

Spokane River NPDES Permits

Agenda

- Public meeting – 6:00 PM
 - Presentations
 - Displays
- Public Hearing – 7:00 PM

WQ permitting staff

Spokane River NPDES permits managed by:

- Richard Koch, P.E. (municipalities)
 - 509-329-3519 richard.koch@ecy.wa.gov
- Pat Hallinan, P.E. (industries)
 - 509-329-3500 pat.hallinan@ecy.wa.gov

Virginia Darrell, P.E. (permit unit supervisor)

- 509-329-3504 ginny.darrell@ecy.wa.gov

Permits can be found at

- http://www.ecy.wa.gov/programs/wq/permits/eastern_permits.html#l

Transition from planning to implementation

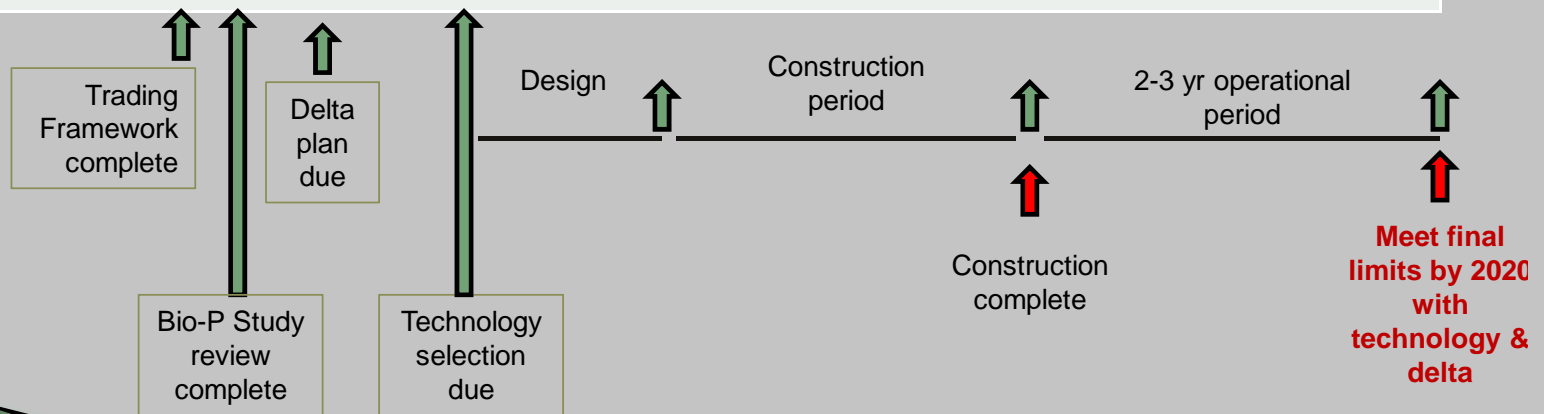
- TMDL - a cleanup plan.
- Permits implement the TMDL requirements for point-source dischargers by:
 - Limiting amount of pollutants
 - Providing compliance schedule

Wastewater sources

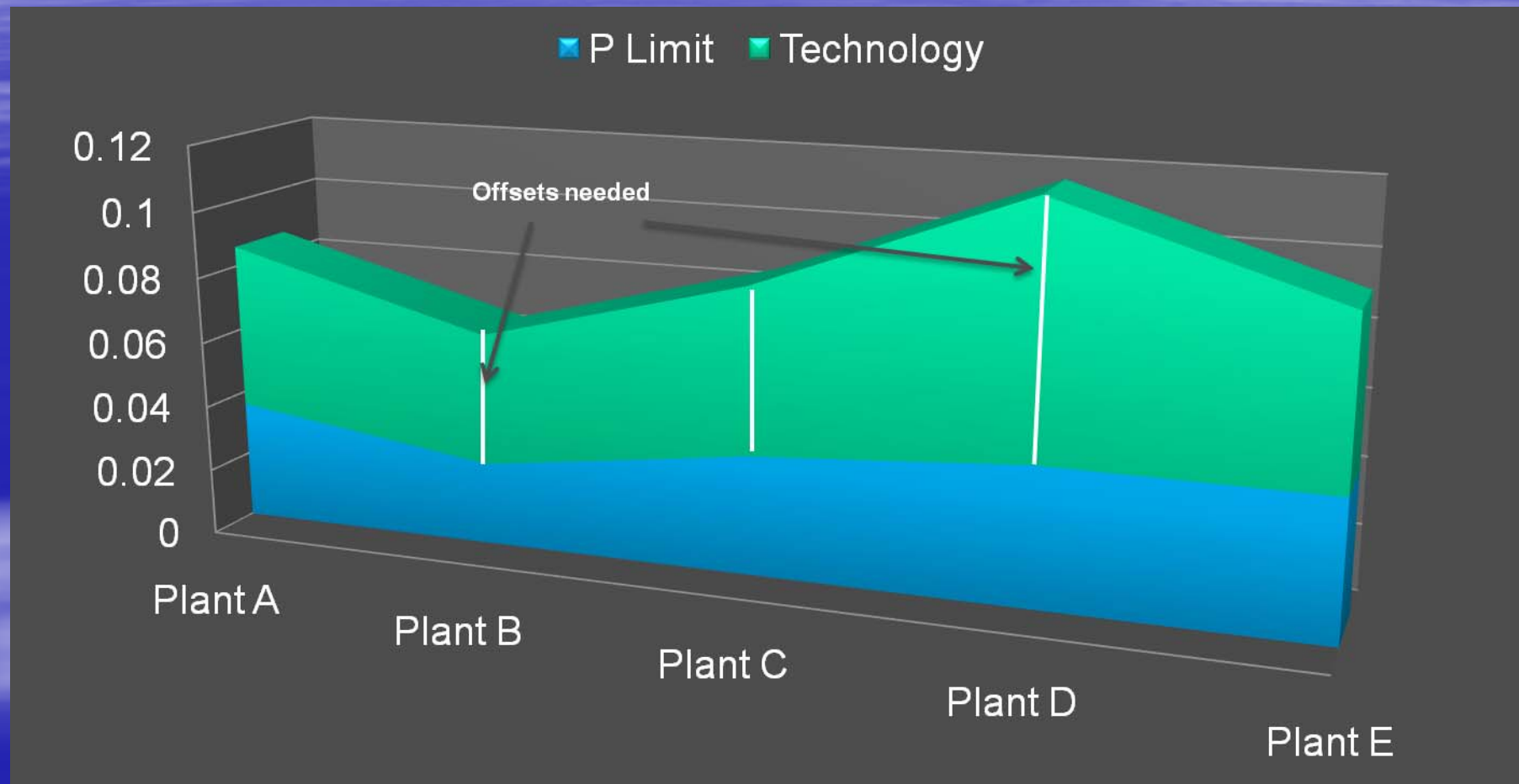
- Existing point sources (NPDES permitted treatment works)
 - Washington:
 - Cities of Spokane, Liberty Lake (municipal)
 - Inland Empire Paper, Kaiser (industrial)
 - Idaho:
 - Cities of Coeur d'Alene, Post Falls, Hayden (municipal)
- Proposed point source: Spokane County (municipal)

Permit implementation schedule

	1 st Permit cycle					2 nd Permit cycle				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Implement delta management (use credits)										✗
Implement technology							✗			
Final permit limits = technology limit + delta management										✗



Using offsets (delta management) to meet permit limits



Offset program

- Offset examples:
 - Nutrient equivalency
 - Non bio-available phosphorus
 - Shoreline renovation
 - Stormwater treatment
- Program is in development, due by end of 2011

Permit review process

Public review

- 45-day review -send in written comments by Nov. 17th and/or provide written or verbal comments at public hearing following this meeting

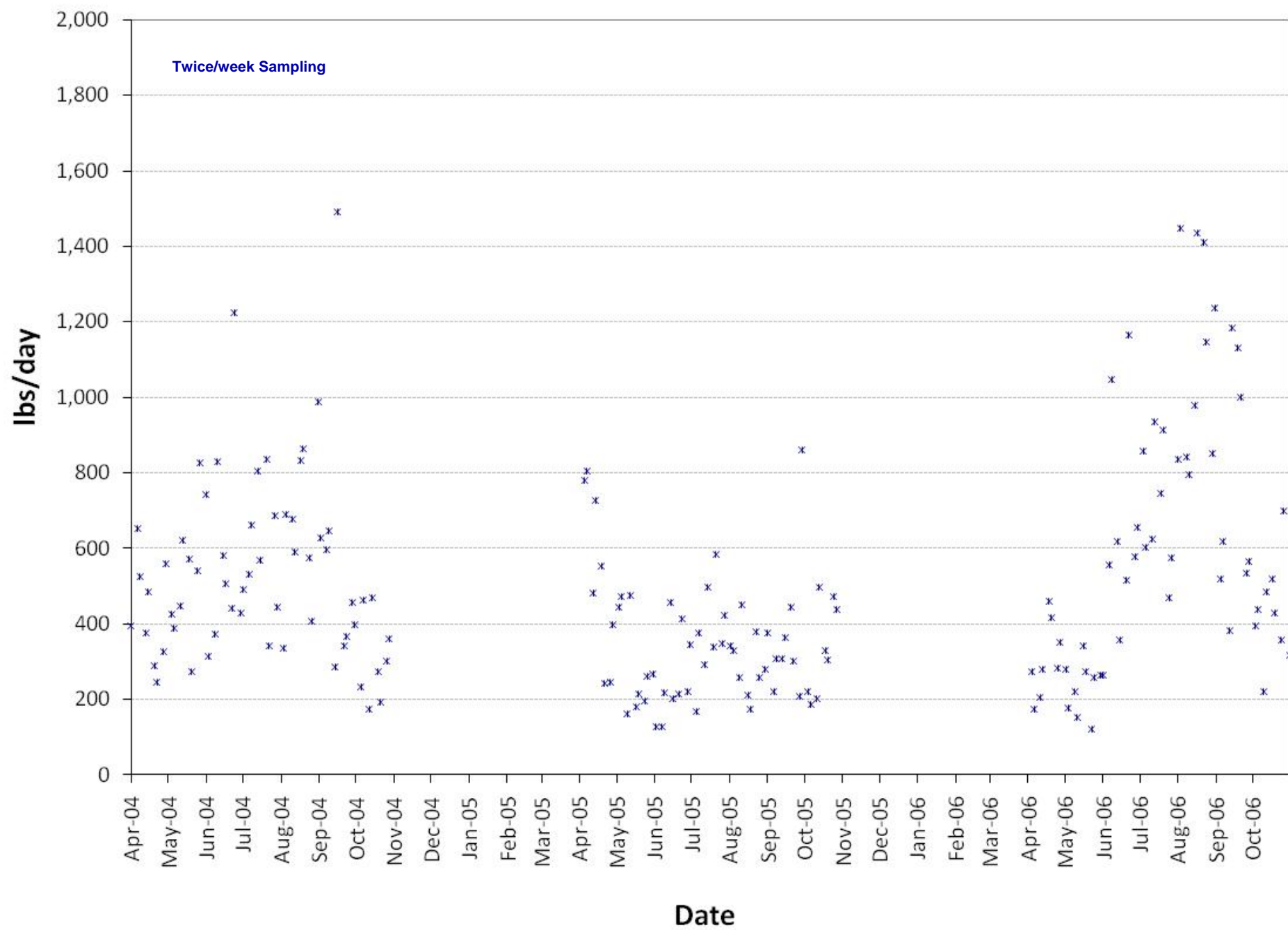


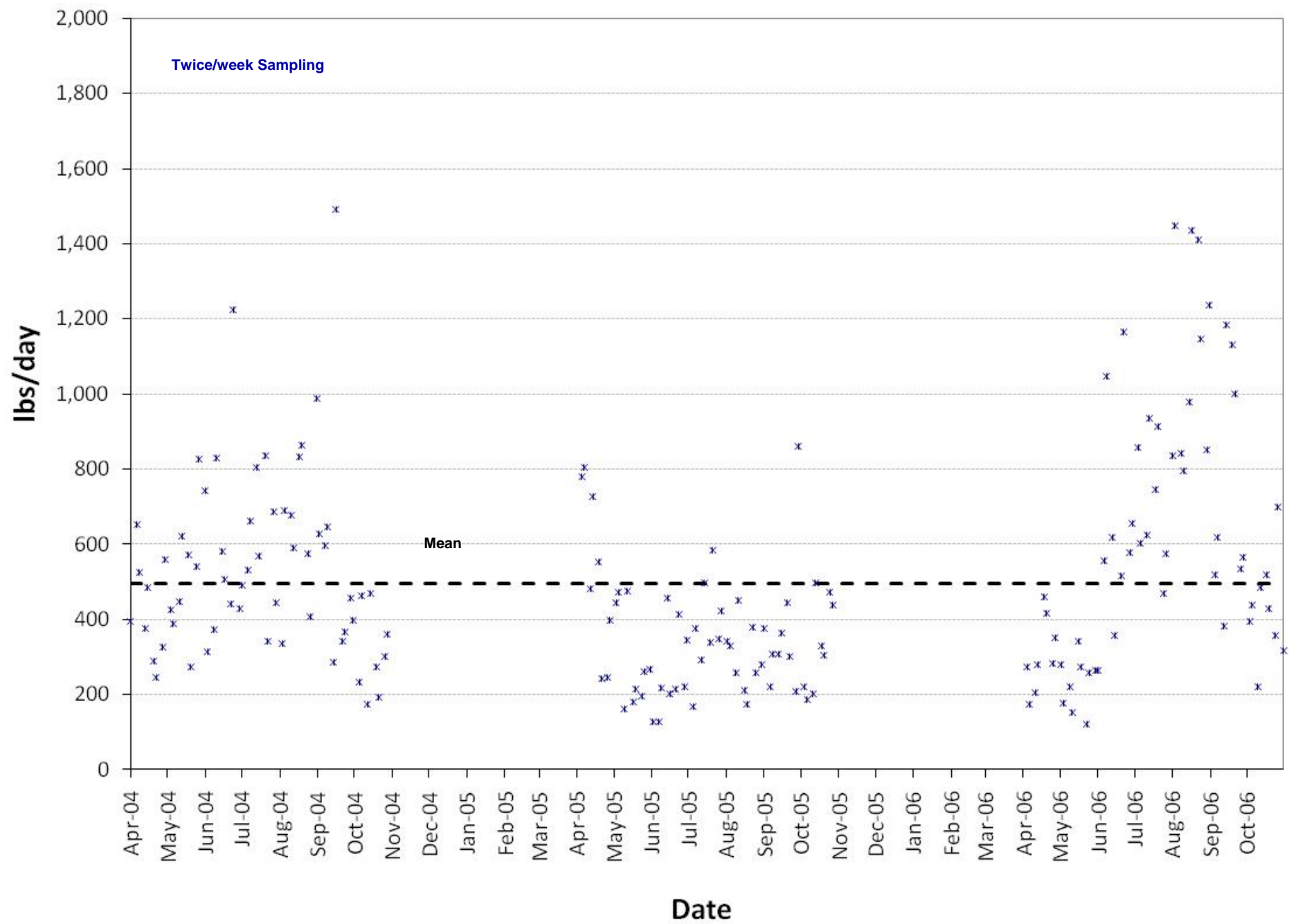
Final permit

- Permit
- Fact Sheet, including response to comments

Month Average Limit-Waste Load
Allocations-Seasonal Average

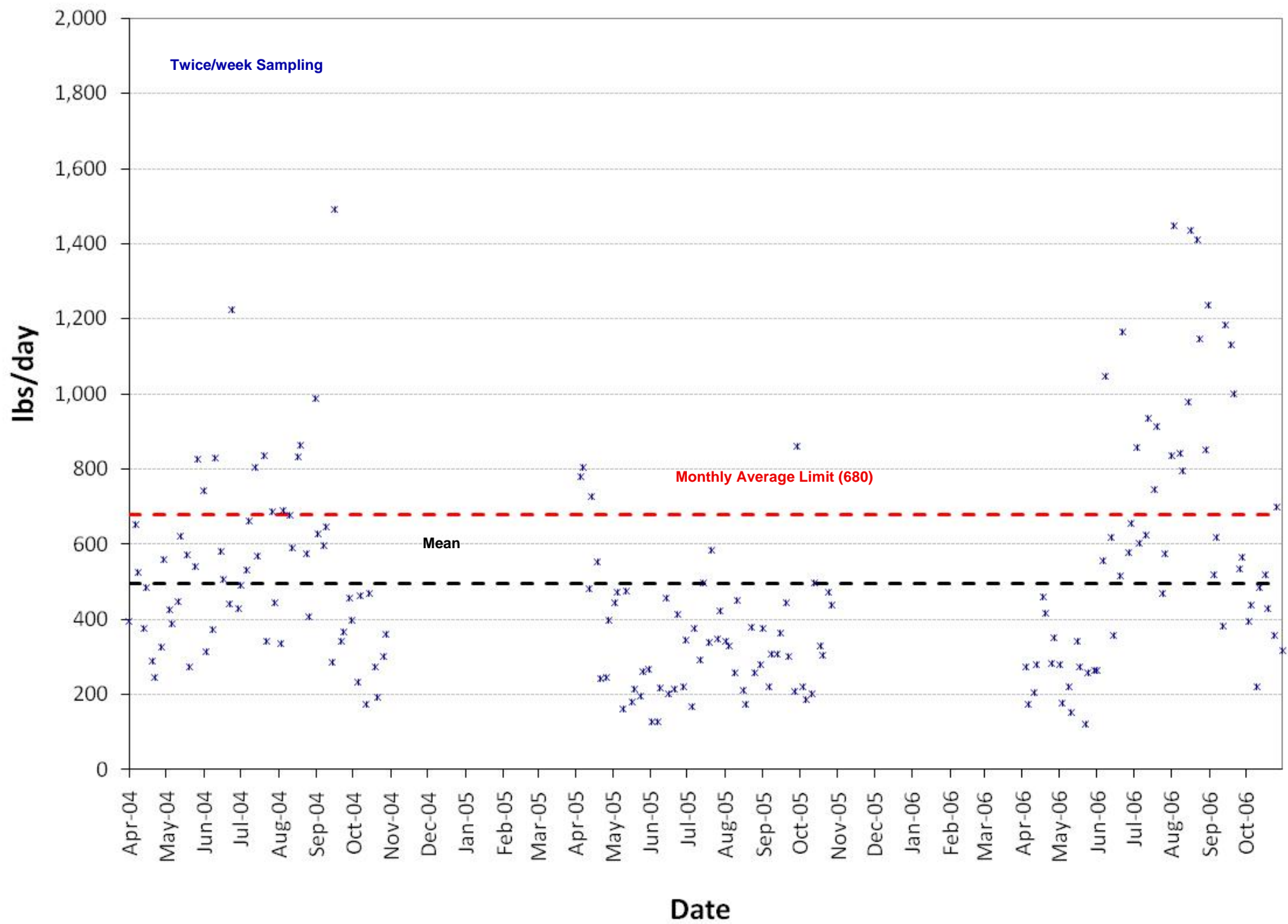
Compliance Schedule

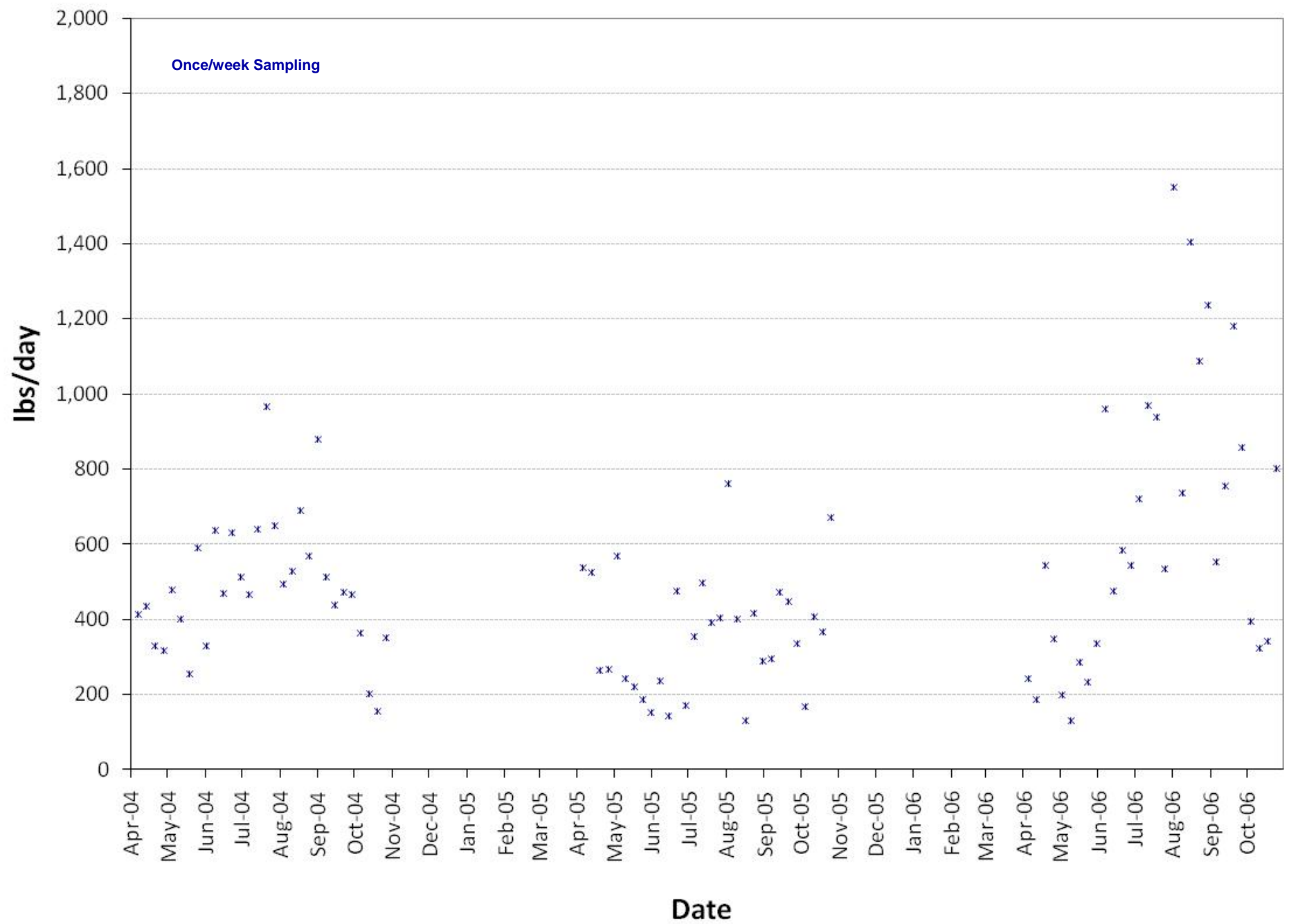


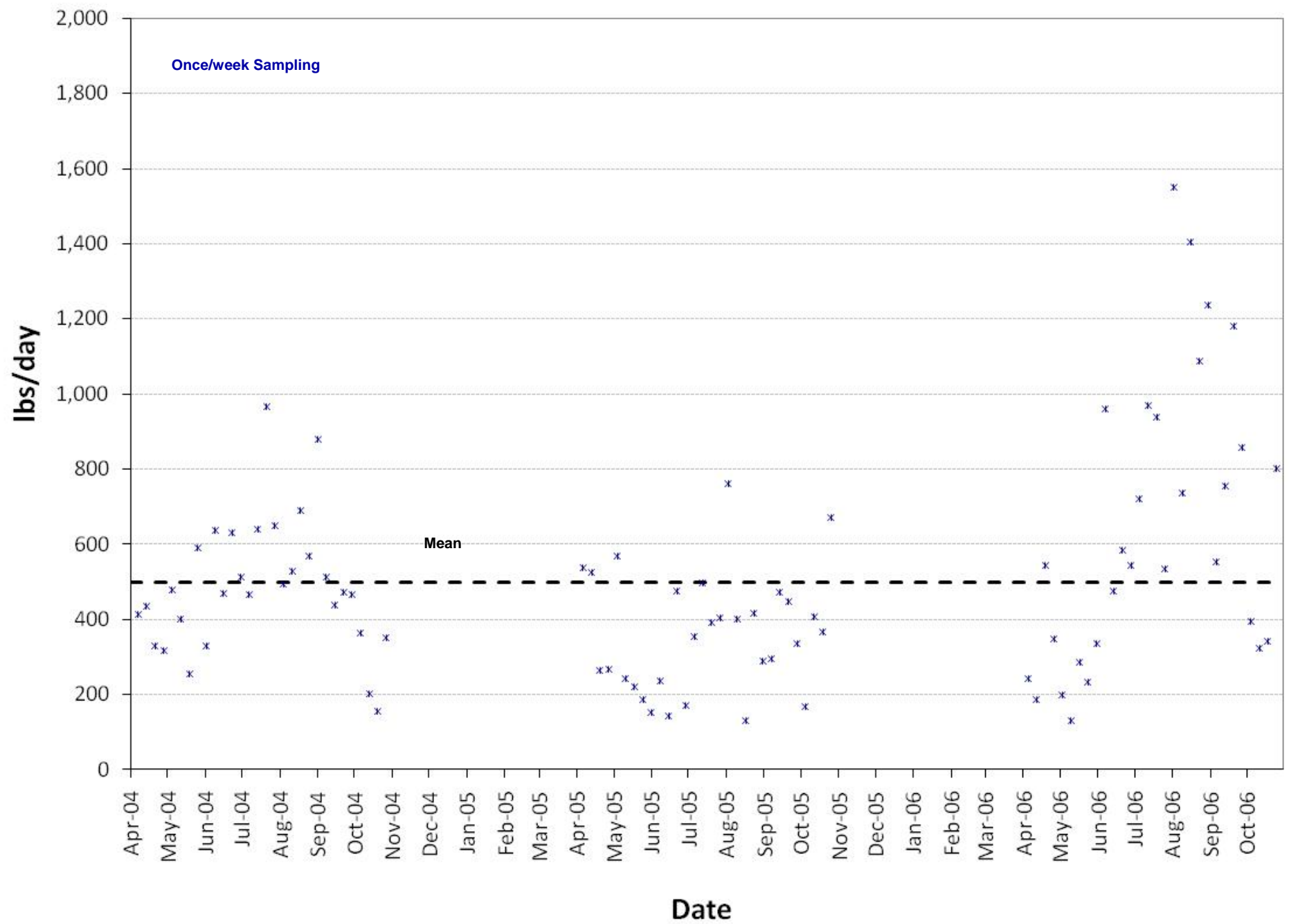


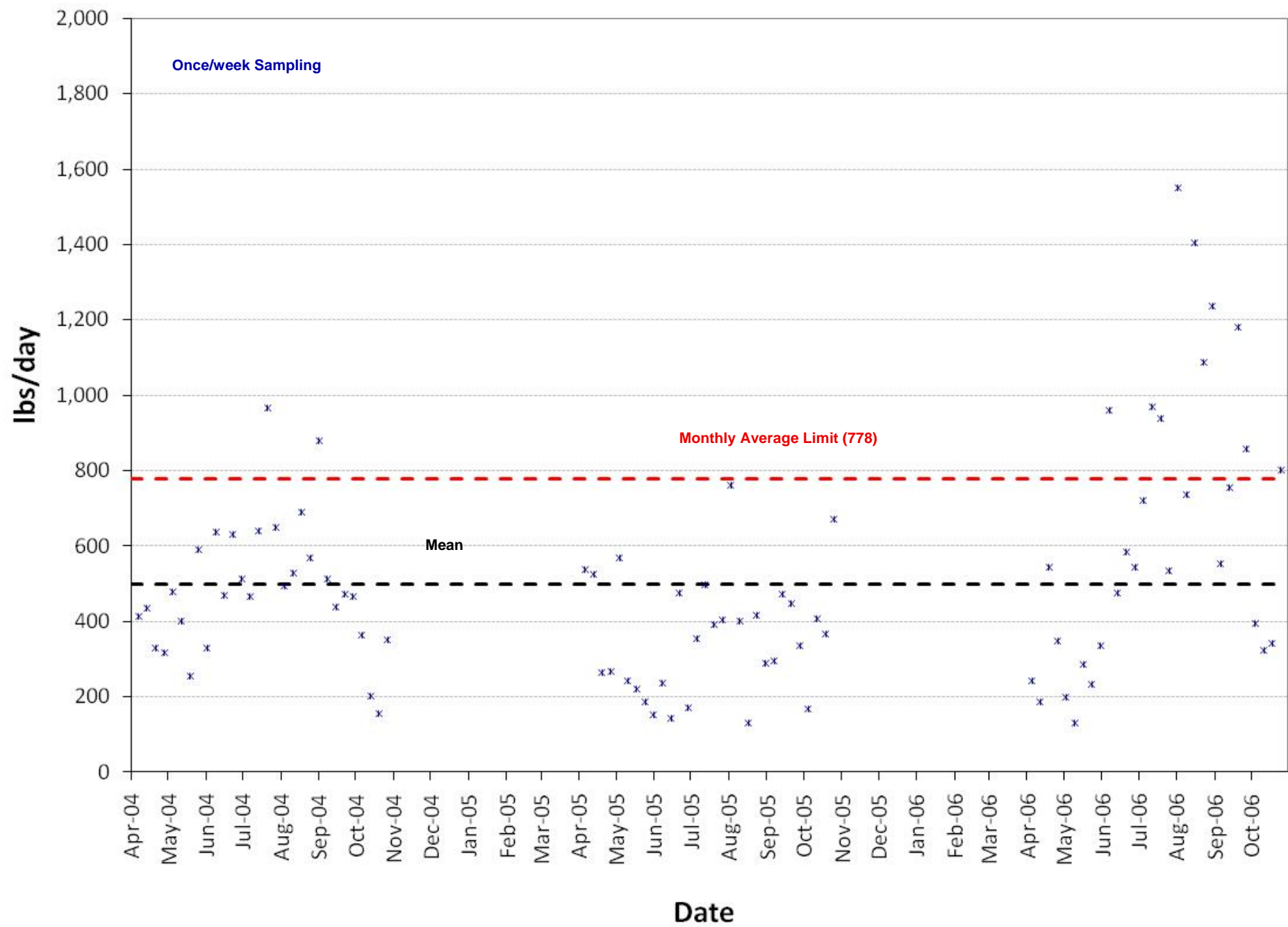
Maximum Monthly Average Limit

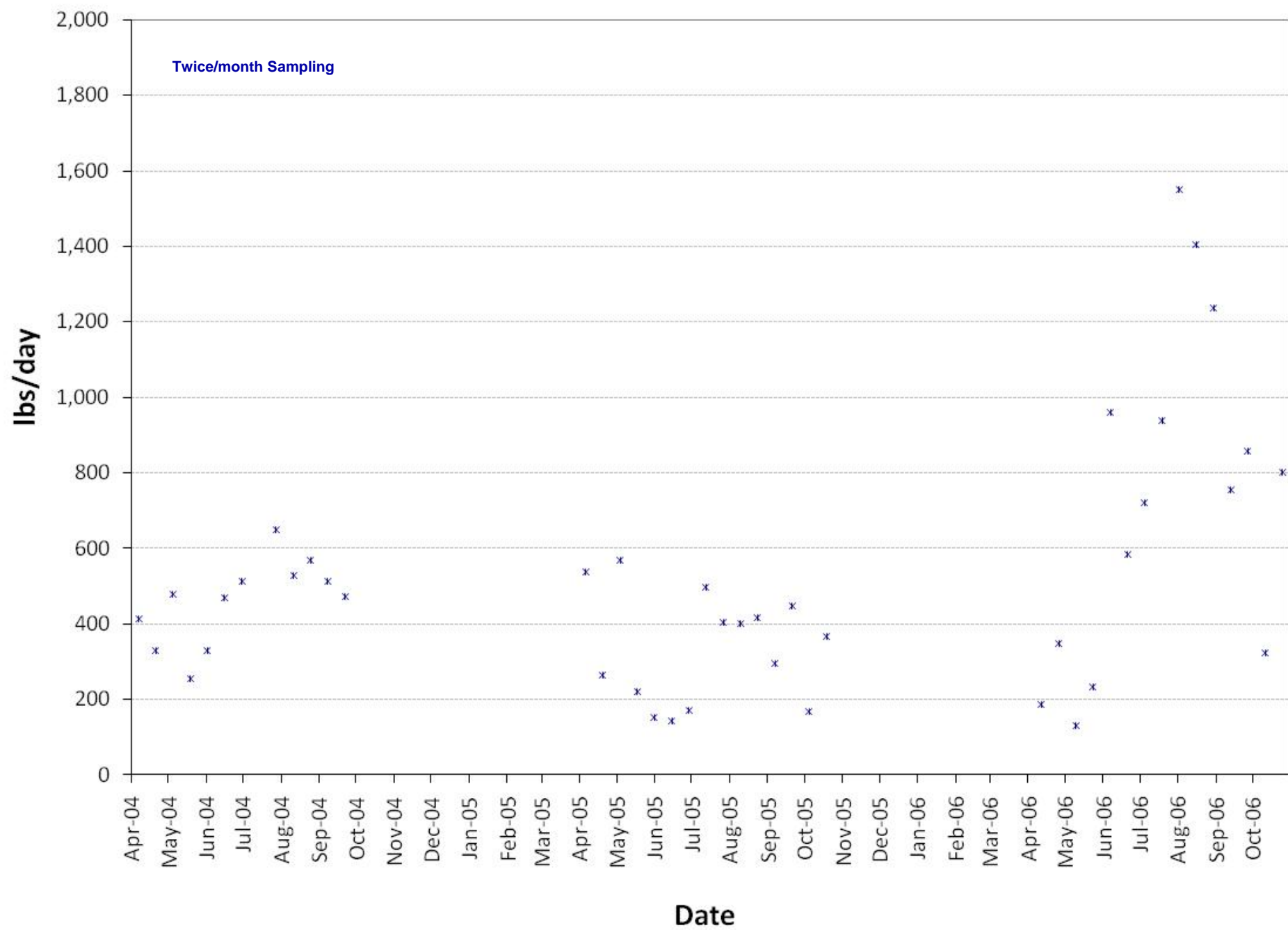
- Represents 95th percentile of data set
- Depends on:
 - Data distribution (assumed log-normal)
 - Data independence
 - Mean
 - Variance
 - Number of samples per month

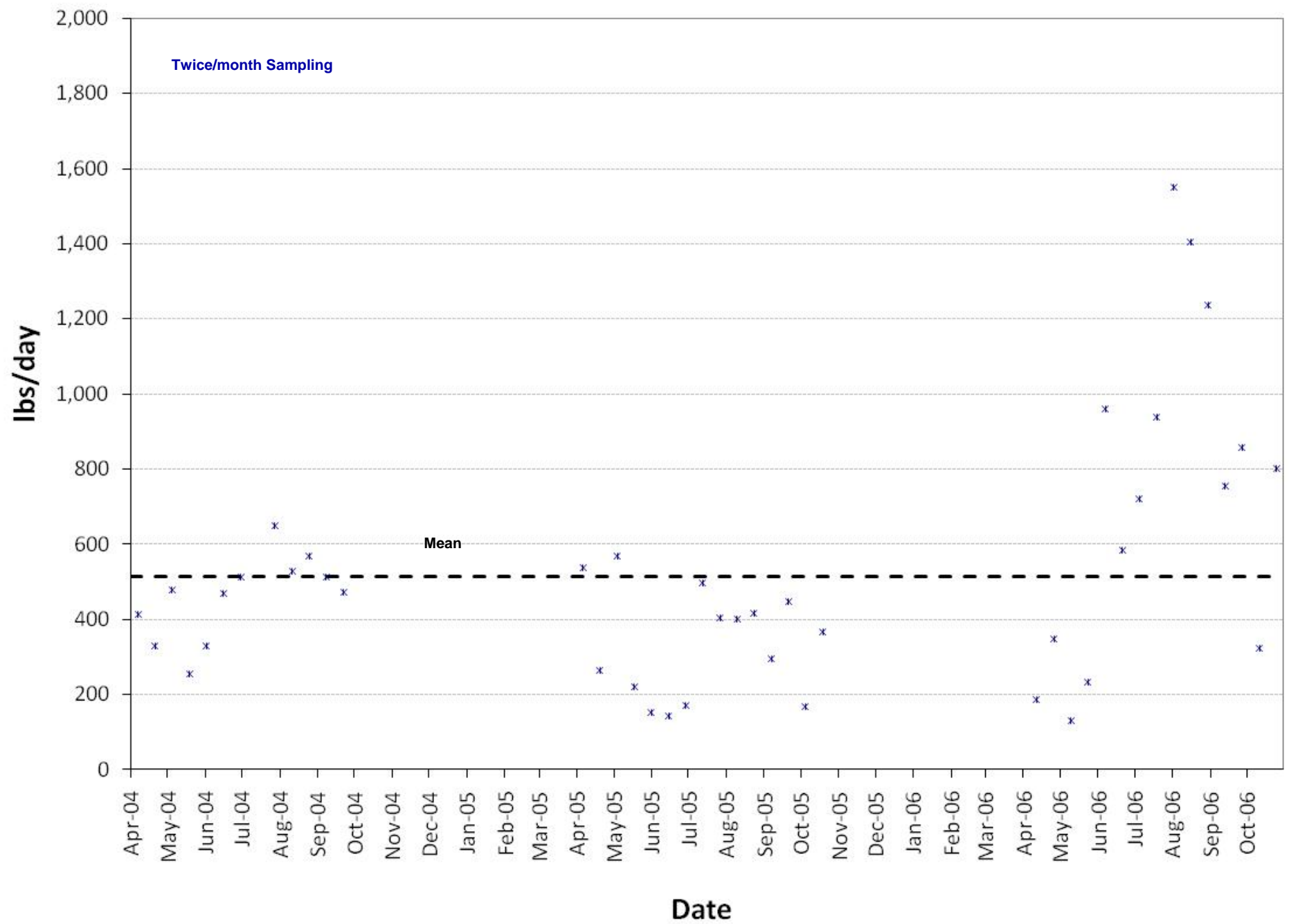


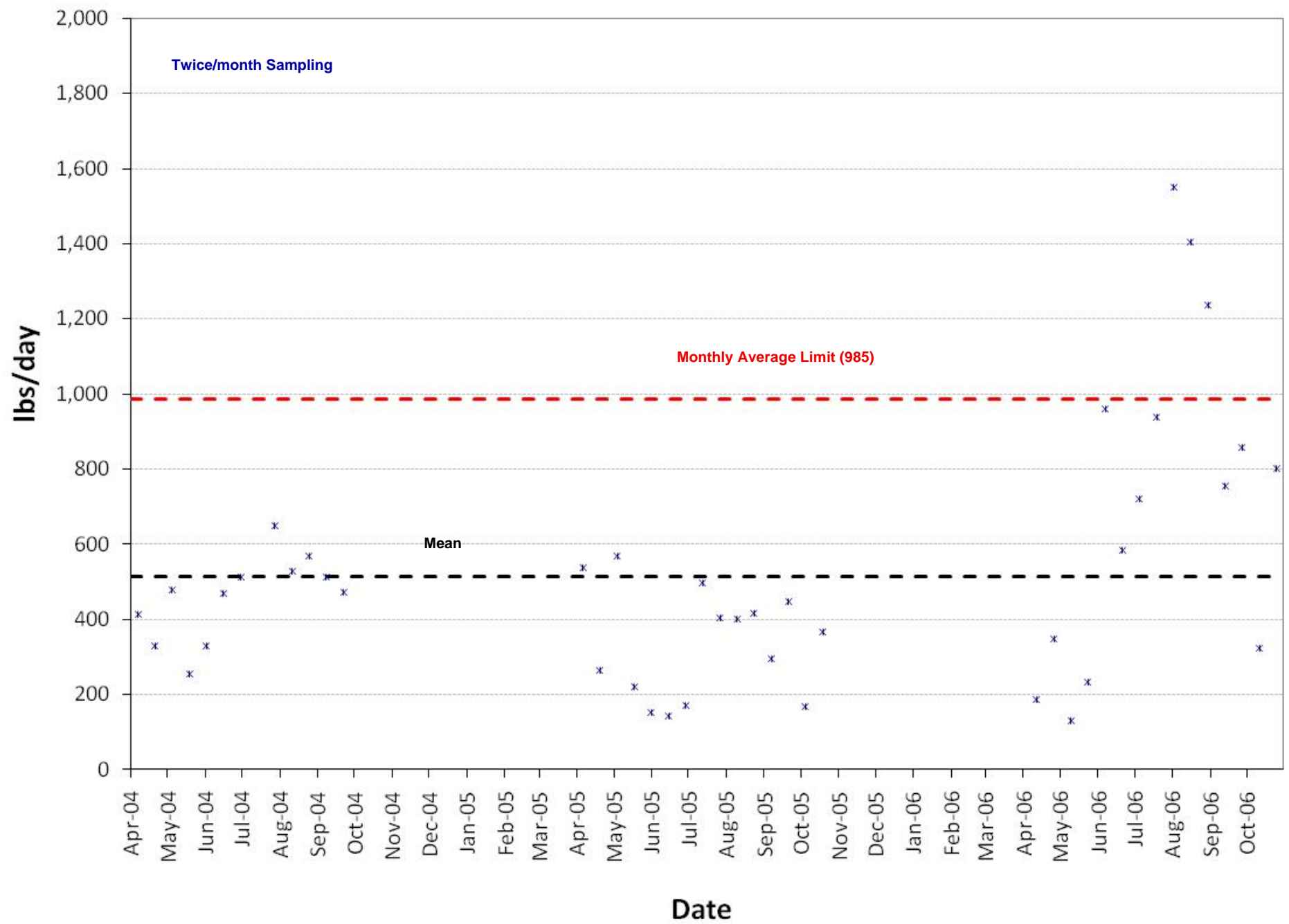


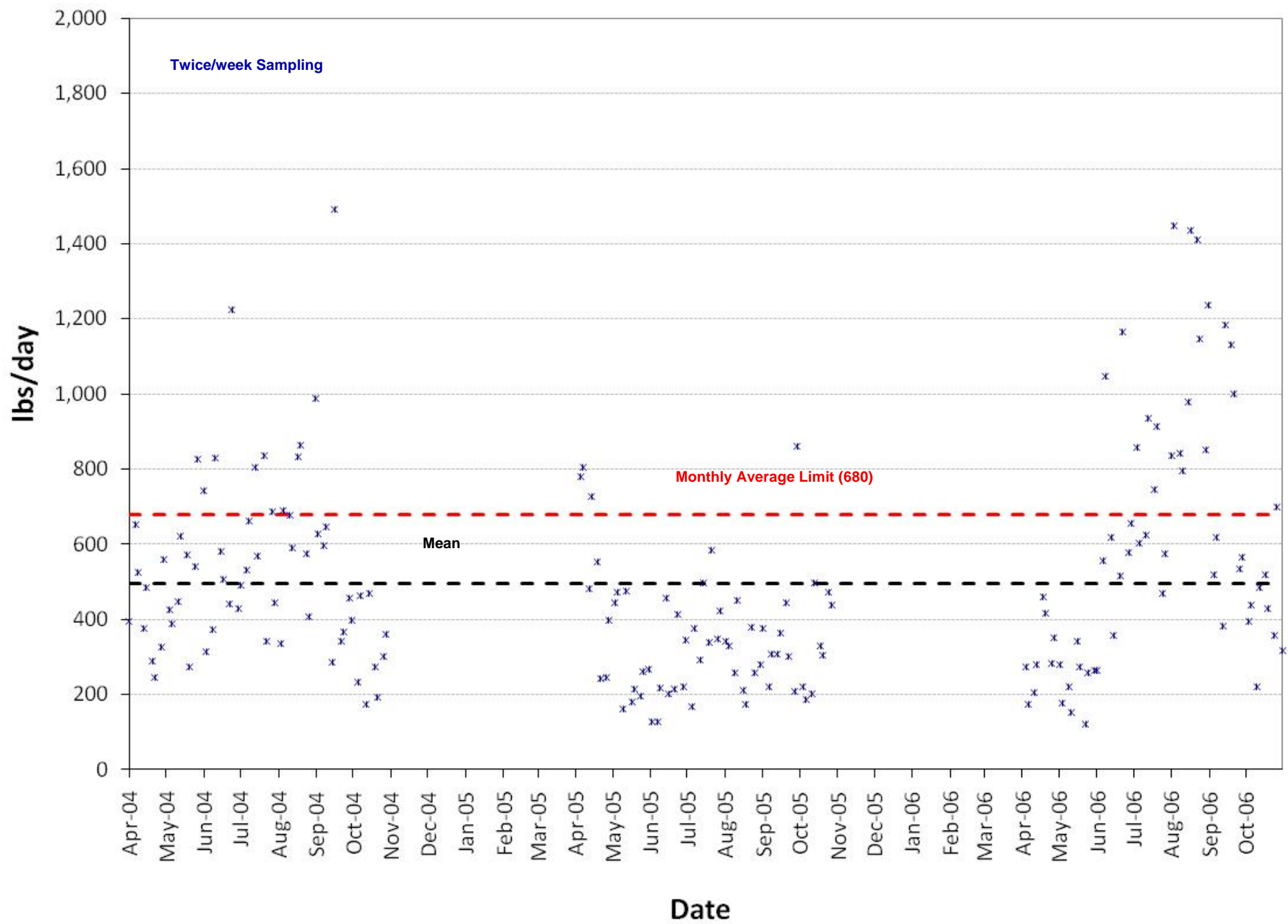


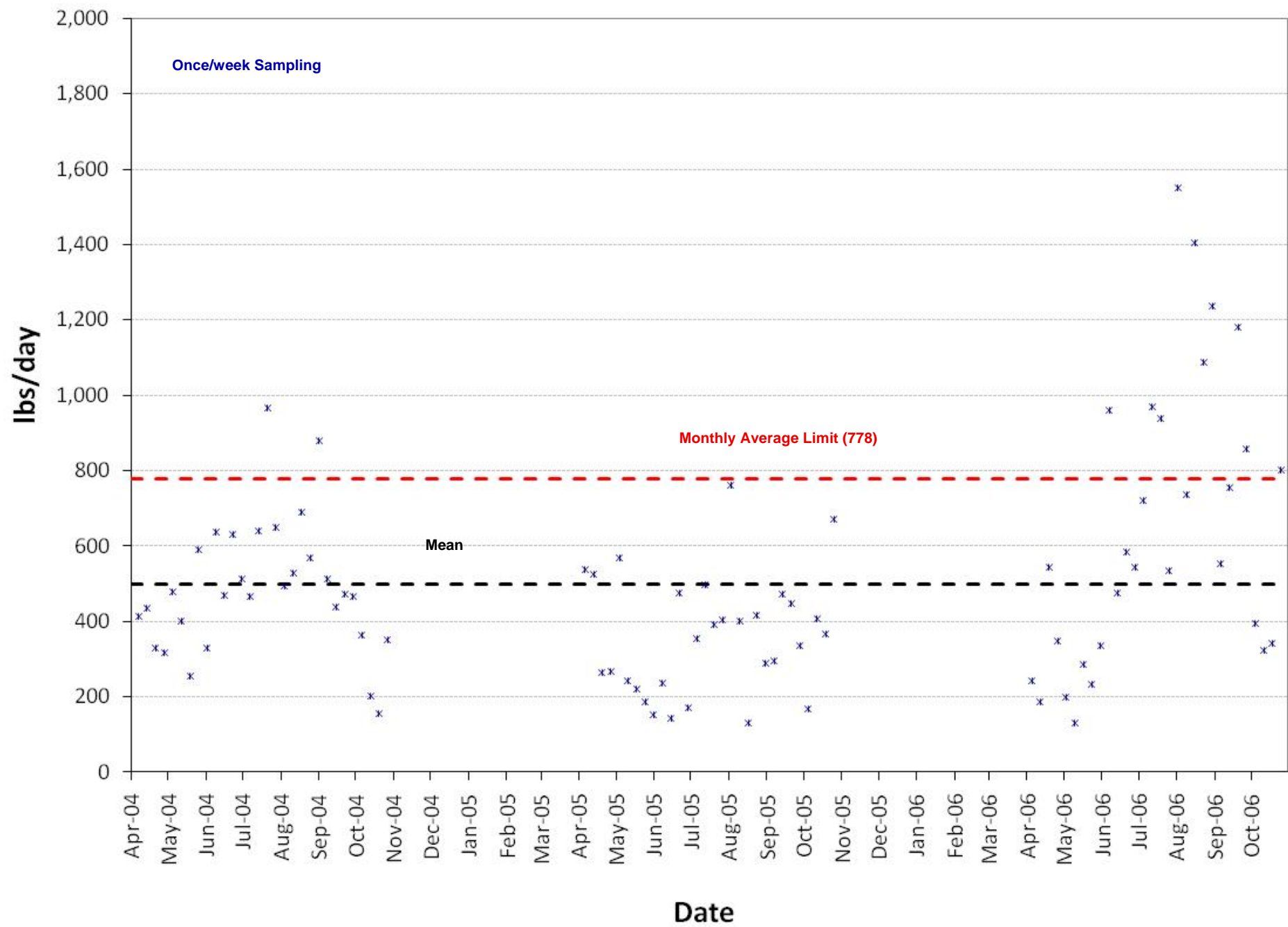


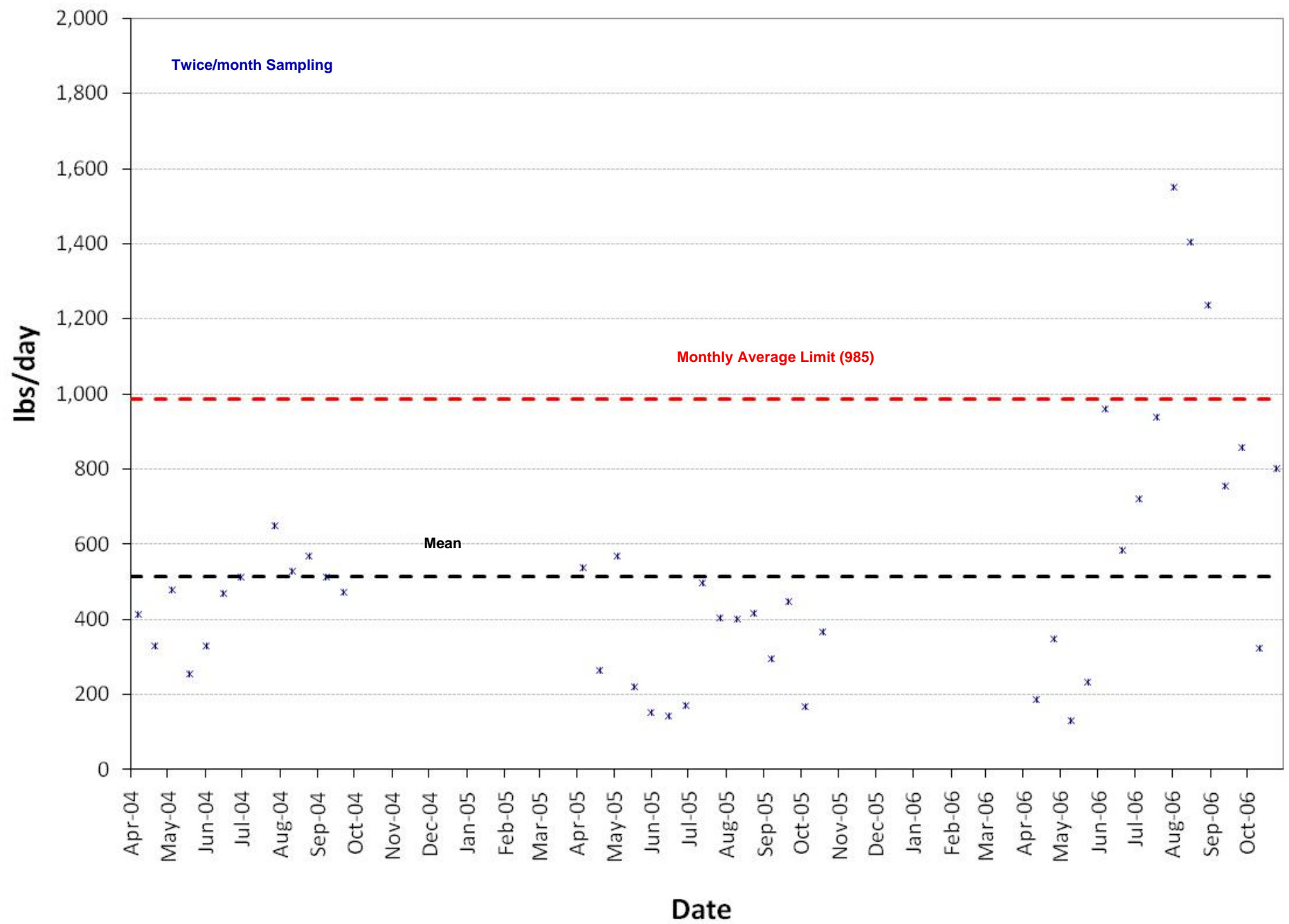


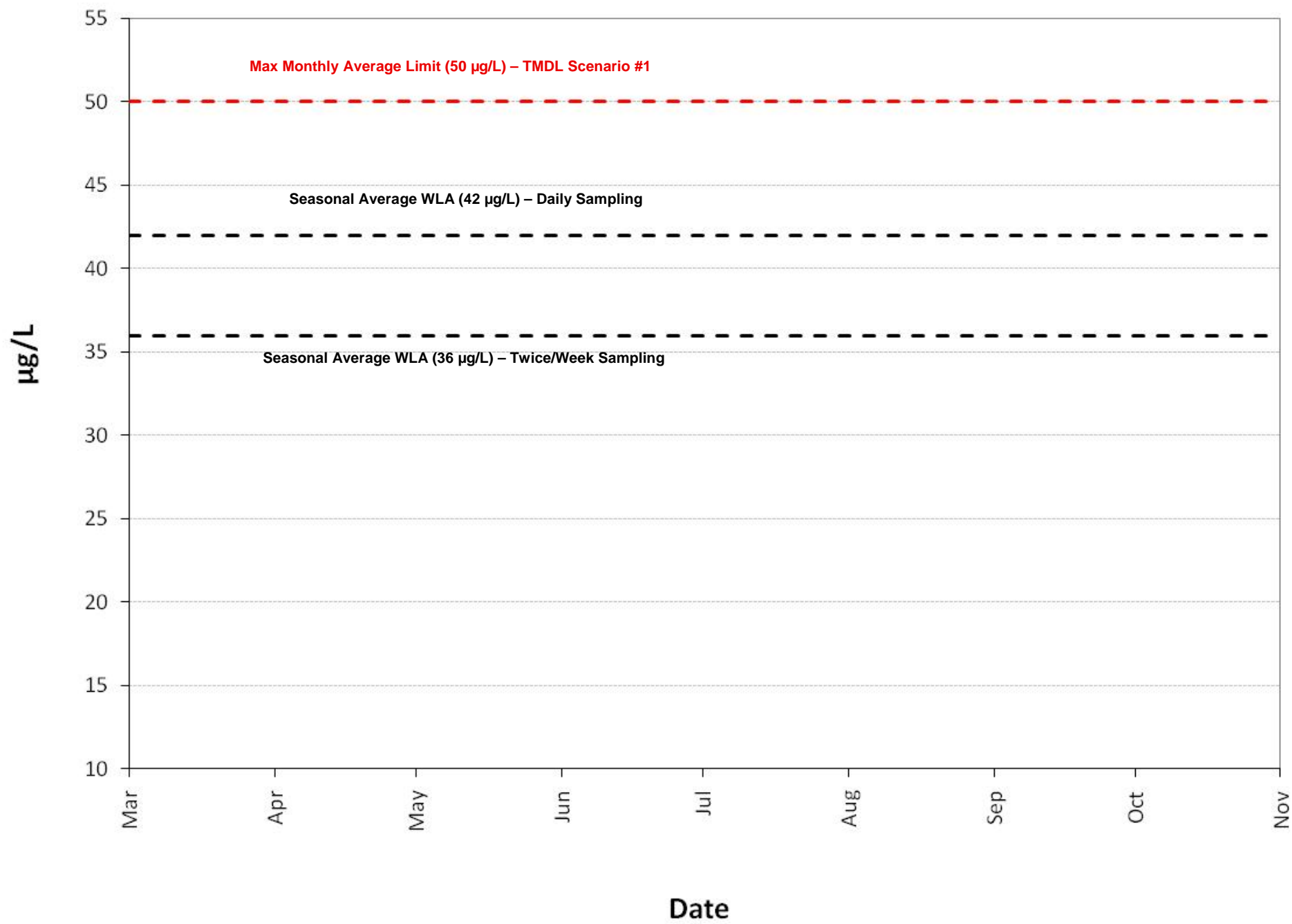












Permit Schedule

- Includes:
 - Annual Status Reports
 - Delta Management Plan
 - Technology Selection Protocol
 - Engineering Report on Selected Technology
 - Installation of Treatment Technology
 - Meet Final Water Quality Based Effluent Limits

Delta Management Plant

- Bridges the gap between what technology achieves and final water quality based permit limit
- Could include phosphorus bioavailability, reuse, pollutant equivalency, offsets, trading, etc.

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