
Evidence for Waste Water Flow Being 50% of Title V Capacity

- 1. Most Recent 15 Months**
- 2. Long-term Wayland WWTP Flow**
- 3. Title V Capacity**

Wayland Waste Water Management District

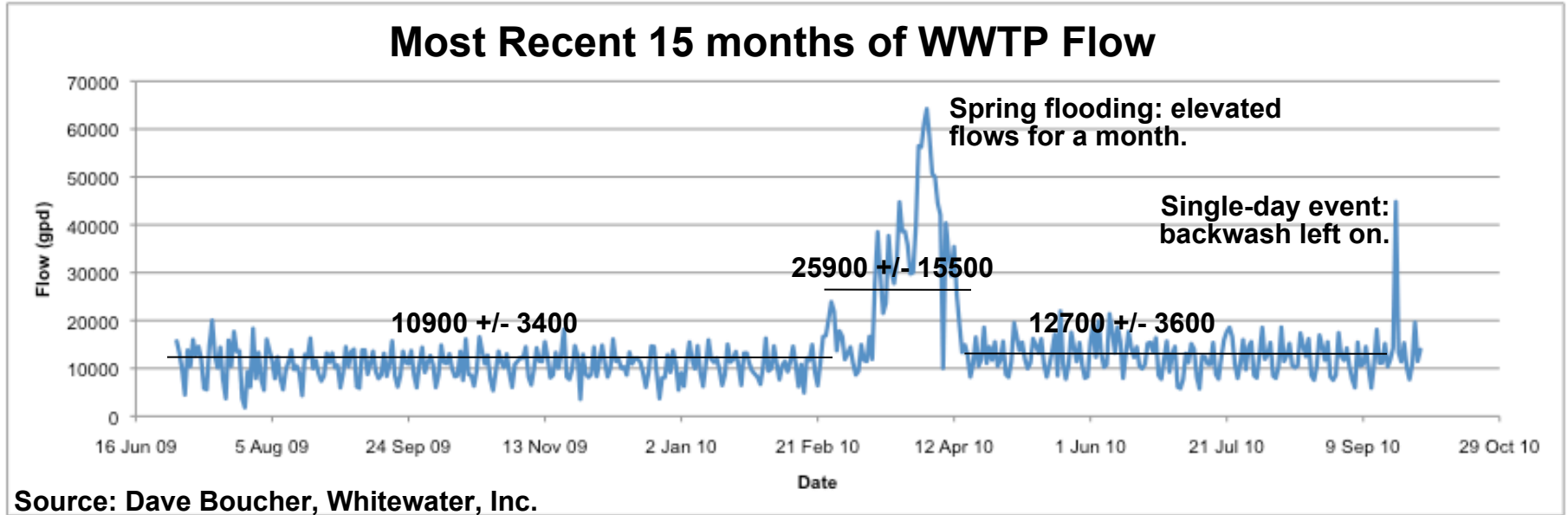
3 November 2010

Revised 24 May 2011

Revised 17 October 2011 (added recent daily flows, chart 3)

WWMDC

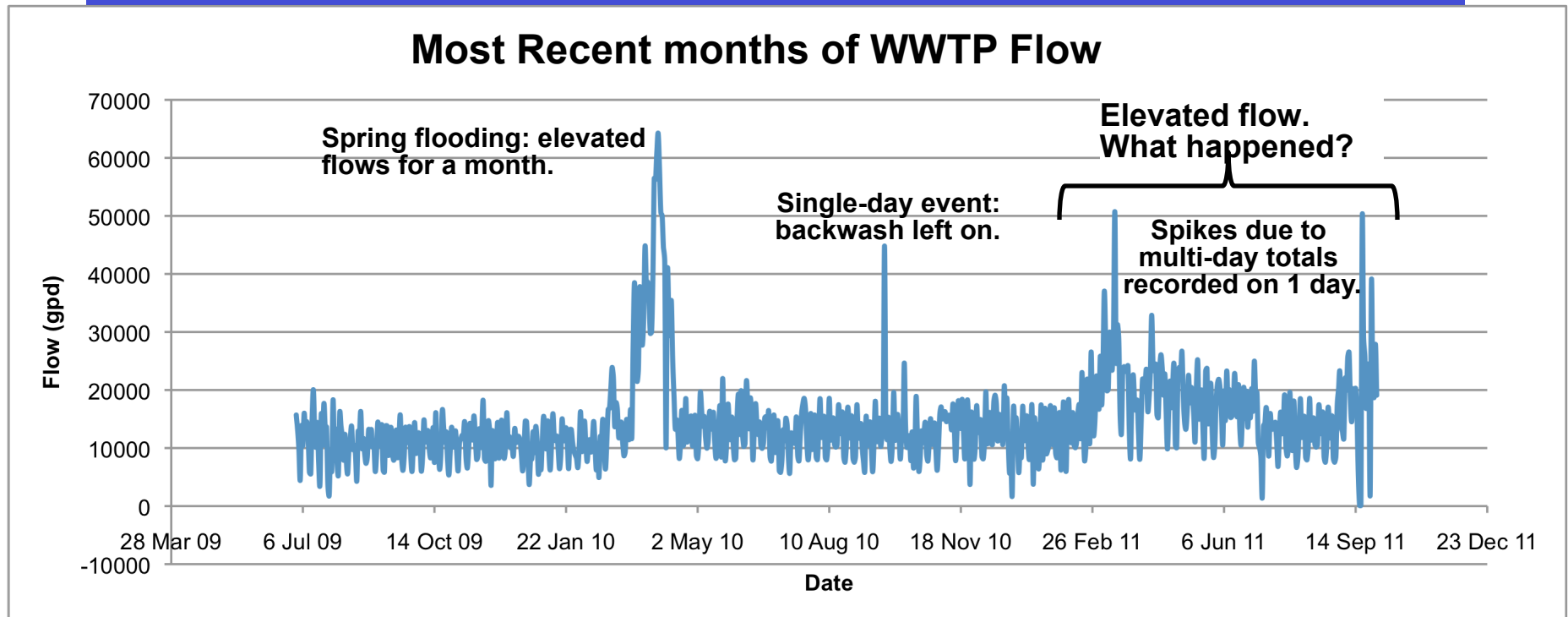
1. Most Recent 15 Months



Comments

- The flooding showed that the current WWTP can handle 5x larger flows, at least temporarily.
- The last four months have seen slightly elevated flows.
- Last 15 months of flow (shown on plot) are somewhat higher than long-term records (See next chart).
- Total capacity for users with flow is 19700 gpd, so flow is ~50% of capacity.

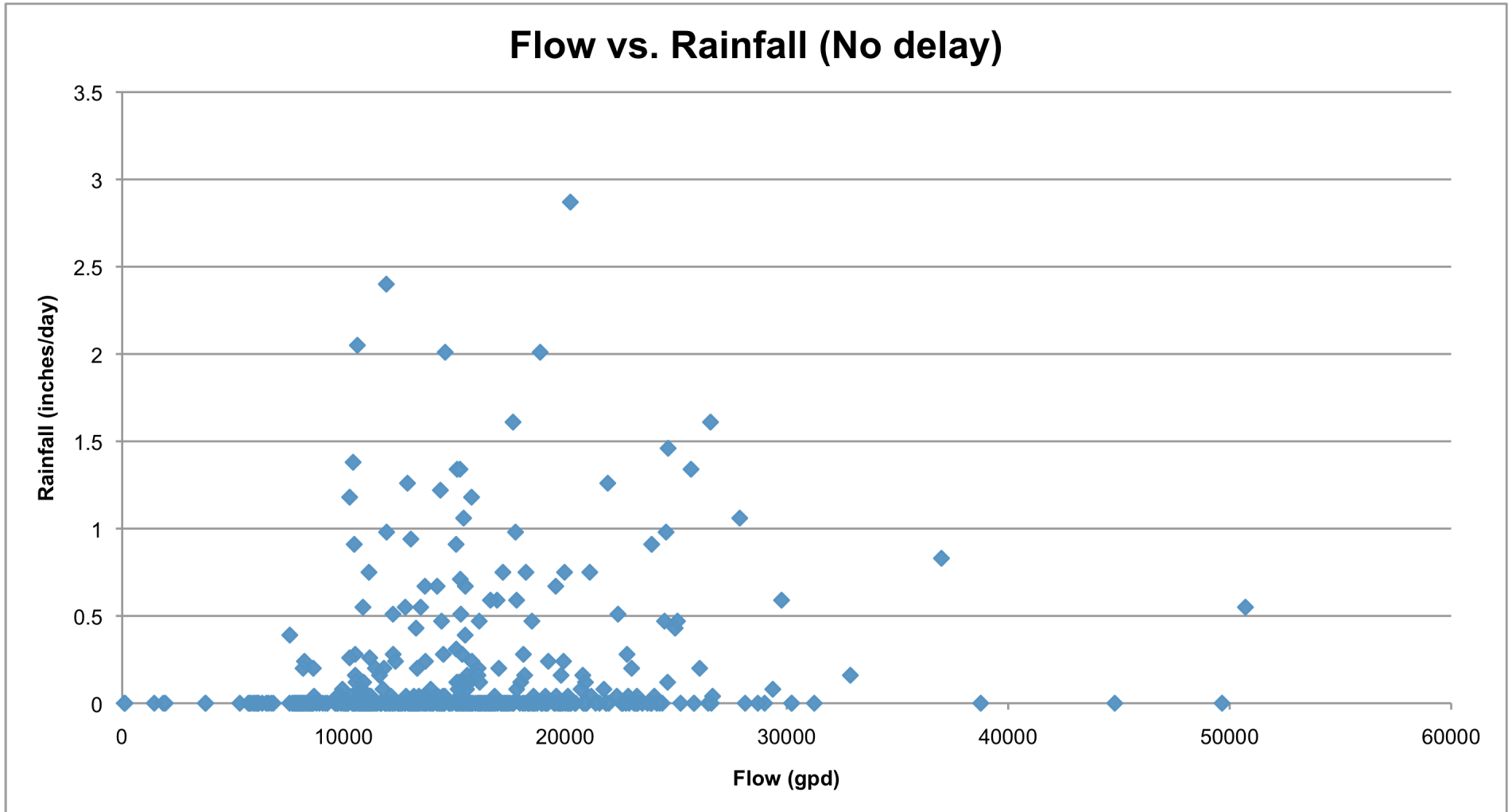
Most Recent Months



Comments

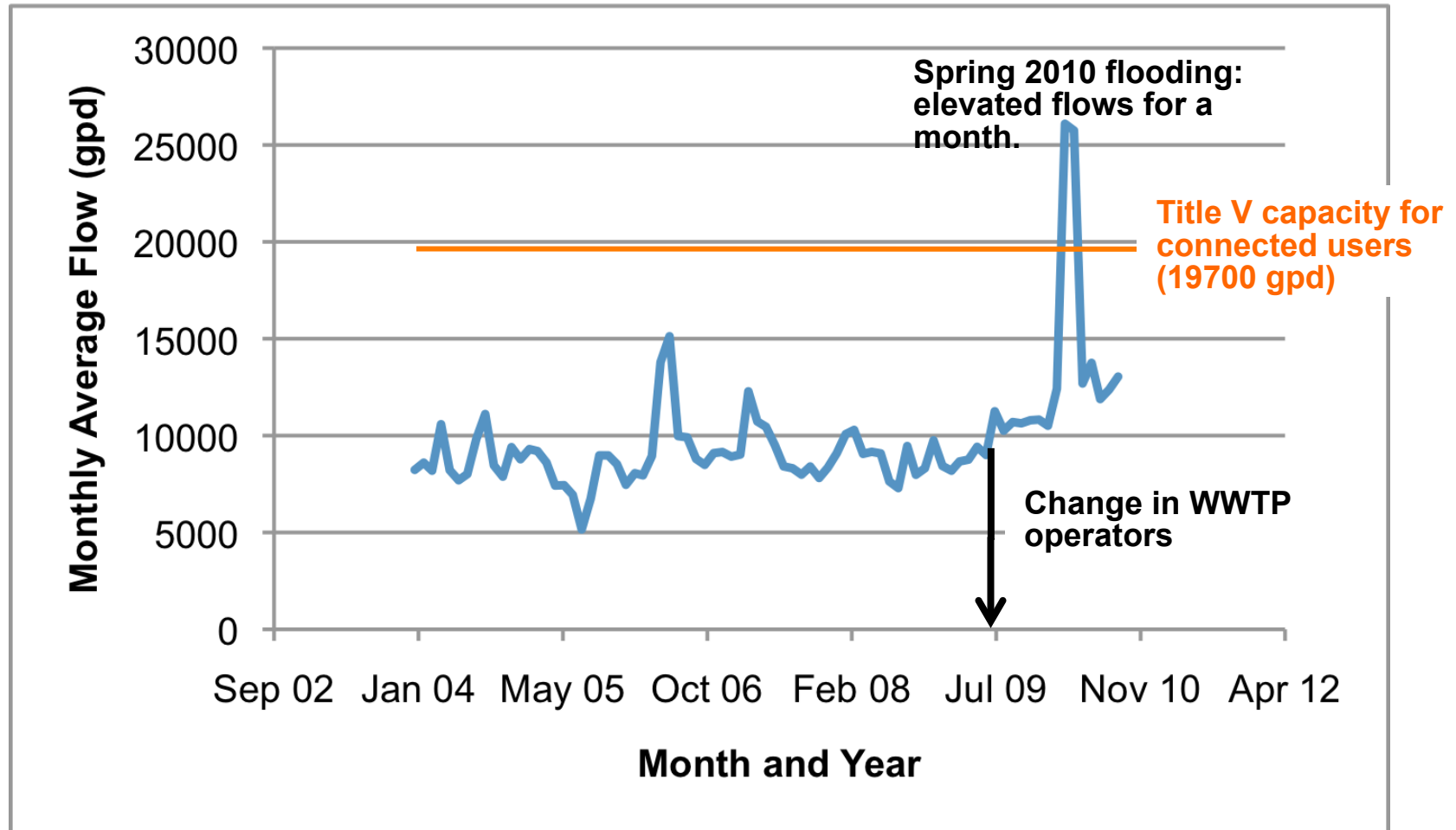
- Up until the flooding of the Spring of 2010, daily fluctuations were small.
- There was a slight increase (+1800 gpd average) in daily flow after the flooding.
- Then in February 2011 large increases started to occur.
- After February 2011, daily totals have been ranged up to 29,000 gpd.

Evidence for No Direct Correlation



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2. Long-term Wayland WWTP Flow



Title V Capacity

- Question: What fraction of Title V capacity is used by current users?
- Answer #1 uses winter water usage from Water Department. Title V capacity for users paying fees, except 20Wayland, LLC, is 23,390 gpd.

	Calendar Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	Total (all users) Winter Water Usage (gpd averaged over Jan-Mar)	13322	10341	13414			12163	10373	8834	10699	11608
Answer #1	Water Usage/capacity = Water Usage/23390gpd	57%	44%	57%			52%	44%	38%	46%	50%

- Answer #2 uses annualized mean flow from WWTP Operation. Title V capacity of users connected and using WWTP is 19,700 gpd

	Calendar Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	Mean wastewater flow (gpd averaged over 12 months Jan-Dec)	8846			8846	7996	9734	9184	8901	9544	
Answer #2	Waste Water flow/capacity = flow/19700gpd	45%			45%	41%	49%	47%	45%	48%	

- #1 Using winter water usage, the usage is 38% to 57% of Title V capacity.
- #2 Using aggregate waste water flow, the usage is 41% to 48% of Title V capacity.
- Both of these are fairly consistent over the years and justify the use of Title V capacity being twice the flow.