977.63			
						01/09/08	978.35			

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
Freshwater Lake*-W (cont.)						02/15/08	978.63			
						03/14/08	978.75			
						04/04/08	977.17			
						05/29/08	976.56			
						06/17/08	977.47			
						07/11/08	977.10			
						08/08/08	976.37			
						09/04/08	976.12			
						10/06/08	977.46			Large/many rain events in September 2008
						11/10/08	976.72			
						12/03/08	976.93			
						01/09/09	975.33			
						02/09/09	977.23			
						03/13/09	977.88			
						04/03/09	977.65			
						05/08/09	977.80			
						06/26/09	978.63			
						07/28/09	978.52			
						08/25/09	976.59			
						09/25/09	975.23			
						10/28/09	975.62			
						11/24/09	977.21			
						12/16/09	977.33			
						01/13/10	977.28			
						02/18/10	977.09			
						03/11/10	977.07			
						04/21/10	977.17			
						05/05/10	977.22			
						06/25/10	977.16			Large/many rain events in June 2010
						07/22/10	976.43			
						08/26/10	975.70			
						09/24/10	975.54			
						10/21/10	976.33			
						11/18/10	976.13			
						12/13/10	976.76			
						01/11/11	976.76			
						02/04/11	976.69			
						03/11/11	976.94			
						04/29/11	976.25			
						05/25/11	976.81			
						06/27/11	977.81			
						07/22/11	976.72			
						08/19/11	978.69			
						09/30/11	978.60			
						10/28/11	978.38			
					11/23/11	978.18				
					12/28/11	977.38				
					01/27/12	978.65				
					02/22/12	978.67				
					03/26/12	977.40			Pump on, but no water returning from sediment ponds	
					04/27/12	976.82				
					05/30/12	976.90				
					06/29/12	976.26				
					07/26/12	975.76				
					08/23/12	975.54				
					09/28/12	975.15				
					10/26/12	975.84				
					11/29/12	976.04				
					12/21/12	976.15				
					01/28/13	976.25				
					02/25/13	976.36				
					03/26/13	976.50				
					04/19/13	976.41				
					05/23/13	976.07				
					06/27/13	976.13				
					07/26/13	976.23				
					08/29/13	976.12				
					09/20/13	975.54				
					10/22/13	975.42				
					11/27/13	975.51				
					12/19/13	975.70				
					01/29/14	976.05				
					02/25/14	976.09				
					03/20/14	976.35				
					04/29/14	976.16				
					05/30/14	976.24				
					06/20/14	976.34				
					07/17/14	976.51				
					08/28/14	976.27				
					09/23/14	975.64				
					10/30/14	974.70				
					11/25/14	975.22				

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
Freshwater Lake*-W (cont.)						12/29/14	975.67			
						01/07/15	975.72			
						02/16/15	975.92			
						03/20/15	975.59			
						04/24/15	974.77			
						05/12/15	973.46			
						06/11/15	974.00			
						07/24/15	975.24			
						08/28/15	974.90			
						09/29/15	974.71			
						10/29/15	974.55			
						11/24/15	975.00			
						12/18/15	975.32			
						01/28/16	975.77			
						02/26/16	975.94			
						03/25/16	975.47			
						04/27/16	975.42			
						05/26/16	975.52			
						06/14/16	975.39			
						07/22/16	975.01			
						08/31/16	975.25			
						09/22/16	974.86			
						10/28/16	975.01			
						11/28/16	975.17			
						12/22/16	975.61			
						01/26/17	976.18			
						02/28/17	976.64			
						03/21/17	976.88			
						04/27/17	976.91			
						05/23/17	976.56			
						06/30/17	975.91			
						07/28/17	975.27			
						08/31/17	974.98			
						09/26/17	974.76			
						10/27/17	975.11			
						11/29/17	975.80			
						12/12/17	976.24			
						01/29/18	976.98			
						02/28/18	977.74			
						03/22/18	977.80			
04/30/18	977.62									
05/25/18	977.80									
06/22/18	977.74									
07/27/18	976.86									
08/31/18	976.34									
09/28/18	975.76									
10/26/18	975.52									
11/27/18	976.32									
12/17/18	976.73									
01/25/19	977.28									
02/26/19	977.46									
03/22/19	977.35									
04/26/19	976.00									
05/30/19	976.59									
06/21/19	976.72									
07/30/19	976.31									
08/30/19	976.03									
09/19/19	976.08									
10/25/19	976.00									
11/21/19	976.46									
12/19/19	976.97									
01/30/20	977.79									
02/28/20	978.00									
03/24/20	977.84									
Pond Lily Lake	N42.31729	W084.14114				10/26/06	981.44			Elevation Surveyed from MW-3, GPS accuracy 19 ft
						08/24/07	982.63			Elevation Surveyed from BM-2
						09/13/07	982.50			
						10/02/07	982.44			
						11/13/07	982.02			
						12/06/07	982.19			
						01/09/08	982.57			
						02/15/08	982.97			
						03/14/08	983.16			
						04/04/08	983.34			
						05/29/08	982.82			
						06/17/08	982.82			
						07/11/08	982.78			
						08/08/08	982.37			
						09/04/08	981.98			
						10/06/08	982.25			Large/many rain events in September 2008
						11/10/08	982.05			
						12/03/08	982.08			
						01/09/09	982.30			
						02/09/09	982.28			
03/13/09	982.71									
04/03/09	982.74									
05/08/09	982.89									

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
Pond Lily Lake (cont.)						06/26/09	983.25			
						07/28/09	982.80			
						08/25/09	982.56			
						09/25/09	982.35			
						10/28/09	982.43			
						11/24/09	982.28			
						12/16/09	982.33			
						01/13/10	982.24			
						02/18/10	982.10			
						03/11/10	982.12			
						04/21/10	982.03			
						05/05/10	982.02			
						06/25/10	982.64			Large/many rain events in June 2010
						07/22/10	982.54			
						08/26/10	982.37			
						09/24/10	982.08			
						10/21/10	981.78			
						11/18/10	981.58			
						12/13/10	981.64			
						01/11/11	981.56			
						02/04/11	981.65			
						03/11/11	981.73			
						04/29/11	982.27			
						05/25/11	982.48			
					06/27/11	982.55				
					07/22/11	982.16				
					08/19/11	983.09				
					09/30/11	982.96				
					10/28/11	982.85				
					11/23/11	982.80				
					12/28/11	983.16				
					01/27/12	983.28				
					02/22/12	983.22				
					03/26/12	983.27				
					04/27/12	983.08				
					05/30/12	982.67				
					06/29/12	982.43				
					07/26/12	981.95				
					08/23/12	981.66				
					09/28/12	981.32				
					10/26/12	981.31				
					11/29/12	981.06				
					12/21/12	981.10				
					01/28/13	981.06				
					02/25/13	981.18				
					03/26/13	981.28				
					04/19/13	981.55				
					05/23/13	981.37				
					06/27/13	981.37				
					07/26/13	981.12				
					08/29/13	981.03				
					09/20/13	980.70				
					10/22/13	980.59				
					11/27/13	980.60				
					12/19/13	980.60				
					01/29/14	980.99				
					02/25/14	980.95				
					03/20/14	981.21				
					04/29/14	981.12				
					05/30/14	981.20				
					06/20/14	981.13				
					07/17/14	981.21				
					08/28/14	981.02				
					09/23/14	980.99				
					10/30/14	980.85				
					11/25/14	980.89				
					12/29/14	980.84				
					01/07/15	980.84				
					02/16/15	980.70				
					03/20/15	980.78				
					04/24/15	980.76				
					05/12/15	980.79				
					06/11/15	980.70				
					07/24/15	981.24				
					08/28/15	980.91				
					09/29/15	980.47				
					10/29/15	980.46				
					11/24/15	980.20				
					12/18/15	980.39				
					01/28/16	980.68				
					02/26/16	980.40				
					03/25/16	980.74				
					04/27/16	980.77				
					05/26/16	980.78				
					06/14/16	980.09				
					07/22/16	978.63			excavated 1.5ft dia hole and let fill with water.	
					08/31/16	980.37				
					09/22/16	979.72				
					10/28/16	980.50				

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
Pond Lily Lake (cont.)						11/28/16	980.40			
						12/22/16	980.31			
						01/26/17	980.71			
						02/28/17	980.92			
						03/21/17	981.06			
						04/27/17	981.74			
						05/23/17	982.02			
						06/30/17	981.75			
						07/28/17	981.48			
						08/31/17	981.47			
						09/26/17	981.23			
						10/27/17	981.41			
						11/29/17	981.64			
						12/12/17	981.57			
						01/29/18	981.68			
						02/28/18	982.08			
						03/22/18	982.24			
						04/30/18	982.43			
						05/25/18	982.82			
						06/22/18	982.76			
						07/27/18	982.24			
						08/31/18	981.99			
						09/28/18	981.77			
						10/26/18	981.69			
						11/27/18	981.78			
						12/17/18	981.78			
						01/25/19	981.78			
						02/26/19	981.76			
						03/22/19	981.80			
						04/26/19	981.87			
						05/30/19	982.06			
						06/21/19	982.21			
07/30/19	981.87									
08/30/19	981.55									
09/19/19	981.44									
10/25/19	981.42									
11/21/19	981.66									
12/19/19	981.81									
01/30/20	982.18									
02/28/20	982.22									
03/24/20	982.24									
Clear Lake	N42.33242	W084.15166				08/29/07	966.35		Elevation Surveyed from BM-3	
						09/13/07	966.20	Note: USGS Topo shows lake elevation at 968 ft amsl		
						10/02/07	966.13			
						11/13/07	966.22			
						12/06/07	966.41			
						01/09/08	966.49			
						02/15/08	966.33			
						03/14/08	966.26			
						04/04/08	966.35			
						05/29/08	966.15	Elevation Surveyed from BM-4		
						06/17/08	966.25			
						07/11/08	966.26			
						08/08/08	966.06			
						09/04/08	965.89			
						10/06/08	966.20	Large/many rain events in September 2008		
						11/10/08	966.33			
	12/03/08	966.47								
	01/09/09	966.31								
	02/09/09	966.17								
	03/13/09	966.54								
	04/03/09	966.75								
	05/08/09	966.29								
	06/26/09	966.35								
	07/28/09	966.16								
	08/25/09	966.18								
	09/25/09	966.23								
	10/28/09	966.39								
	11/24/09	966.46								
	12/16/09	966.35								
	01/13/10	966.34								
	02/18/10	966.32								
	03/11/10	966.31								
04/21/10	966.21									
05/05/10	966.31									
06/25/10	966.35	Large/many rain events in June 2010								
07/22/10	966.28									
08/26/10	966.14									
09/24/10	966.02									
10/21/10	965.93									
11/18/10	965.94									
12/13/10	966.18									
01/11/11	966.29									
02/04/11	966.36									
03/11/11	966.54									
04/29/11	966.50									
05/25/11	966.57									

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

Aggregate Industries -- Chelsea Operations
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
Clear Lake (cont.)						06/27/11	966.22			
						07/22/11	966.09			
						08/19/11	966.31			
						09/30/11	966.32			
						10/28/11	966.30			
						11/23/11	966.50			
						12/28/11	966.35			
						01/27/12	966.39			
						02/22/12	966.30			
						03/26/12	966.32			
						04/27/12	966.20			
						05/30/12	966.06			
						06/29/12	966.08			
						07/26/12	965.76			
						08/23/12	965.69			
						09/28/12	965.53			
						10/26/12	965.73			
						11/26/12	965.74			
						12/21/12	965.93			
						01/28/13	966.22			
						02/25/13	966.40			
						03/26/13	966.62			
						04/19/13	966.62			
						05/23/13	966.15			
						06/27/13	966.24			
						07/26/13	966.04			
						08/29/13	966.10			
						09/20/13	965.91			
						10/22/13	965.90			
						11/27/13	966.05			
					12/19/13	966.13				
					01/29/14	966.30				
					02/25/14	966.31				
					03/20/14	966.33				
					04/29/14	966.29				
					05/30/14	966.10				
					06/20/14	966.28				
					07/17/14	966.19				
					08/28/14	966.21				
					09/23/14	966.16				
					10/30/14	966.13				
					11/25/14	966.21				
					12/29/14	966.33				
					01/07/15	966.34				
					02/16/15	966.32				
					03/20/15	966.27				
					04/24/15	966.24				
					05/12/15	966.30				
					06/11/15	966.33				
					07/24/15	966.28				
					08/28/15	965.90				
					09/29/15	965.72				
					10/29/15	965.62				
					11/24/15	965.70				
					12/18/15	965.74				
					01/28/16	966.17				
					02/26/16	966.18				
					03/25/16	966.37				
					04/27/16	966.37				
					05/26/16	966.21				
					06/14/16	966.08				
					07/22/16	965.75				
					08/31/16	965.97				
					09/22/16	965.86				
					10/28/16	966.10				
					11/28/16	966.12				
					12/22/16	966.22				
					01/26/17	966.36				
					02/28/17	966.33				
					03/21/17	966.29				
					04/27/17	966.34				
					05/23/17	966.40				
					06/30/17	966.09				
					07/28/17	966.00				
					08/31/17	965.98				
					09/26/17	965.91				
					10/27/17	966.27				
					11/29/17	966.36				
					12/12/17	966.39				
					01/29/18	966.59				
					02/28/18	966.52				
					03/22/18	966.43				
					04/30/18	966.35				
					05/25/18	966.42				
					06/22/18	966.34				
					07/27/18	966.03				
					08/31/18	966.14				
					09/28/18	966.07				

Table 1 - Groundwater and Surface Water Elevation Data - Part 301 Permit No. WRP007818 v.1

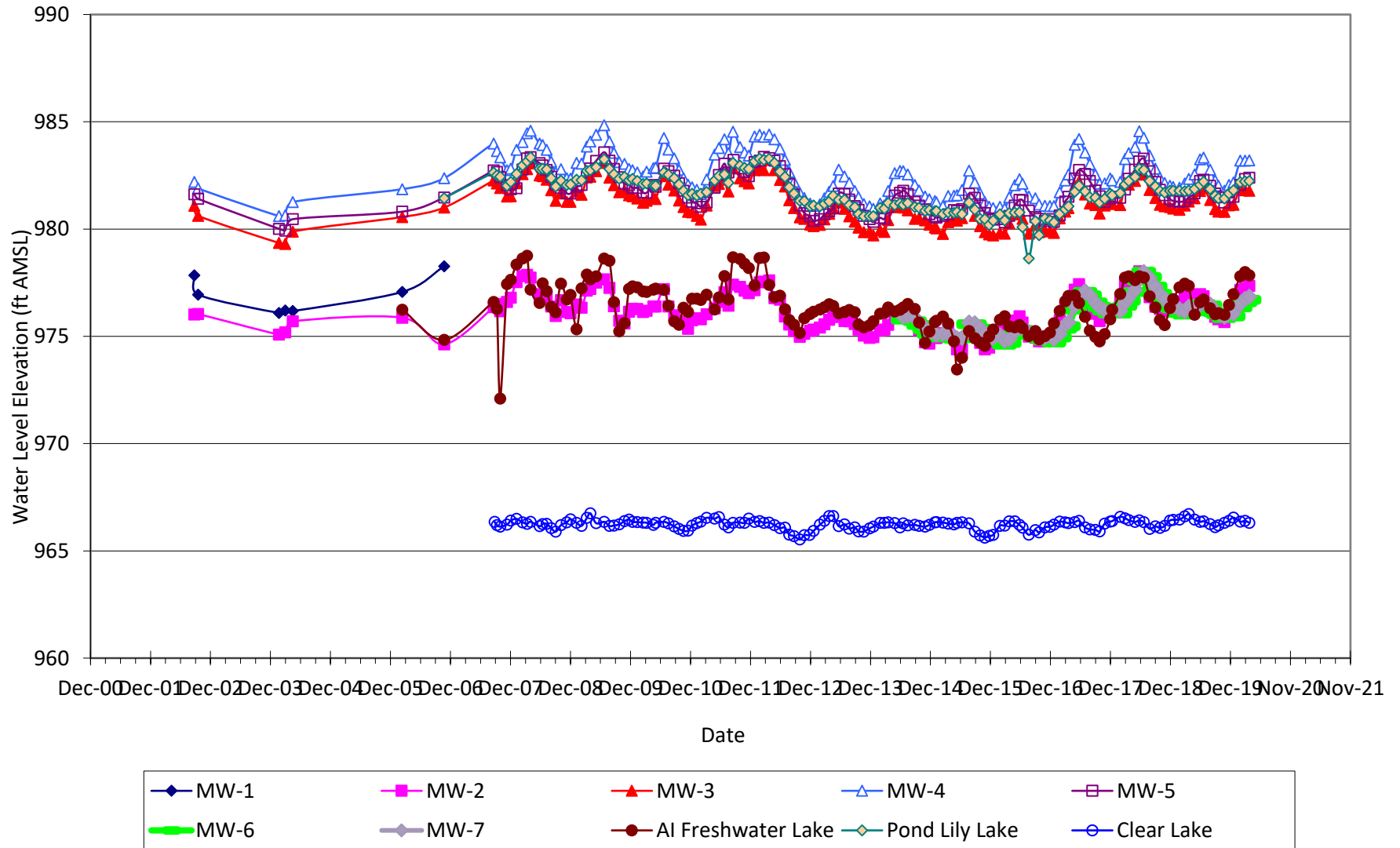
Aggregate Industries -- Chelsea Operations
 Waterloo Township, Jackson County, Michigan

Location	Coordinates		Well Depth (ft bgs)	Screen Depth (ft bgs)	Top of Casing (ft amsl)	Date	Surface Water Elevation (ft amsl)	Depth to Water (ft btoc)	Static Water Level Elevation (ft amsl)	Comments
	Northing	Easting								
Clear Lake (cont.)						10/26/18	966.16			
						11/27/18	966.41			
						12/17/18	966.45			
						01/25/19	966.46			
						02/26/19	966.61			
						03/22/19	966.71			
						04/26/19	966.46			
						05/30/19	966.35			
						06/21/19	966.38			
						07/30/19	966.25			
						08/30/19	966.11			
						09/19/19	966.19			
						10/25/19	966.30			
						11/21/19	966.40			
						12/19/19	966.55			
						01/30/20	966.36			
						02/28/20	966.40			
					03/24/20	966.31				

Notes:

Wells are 2" PVC with 10 foot PVC screens (0.001-inch slot). Coarse filter pack to 2 ft above screen. Finished upright with steel covers and expanding well caps.
 ASTI elevation survey to USGS Datum (2002) - reference: Hydrogeologic Investigation Report to Aggregate Industries Waterloo Township, Michigan dated September 25, 2002.
 *Freshwater Lake is the name of the created water body under Part 301 Permit No. 06-38-0043-P.

Monitoring Well & Surface Water Hydrograph
 Aggregate Industries, Inc. - Chelsea Plant
 Part 301 Permit No. WRP007818 v.1



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