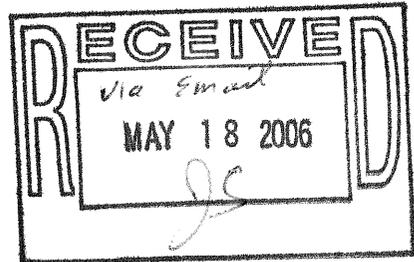


summarized



FAY, SPOFFORD & THORNDIKE, LLC
5 BURLINGTON WOODS - BURLINGTON, MASSACHUSETTS 01803

Memorandum



To: David Albrecht
From: Justin Gould
Date: May 17, 2006

RE: The Residences at Acorn Park – Wastewater Management Systems Review

Technical Report #16, Guides For The Design Of Wastewater Treatment Works (TR-16), by the New England Interstate Water Pollution Control Commission is an accepted industry standard for the design of wastewater systems and is to be followed for the design of this system. Utilizing the guidelines presented in TR-16, FST offers the following general comments regarding the proposed pumping station and force main design. Reference to TR-16 is recommended for more comprehensive and detailed guidance.

1. Minimum force main diameter of 4 inches (3-inch diameter is currently proposed).
2. Minimum force main velocity of 3 feet per second.
3. Pumping rate required to meet conditions in 1 & 2 above is approximately 120 gpm.
4. Recalculate wet well size and pump cycle time base on increased pumping rate.
5. Pumps shall be capable of passing a minimum 3-inch diameter sphere (proposed pump can pass a maximum 2.5-inch solid).
6. Depending on the force main profile, appropriate consideration for air/vacuum relief may be required.

Flow data from the monitor installed in the 15-inch sewer at the intersection of Brighton Street and Hill Road was received on May 12. The data includes the period from 4/12/06 to 5/09/06 and has been attached for your reference. FST anticipates completion of the wastewater flow impact analysis next week.

Belmont, MA

FAST Flow Summary

Site: 1 Brighton St. @ Hill Rd.
 Meter Type: FLOW
 Pipe Shape: 15" Circular Pipe

Date	Minimum Flow (mgd)	Peak Flow (mgd)	Total Daily Flow (mg)	Total Rain (In)	Peak Hourly Rain (In)	Peak 15 Min. Rain (In)
04/12/06 (Wed)	0.133	0.234	0.106	0.00	----	----
04/13/06 (Thu)	0.090	0.281	0.163	0.00	----	----
04/14/06 (Fri)	0.086	0.294	0.160	0.01	0.01	0.01
04/15/06 (Sat)	0.086	0.285	0.171	0.00	----	----
04/16/06 (Sun)	0.081	0.304	0.163	0.00	----	----
04/17/06 (Mon)	0.086	0.263	0.157	0.00	----	----
04/18/06 (Tue)	0.084	0.227	0.151	0.01	0.01	0.01
04/19/06 (Wed)	0.087	0.253	0.147	0.00	----	----
04/20/06 (Thu)	0.086	0.229	0.145	0.00	----	----
04/21/06 (Fri)	0.084	0.247	0.144	0.00	----	----
04/22/06 (Sat)	0.077	0.248	0.150	0.05	0.03	0.01
04/23/06 (Sun)	0.079	0.323	0.180	0.86	0.29	0.12
04/24/06 (Mon)	0.144	0.309	0.195	0.12	0.05	0.03
04/25/06 (Tue)	0.088	0.287	0.164	0.04	0.03	0.01
04/26/06 (Wed)	0.086	0.287	0.158	0.00	----	----
04/27/06 (Thu)	0.071	0.297	0.159	0.00	----	----
04/28/06 (Fri)	0.093	0.297	0.152	0.00	----	----
04/29/06 (Sat)	0.069	0.266	0.156	0.00	----	----
04/30/06 (Sun)	0.064	0.262	0.163	0.00	----	----
05/01/06 (Mon)	0.066	0.261	0.148	0.00	----	----
05/02/06 (Tue)	0.076	0.377	0.214	1.10	0.23	0.12
05/03/06 (Wed)	0.158	0.359	0.231	0.24	0.06	0.03
05/04/06 (Thu)	0.126	0.349	0.191	0.00	----	----
05/05/06 (Fri)	0.103	0.298	0.175	0.00	----	----
05/06/06 (Sat)	0.099	0.316	0.179	0.00	----	----
05/07/06 (Sun)	0.090	0.264	0.175	0.00	----	----
05/08/06 (Mon)	0.084	0.314	0.166	0.00	----	----
05/09/06 (Tue)	0.084	0.282	0.056	0.00	----	----
Total for period:			4.521	2.43		
Minimum for period:			0.064			
Maximum for period:			0.377			
Average for period:			0.167			

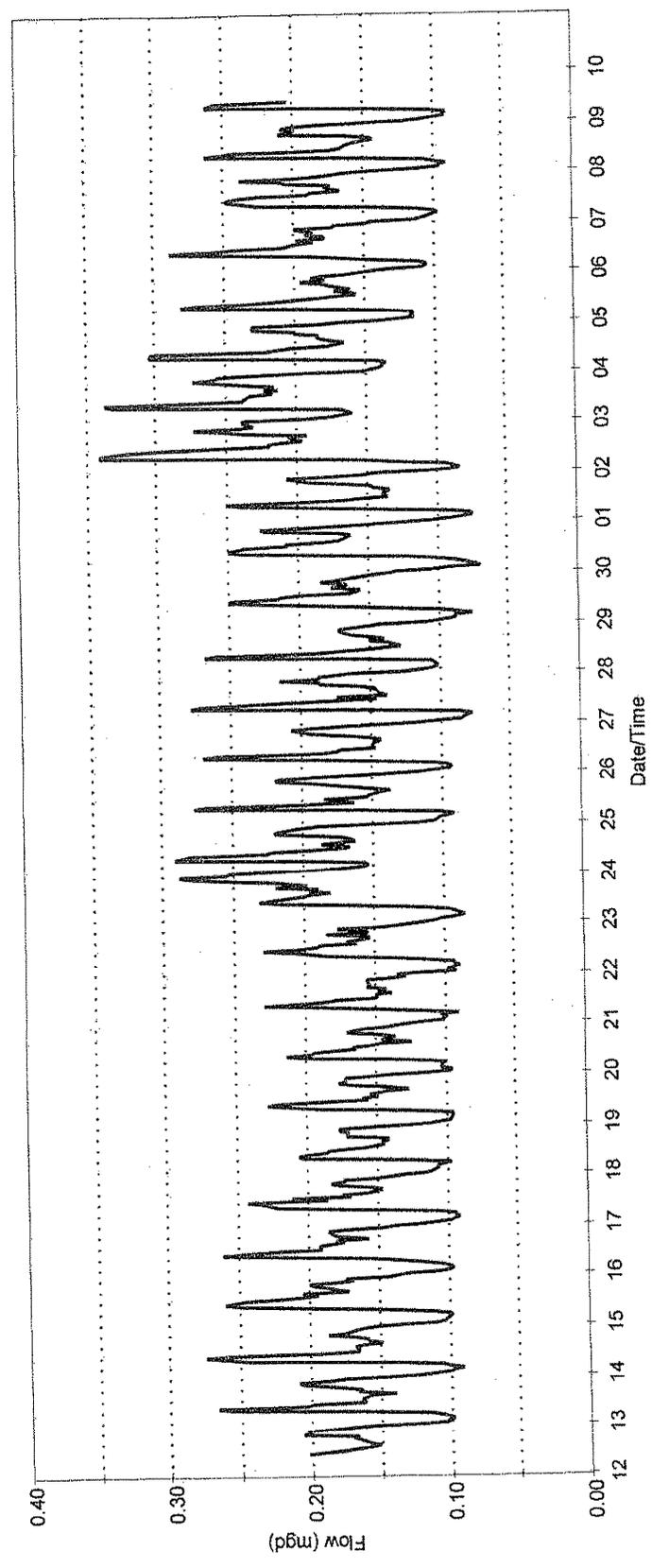
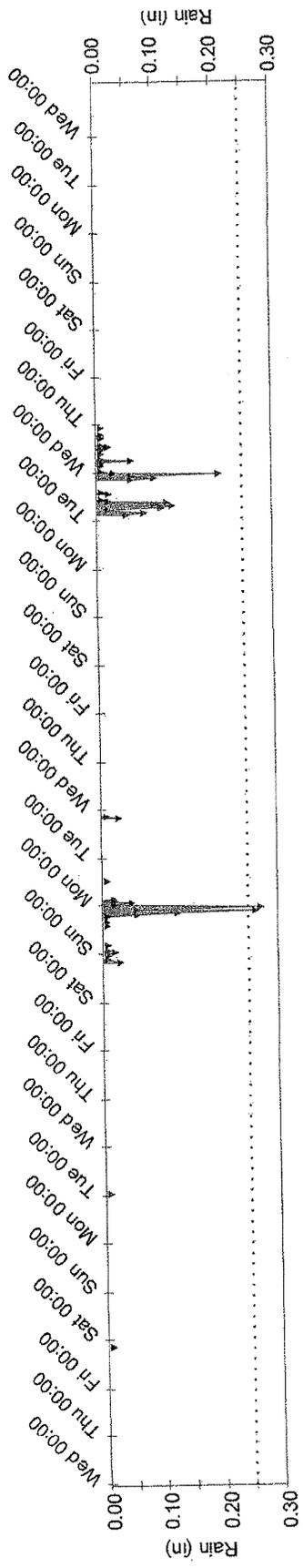
FLOW ANALYSIS

Period Covered: 04/12/2006 - 05/09/2006

Prepared by Flow Assessment Services, LLC

For: in Belmont, MA

Site: 1 / Brighton St. @ Hill Rd.



Site 1