Ventura Countywide Stormwater Quality Management Program

2013-2014 Permit Year

Ventura Countywide Stormwater Quality Management Program Annual Report

Attachment D: Water Quality Monitoring Appendices A and B

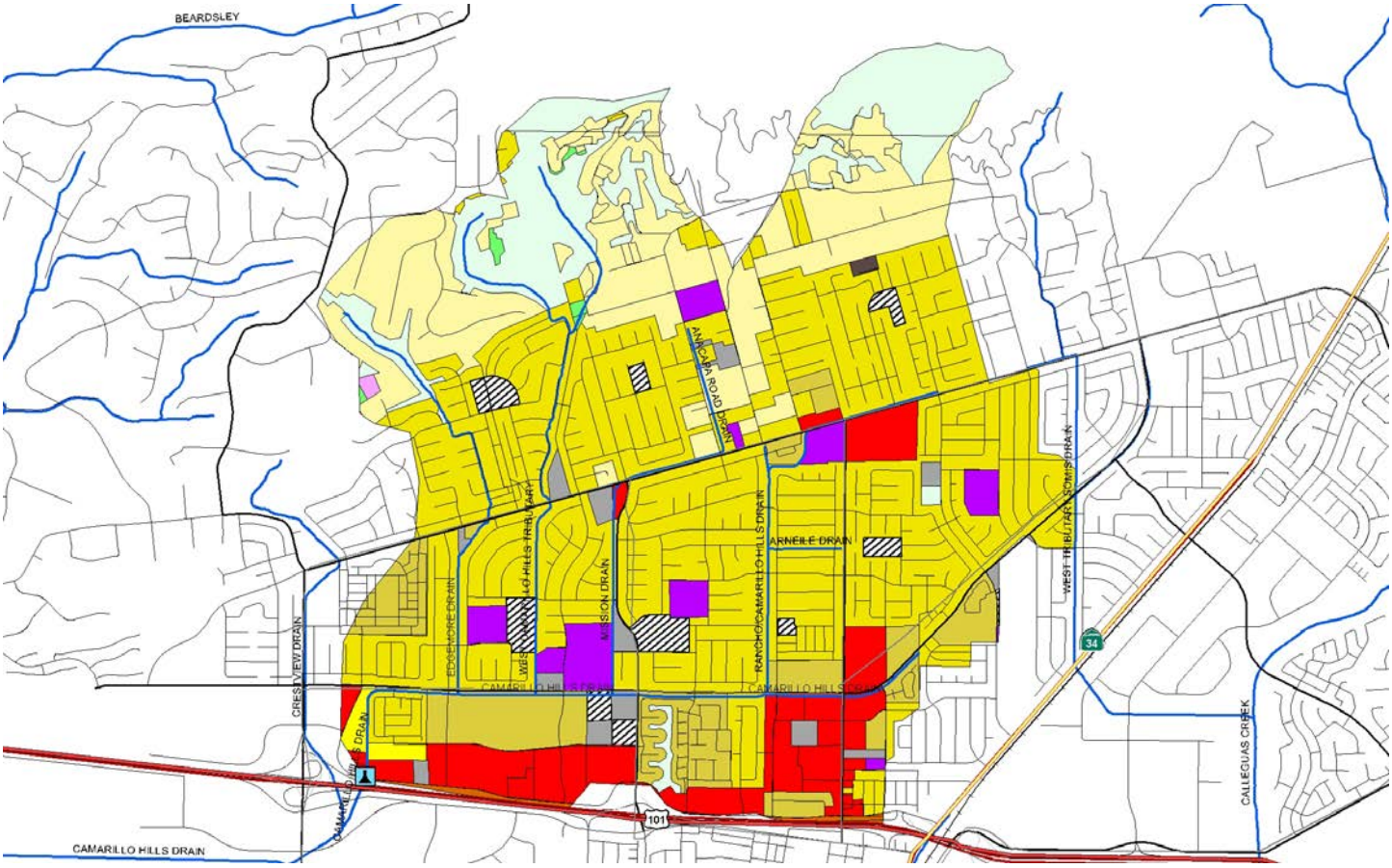
December 12, 2014

Camarillo
County of Ventura
Fillmore
Moorpark
Ojai
Oxnard
Port Hueneme
Santa Paula
Simi Valley
Thousand Oaks
Ventura
Ventura County Watershed Protection District

Appendix A: Major Outfall Station Fact Sheets

Camarillo

Waterbody: Camarillo Hills Drain (tributary to Revolon Slough)
Location: Daily Rd. overcrossing (34°13'10.00"N, 119° 3'58.06"W)
Pros: Likely well-defined rating table
Cons: Moderate potential for vandalism
Outstanding Site Selection Tasks: None
Other Potential Sites: None
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff



Entire City

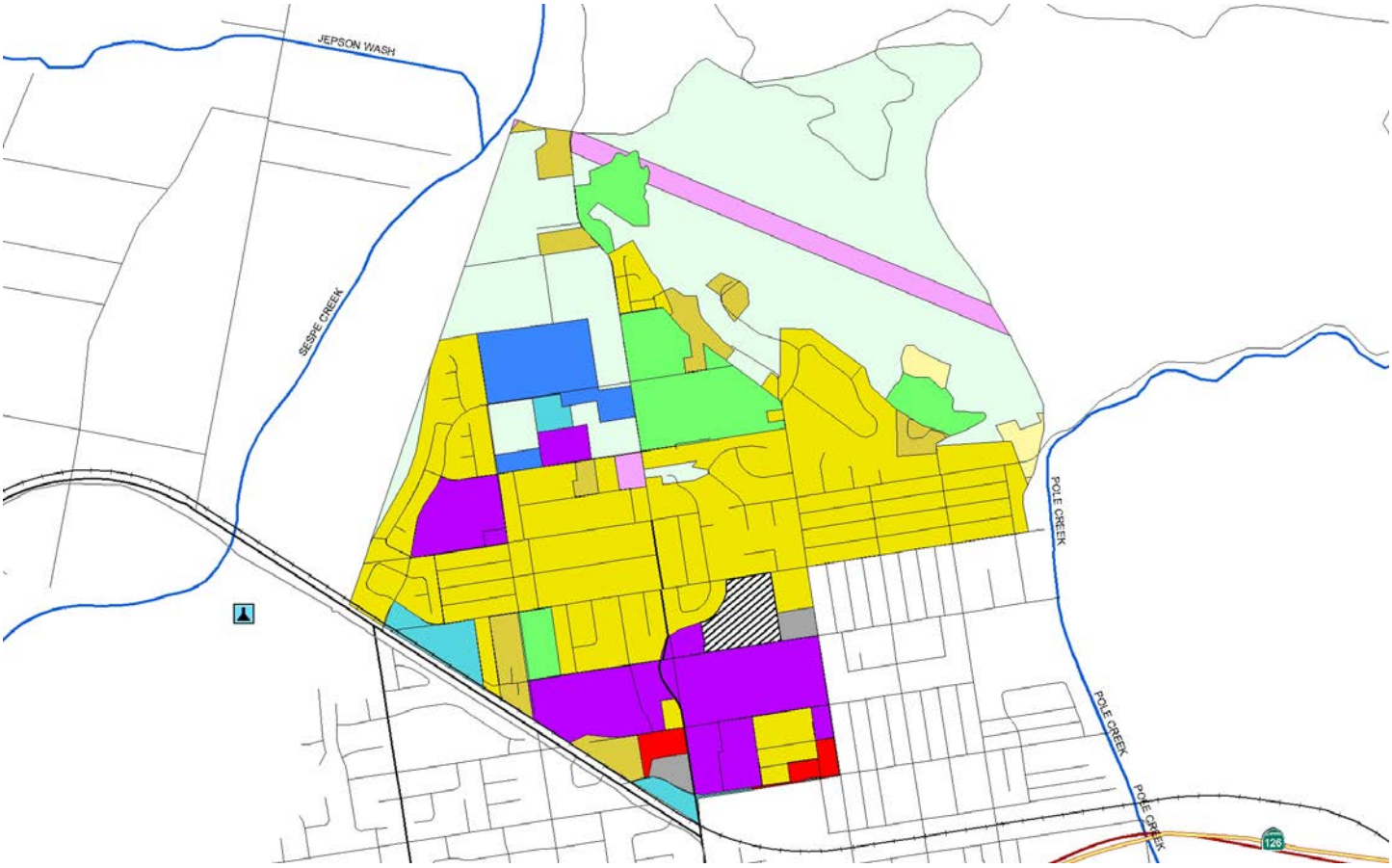
Land Use	Acres	% of Total Watershed
Agriculture	1585.8	12.6%
Com_Indus. Mix	12.5	0.1%
Commer.	657.2	5.2%
Extraction	58.4	0.5%
Facility	129.5	1.0%
Industrial_1	32.2	0.2%
Industrial_3	622.6	4.9%
Military_2	5.7	0.1%
No Info Given	202.2	1.6%
Recreation	489.4	3.9%
Res.1	1305.9	10.4%
Res.2	443.4	3.5%
Res.3	3253.5	25.9%
Res.4	525.0	4.2%
Schools	325.0	2.6%
Transportation	954.2	7.6%
Under Construction	294.8	2.3%
Utilities	255.8	2.0%
Vacant Undifferentiated	1423.4	11.4%
Totals	**12576.4**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	6.1	0.2%
Commercial	213.5	7.7%
Facility	48.5	1.7%
No Info Given	57.4	2.1%
Res.1	453.4	16.3%
Res.2	235.0	8.5%
Res.3	1365.5	49.1%
Res.4	15.2	0.5%
Schools	80.6	2.9%
Transportation	11.7	0.4%
Under Construction	2.6	0.1%
Utilities	2.3	0.1%
Vacant Undifferentiated	287.4	10.3%
Totals	**2779.1**	**100.0%**

Fillmore

Waterbody: North Fillmore Drain (tributary to Sespe Creek)
Location: 75 yds. southwest of Old Telegraph Rd. (34°24'16.51"N, 118°55'50.47"W)
Pros: Some portion of vegetation could be cleared by City of Fillmore
Cons: Potential for vandalism
Outstanding Site Selection Tasks: None
Other Potential Sites: C Street Drain and Central Ave. Drain
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff



Entire City

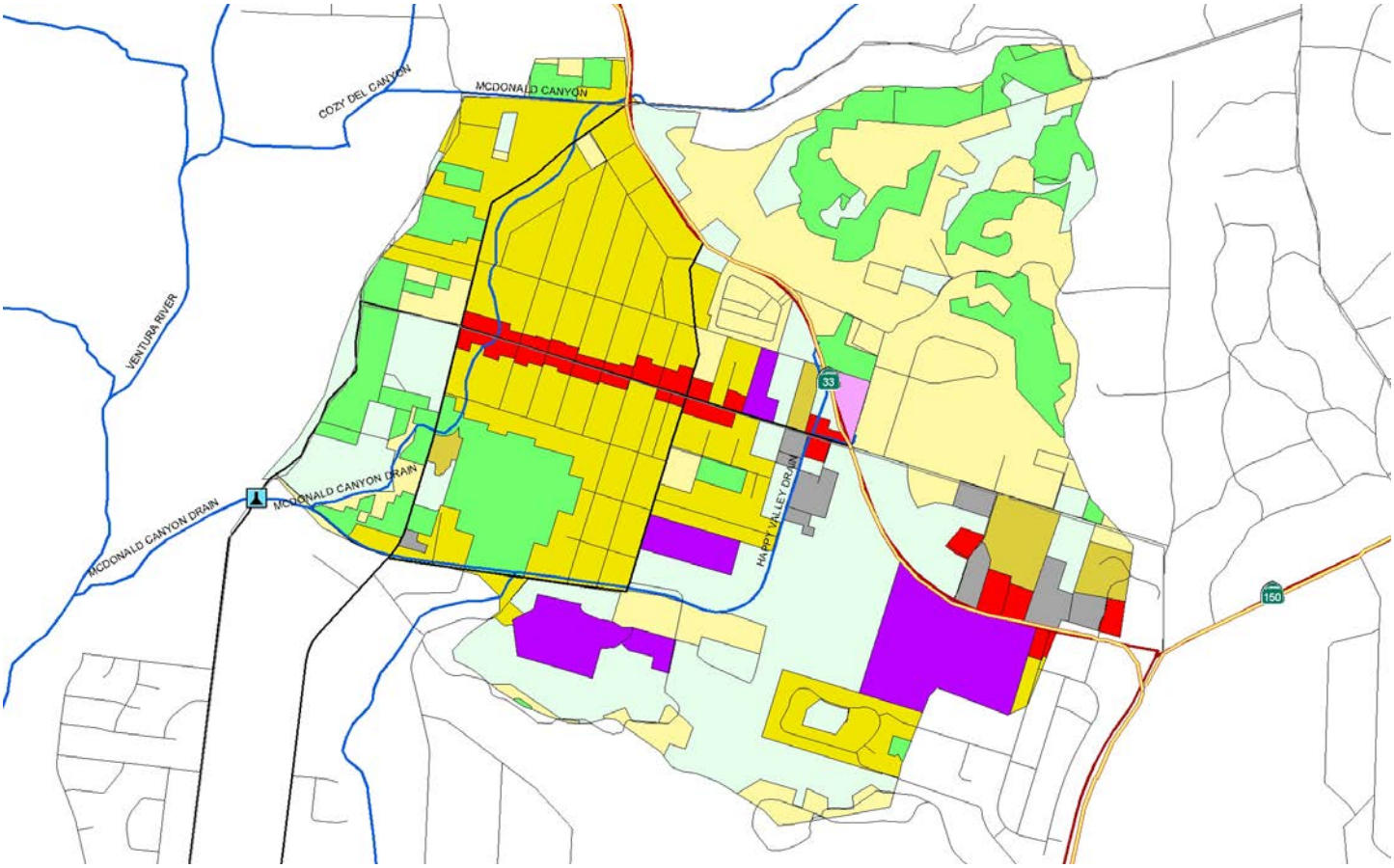
Land Use	Acres	% of Total Watershed
Agriculture	274.8	13.0%
Com_Indus. Mix	10.4	1.0%
Commercial	103.2	5.0%
Facility	27.3	1.0%
Industrial_1	31.3	2.0%
Industrial_3	28.7	1.0%
No Info Given	21.9	1.0%
Res.1	52.8	3.0%
Res.2	44.6	2.0%
Res.3	693.1	34.0%
Schools	87.6	4.0%
Transportation	6.4	0.0%
Under Constructoni	58.4	3.0%
Utilities	45.8	2.0%
Vacant Undifferentiated	582.5	28.0%
Totals	**2068.7**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	52.5	6.9%
Commercial	6.3	0.8%
Facility	5.1	0.7%
Industrial_1	14.1	1.9%
Industrial_3	23.4	3.1%
No Info Given	9.9	1.3%
Res.1	6.1	0.8%
Res.2	29.7	3.9%
Res.3	255.7	33.6%
Schools	75.3	9.9%
Utilities	23.1	3.0%
Vacant Undifferentiated	260.6	34.2%
Totals	**761.7**	**100.0%**

Meiners Oaks (Unincorporated)

Waterbody: Happy Valley Drain (tributary to Ventura River)
Location: Southwest of Lomita Rd. and Rice Rd. intersection (34°26'43.98"N, 119°17'25.18"W)
Pros: Good control, good access, existing stream flow gauge
Dry Season Flow Potential: Unknown at end of rainy season; unlikely later in summer



Entire City

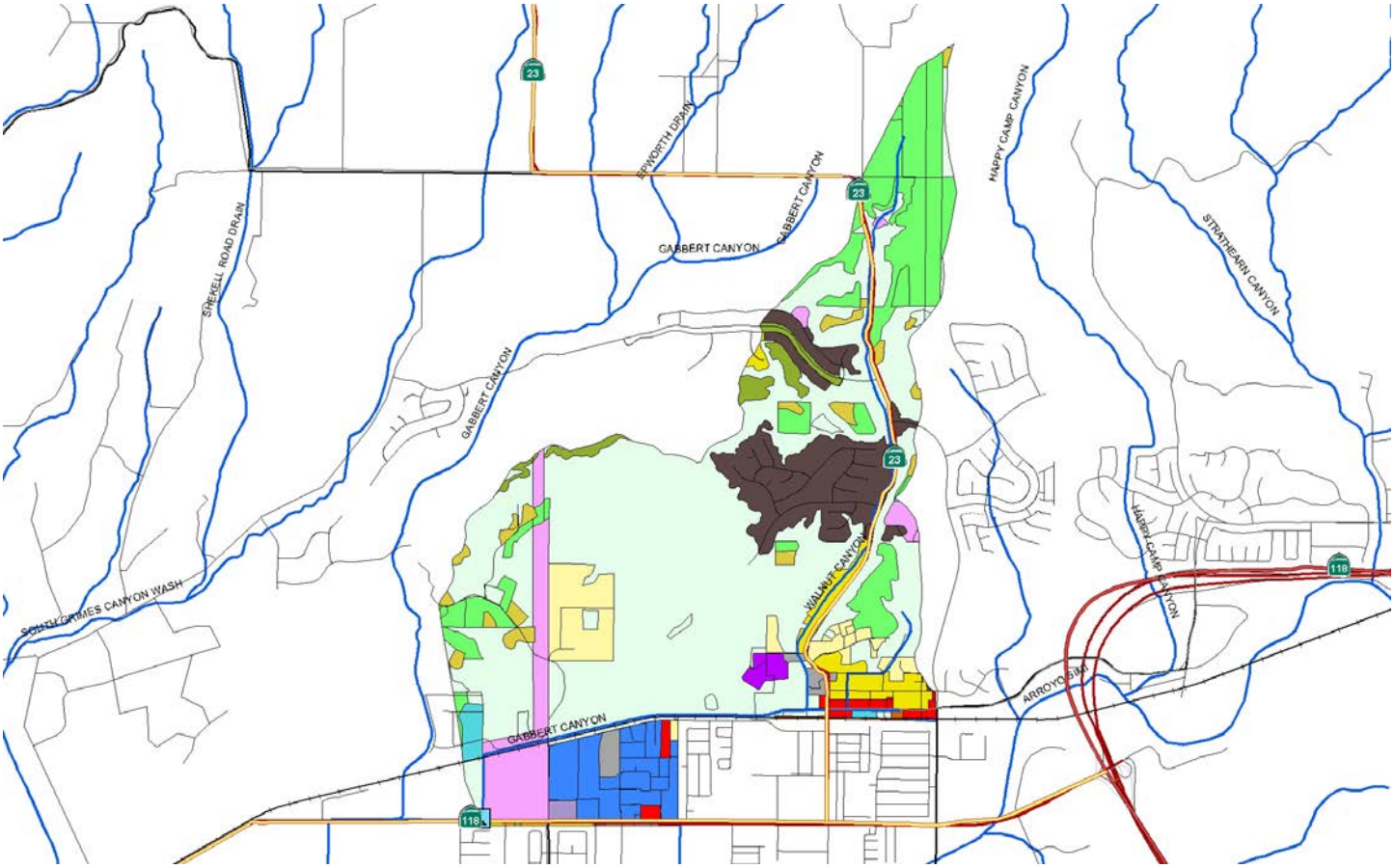
Land Use	Acres	% of Total Watershed
Agriculture	658.0	21.5%
Cemeteries	0.0	0.0%
Commercial	33.0	1.1%
Facility	15.5	0.5%
Recreation	29.9	1.0%
Res.1	812.3	26.5%
Res.2	43.9	1.4%
Res.3	463.4	15.1%
Schools	46.5	1.5%
Utilities	19.3	0.6%
Vacant Undifferentiated	945.0	30.8%
Totals	**3066.8**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	152.1	14.8%
Commercial	30.8	3.0%
Facility	20.8	2.0%
Res.1	234.0	22.8%
Res.2	22.0	2.1%
Res.3	249.9	24.4%
Schools	63.6	6.2%
Utilities	3.8	0.4%
Vacant Undifferentiated	248.8	24.3%
Totals	**1025.9**	**100.0%**

Moorpark

Waterbody: Gabbert Canyon Drain (tributary to Arroyo Las Posas)
Location: North side of SR 118 near southwest corner of So. Cal. Edison property (34°16'44.29"N, 118°54'19.40"W)
Pros: Likely well-defined rating table
Cons: Aerial deposition from vehicular traffic on 118, potential for vandalism
Outstanding Site Selection Tasks: Move sampling location shown on watershed map
Other Potential Sites: Upstream current location, although site would interfere with access road
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff



Entire City

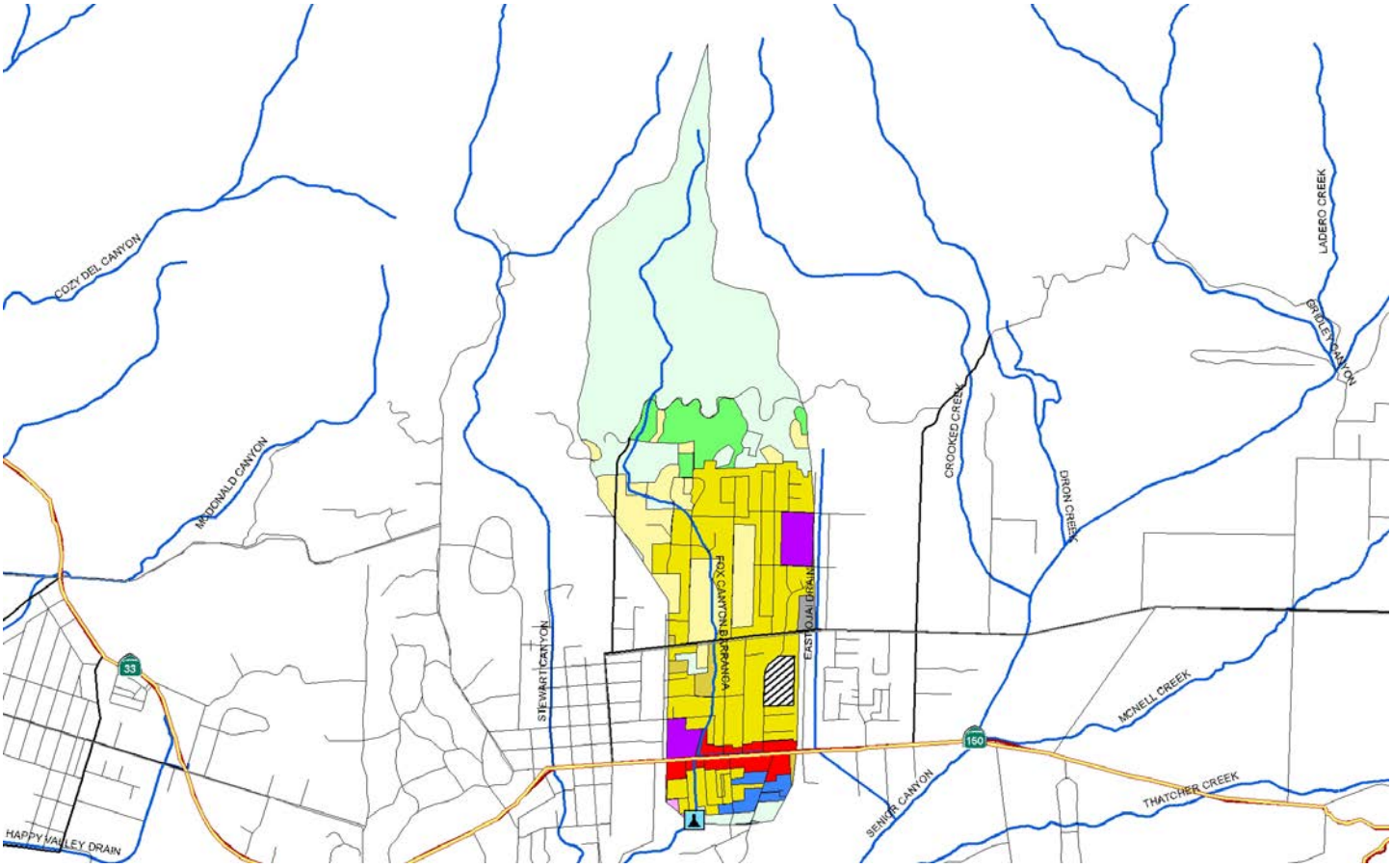
Land Use	Acres	% of Total Watershed
Land Use	**Acres**	**% of Total Watershed**
Agriculture	351.7	4.0%
Com_Indus. Mix	9.1	0.0%
Commercial	196.3	2.0%
Extraction	39.2	0.0%
Facility	40.9	1.0%
Industrial_1	21.3	0.0%
Industrial_3	225.2	3.0%
No Info Given	148.3	2.0%
Recreation	186.1	2.0%
Res.1	213.5	3.0%
Res.2	190.4	2.0%
Res.3	1854.6	23.0%
Res.4	106.8	1.0%
Schools	302.1	4.0%
Transportation	198.0	2.0%
Under Construction	472.9	6.0%
Utilities	211.9	3.0%
Vacant Undifferentiated	3213.1	40.0%
Totals	**7981.5**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	230.0	12.7%
Commercial	19.9	1.1%
Extraction	5.8	0.3%
Facility	16.8	0.9%
Industrial_1	13.3	0.7%
Industrial_3	90.4	5.0%
Recreation	31.0	1.7%
Res.1	82.3	4.5%
Res.2	37.4	2.1%
Res.3	56.3	3.1%
Res.4	1.5	0.1%
Schools	10.5	0.6%
Transportation	3.1	0.2%
Under Construction	166.2	9.2%
Utilities	100.7	5.5%
Vacant Undifferentiated	950.8	52.4%
Totals	**1816.2**	**100.0%**

Ojai

Waterbody: Fox Canyon Barranca (tributary to San Antonio Creek)
Location: Concrete box channel upstream Ojai Valley Athletic Club and downstream pedestrian walkway (34°26'41.25"N, 119°14'28.43"W)
Pros: Numerous bridges to sample from, located behind VCWPD gate, likely well-defined rating table
Cons: Some potential for vandalism
Outstanding Site Selection Tasks: Work with VCWPD O&M to ensure enclosure doesn't interfere with maintenance activities
Other Potential Sites: Downstream where Stewart Canyon crosses beneath Ventura St. (bioassessment #8)
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff



Entire Watershed

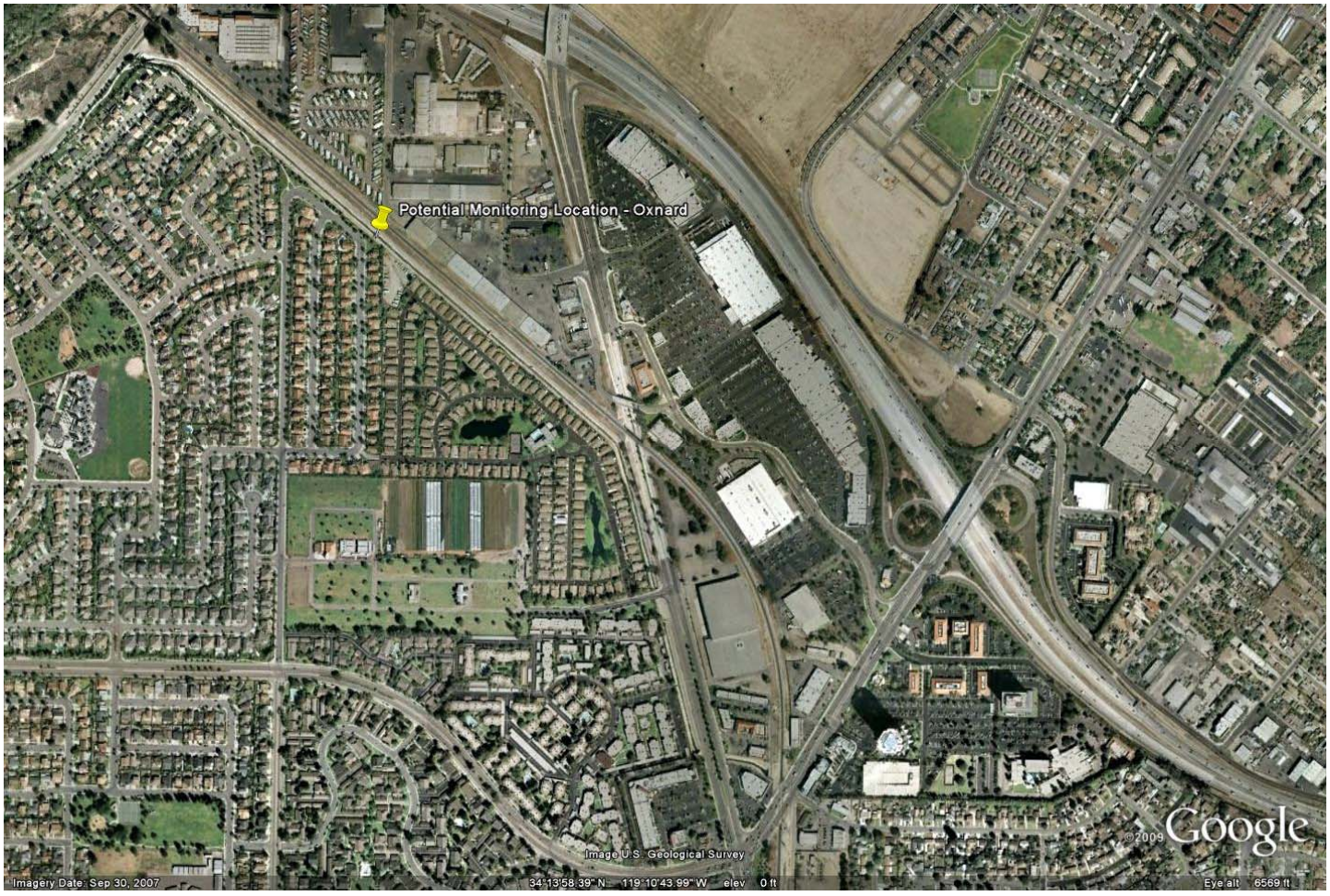
Land Use	Acres	% of Total Watershed
Agriculture	83.1	3.0%
Cemeteries	3.8	0.1%
Com_Indus. Mix	7.6	0.3%
Commercial	155.1	5.6%
Facility	43.2	1.5%
Industrial_3	13.2	0.5%
No Info Given	55.6	2.0%
Recreation	312.1	11.2%
Res.1	620.7	22.2%
Res.2	61.3	2.2%
Res.3	534.8	19.1%
Res.4	3.3	0.1%
Schools	100.6	3.6%
Utilities	32.9	1.2%
Vacant Undifferentiated	767.1	27.5%
Totals	**2794.7**	**100.0%**

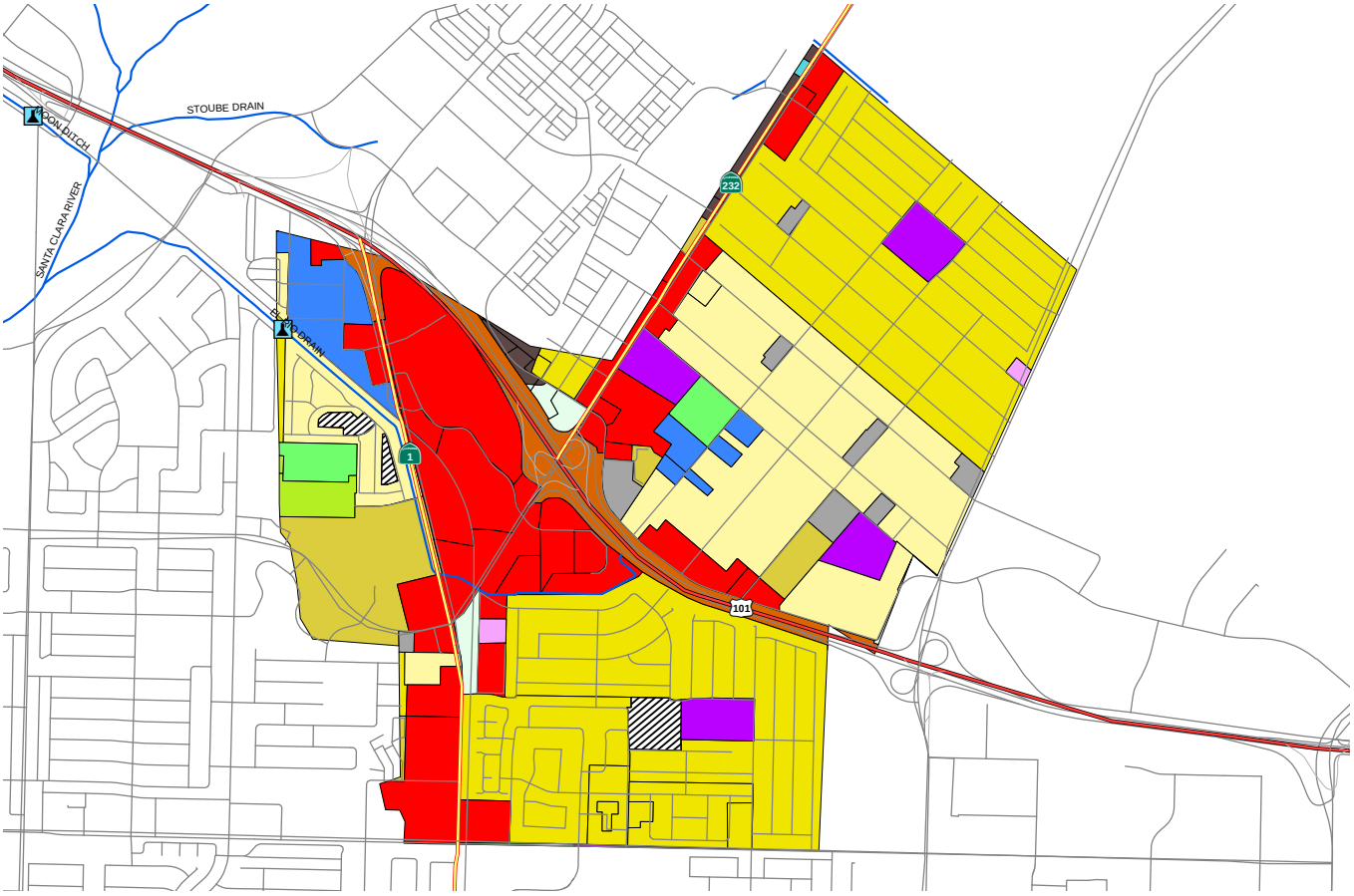
Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	37.3	5.0%
Commercial	23.8	3.2%
Facility	4.1	0.6%
Industrial_3	11.4	1.5%
No Info Given	10.0	1.3%
Recreation	0.1	0.0%
Res.1	84.3	11.3%
Res.2	8.0	1.1%
Res.3	210.9	28.2%
Res.4	0.1	0.0%
Schools	20.2	2.7%
Utilities	1.0	0.1%
Vacant Undifferentiated	337.5	45.1%
Totals	**748.6**	**100.0%**

Oxnard

Waterbody: El Rio Drain (tributary to Santa Clara River)
Location: Pedestrian bridge 50 yds. southwest bend of Winchester Dr. (34°14'10.10"N, 119°11'3.93"W)
Pros: Likely well-defined rating table
Cons: High potential for vandalism
Outstanding Site Selection Tasks: None
Other Potential Sites: None
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff





Entire City

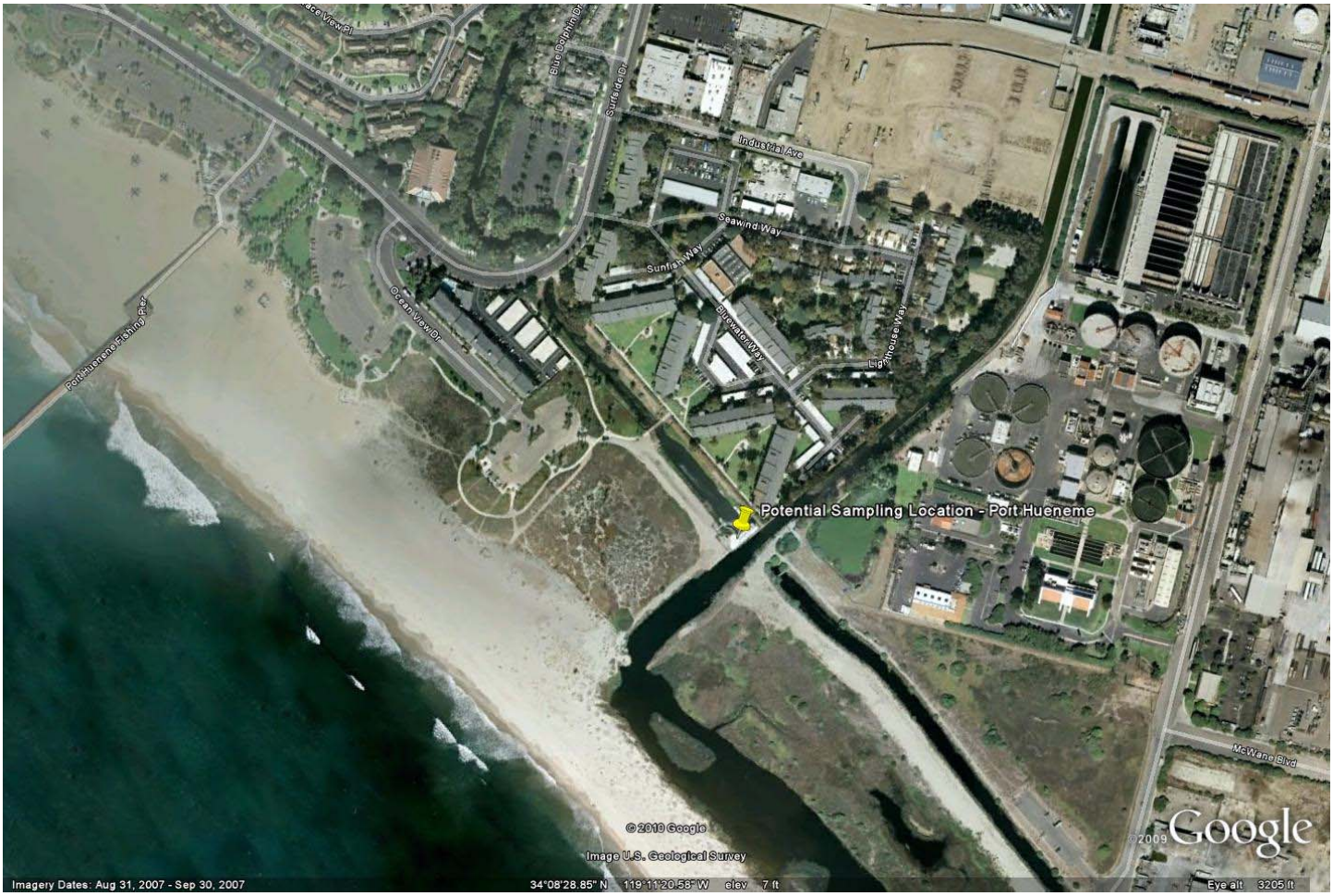
Land Use	Acres	% of Total Watershed
Agriculture	969.4	5.6%
Cemeteries	22.4	0.1%
Com_Indus. Mix	165.1	0.9%
Commercial	1385.9	8.0%
Extraction	227.3	1.3%
Facility	244.8	1.4%
Industrial_1	163.7	1.0%
Industrial_3	1104.0	6.5%
Industrial_4	62.3	0.4%
Military_1	1.7	0.0%
Military_2	4.0	0.0%
No Info Given	371.6	2.2%
Recreation	679.4	3.9%
Res.1	369.1	2.2%
Res.2	1149.3	6.7%
Res.3	5892.4	34.3%
Res.4	163.0	1.0%
Schools	703.5	4.1%
Transportation	560.5	3.3%
Under Construction	802.6	4.7%
Utilities	298.0	1.8%
Vacant Undifferentiated	1740.2	10.1%
Water	82.0	0.5%
Totals	**17162.2**	**100.0%**

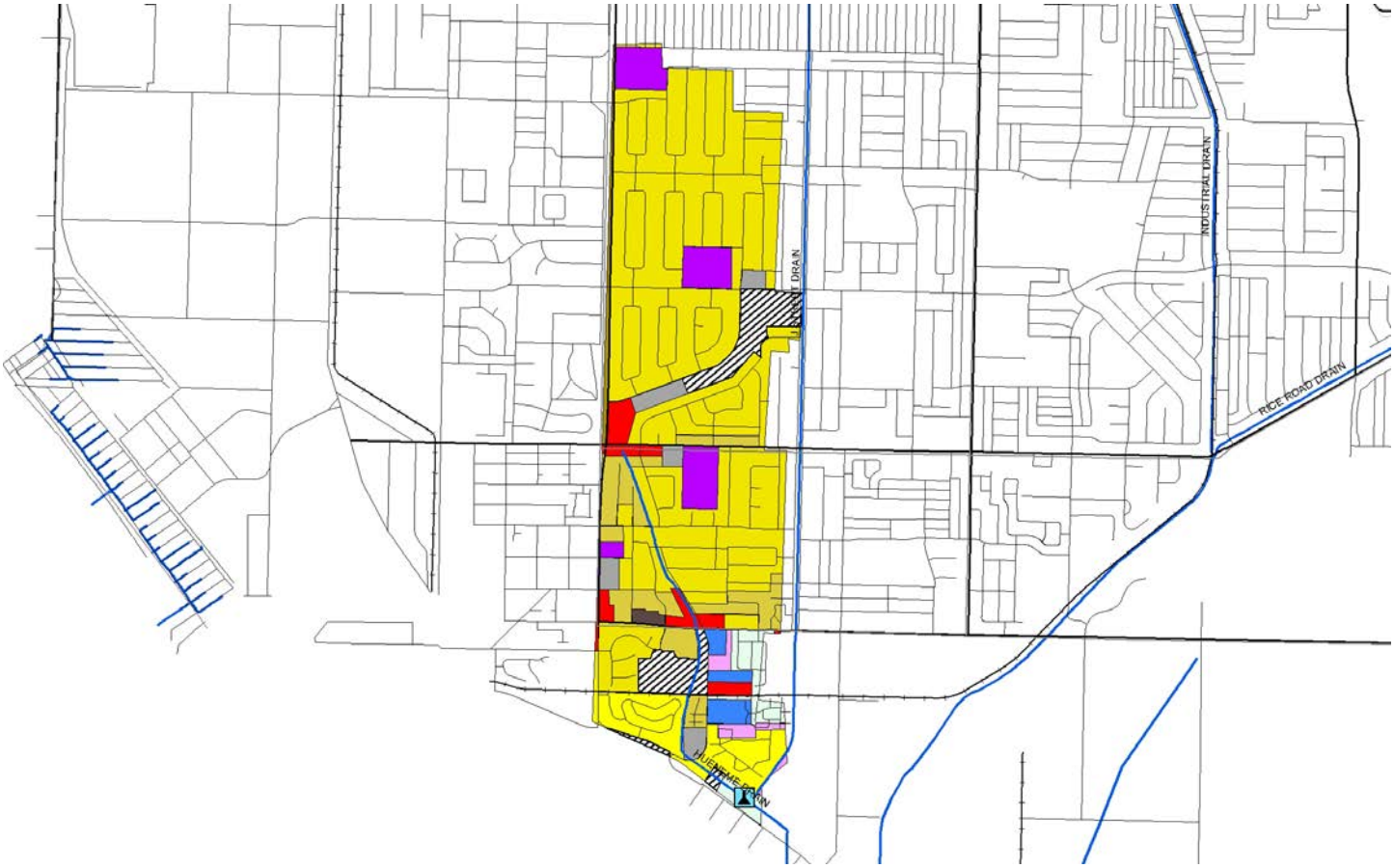
Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	19.0	1.5%
Cemeteries	9.7	0.7%
Commercial	253.5	19.5%
Facility	22.1	1.7%
Industrial_1	0.7	0.1%
Industrial_3	40.4	3.1%
No Info Given	14.0	1.1%
Res.1	243.3	18.7%
Res.2	69.8	5.4%
Res.3	500.1	38.5%
Schools	42.9	3.3%
Transportation	55.3	4.3%
Under Construction	12.4	1.0%
Utilities	3.5	0.3%
Vacant Undifferentiated	11.7	0.9%
Totals	**1298.2**	**100.0%**

Port Hueneme

Waterbody: Hueneme Drain (tributary to Pacific Ocean)
Location: Pump Station 300 yds. downstream Surfside Dr. (34°8'26.91"N, 119°11'17.58"W)
Pros: Grass-covered sides fairly stable
Cons: Lots of activity nearby, high potential for vandalism, stagnant water
Outstanding Site Selection Tasks: Verify positive flow
Other Potential Sites: At Surfside Rd. at lower end of Bubbling Springs Park
Dry Season Flow Potential: Likely year-round flow due to urban runoff and groundwater contribution





Entire City

Land Use	Acres	% of Total Watershed
Commercial	105.4	3.7%
Facility	20.4	0.7%
Industrial_1	32.5	1.1%
Industrial_3	34.9	1.2%
Military_2	1558.4	54.0%
No Info Given	53.7	1.9%
Recreation	38.5	1.3%
Res.2	308.3	10.7%
Res.3	432.9	15.0%
Res.4	104.3	3.6%
Schools	41.6	1.4%
Transportation	29.7	1.0%
Under Construction	2.1	0.1%
Utilities	6.0	0.2%
Vacant Undifferentiated	35.4	1.2%
Water	83.6	2.9%
Totals	**2887.9**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Commercial	19.2	3.3%
Facility	15.1	2.6%
Industrial_3	10.0	1.7%
Military_2	5.7	1.0%
No Info Given	35.8	6.1%
Res.2	45.5	7.7%
Res.3	359.1	60.9%
Res.4	40.9	6.9%
Schools	32.6	5.5%
Under Construction	2.1	0.4%
Utilities	6.5	1.1%
Vacant Undifferentiated	16.8	2.9%
Totals	589.4	100.0%

Santa Paula

Waterbody: 11th Street Drain (tributary to Santa Clara River)
Location: Upstream Santa Paula Airport (34°20'54.99"N, 119° 3'19.82"W)
Pros: Excellent flat pad on top of outfall for sampling equipment
Cons: High potential for vandalism
Outstanding Site Selection Tasks: None
Other Potential Sites: None
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff. No flow at time of initial observation

Entire City

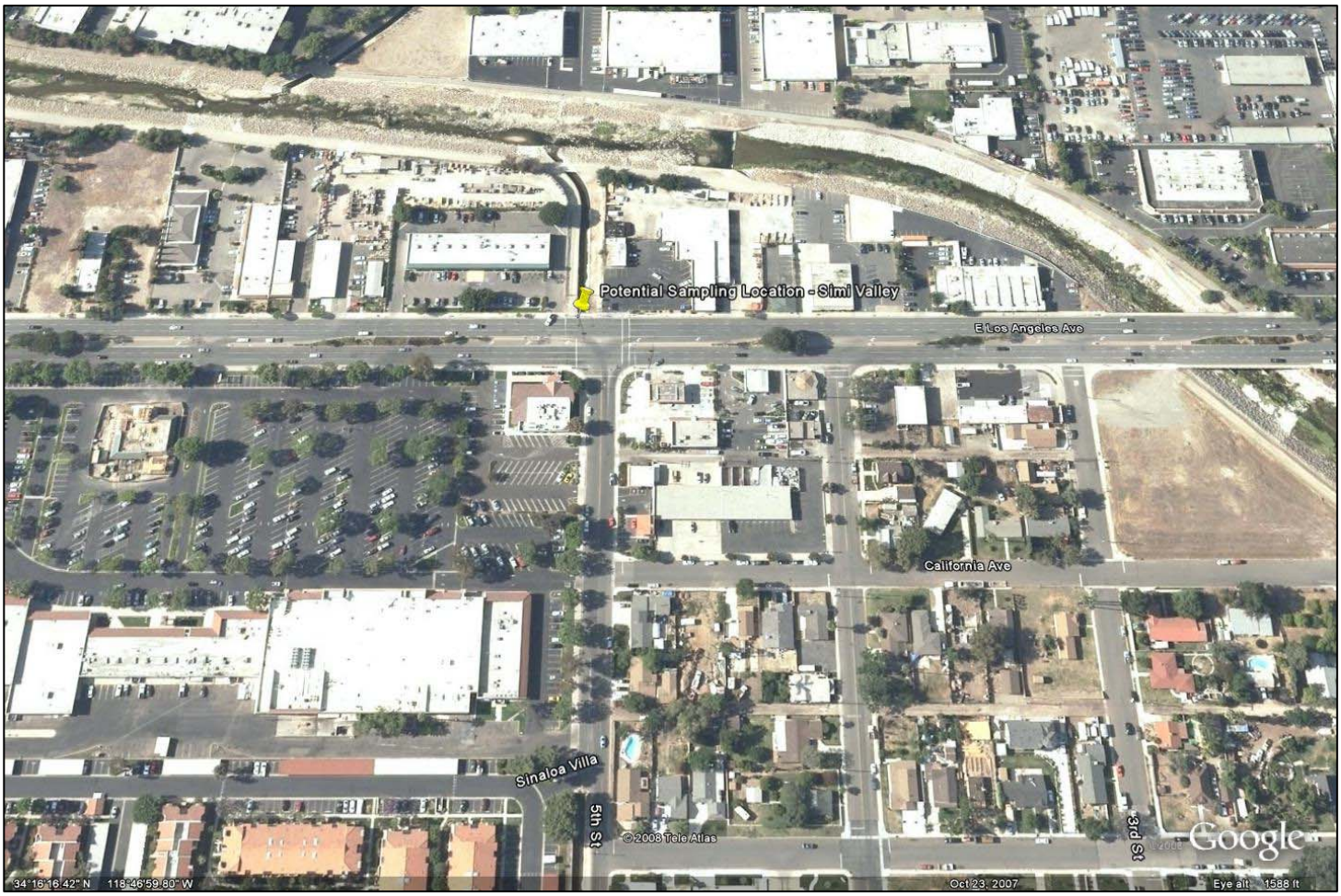
Land Use	Acres	% of Total Watershed
Agriculture	210.3	7.0%
Cemeteries	19.4	0.7%
Com_Indus. Mix	4.6	0.2%
Commercial	235.4	7.8%
Extraction	30.5	1.0%
Facility	42.4	1.4%
Industrial_1	73.7	2.4%
Industrial_3	133.0	4.5%
No Info Given	33.5	1.1%
Recreation	4.7	0.2%
Res.1	266.9	8.9%
Res.2	86.8	2.9%
Res.3	1065.9	35.5%
Res.4	46.8	1.6%
Schools	91.7	3.1%
Transportation	166.4	5.5%
Under Construction	8.7	0.3%
Utilities	41.1	1.4%
Vacant Undifferentiated	440.6	14.7%
Totals	**3002.4**	**100.0%**

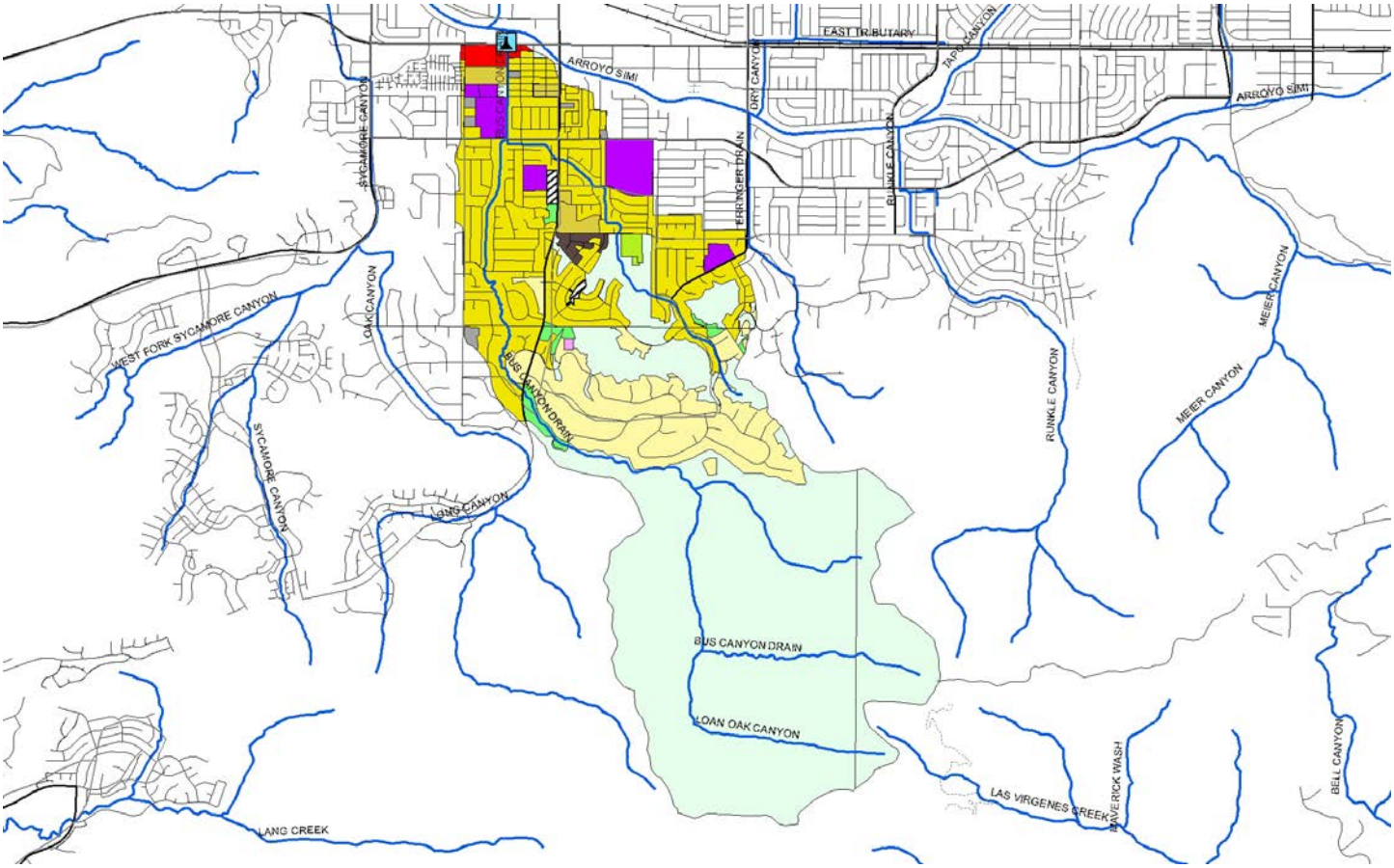
Selected Subwatershed

Land Use	Acres	% of Total Watershed
Commercial	9.4	14.7%
Industrial_1	2.5	4.0%
Res.2	2.8	4.3%
Res.3	30.5	47.7%
Schools	6.4	10.0%
Transportation	6.8	10.6%
Utilities	4.9	7.6%
Vacant Undifferentiated	0.8	1.2%
Totals	**64.0**	**100.0%**

Simi Valley

Waterbody: Bus Canyon Drain (tributary to Arroyo Simi)
Location: North of intersection at 5th St. and Los Angeles Ave. (34°16'18.59"N, 118°47'1.51"W)
Pros: Likely well-defined rating table, located behind VCWPD gate
Cons: Pedestrian traffic on levee nearby
Outstanding Site Selection Tasks: Assess impacts of large groundwater discharge upstream, move sampling location shown on watershed map
Other Potential Sites: Upstream at 5th and Ventura Ave.
Dry Season Flow Potential: Likely year round flow due to urban runoff and groundwater discharge upstream





Entire City

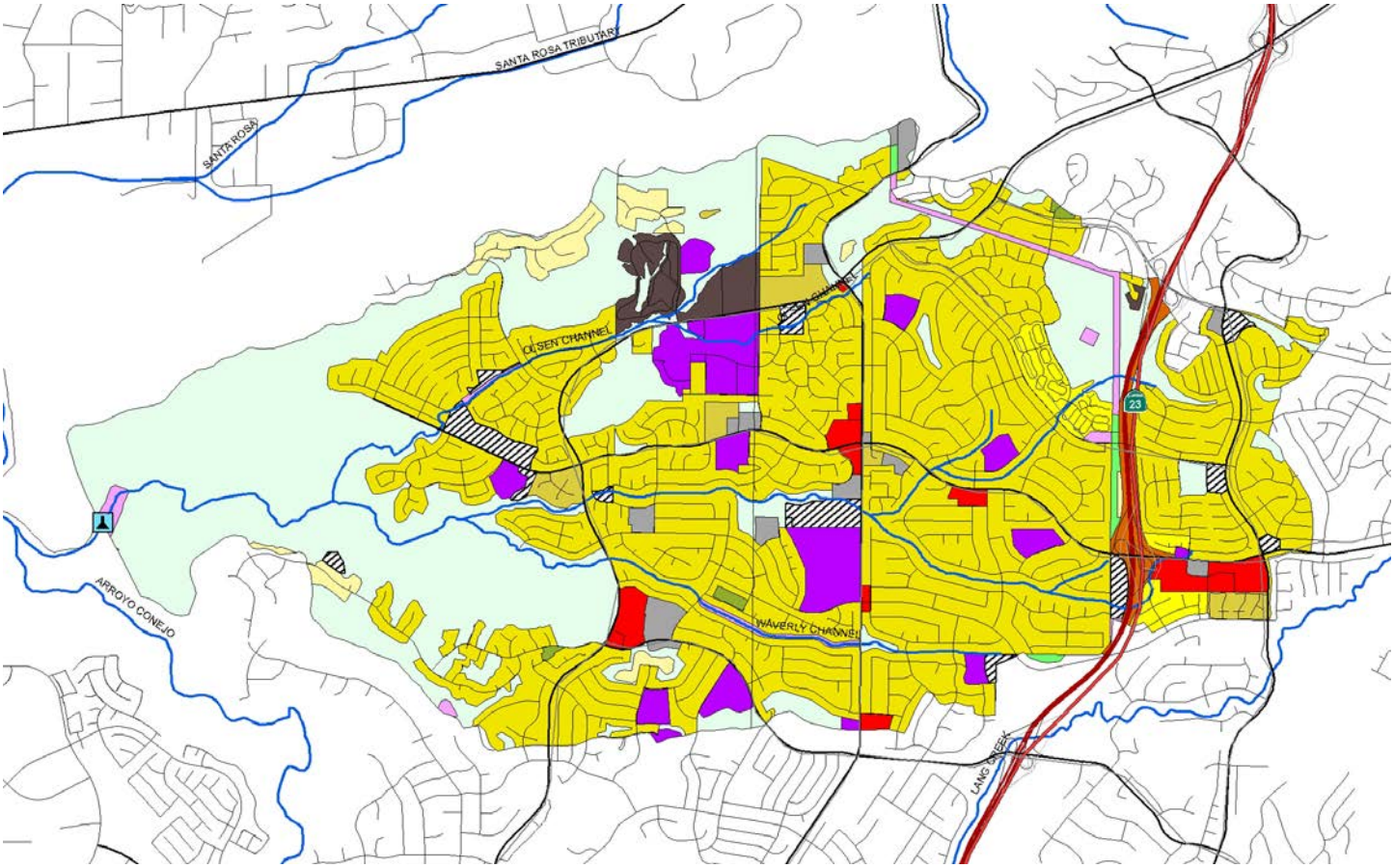
Land Use	Acres	% of Total Watershed
Agriculture	435.5	1.6%
Cemeteries	34.3	0.1%
Com_Indus. Mix	24.4	0.1%
Commercial	1051.4	3.9%
Extraction	111.8	0.4%
Facility	217.1	0.8%
Industrial_1	50.3	0.2%
Industrial_3	353.3	1.3%
Industrial_4	5.9	0.0%
No Info Given	382.0	1.5%
Recreation	560.9	2.0%
Res.1	1025.0	3.7%
Res.2	586.0	2.2%
Res.3	7947.7	29.5%
Res.4	110.7	0.4%
Schools	517.5	1.9%
Transportation	546.9	2.0%
Under Construction	385.6	1.4%
Utilities	261.0	1.0%
Vacant Undifferentiated	12291.5	45.6%
Totals	**26898.6**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	33.0	1.0%
Cemeteries	10.1	0.3%
Commercial	22.6	0.7%
Facility	12.9	0.4%
No Info Given	9.4	0.3%
Res.1	395.5	11.9%
Res.2	40.3	1.2%
Res.3	782.9	23.6%
Schools	96.7	2.9%
Under Construction	15.5	0.5%
Utilities	1.8	0.1%
Vacant Undifferentiated	1900.0	57.2%
Totals	**3320.7**	**100.0%**

Thousand Oaks

Waterbody: North Fork Arroyo Conejo (tributary to Conejo Creek)
Location: Hill Canyon WWTP sampling location R-1(34°12'49.16"N, 118°55'16.24"W)
Pros: Very secure, helpful staff onsite, fairly well-defined channel, accessible via concrete stairs
Cons: Late-night access to WWTP could present problem
Outstanding Site Selection Tasks: None
Other Potential Sites: None
Dry Season Flow Potential: Likely year-round flow due to urban runoff



Entire City

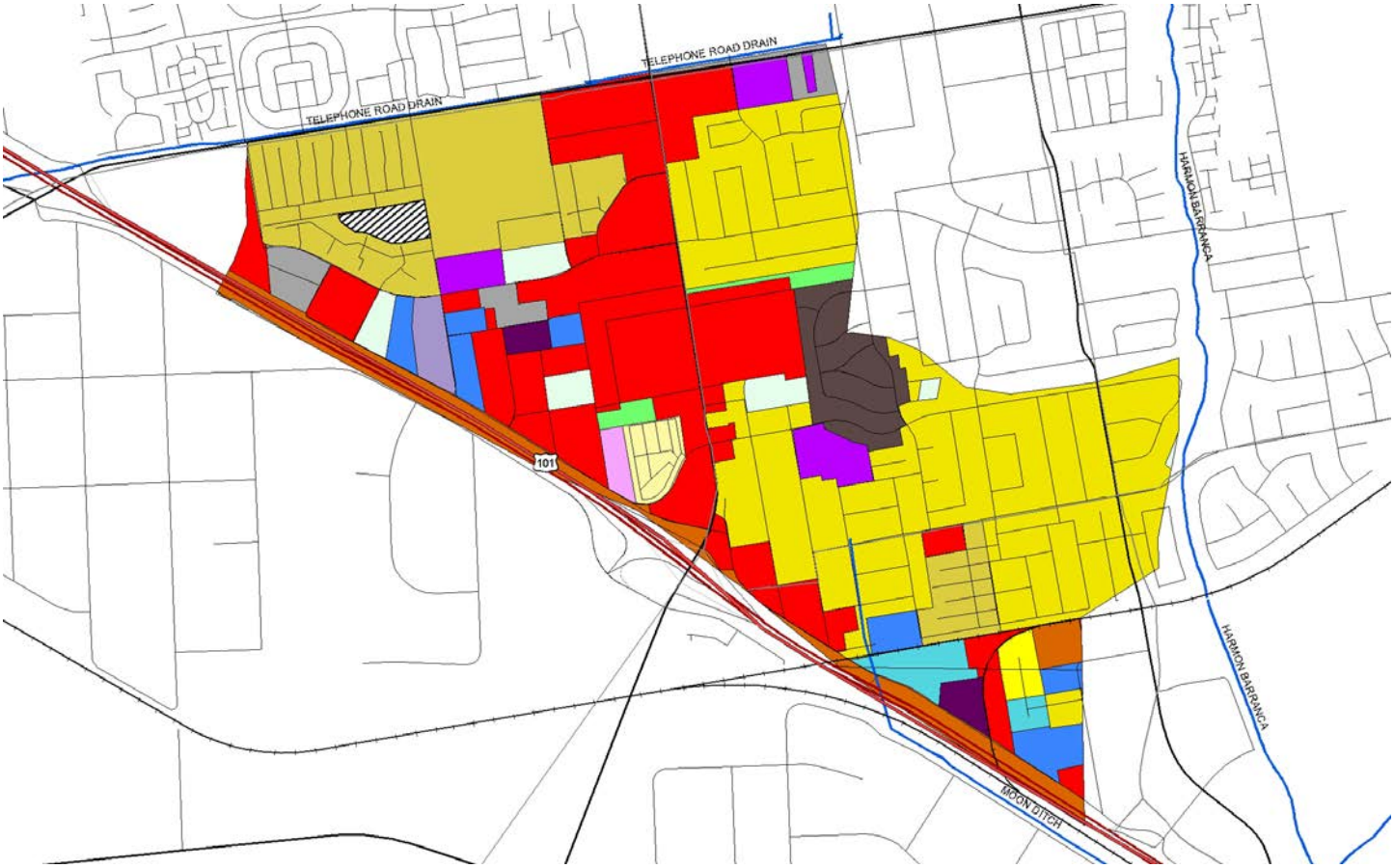
Land Use	Acres	% of Total Watershed
Agriculture	207.0	0.6%
Com_Indus. Mix	23.2	0.1%
Commercial	1499.7	4.2%
Extraction	9.0	0.0%
Facility	291.6	0.8%
Industrial_1	94.3	0.3%
Industrial_3	457.7	1.3%
No Info Given	459.2	1.3%
Recreation	574.2	1.7%
Res.1	1683.9	4.7%
Res.2	1000.3	2.8%
Res.3	9323.6	26.4%
Res.4	288.1	0.8%
Schools	587.6	1.7%
Transportation	605.4	1.7%
Under Construction	281.6	0.8%
Utilities	260.6	0.7%
Vacant Undifferentiated	17465.1	49.7%
Totals	**35111.8**	**100.0%**

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Agriculture	13.5	0.3%
Commercial	83.5	1.6%
Facility	67.3	1.3%
No Info Given	95.4	1.8%
Recreation	8.7	0.2%
Res.1	89.8	1.7%
Res.2	71.5	1.4%
Res.3	2643.8	51.0%
Res.4	84.0	1.6%
Schools	224.2	4.3%
Transportation	61.5	1.2%
Under Construction	79.4	1.5%
Utilities	53.3	1.0%
Vacant Undifferentiated	1603.6	31.0%
Totals	**5179.3**	**100.0%**

Ventura

Waterbody: Moon Ditch (tributary to Santa Clara River)
Location: Between Leland St. and US 101, north of Johnson Dr. (34°14'35.86"N, 119°11'40.86"W)
Pros: Likely well-defined rating table, fairly good protection (located behind VCWPD gate)
Cons: Wide concrete bottom will spread out low flows, placement of intake somewhat difficult
Outstanding Site Selection Tasks: None
Other Potential Sites: None
Dry Season Flow Potential: Likely intermittent year-round flow due to urban runoff



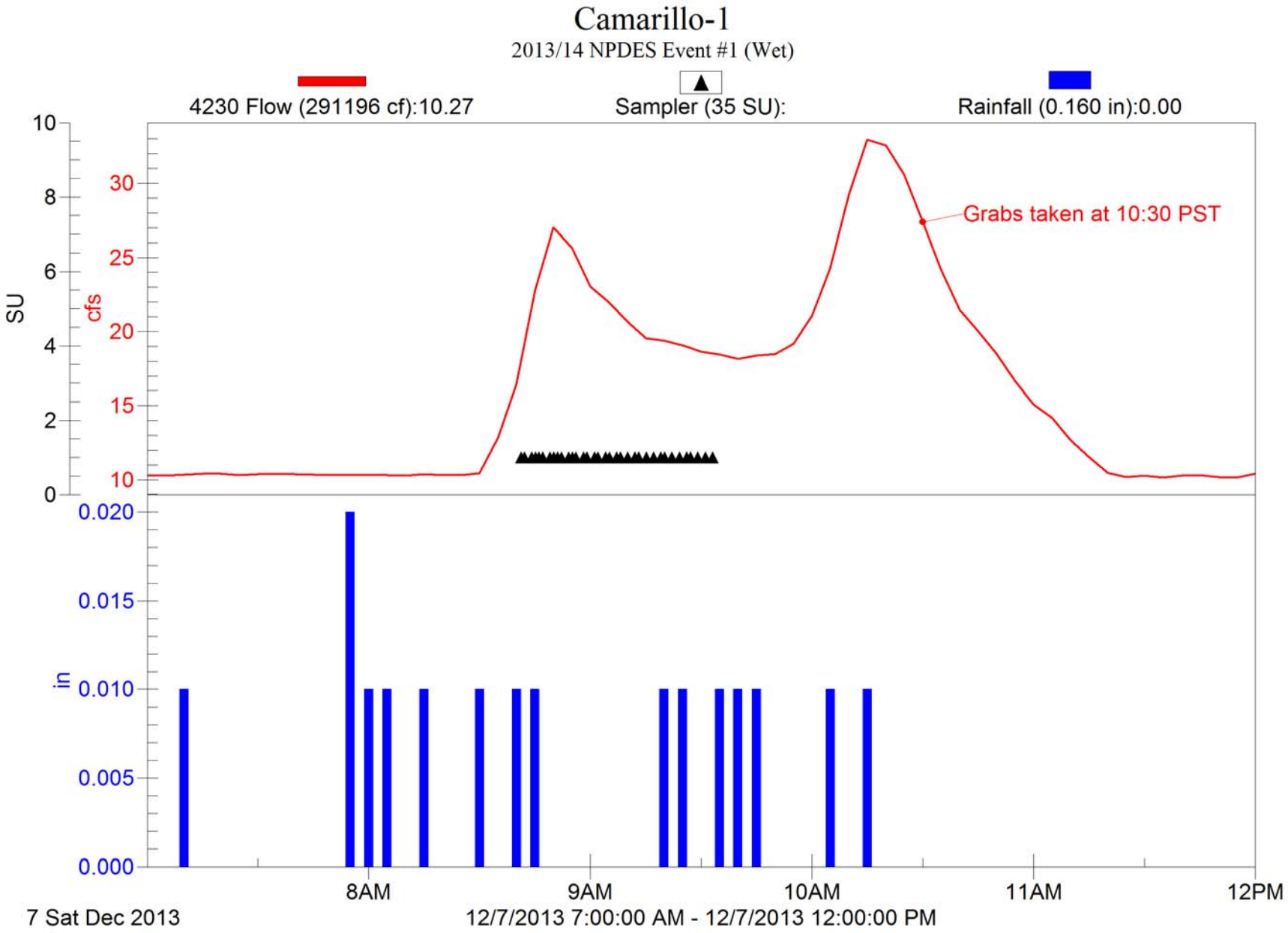
Entire City

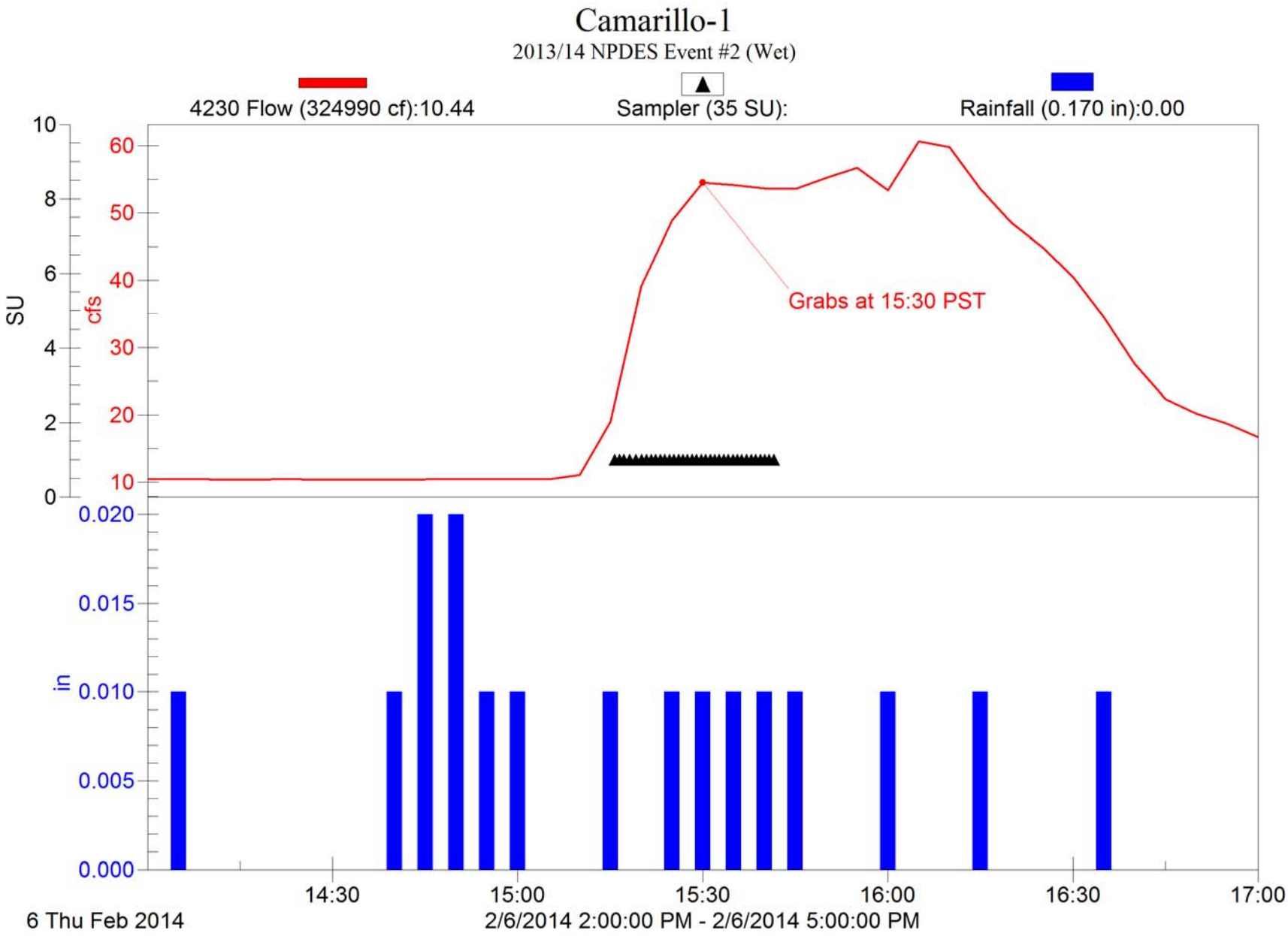
Land Use	Acres	% of Total Watershed
Agriculture	667.6	4.7%
Cemeteries	72.6	0.5%
Com_Indus. Mix	95.4	0.7%
Commercial	1402.9	10.0%
Extraction	39.2	0.3%
Facility	303.8	2.2%
Industrial_1	90.5	0.6%
Industrial_3	619.6	4.5%
Military_2	3.6	0.0%
No Info Given	285.7	2.1%
Recreation	516.3	3.7%
Res.1	361.1	2.6%
Res.2	924.0	6.6%
Res.3	5209.6	37.2%
Res.4	72.4	0.5%
Res.5	2.8	0.0%
Schools	495.8	3.6%
Transportation	570.0	4.1%
Under Construction	73.7	0.5%
Utilities	125.4	0.9%
Vacant Undifferentiated	2018.1	14.4%
Water	61.5	0.4%
Totals	**14011.6**	**100.0%**

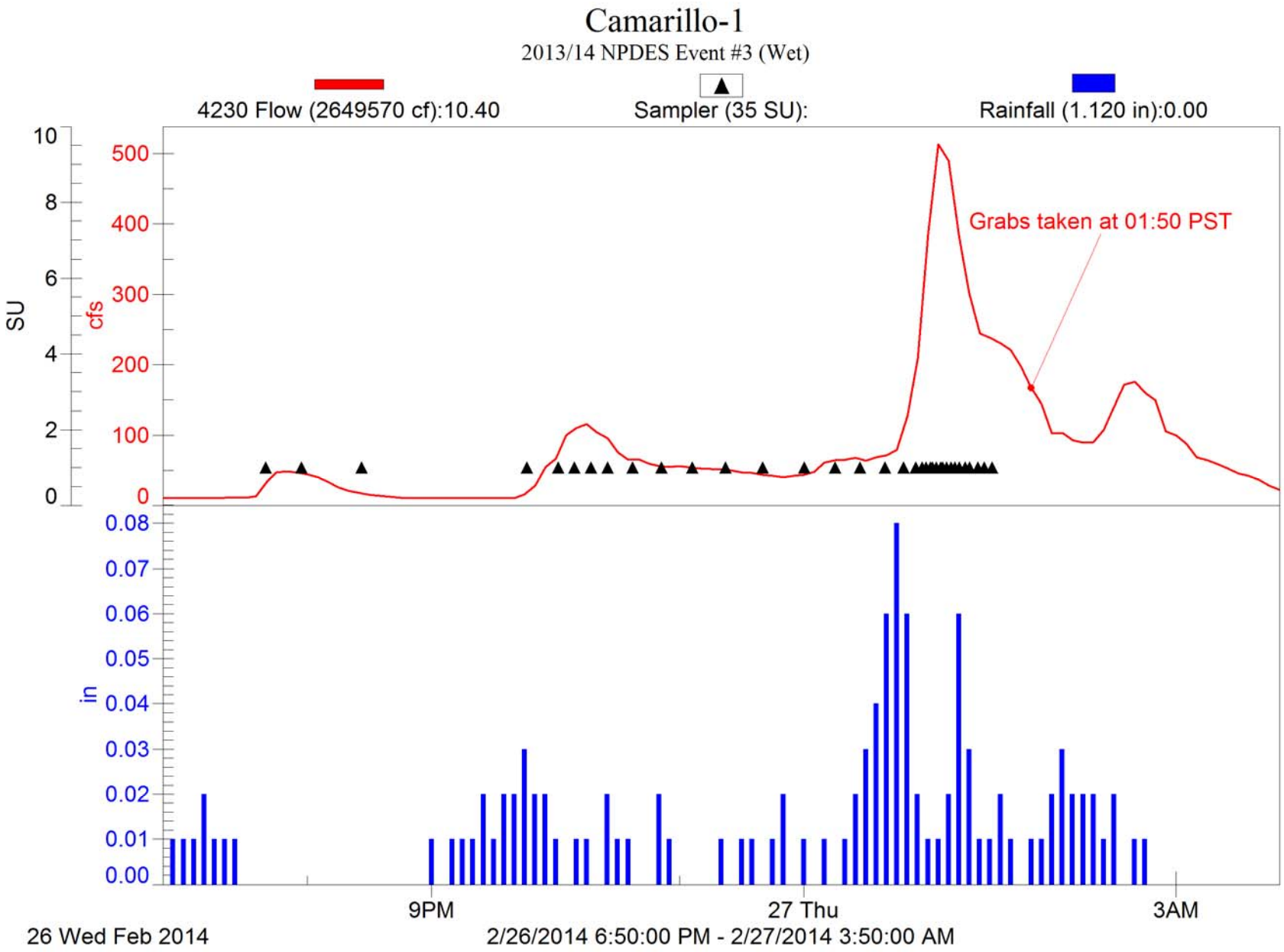
Selected Subwatershed

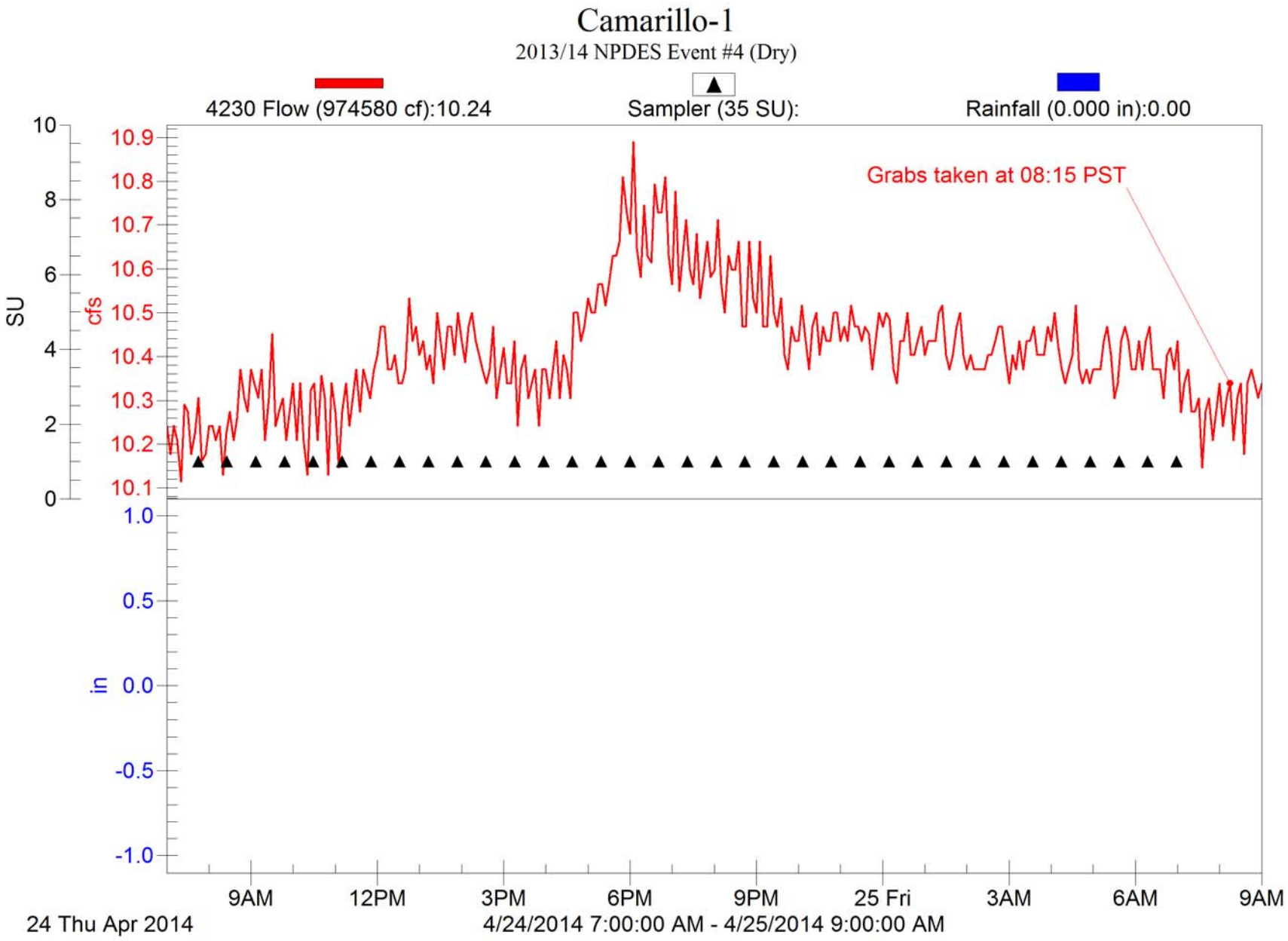
Land Use	Acres	% of Total Watershed
Agriculture	5.8	0.8%
Com_Indus. Mix	6.5	0.9%
Commercial	171.7	24.3%
Extraction	6.3	0.9%
Facility	14.6	2.1%
Industrial_1	10.8	1.5%
Industrial_3	23.0	3.2%
No Info Given	5.4	0.8%
Res.1	8.7	1.2%
Res.2	109.1	15.4%
Res.3	234.8	33.2%
Res.4	4.8	0.7%
Schools	18.4	2.6%
Transportation	40.7	5.8%
Under Construction	26.6	3.8%
Utilities	3.5	0.5%
Vacant Undifferentiated	16.3	2.3%
Totals	**707.1**	**100.0%**

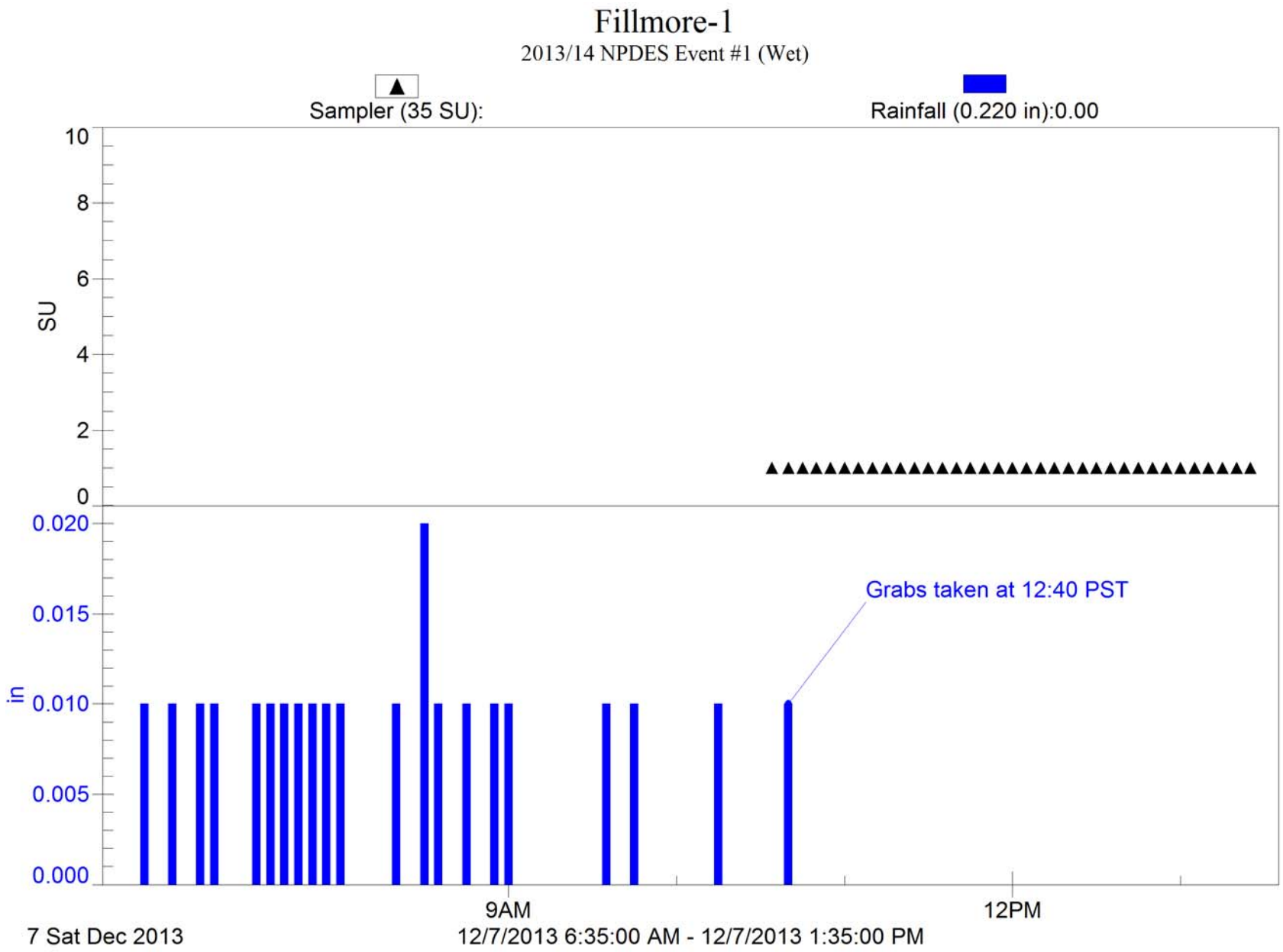
Appendix B. Event Hydrographs


Camarillo-1
2013/14 NPDES Event #1 (Wet)
4230 Flow (291196 cf):10.27
Sampler (35 SU):
Rainfall (0.160 in):0.00
Grabs taken at 10:30 PST
SU
cfs
in
10
8
6
4
2
0
30
25
20
15
10
0.020
0.015
0.010
0.005
0.000
8AM
9AM
10AM
11AM
12PM
7 Sat Dec 2013
12/7/2013 7:00:00 AM - 12/7/2013 12:00:00 PM


Camarillo-1
2013/14 NPDES Event #2 (Wet)
4230 Flow (324990 cf):10.44
Sampler (35 SU):
Rainfall (0.170 in):0.00
SU
cfs
in
Grabs at 15:30 PST
10
8
6
4
2
0
60
50
40
30
20
10
0.020
0.015
0.010
0.005
0.000
14:30
15:00
15:30
16:00
16:30
17:00
6 Thu Feb 2014
2/6/2014 2:00:00 PM - 2/6/2014 5:00:00 PM

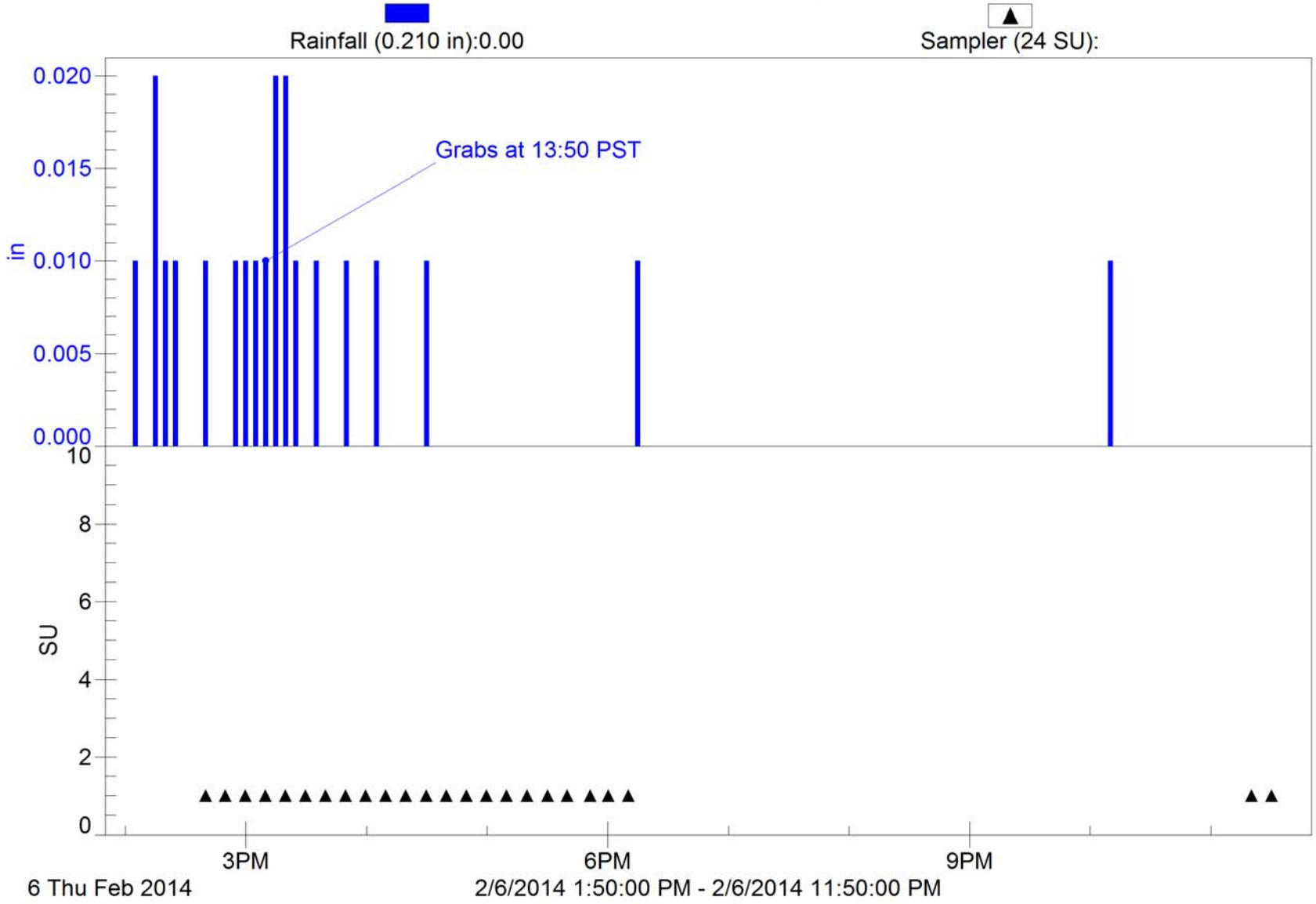

Camarillo-1
2013/14 NPDES Event #3 (Wet)
4230 Flow (2649570 cf):10.40
Sampler (35 SU):
Rainfall (1.120 in):0.00
SU
cfs
in
Grabs taken at 01:50 PST
9PM
27 Thu
3AM
26 Wed Feb 2014
2/26/2014 6:50:00 PM - 2/27/2014 3:50:00 AM

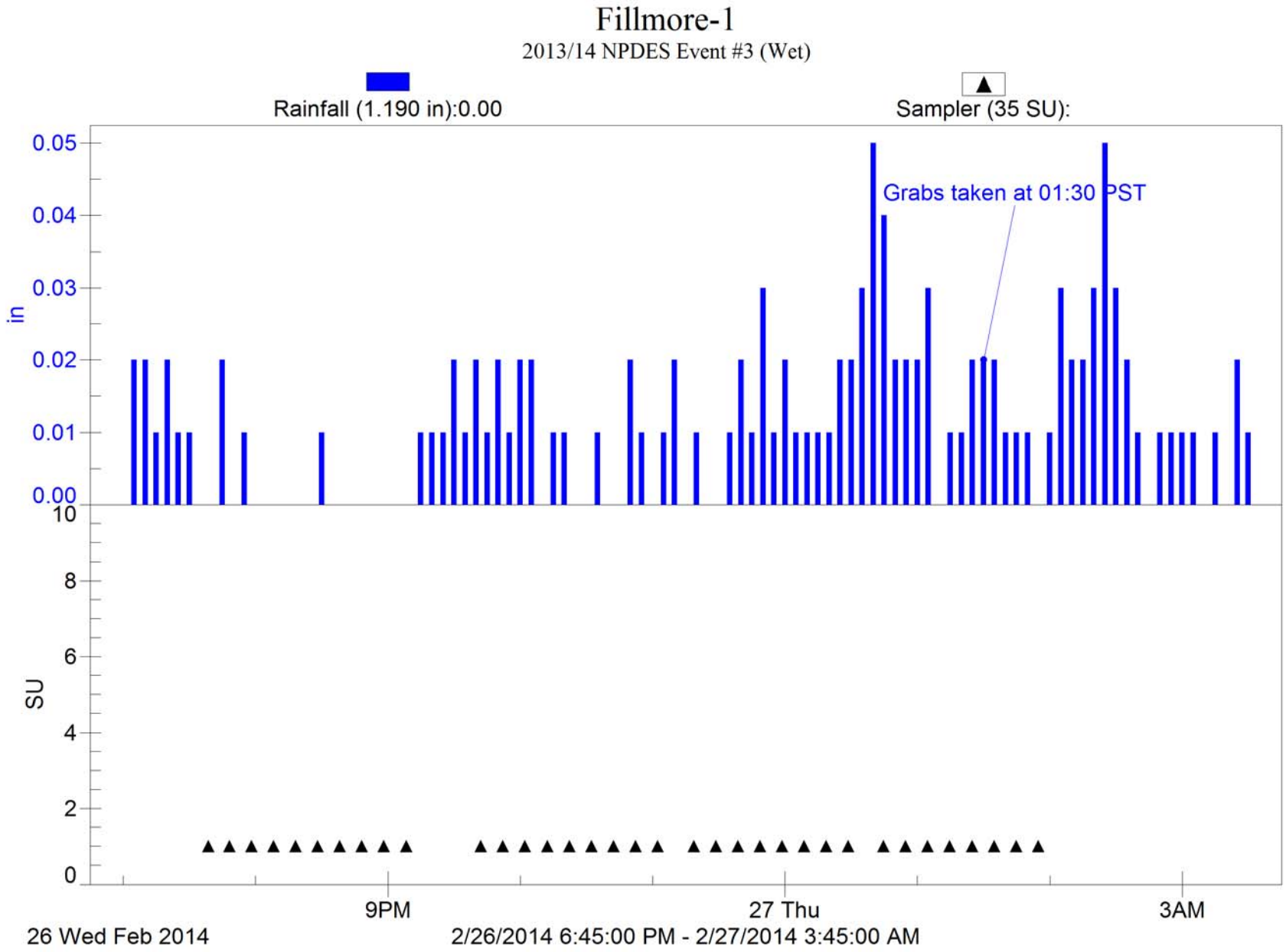

Camarillo-1
2013/14 NPDES Event #4 (Dry)
4230 Flow (974580 cf):10.24
Sampler (35 SU):
Rainfall (0.000 in):0.00
Grabs taken at 08:15 PST
SU
cfs
in
10
8
6
4
2
0
10.9
10.8
10.7
10.6
10.5
10.4
10.3
10.2
10.1
1.0
0.5
0.0
-0.5
-1.0
9AM
12PM
3PM
6PM
9PM
25 Fri
3AM
6AM
9AM
24 Thu Apr 2014
4/24/2014 7:00:00 AM - 4/25/2014 9:00:00 AM

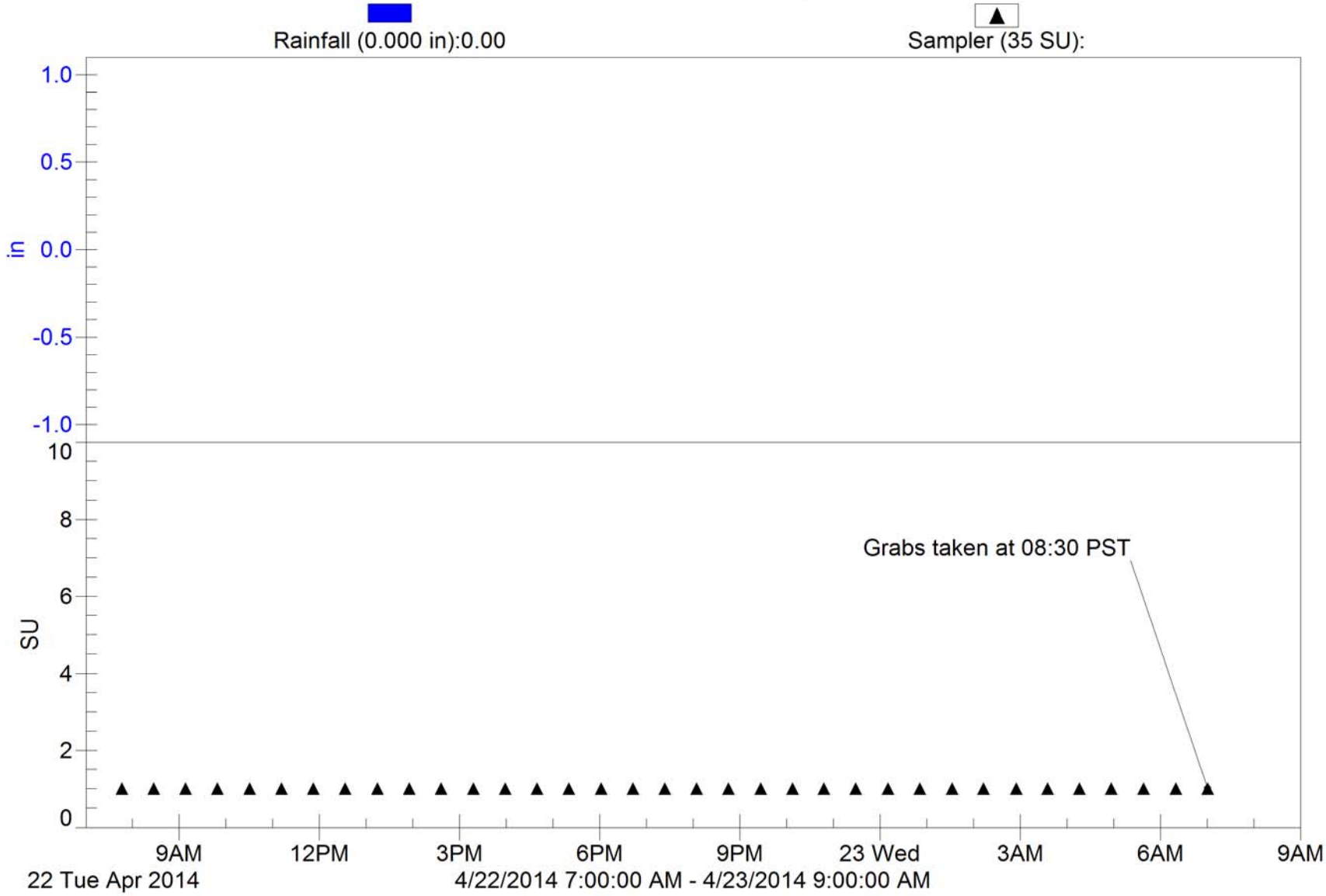

Fillmore-1
2013/14 NPDES Event #1 (Wet)
Sampler (35 SU):
Rainfall (0.220 in):0.00
SU
10
8
6
4
2
0
in
0.020
0.015
0.010
0.005
0.000
Grabs taken at 12:40 PST
9AM
12PM
7 Sat Dec 2013
12/7/2013 6:35:00 AM - 12/7/2013 1:35:00 PM

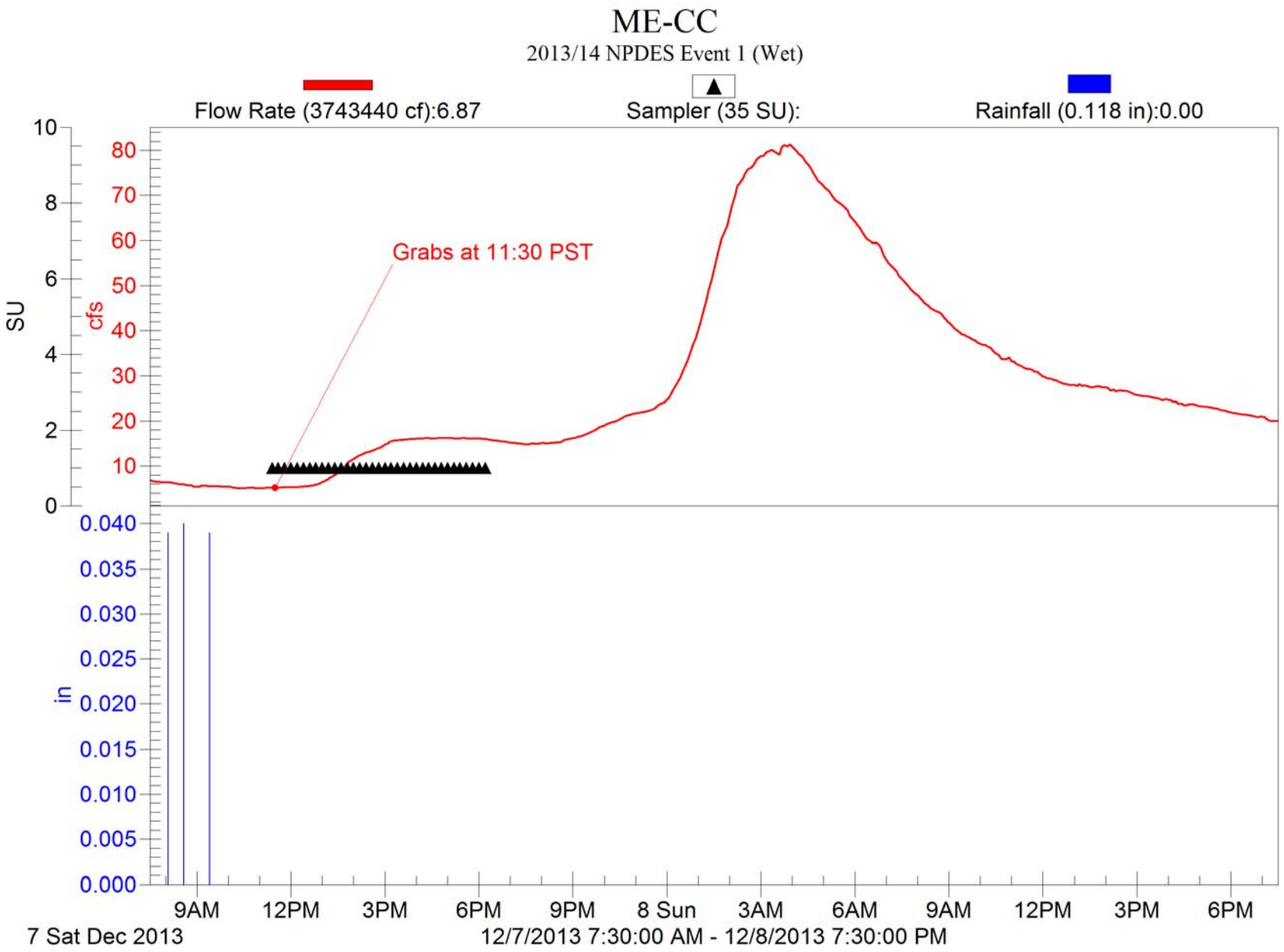
Fillmore-1

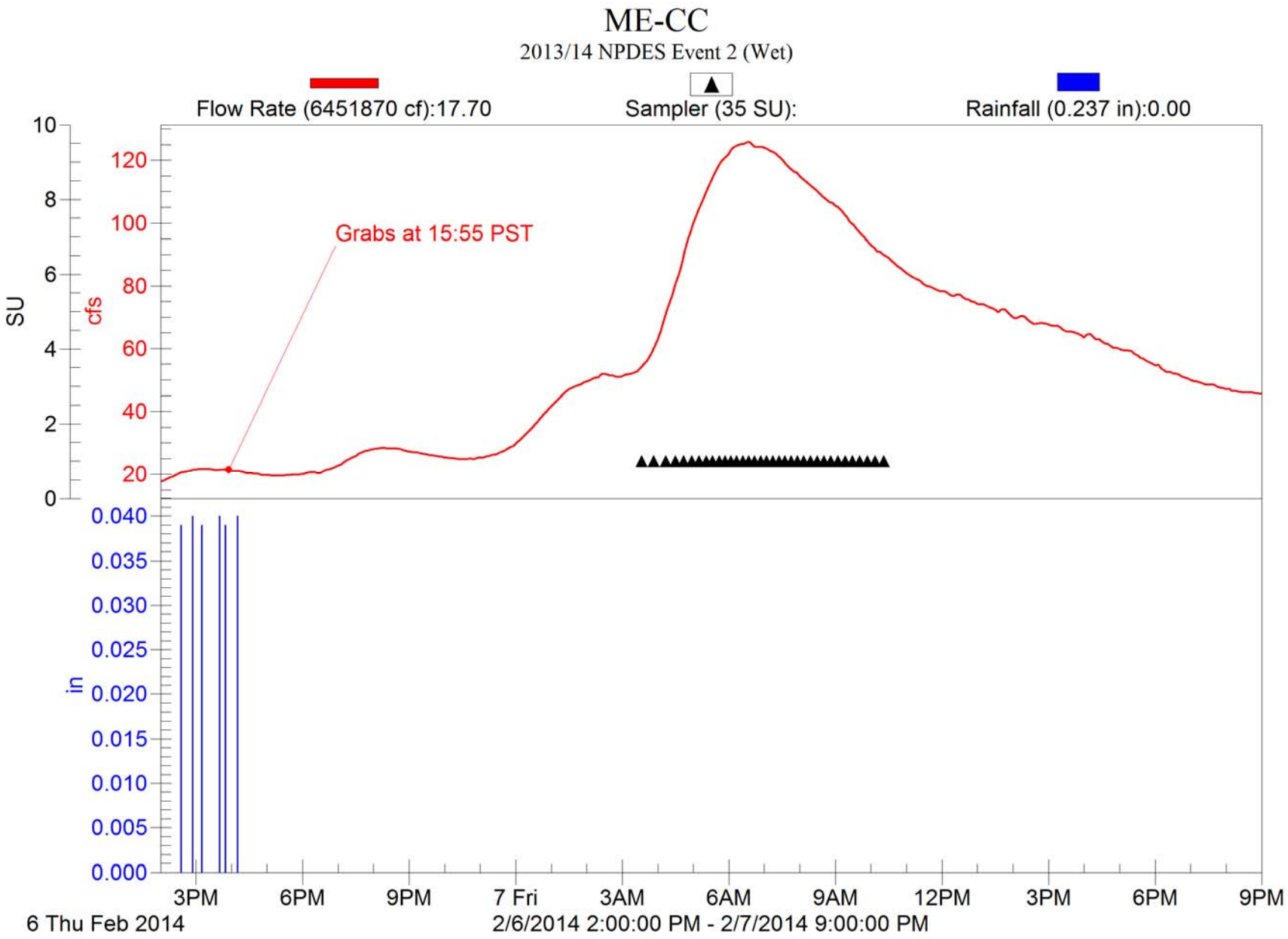
2013/14 NPDES Event #2 (Wet)

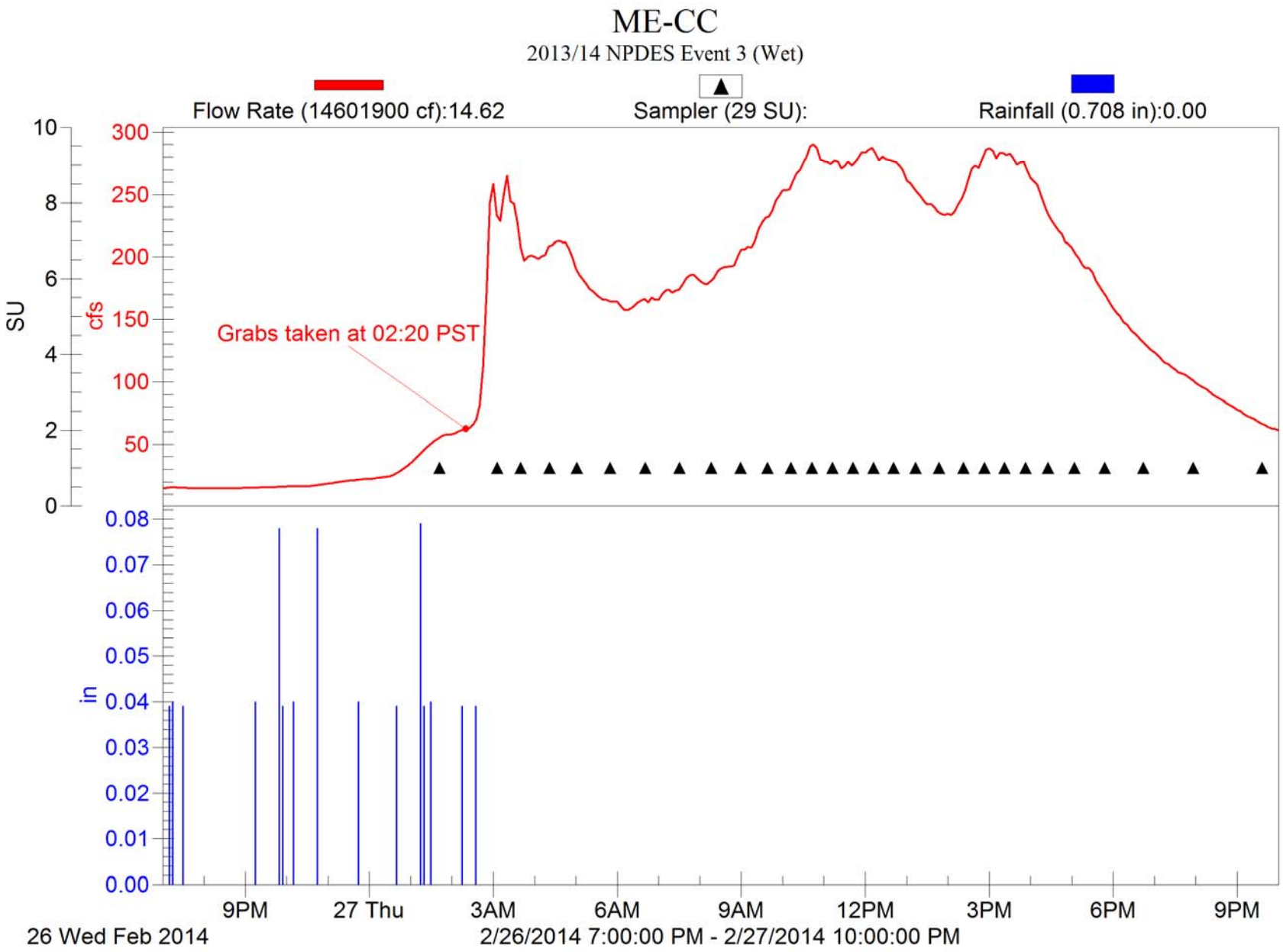


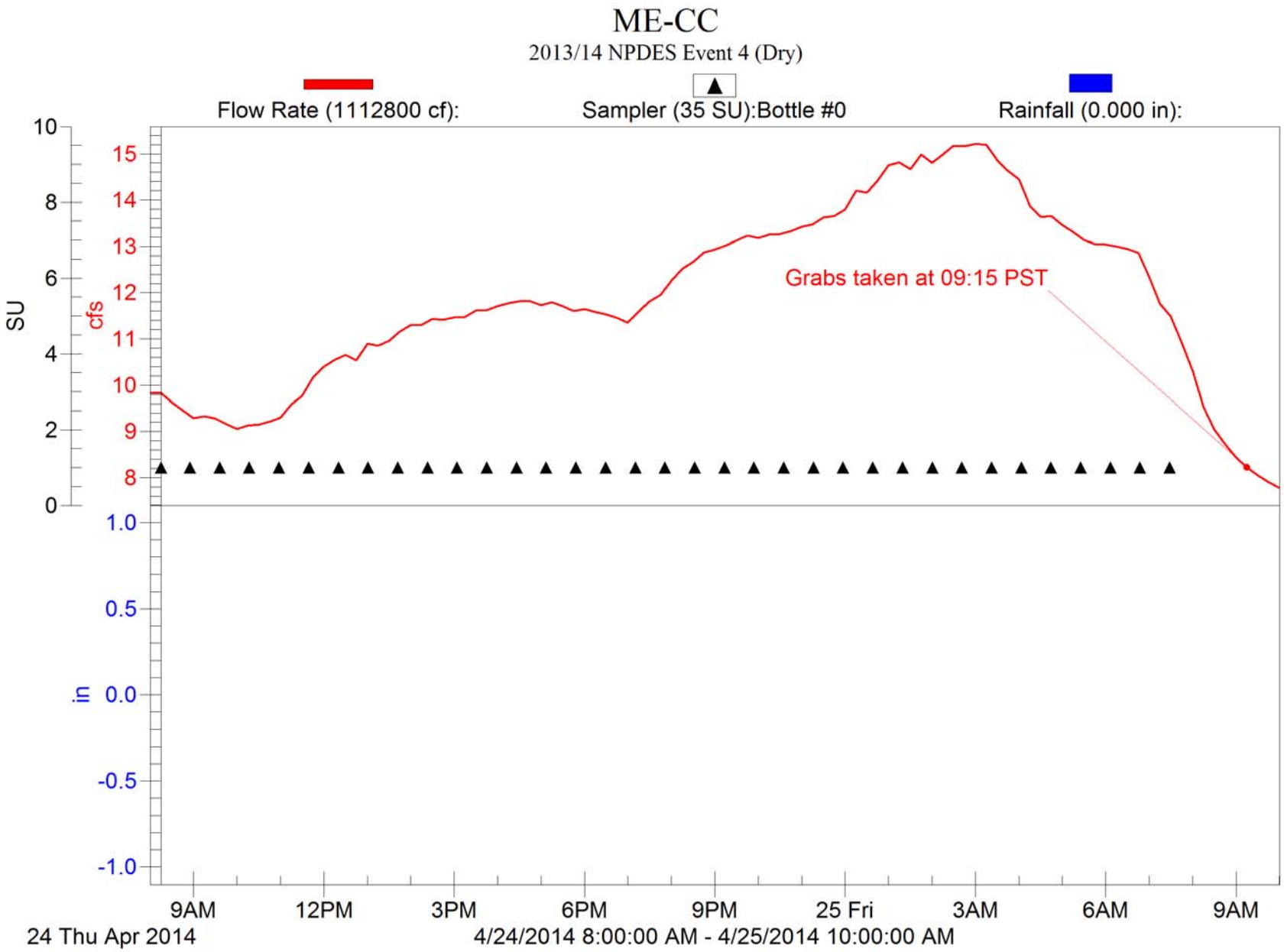

Fillmore-1
2013/14 NPDES Event #3 (Wet)
Rainfall (1.190 in):0.00
Sampler (35 SU):
Grabs taken at 01:30 PST
in
0.05
0.04
0.03
0.02
0.01
0.00
SU
10
8
6
4
2
0
9PM
27 Thu
3AM
26 Wed Feb 2014
2/26/2014 6:45:00 PM - 2/27/2014 3:45:00 AM

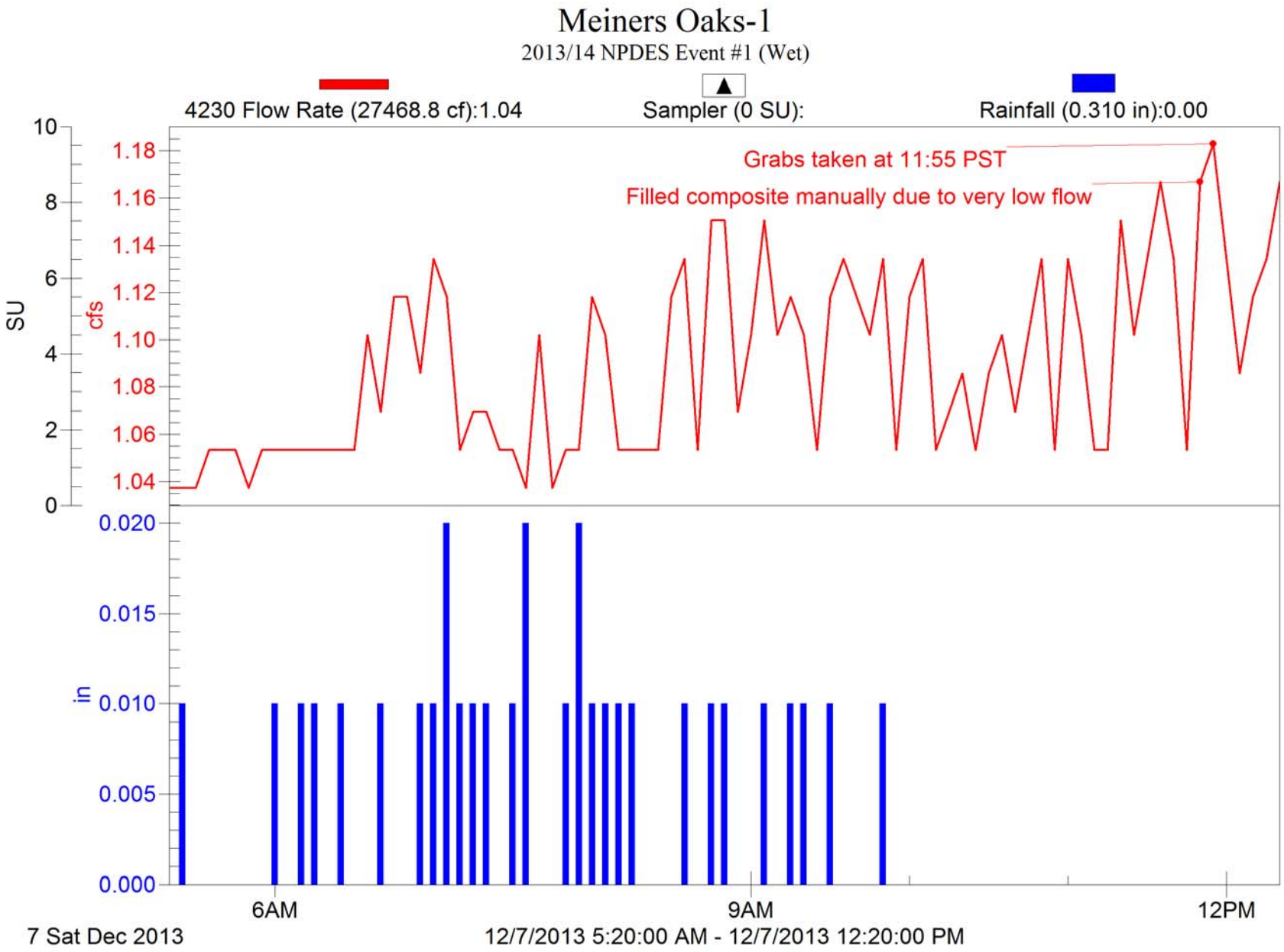

Fillmore-1
2013/14 NPDES Event #4 (Dry)
Rainfall (0.000 in):0.00
Sampler (35 SU):
1.0
0.5
0.0
-0.5
-1.0
in
10
8
6
4
2
0
SU
Grabs taken at 08:30 PST
9AM
12PM
3PM
6PM
9PM
23 Wed
3AM
6AM
9AM
22 Tue Apr 2014
4/22/2014 7:00:00 AM - 4/23/2014 9:00:00 AM

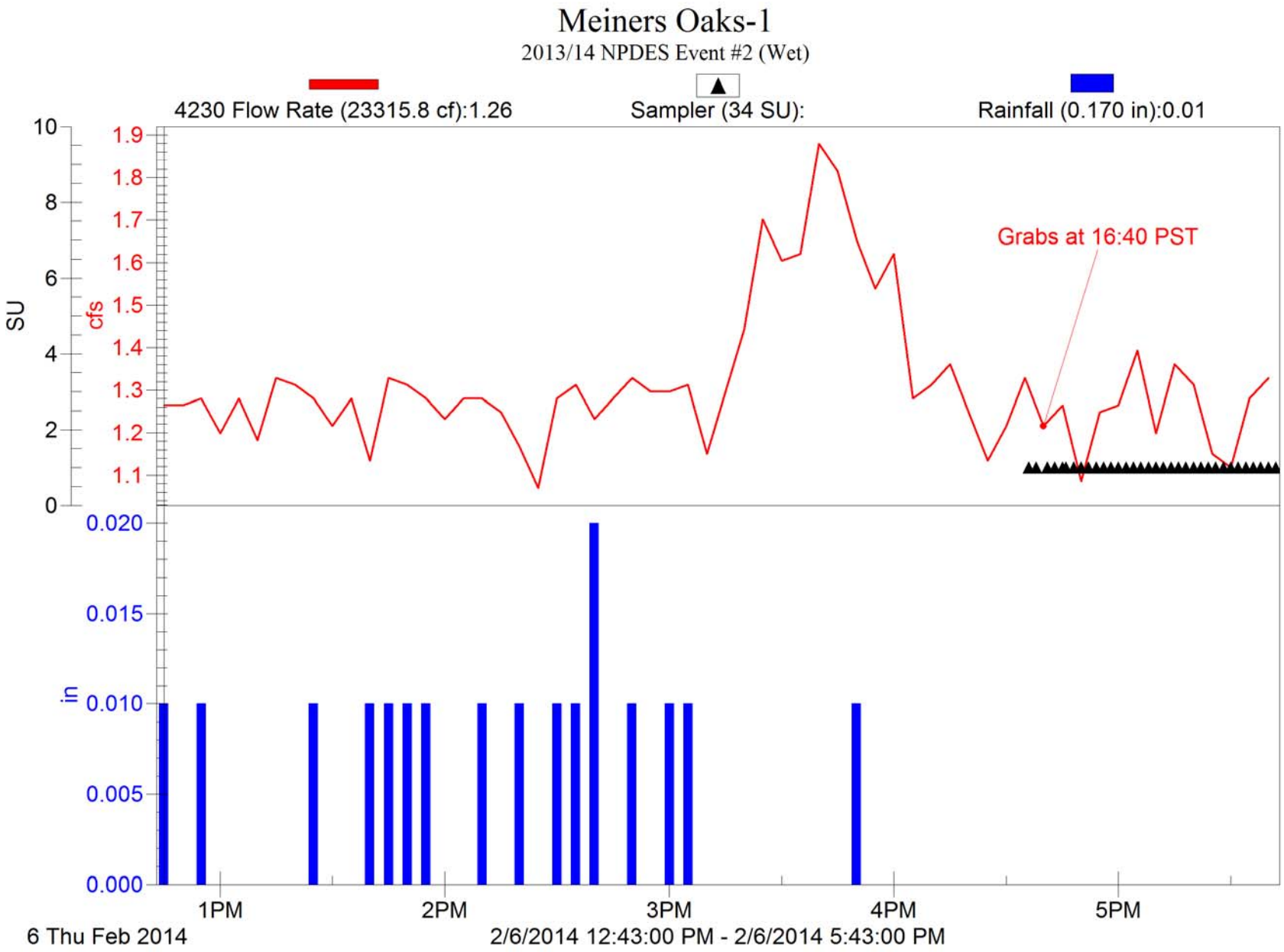

ME-CC
2013/14 NPDES Event 1 (Wet)
Flow Rate (3743440 cf):6.87
Sampler (35 SU):
Rainfall (0.118 in):0.00
Grabs at 11:30 PST
SU
cfs
in
10
8
6
4
2
0
80
70
60
50
40
30
20
10
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
9AM
12PM
3PM
6PM
9PM
8 Sun
3AM
6AM
9AM
12PM
3PM
6PM
7 Sat Dec 2013
12/7/2013 7:30:00 AM - 12/8/2013 7:30:00 PM

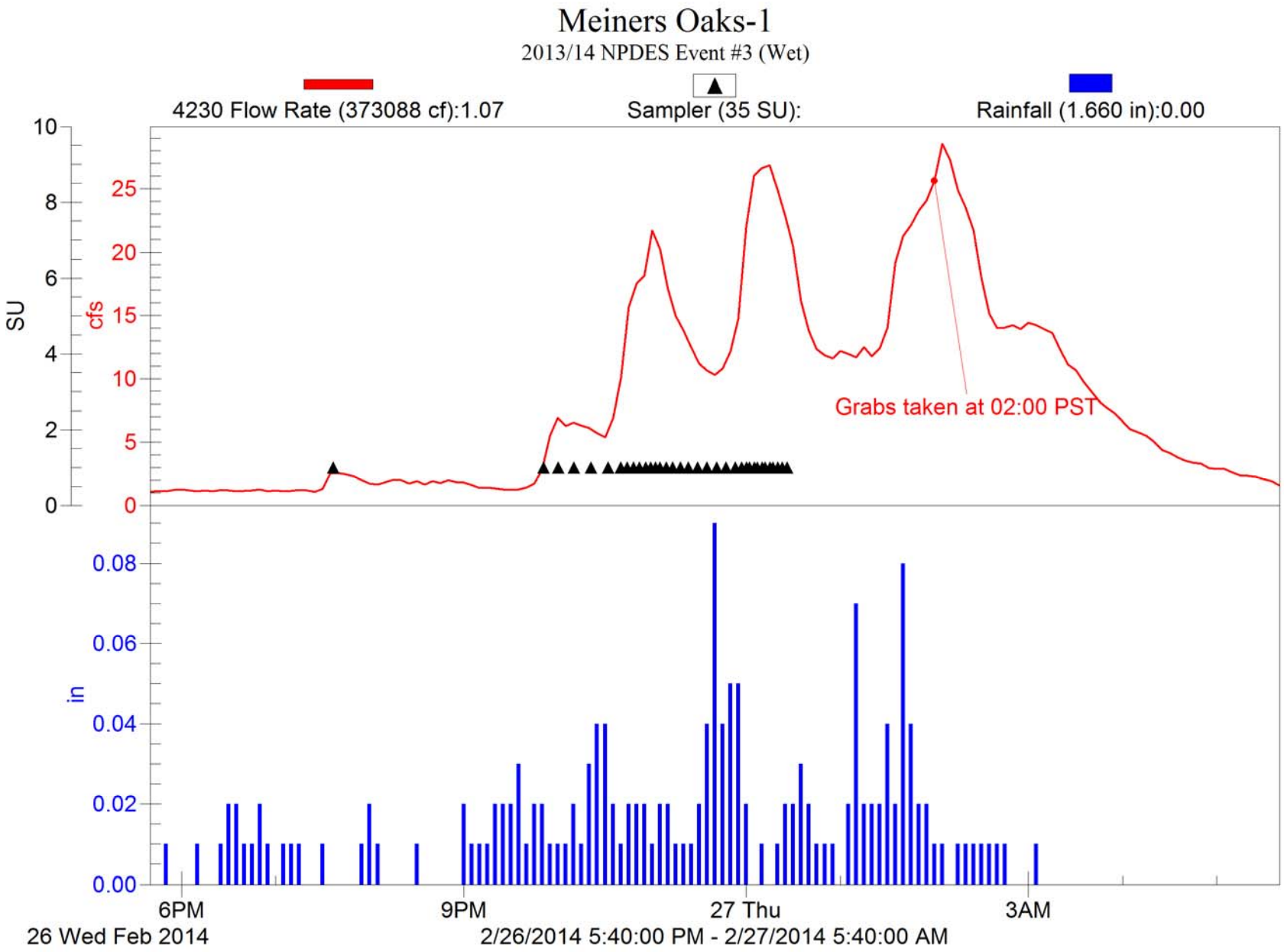

ME-CC
2013/14 NPDES Event 2 (Wet)
Flow Rate (6451870 cf):17.70
Sampler (35 SU):
Rainfall (0.237 in):0.00
SU
cfs
in
Grabs at 15:55 PST
10
8
6
4
2
0
120
100
80
60
40
20
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
3PM
6PM
9PM
7 Fri
3AM
6AM
9AM
12PM
3PM
6PM
9PM
6 Thu Feb 2014
2/6/2014 2:00:00 PM - 2/7/2014 9:00:00 PM


ME-CC
2013/14 NPDES Event 3 (Wet)
Flow Rate (14601900 cf):14.62
Sampler (29 SU):
Rainfall (0.708 in):0.00
SU
cfs
in
Grabs taken at 02:20 PST
9PM
27 Thu
3AM
6AM
9AM
12PM
3PM
6PM
9PM
26 Wed Feb 2014
2/26/2014 7:00:00 PM - 2/27/2014 10:00:00 PM


ME-CC
2013/14 NPDES Event 4 (Dry)
Flow Rate (1112800 cf):
Sampler (35 SU):Bottle #0
Rainfall (0.000 in):
Grabs taken at 09:15 PST
SU
cfs
in
10
8
6
4
2
0
15
14
13
12
11
10
9
8
1.0
0.5
0.0
-0.5
-1.0
9AM
12PM
3PM
6PM
9PM
25 Fri
3AM
6AM
9AM
24 Thu Apr 2014
4/24/2014 8:00:00 AM - 4/25/2014 10:00:00 AM

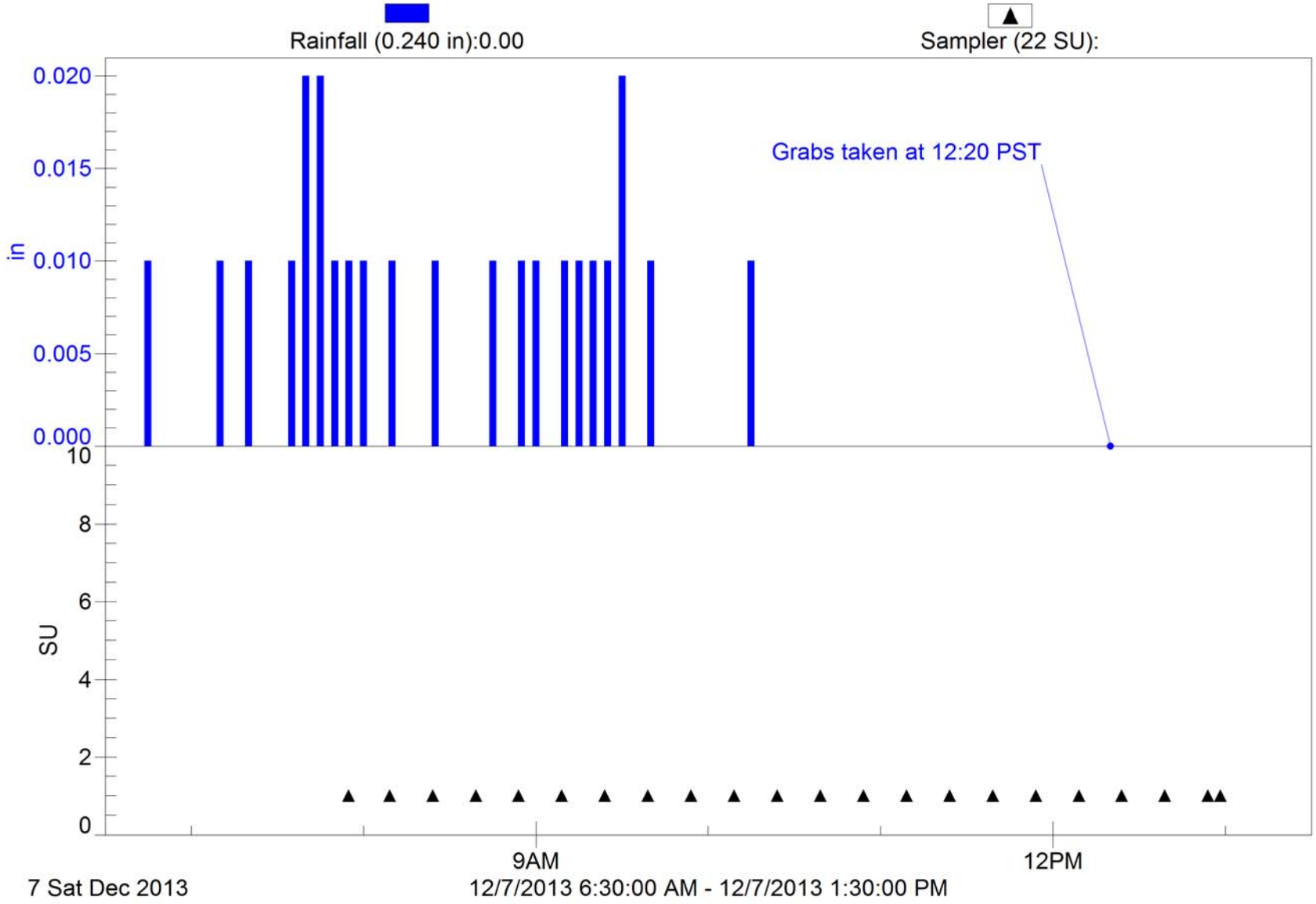

Meiners Oaks-1
2013/14 NPDES Event #1 (Wet)
4230 Flow Rate (27468.8 cf):1.04
Sampler (0 SU):
Rainfall (0.310 in):0.00
Grabs taken at 11:55 PST
Filled composite manually due to very low flow
SU
cfs
in
10
8
6
4
2
0
1.18
1.16
1.14
1.12
1.10
1.08
1.06
1.04
0.020
0.015
0.010
0.005
0.000
6AM
9AM
12PM
7 Sat Dec 2013
12/7/2013 5:20:00 AM - 12/7/2013 12:20:00 PM

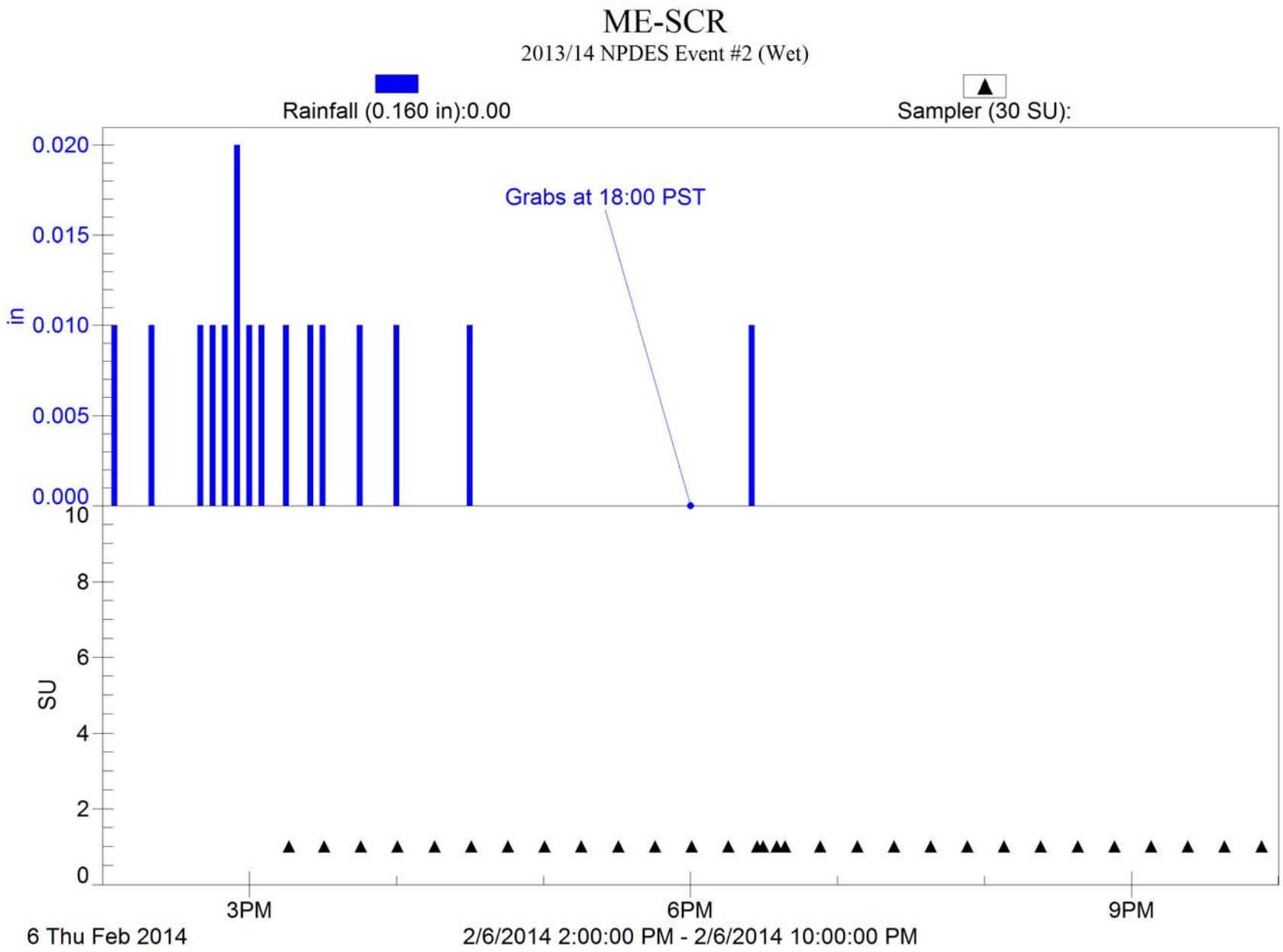

Meiners Oaks-1
2013/14 NPDES Event #2 (Wet)
4230 Flow Rate (23315.8 cf):1.26
Sampler (34 SU):
Rainfall (0.170 in):0.01
Grabs at 16:40 PST
SU
cfs
in
10
8
6
4
2
0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
0.020
0.015
0.010
0.005
0.000
1PM
2PM
3PM
4PM
5PM
6 Thu Feb 2014
2/6/2014 12:43:00 PM - 2/6/2014 5:43:00 PM


Meiners Oaks-1
2013/14 NPDES Event #3 (Wet)
4230 Flow Rate (373088 cf):1.07
Sampler (35 SU):
Rainfall (1.660 in):0.00
SU
cfs
in
Grabs taken at 02:00 PST
6PM
9PM
27 Thu
3AM
26 Wed Feb 2014
2/26/2014 5:40:00 PM - 2/27/2014 5:40:00 AM

ME-SCR

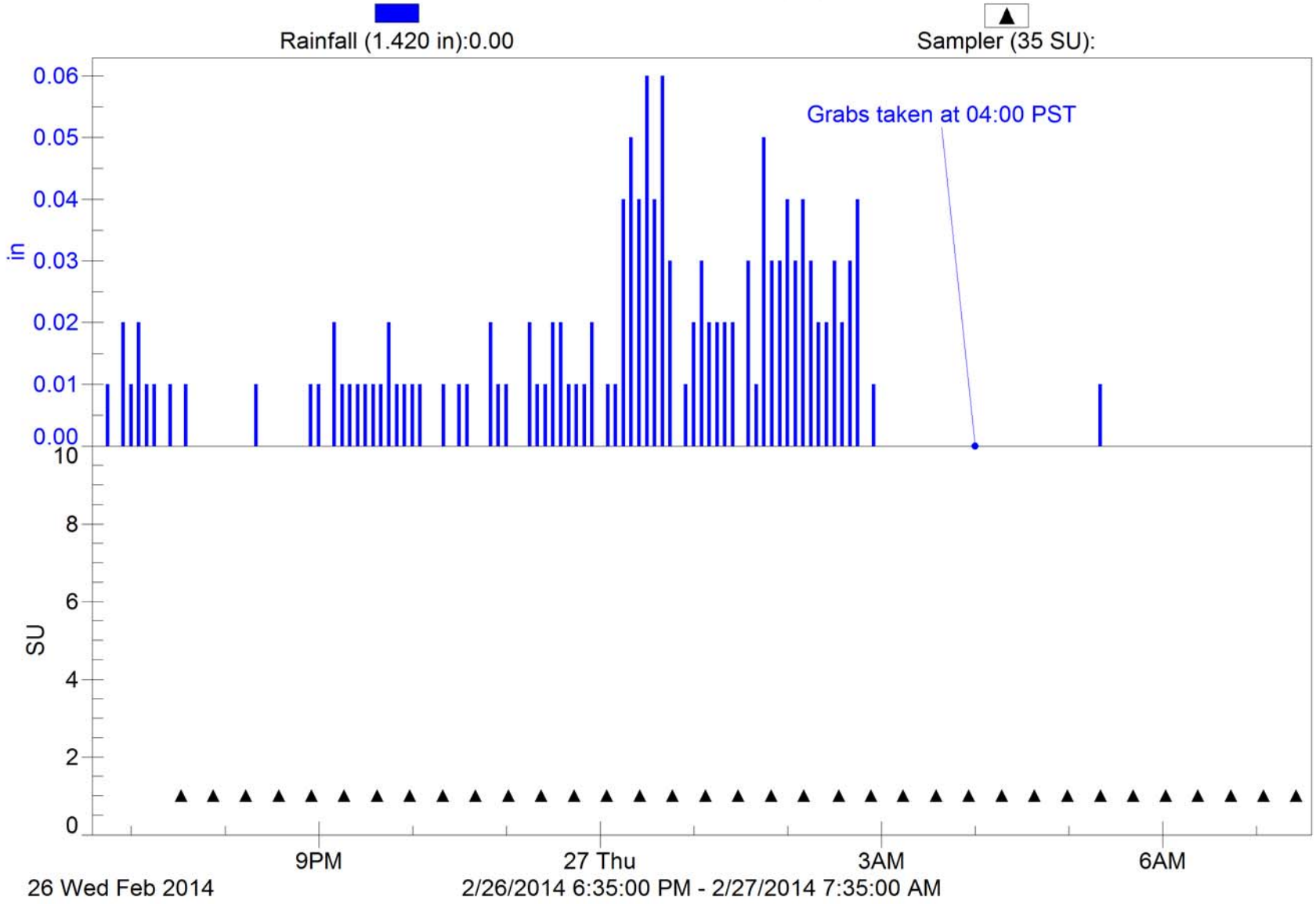
2013/14 NPDES Event #1 (Wet)




ME-SCR
2013/14 NPDES Event #2 (Wet)
Rainfall (0.160 in):0.00
Sampler (30 SU):
Grabs at 18:00 PST
in
0.020
0.015
0.010
0.005
0.000
SU
10
8
6
4
2
0
3PM
6PM
9PM
6 Thu Feb 2014
2/6/2014 2:00:00 PM - 2/6/2014 10:00:00 PM

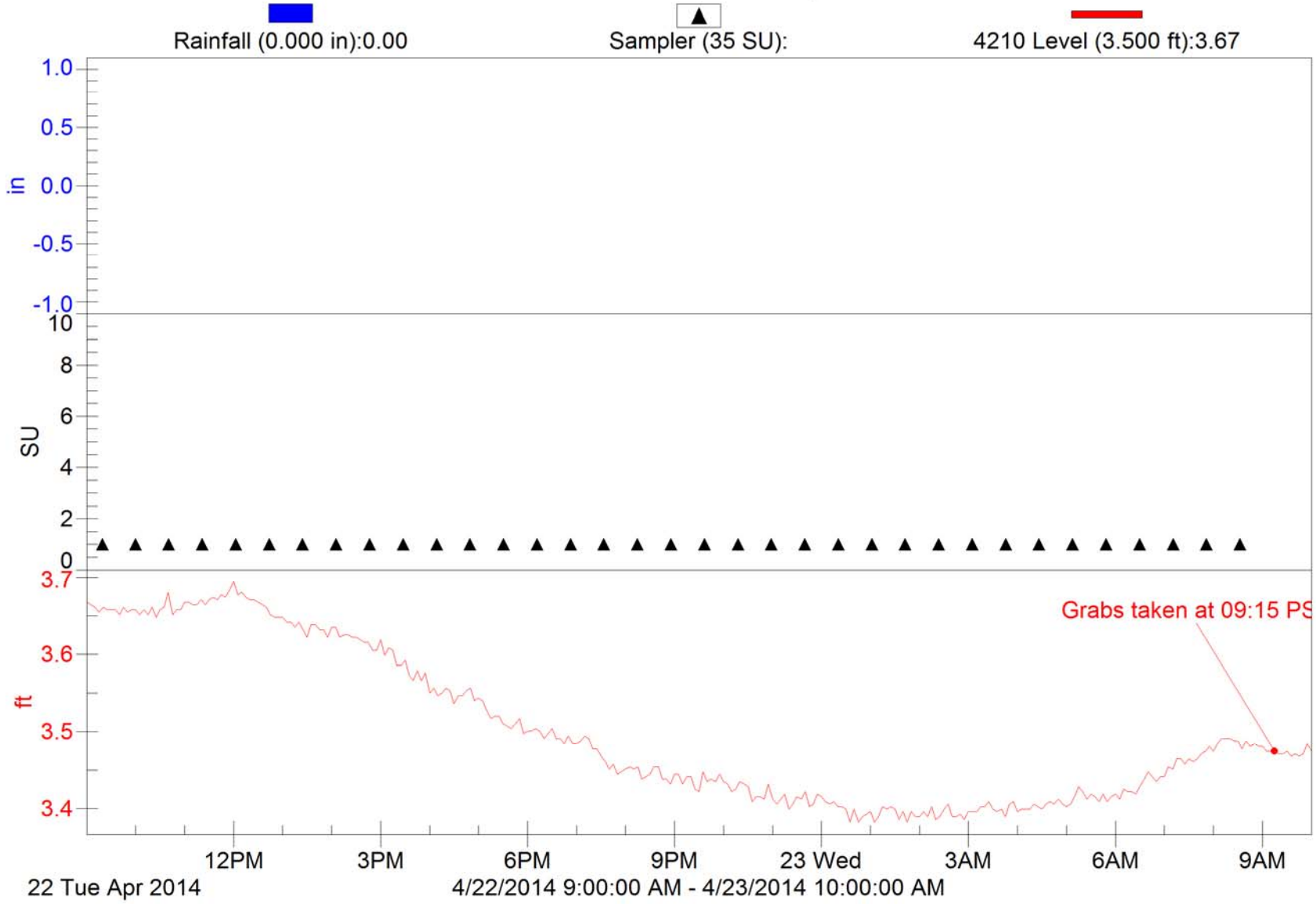
ME-SCR

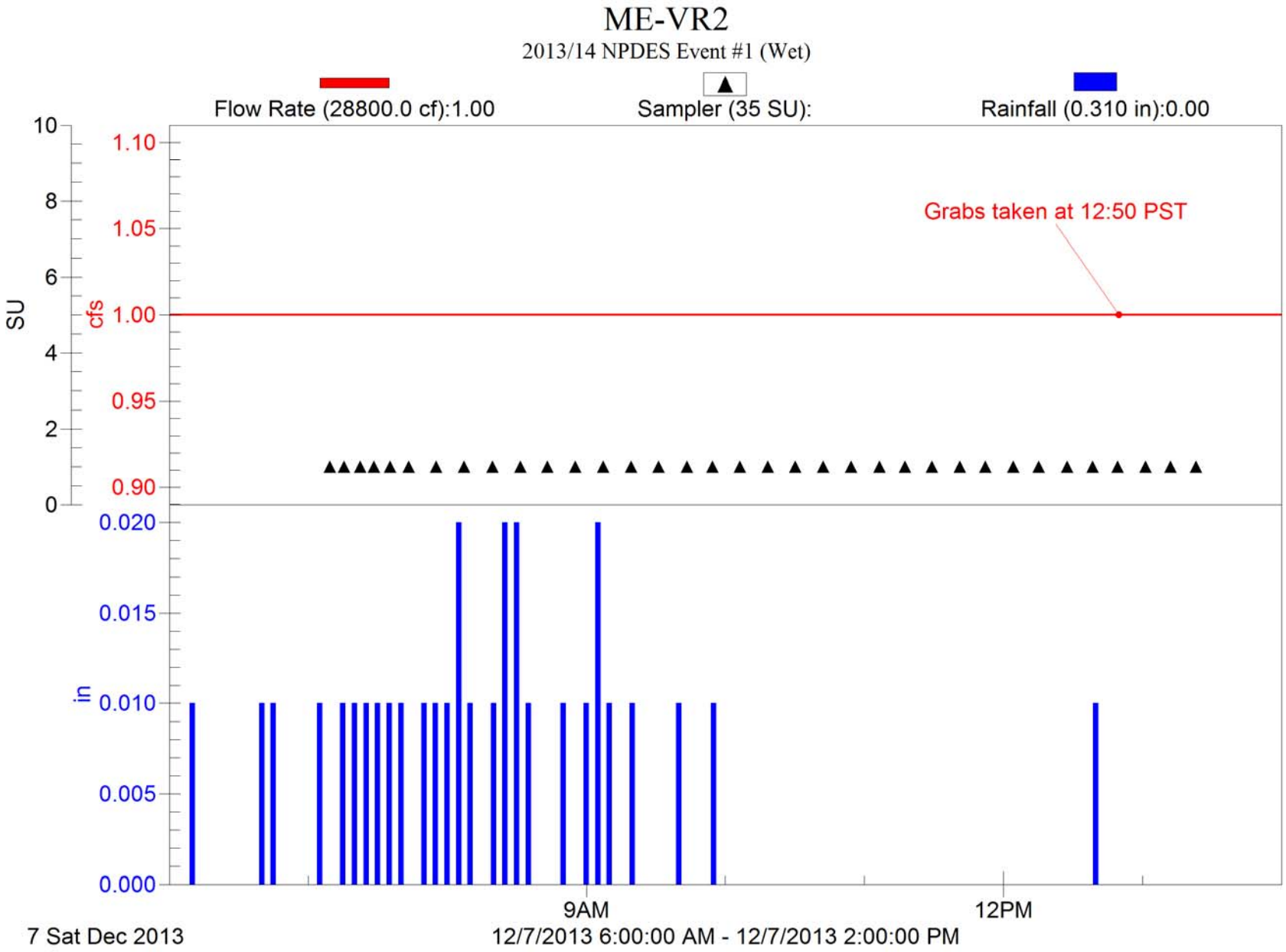
2013/14 NPDES Event #3 (Wet)

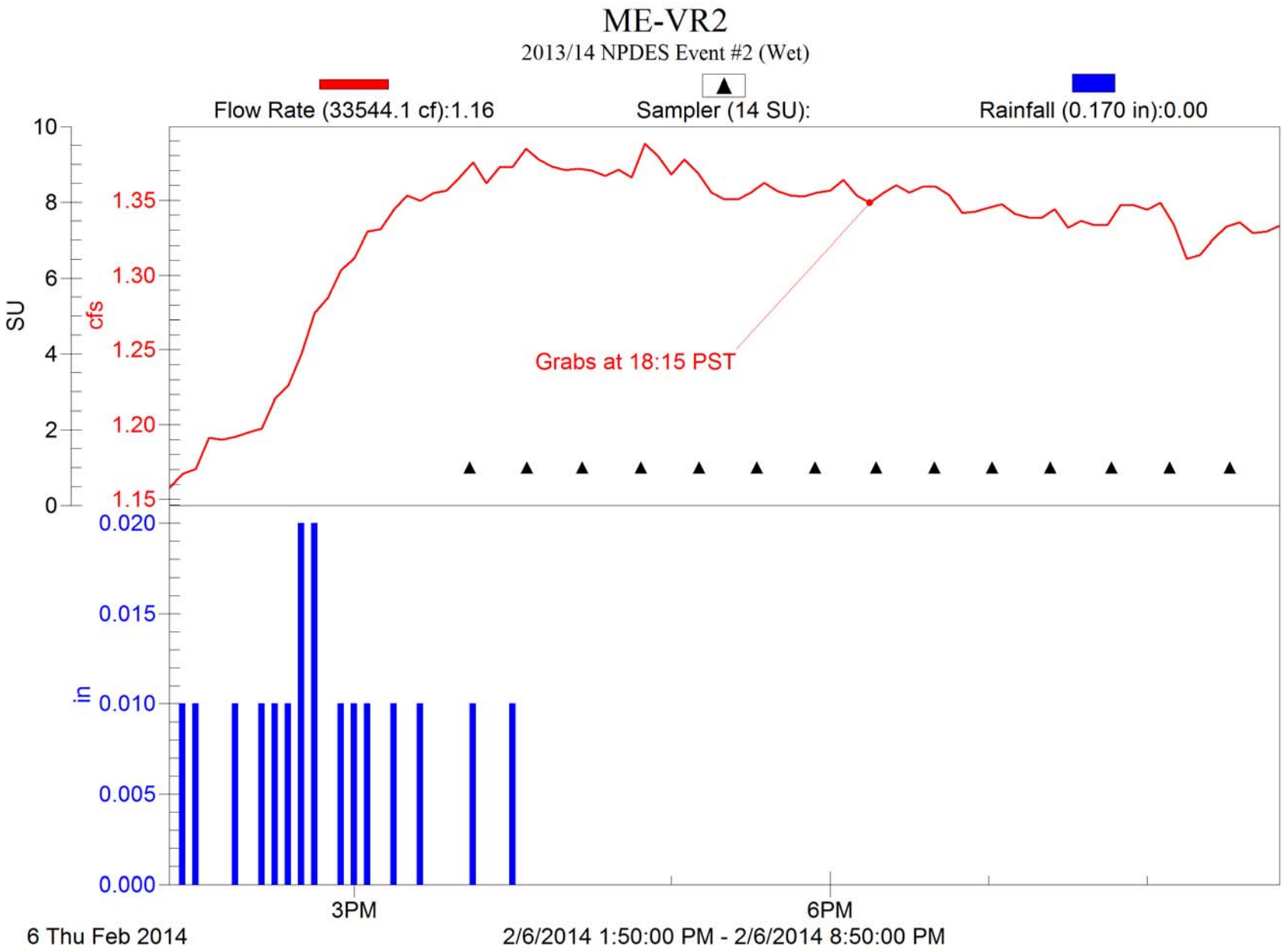


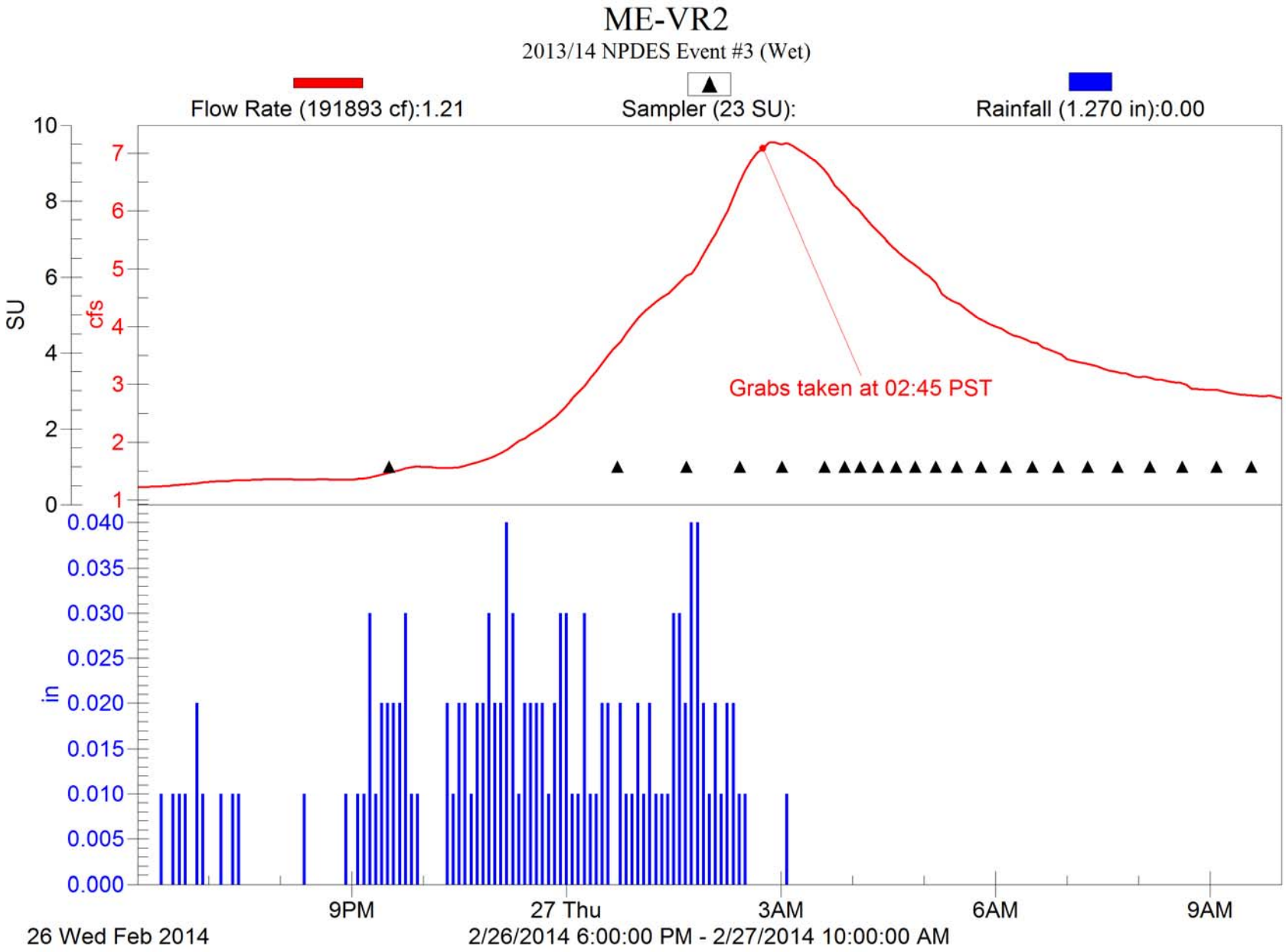
ME-SCR

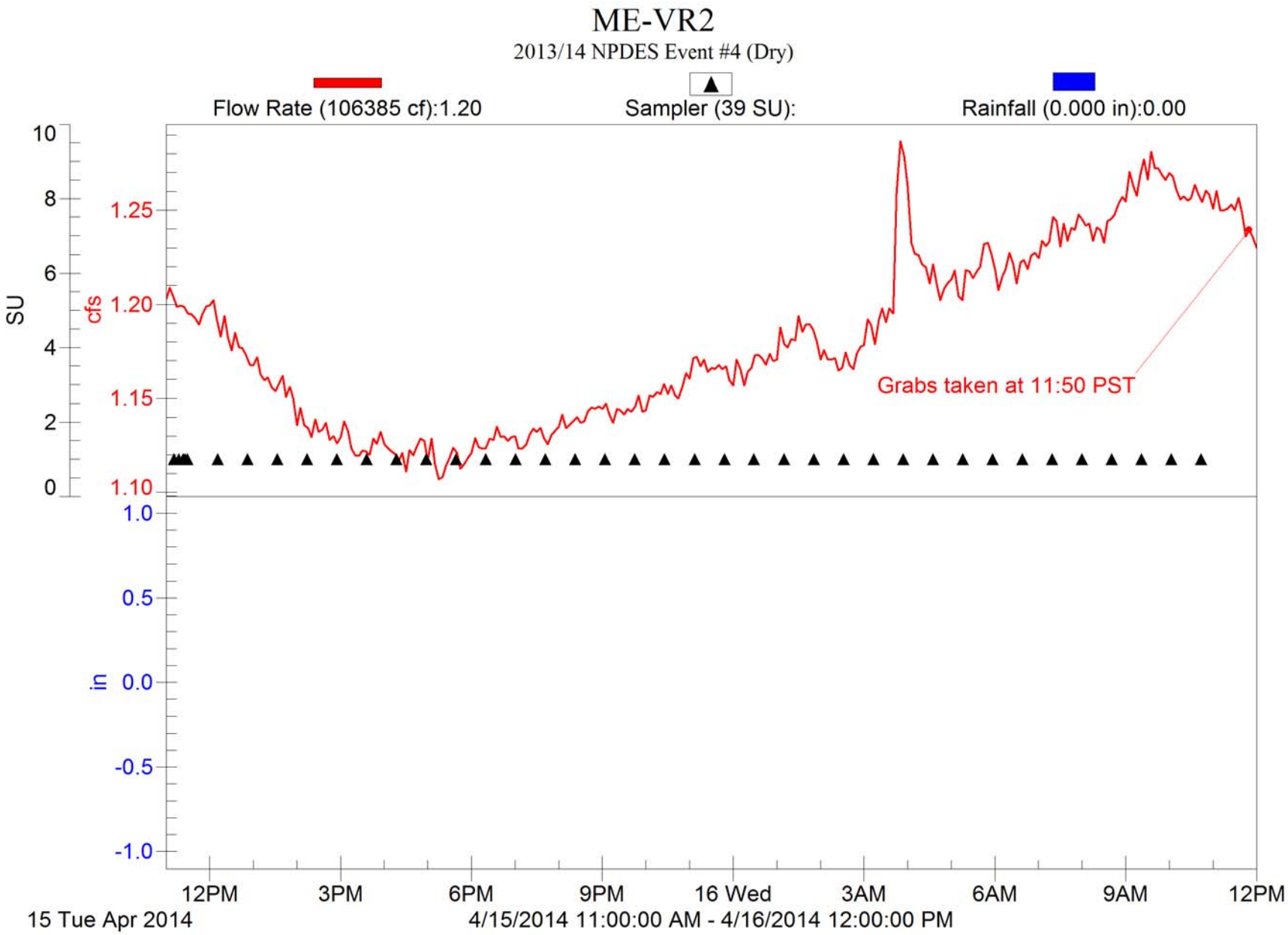
2013/14 NPDES Event #4 (Dry)

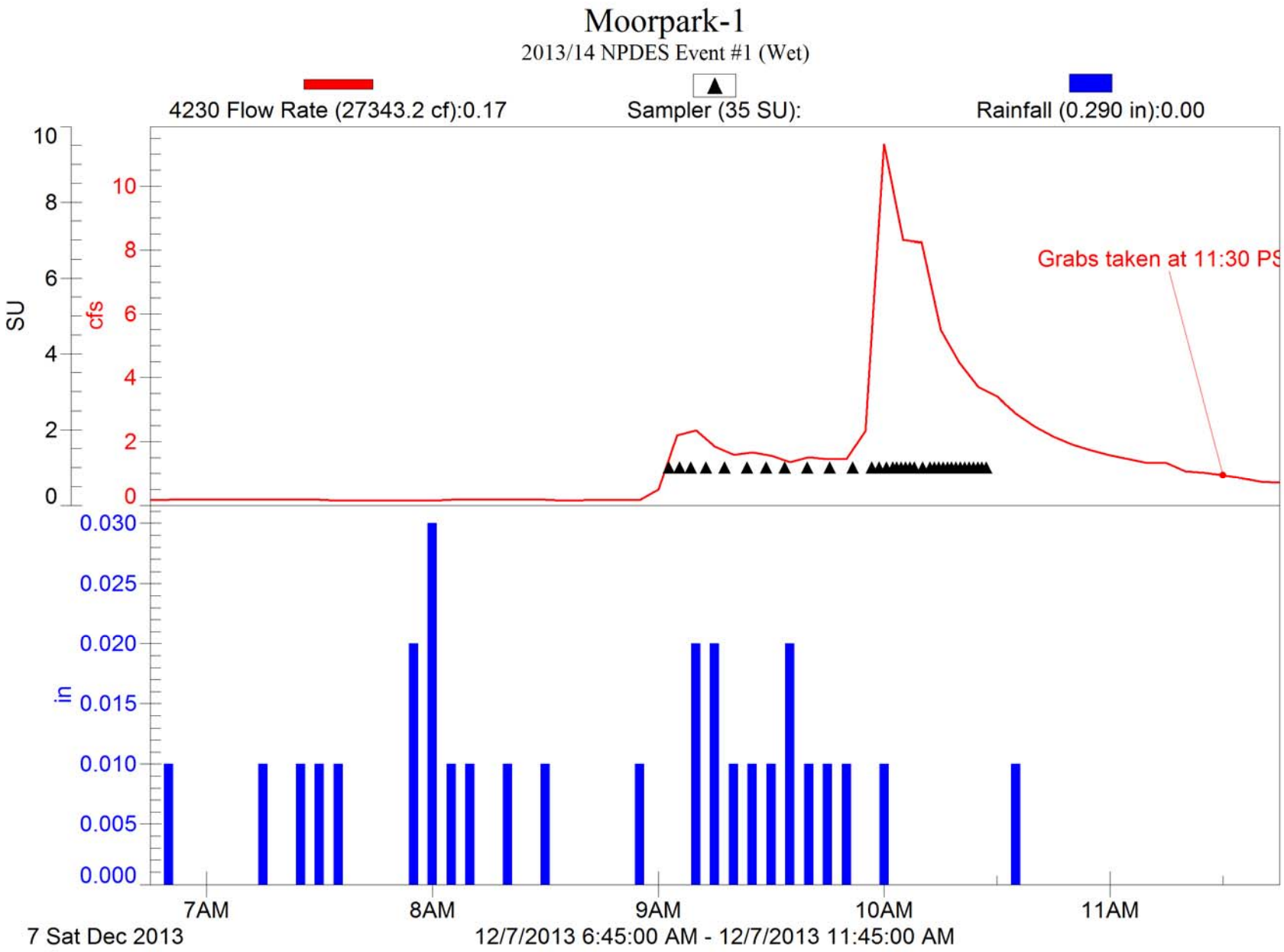


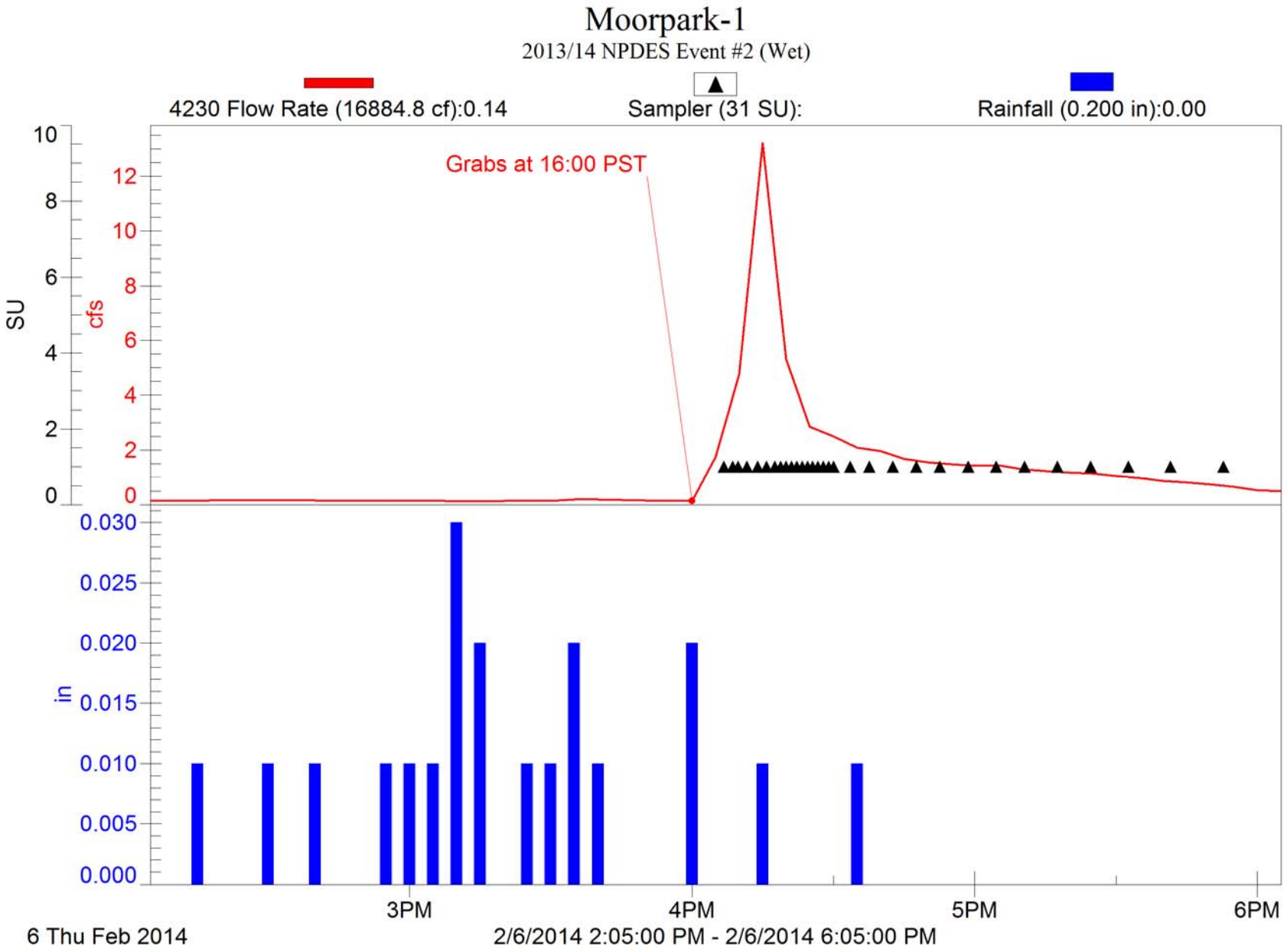

ME-VR2
2013/14 NPDES Event #1 (Wet)
Flow Rate (28800.0 cf):1.00
Sampler (35 SU):
Rainfall (0.310 in):0.00
Grabs taken at 12:50 PST
SU
cfs
in
10
8
6
4
2
0
1.10
1.05
1.00
0.95
0.90
0.020
0.015
0.010
0.005
0.000
9AM
12PM
7 Sat Dec 2013
12/7/2013 6:00:00 AM - 12/7/2013 2:00:00 PM

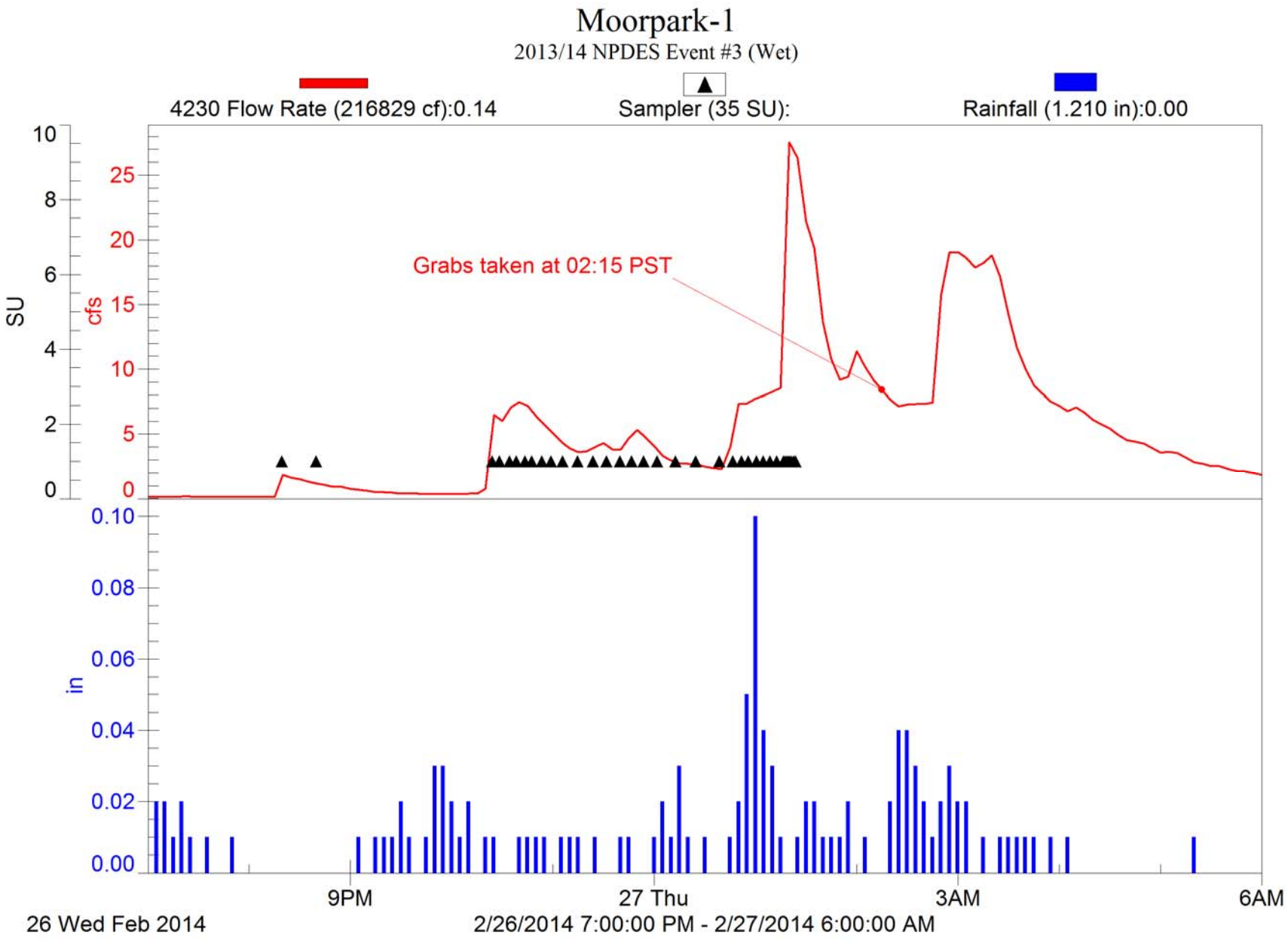

ME-VR2
2013/14 NPDES Event #2 (Wet)
Flow Rate (33544.1 cf):1.16
Sampler (14 SU):
Rainfall (0.170 in):0.00
SU
cfs
in
Grabs at 18:15 PST
3PM
6PM
6 Thu Feb 2014
2/6/2014 1:50:00 PM - 2/6/2014 8:50:00 PM

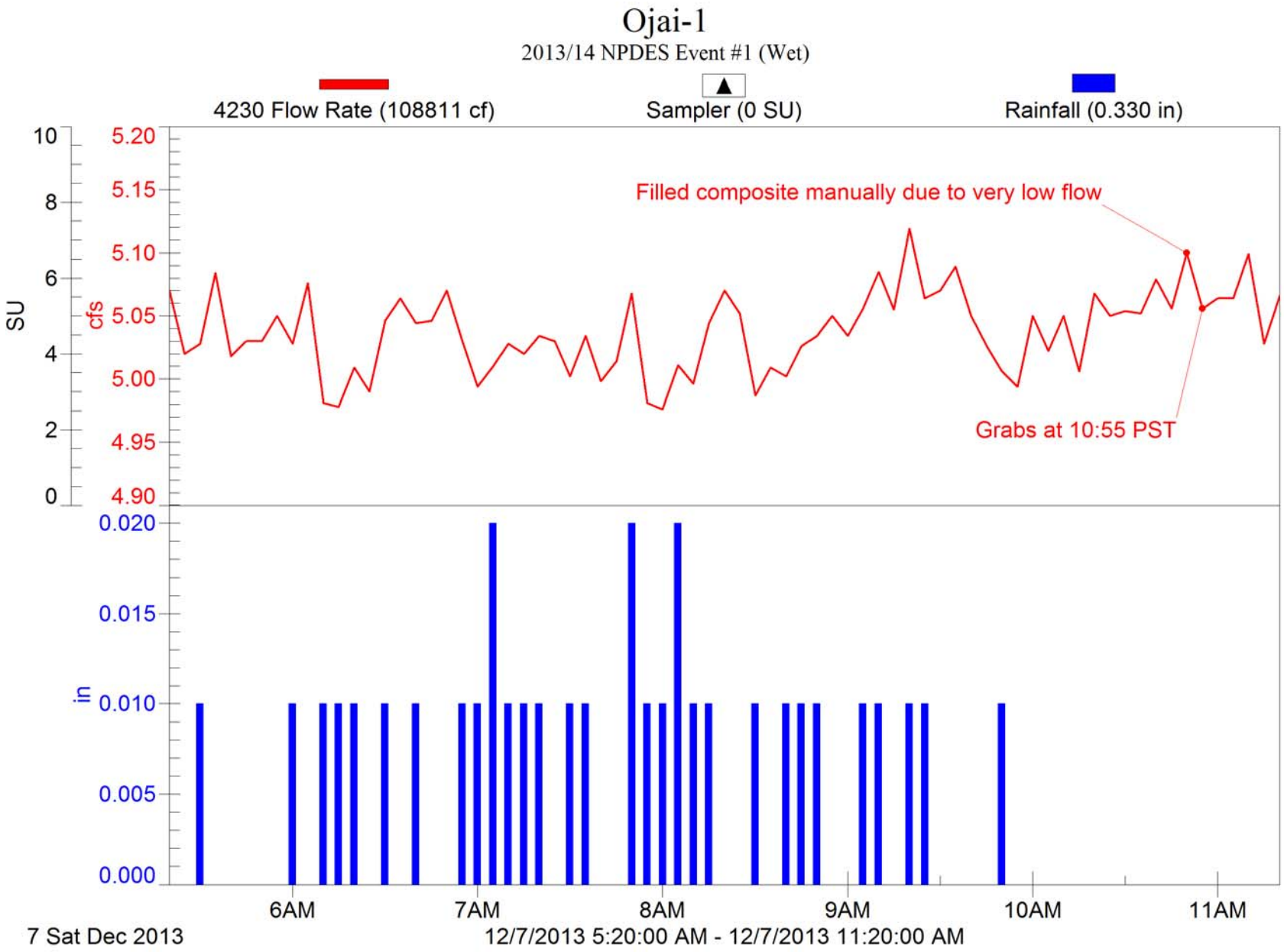

ME-VR2
2013/14 NPDES Event #3 (Wet)
Flow Rate (191893 cf):1.21
Sampler (23 SU):
Rainfall (1.270 in):0.00
SU
cfs
in
Grabs taken at 02:45 PST
9PM
27 Thu
3AM
6AM
9AM
26 Wed Feb 2014
2/26/2014 6:00:00 PM - 2/27/2014 10:00:00 AM

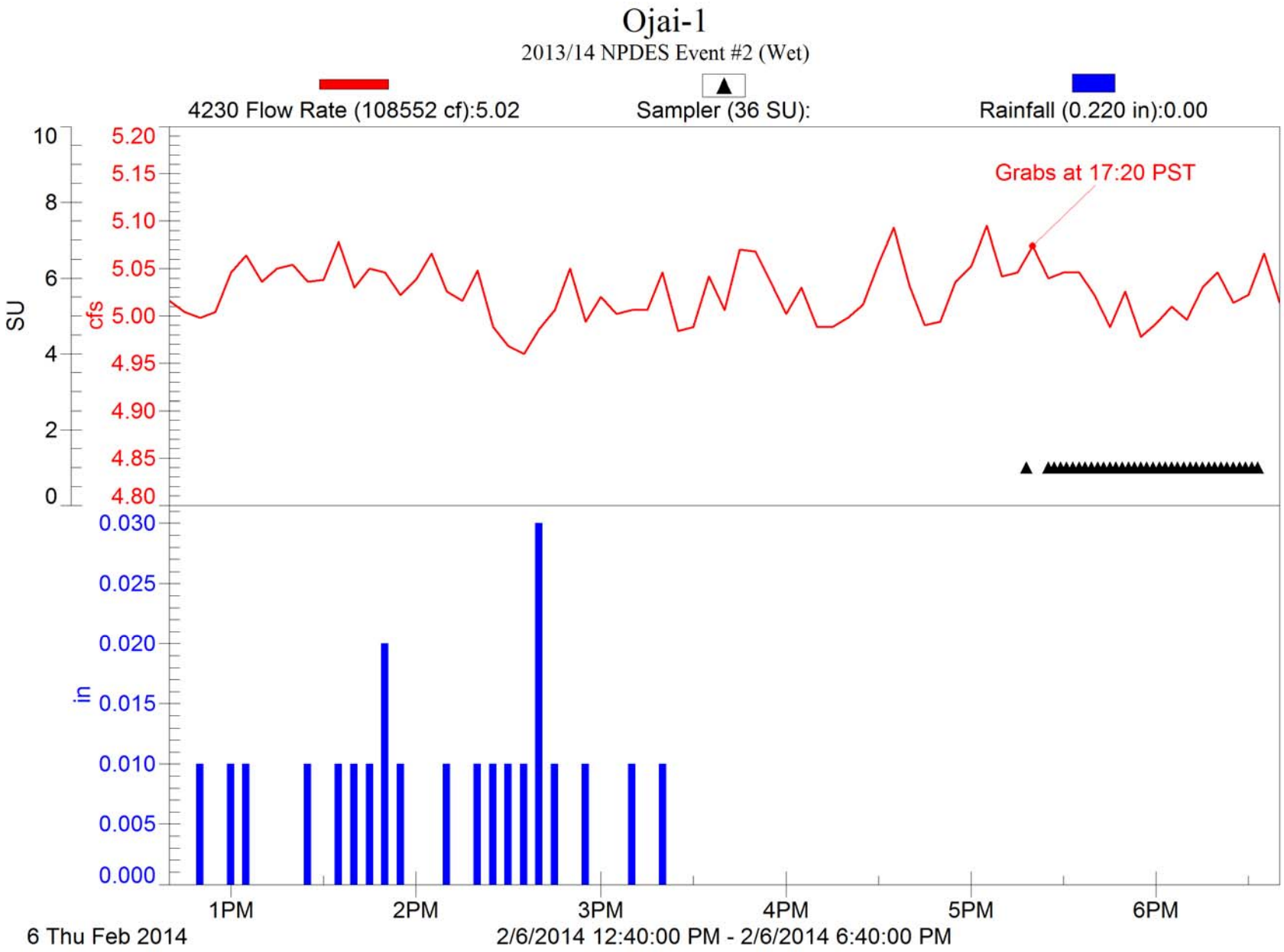

ME-VR2
2013/14 NPDES Event #4 (Dry)
Flow Rate (106385 cf):1.20
Sampler (39 SU):
Rainfall (0.000 in):0.00
SU
cfs
in
Grabs taken at 11:50 PST
12PM
3PM
6PM
9PM
16 Wed
3AM
6AM
9AM
12PM
15 Tue Apr 2014
4/15/2014 11:00:00 AM - 4/16/2014 12:00:00 PM

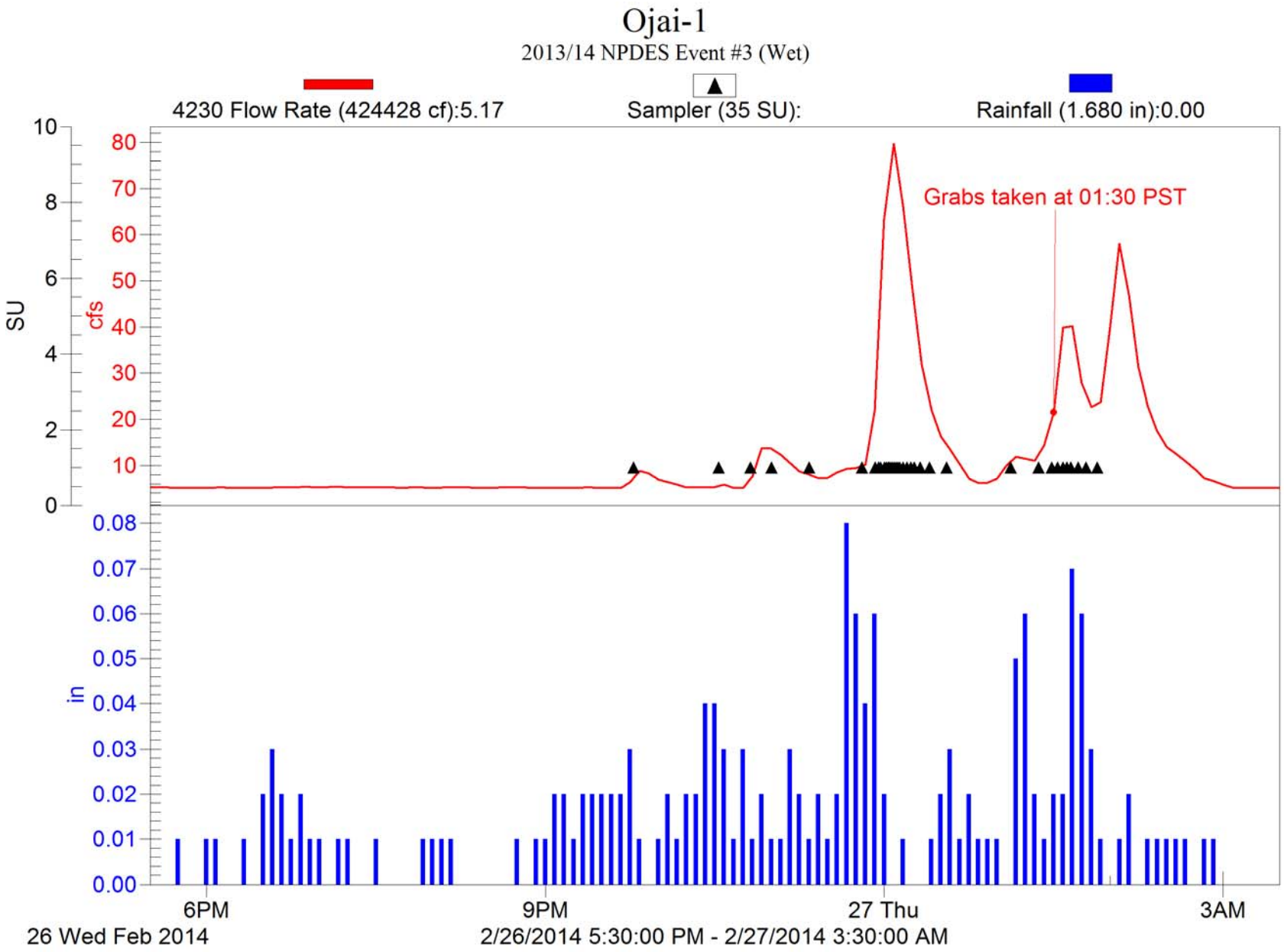

Moorpark-1
2013/14 NPDES Event #1 (Wet)
4230 Flow Rate (27343.2 cf):0.17
Sampler (35 SU):
Rainfall (0.290 in):0.00
SU
cfs
in
Grabs taken at 11:30 PS
7AM
8AM
9AM
10AM
11AM
7 Sat Dec 2013
12/7/2013 6:45:00 AM - 12/7/2013 11:45:00 AM

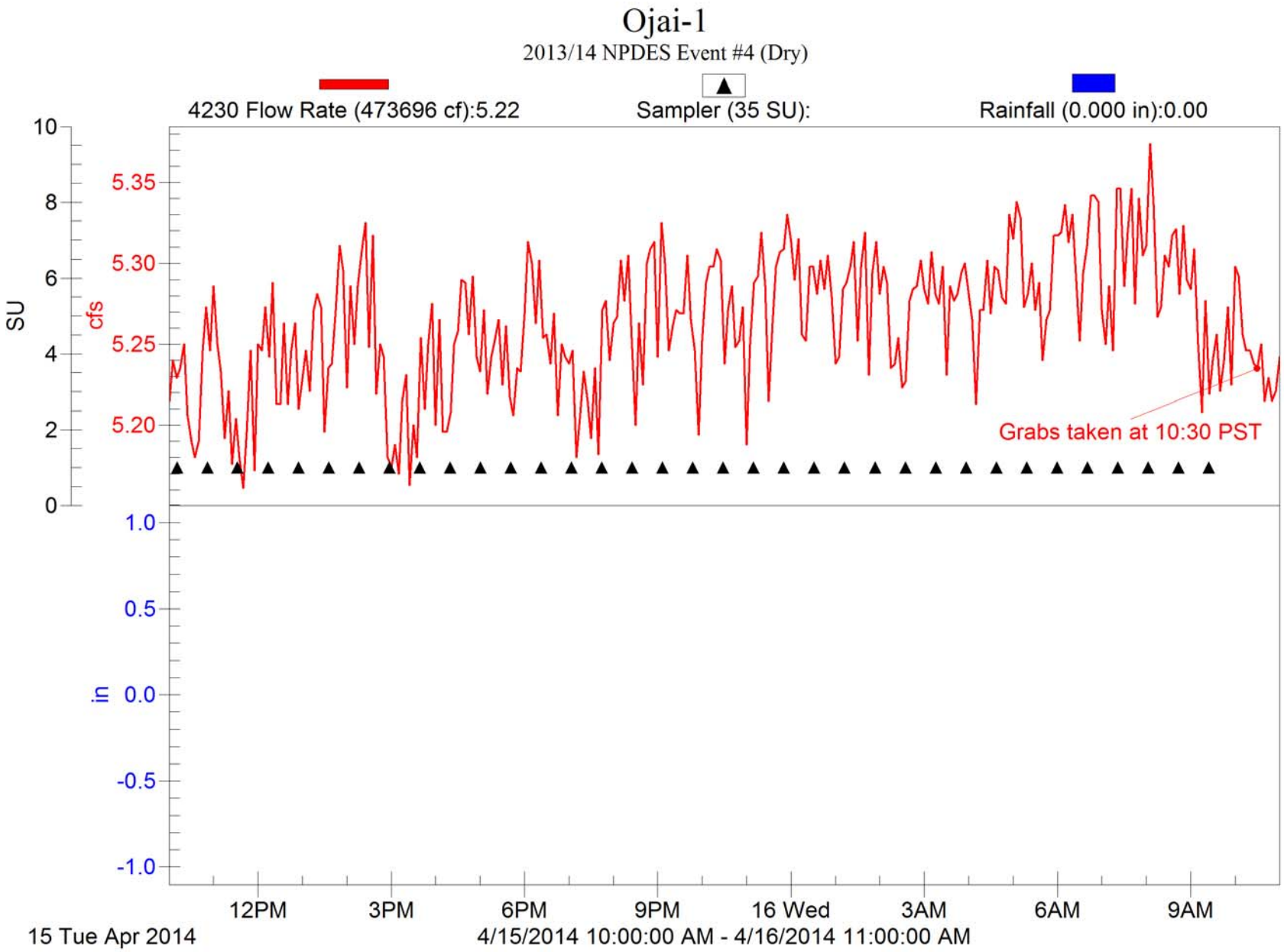

Moorpark-1
2013/14 NPDES Event #2 (Wet)
4230 Flow Rate (16884.8 cf):0.14
Sampler (31 SU):
Rainfall (0.200 in):0.00
Grabs at 16:00 PST
SU
cfs
in
0
2
4
6
8
10
12
0.000
0.005
0.010
0.015
0.020
0.025
0.030
3PM
4PM
5PM
6PM
6 Thu Feb 2014
2/6/2014 2:05:00 PM - 2/6/2014 6:05:00 PM

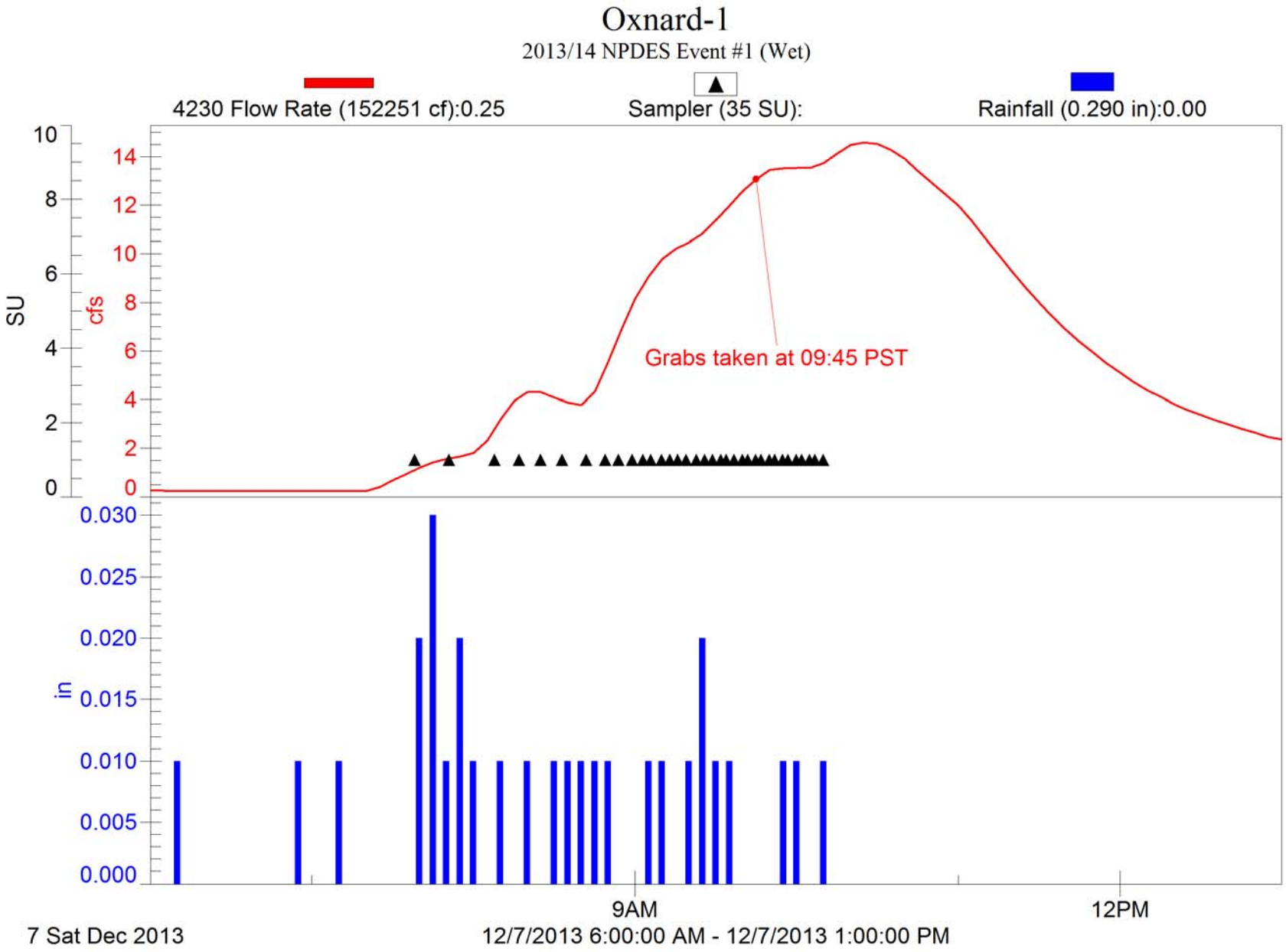

Moorpark-1
2013/14 NPDES Event #3 (Wet)
4230 Flow Rate (216829 cf):0.14
Sampler (35 SU):
Rainfall (1.210 in):0.00
SU
cfs
in
Grabs taken at 02:15 PST
9PM
27 Thu
3AM
6AM
26 Wed Feb 2014
2/26/2014 7:00:00 PM - 2/27/2014 6:00:00 AM

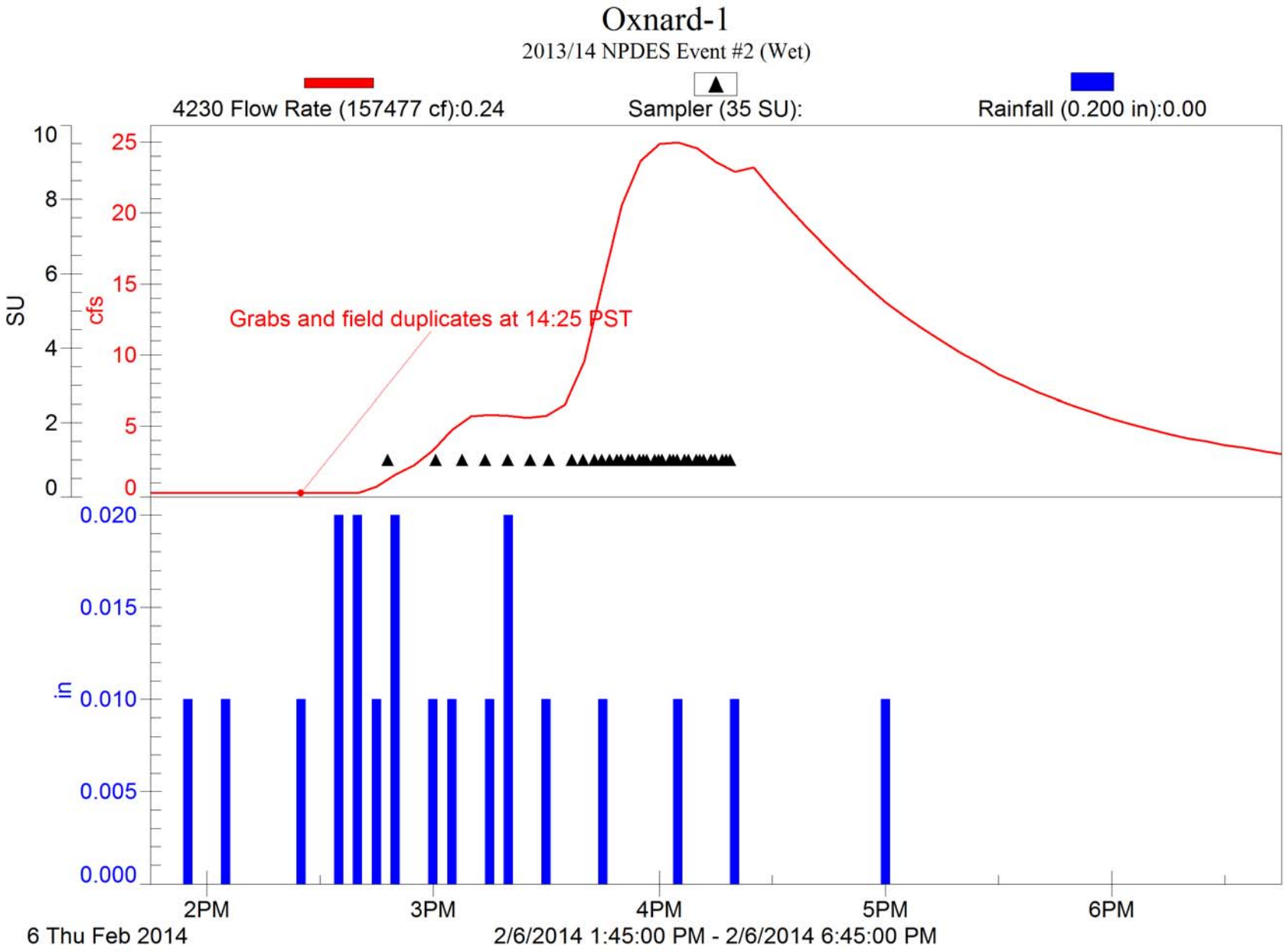

Ojai-1
2013/14 NPDES Event #1 (Wet)
4230 Flow Rate (108811 cf)
Sampler (0 SU)
Rainfall (0.330 in)
SU
cfs
in
Filled composite manually due to very low flow
Grabs at 10:55 PST
6AM
7AM
8AM
9AM
10AM
11AM
7 Sat Dec 2013
12/7/2013 5:20:00 AM - 12/7/2013 11:20:00 AM

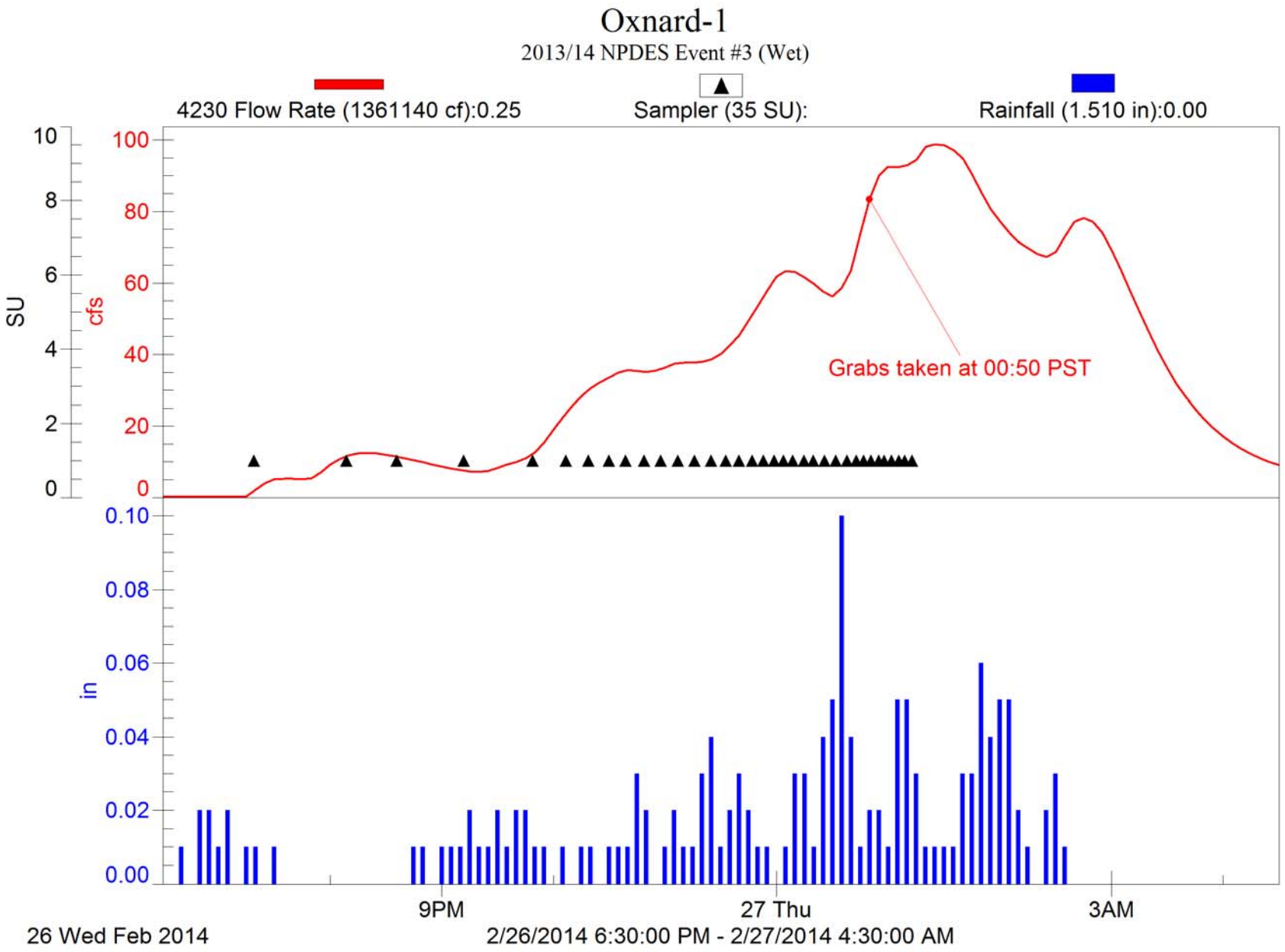

Ojai-1
2013/14 NPDES Event #2 (Wet)
4230 Flow Rate (108552 cf):5.02
Sampler (36 SU):
Rainfall (0.220 in):0.00
Grabs at 17:20 PST
SU
cfs
in
10
8
6
4
2
0
5.20
5.15
5.10
5.05
5.00
4.95
4.90
4.85
4.80
0.030
0.025
0.020
0.015
0.010
0.005
0.000
1PM
2PM
3PM
4PM
5PM
6PM
6 Thu Feb 2014
2/6/2014 12:40:00 PM - 2/6/2014 6:40:00 PM

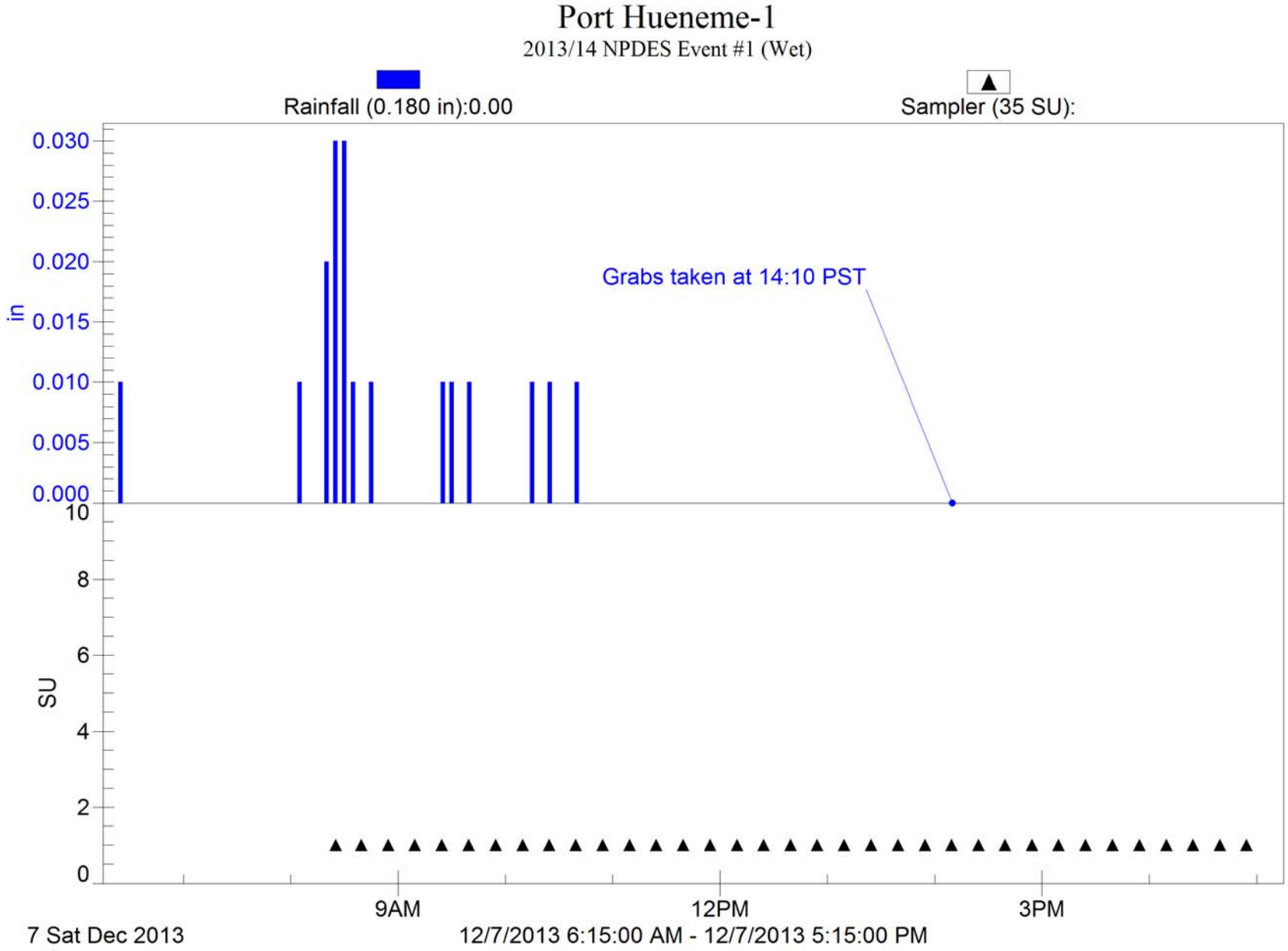

Ojai-1
2013/14 NPDES Event #3 (Wet)
4230 Flow Rate (424428 cf):5.17
Sampler (35 SU):
Rainfall (1.680 in):0.00
Grabs taken at 01:30 PST
SU
cfs
in
6PM
9PM
27 Thu
3AM
26 Wed Feb 2014
2/26/2014 5:30:00 PM - 2/27/2014 3:30:00 AM

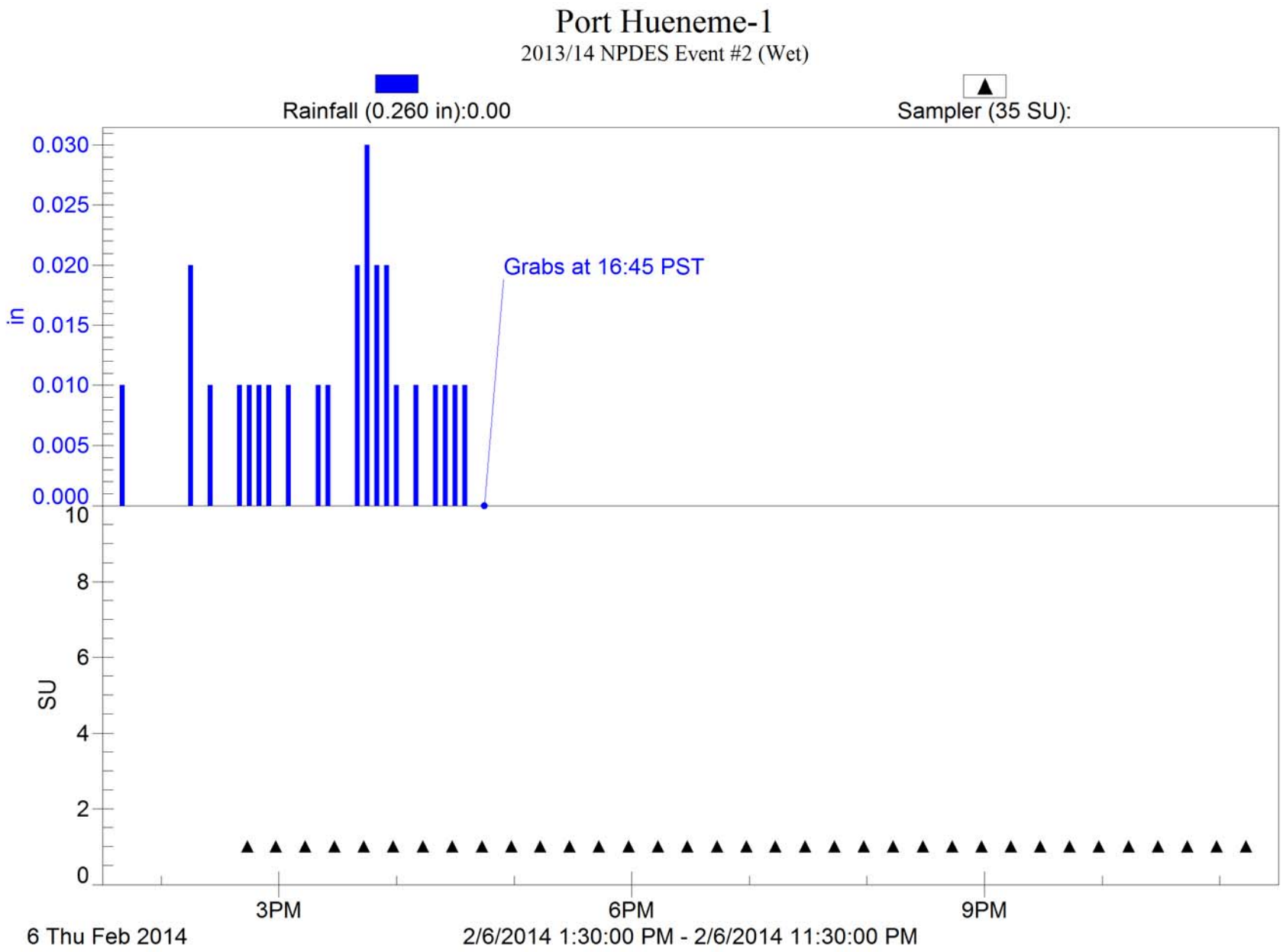

Ojai-1
2013/14 NPDES Event #4 (Dry)
4230 Flow Rate (473696 cf):5.22
Sampler (35 SU):
Rainfall (0.000 in):0.00
SU
cfs
in
10
8
6
4
2
0
5.35
5.30
5.25
5.20
1.0
0.5
0.0
-0.5
-1.0
Grabs taken at 10:30 PST
12PM
3PM
6PM
9PM
16 Wed
3AM
6AM
9AM
15 Tue Apr 2014
4/15/2014 10:00:00 AM - 4/16/2014 11:00:00 AM

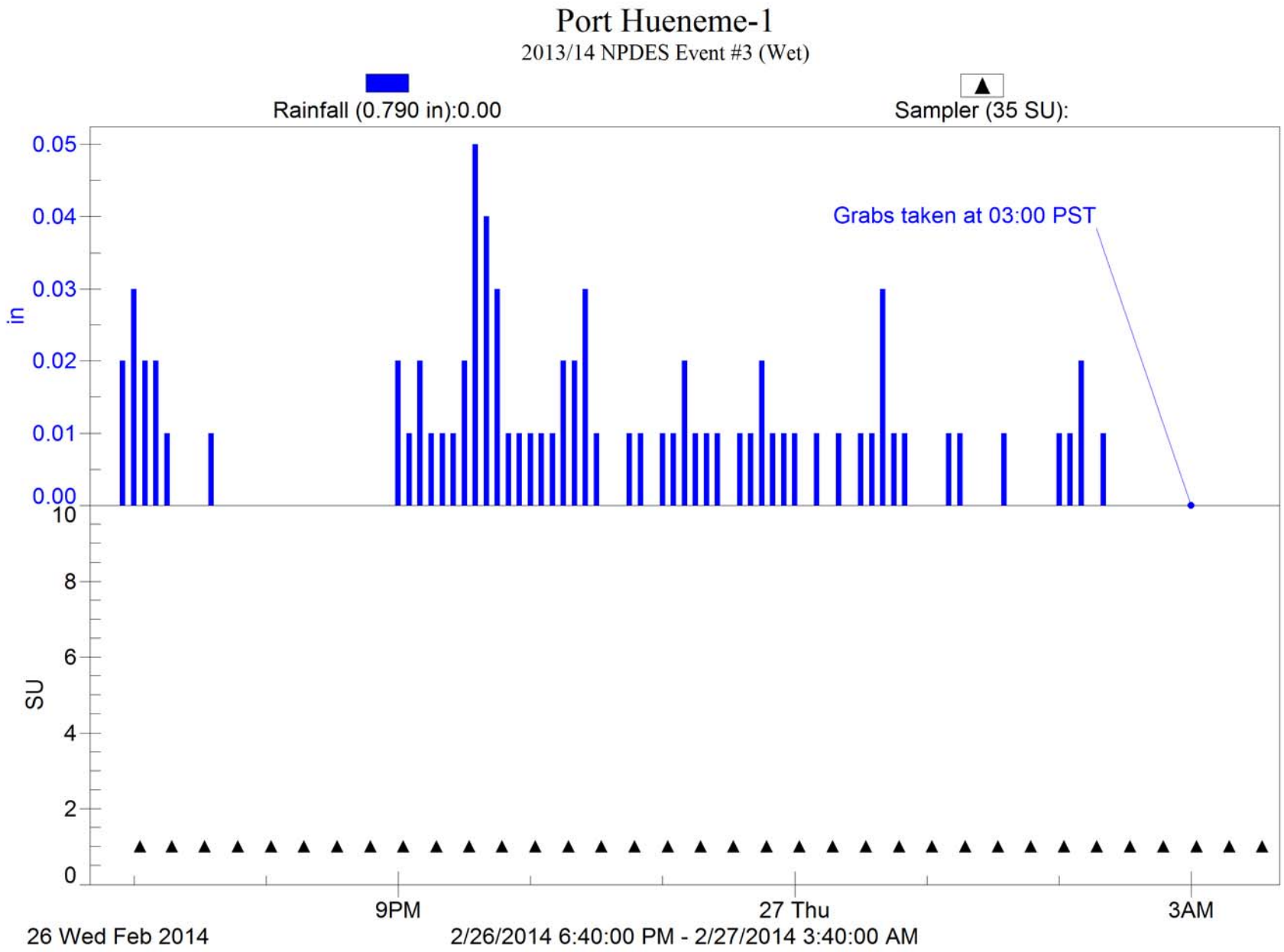

Oxnard-1
2013/14 NPDES Event #1 (Wet)
4230 Flow Rate (152251 cf):0.25
Sampler (35 SU):
Rainfall (0.290 in):0.00
SU
cfs
in
Grabs taken at 09:45 PST
9AM
12PM
7 Sat Dec 2013
12/7/2013 6:00:00 AM - 12/7/2013 1:00:00 PM


Oxnard-1
2013/14 NPDES Event #2 (Wet)
4230 Flow Rate (157477 cf):0.24
Sampler (35 SU):
Rainfall (0.200 in):0.00
SU
cfs
in
Grabs and field duplicates at 14:25 PST
2PM
3PM
4PM
5PM
6PM
6 Thu Feb 2014
2/6/2014 1:45:00 PM - 2/6/2014 6:45:00 PM


Oxnard-1
2013/14 NPDES Event #3 (Wet)
4230 Flow Rate (1361140 cf):0.25
Sampler (35 SU):
Rainfall (1.510 in):0.00
SU
cfs
in
Grabs taken at 00:50 PST
9PM
27 Thu
3AM
26 Wed Feb 2014
2/26/2014 6:30:00 PM - 2/27/2014 4:30:00 AM

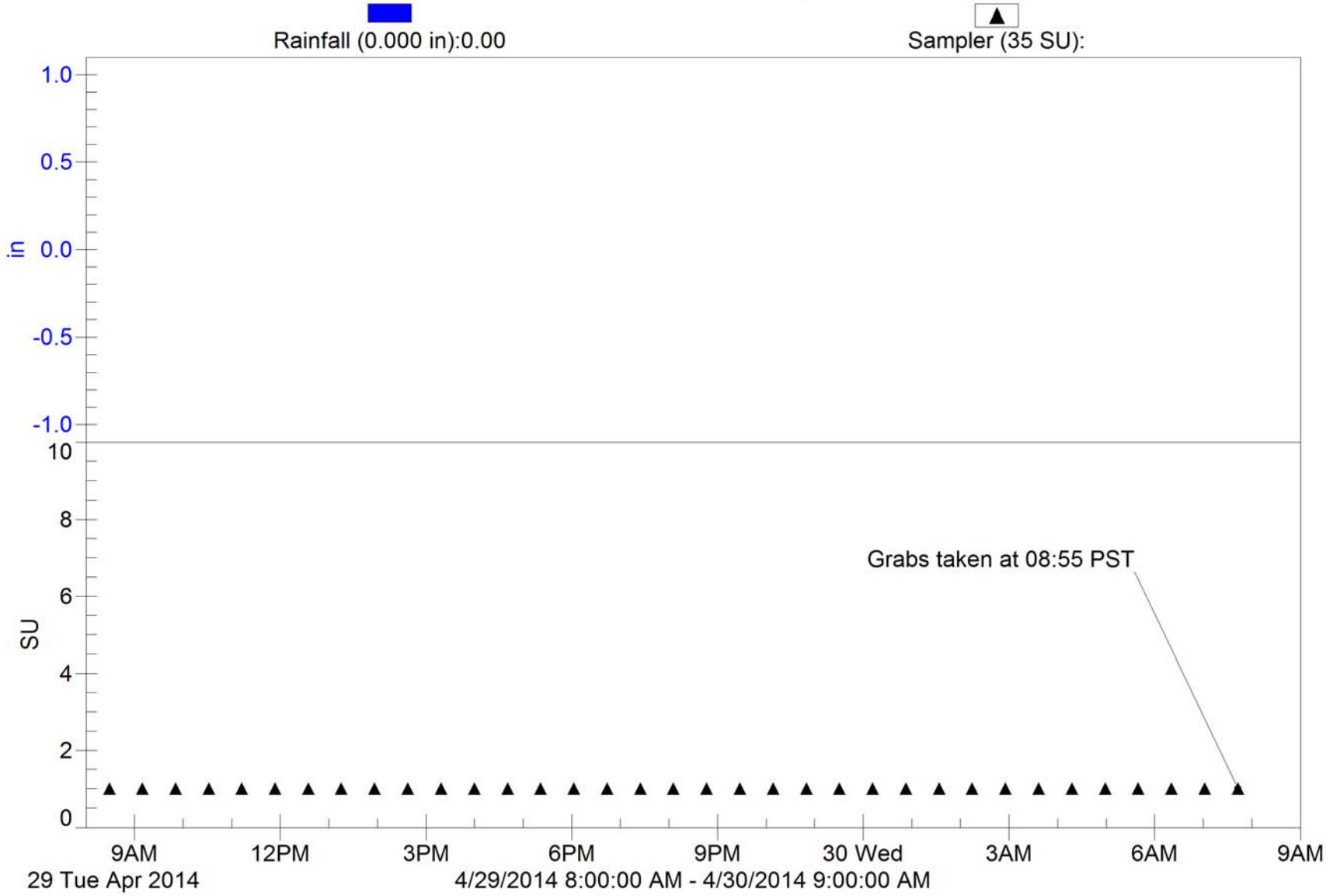

Port Hueneme-1
2013/14 NPDES Event #1 (Wet)
Rainfall (0.180 in):0.00
Sampler (35 SU):
0.030
0.025
0.020
0.015
0.010
0.005
0.000
in
Grabs taken at 14:10 PST
10
8
6
4
2
0
SU
9AM
12PM
3PM
7 Sat Dec 2013
12/7/2013 6:15:00 AM - 12/7/2013 5:15:00 PM

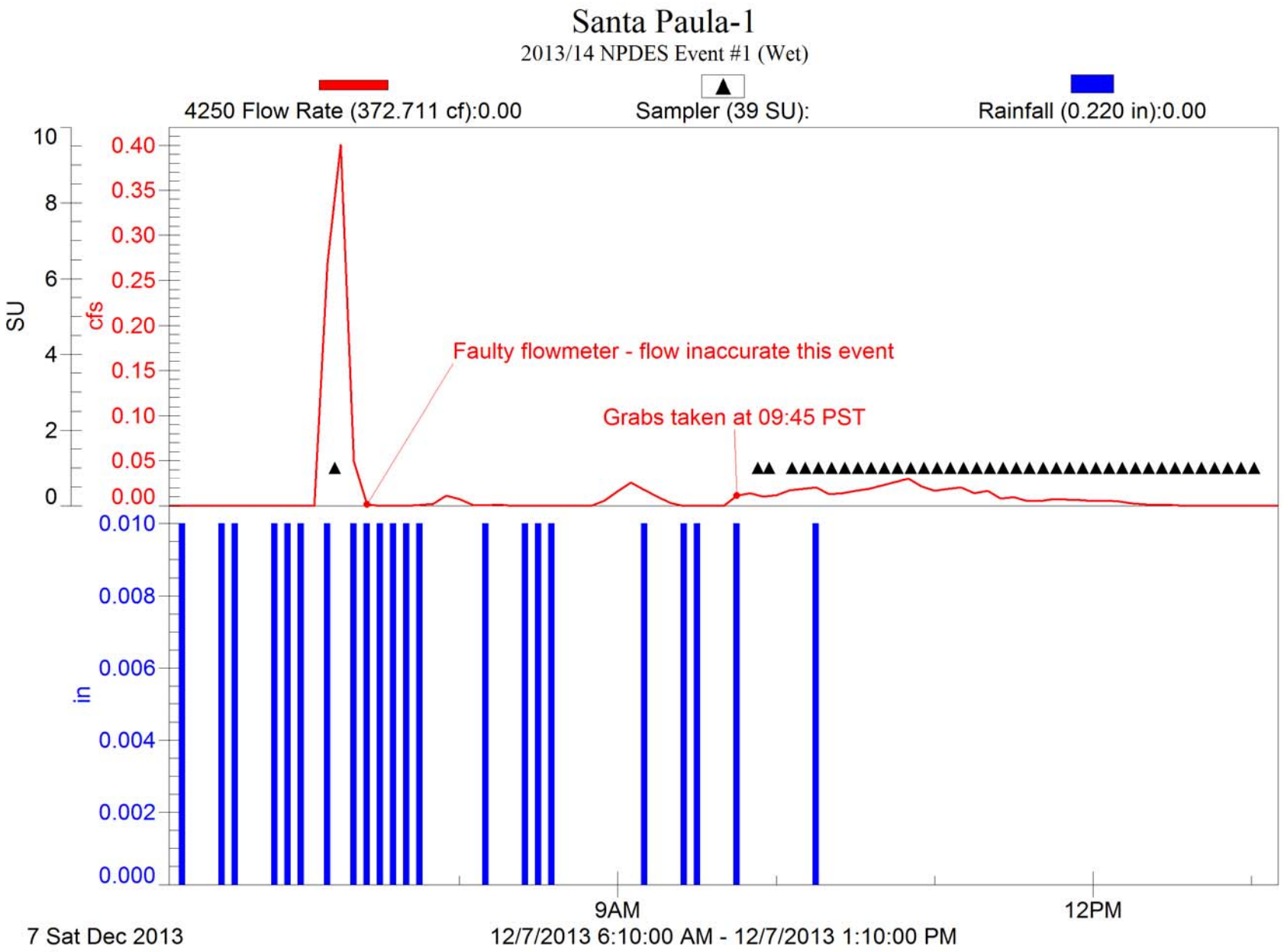

Port Hueneme-1
2013/14 NPDES Event #2 (Wet)
Rainfall (0.260 in):0.00
Sampler (35 SU):
0.030
0.025
0.020
0.015
0.010
0.005
0.000
in
Grabs at 16:45 PST
10
8
6
4
2
0
SU
3PM
6PM
9PM
6 Thu Feb 2014
2/6/2014 1:30:00 PM - 2/6/2014 11:30:00 PM

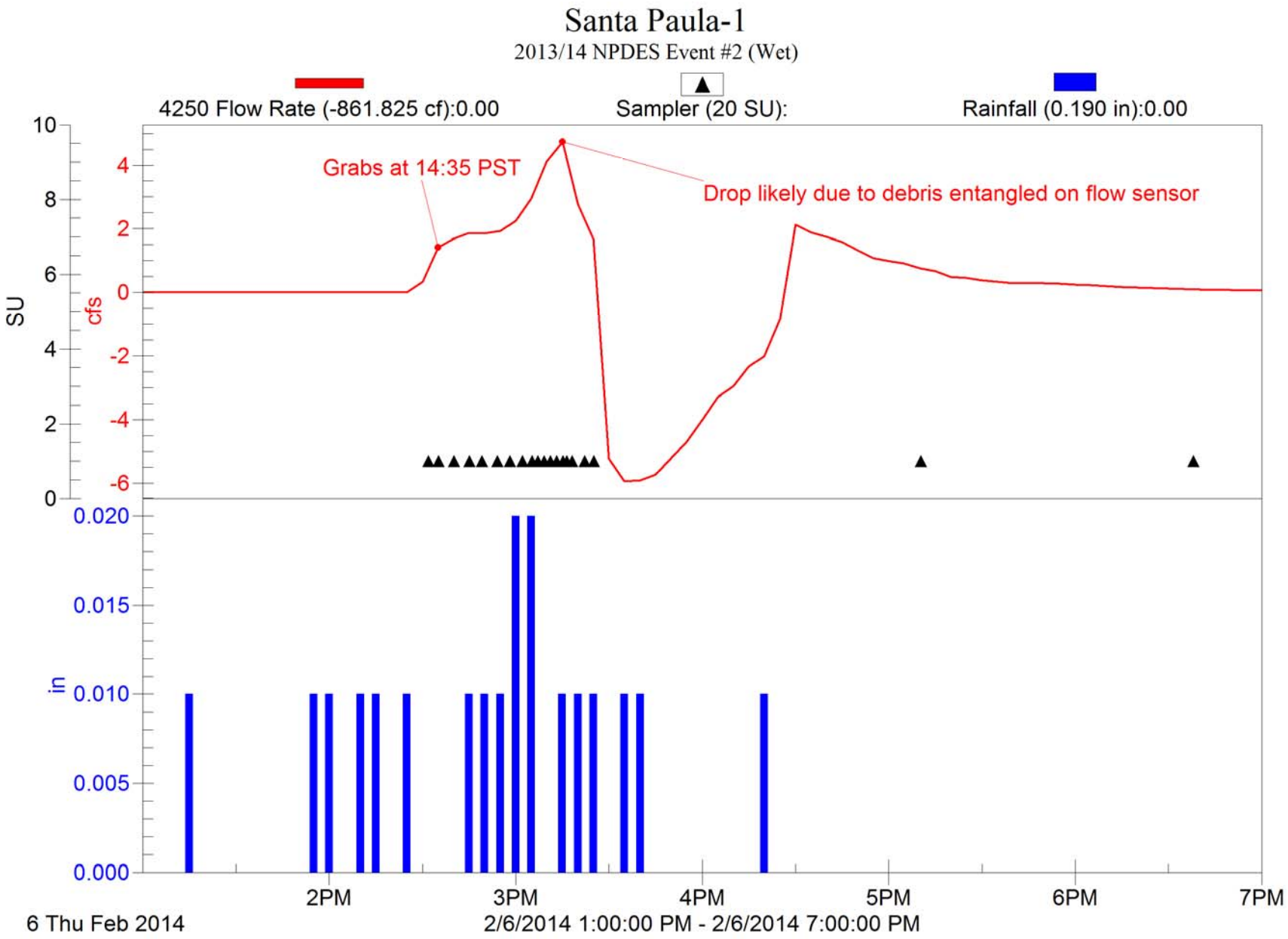

Port Hueneme-1
2013/14 NPDES Event #3 (Wet)
Rainfall (0.790 in):0.00
Sampler (35 SU):
Grabs taken at 03:00 PST
in
0.05
0.04
0.03
0.02
0.01
0.00
SU
10
8
6
4
2
0
9PM
27 Thu
3AM
26 Wed Feb 2014
2/26/2014 6:40:00 PM - 2/27/2014 3:40:00 AM

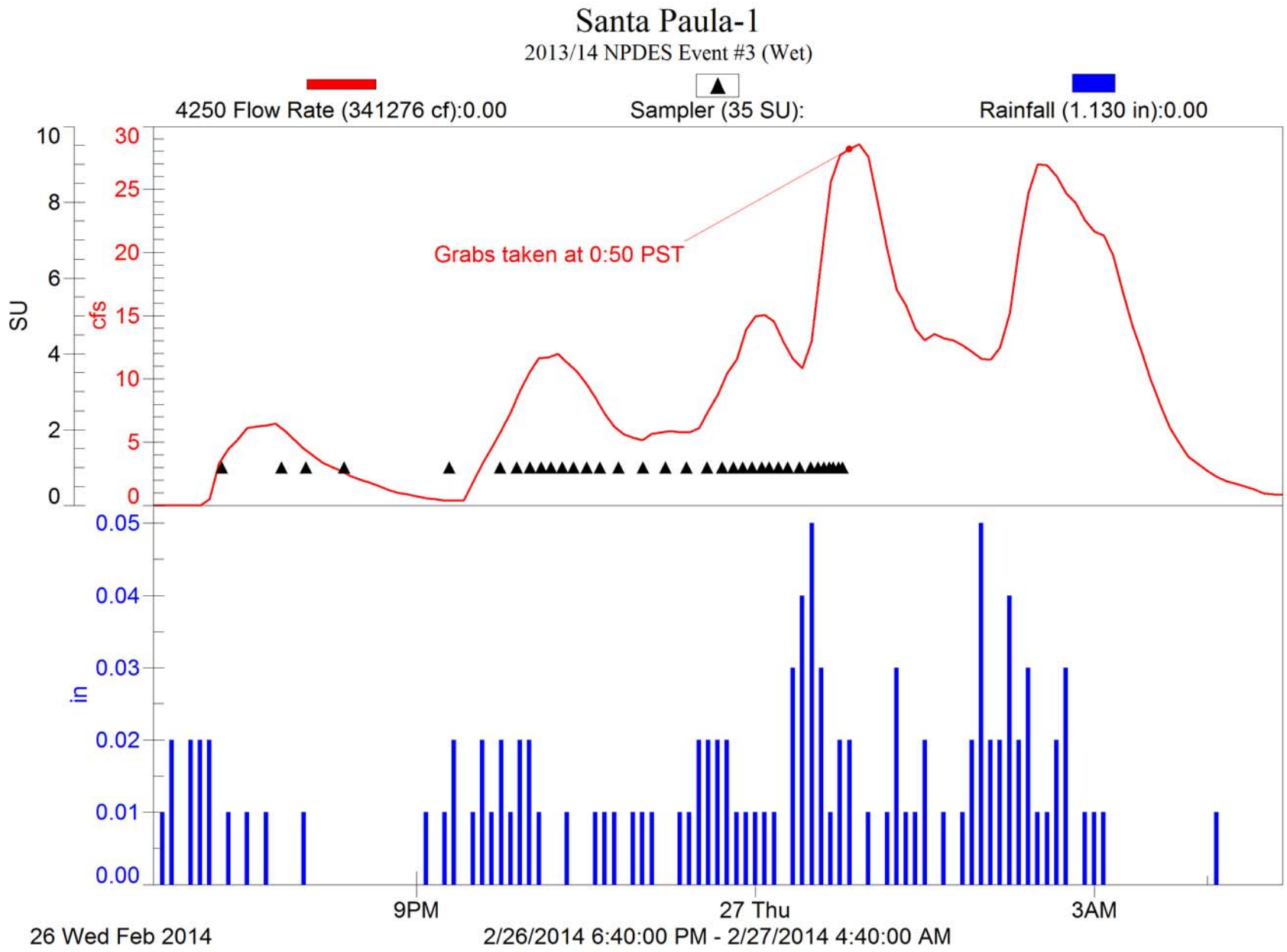
Port Hueneme-1

2013/14 NPDES Event #4 (Dry)



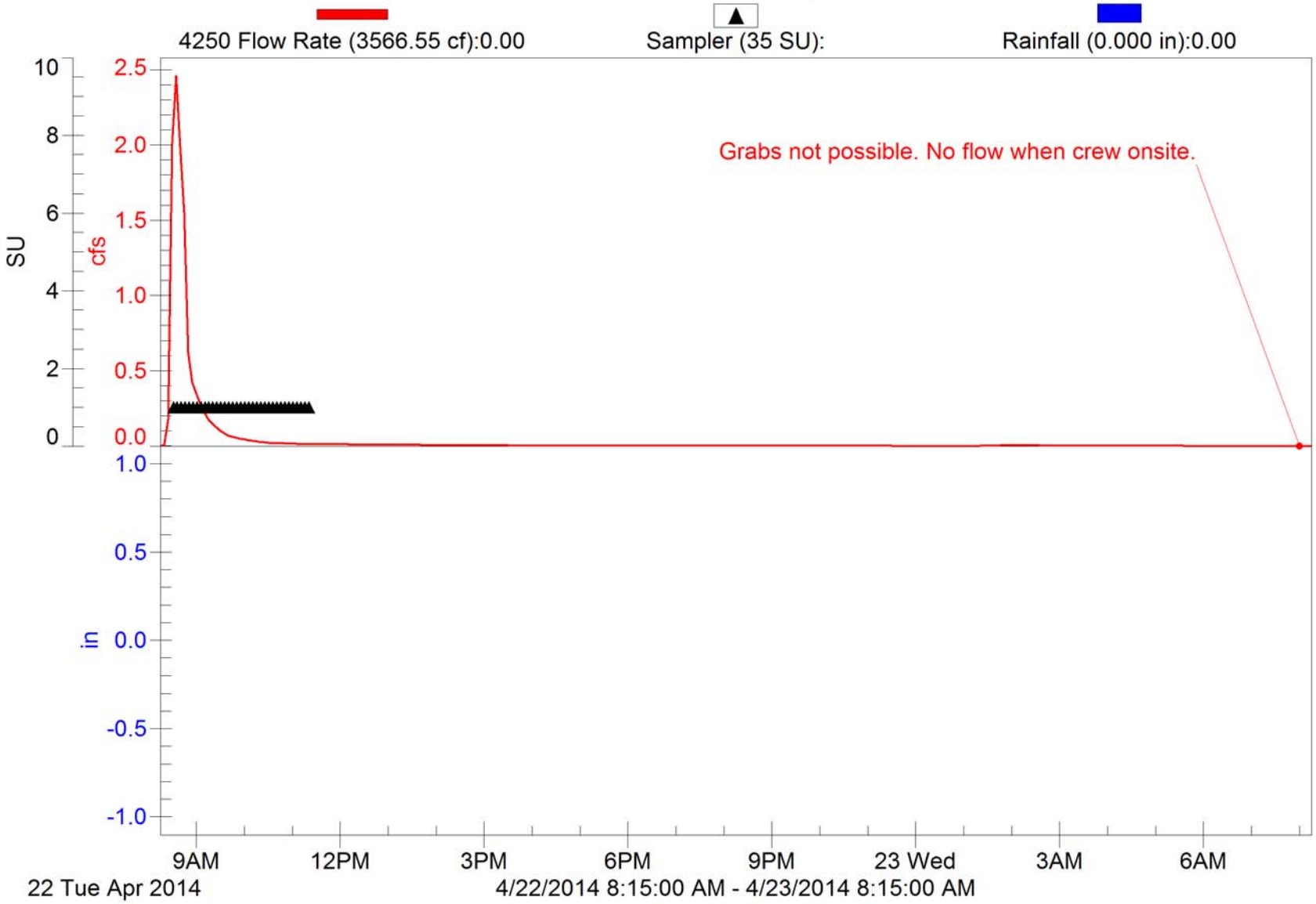

Santa Paula-1
2013/14 NPDES Event #1 (Wet)
4250 Flow Rate (372.711 cf):0.00
Sampler (39 SU):
Rainfall (0.220 in):0.00
SU
cfs
in
Faulty flowmeter - flow inaccurate this event
Grabs taken at 09:45 PST
9AM
12PM
7 Sat Dec 2013
12/7/2013 6:10:00 AM - 12/7/2013 1:10:00 PM

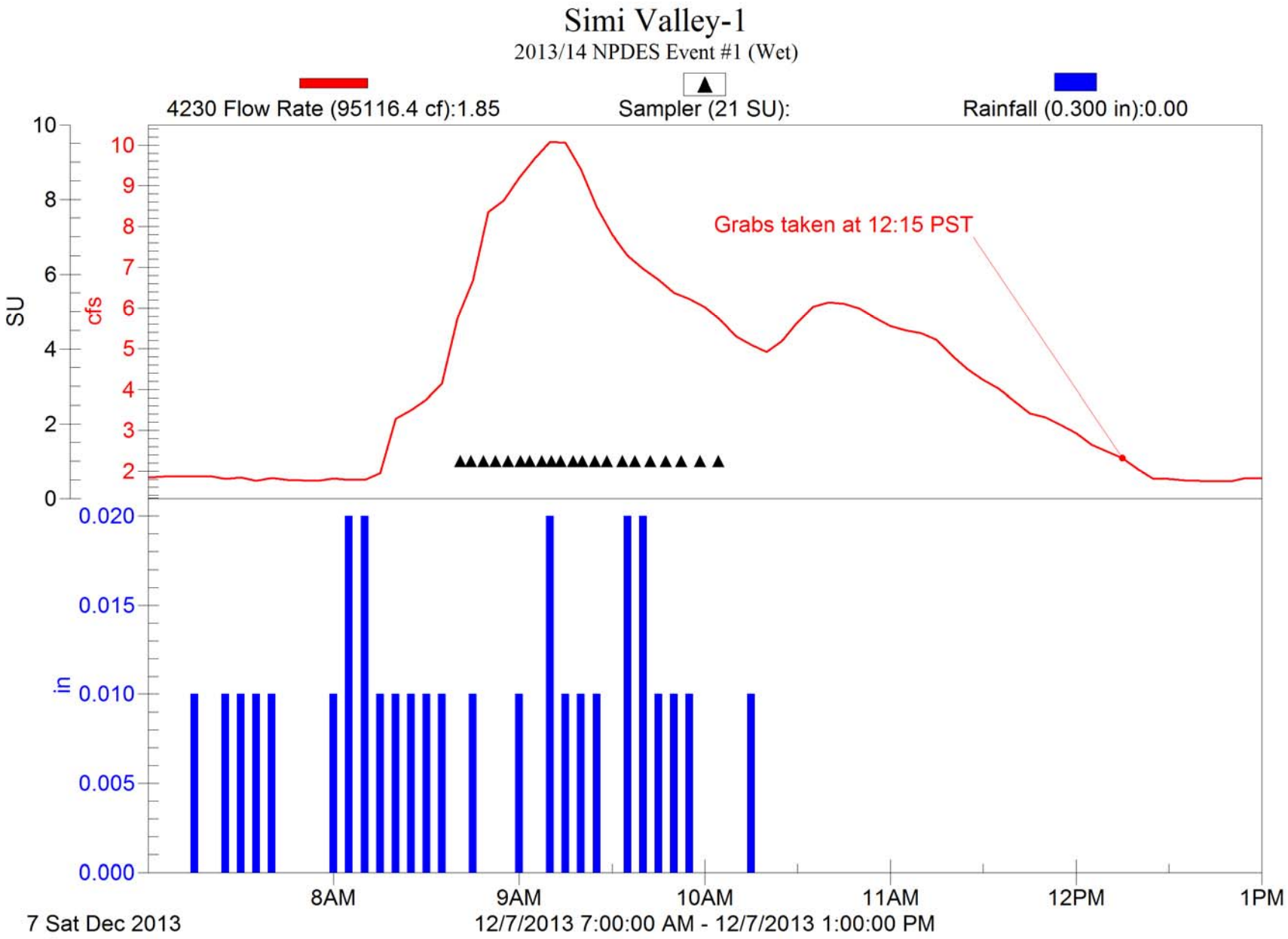

Santa Paula-1
2013/14 NPDES Event #2 (Wet)
4250 Flow Rate (-861.825 cf):0.00
Sampler (20 SU):
Rainfall (0.190 in):0.00
Grabs at 14:35 PST
Drop likely due to debris entangled on flow sensor
SU
cfs
in
10
8
6
4
2
0
4
2
0
-2
-4
-6
0.020
0.015
0.010
0.005
0.000
2PM
3PM
4PM
5PM
6PM
7PM
6 Thu Feb 2014
2/6/2014 1:00:00 PM - 2/6/2014 7:00:00 PM

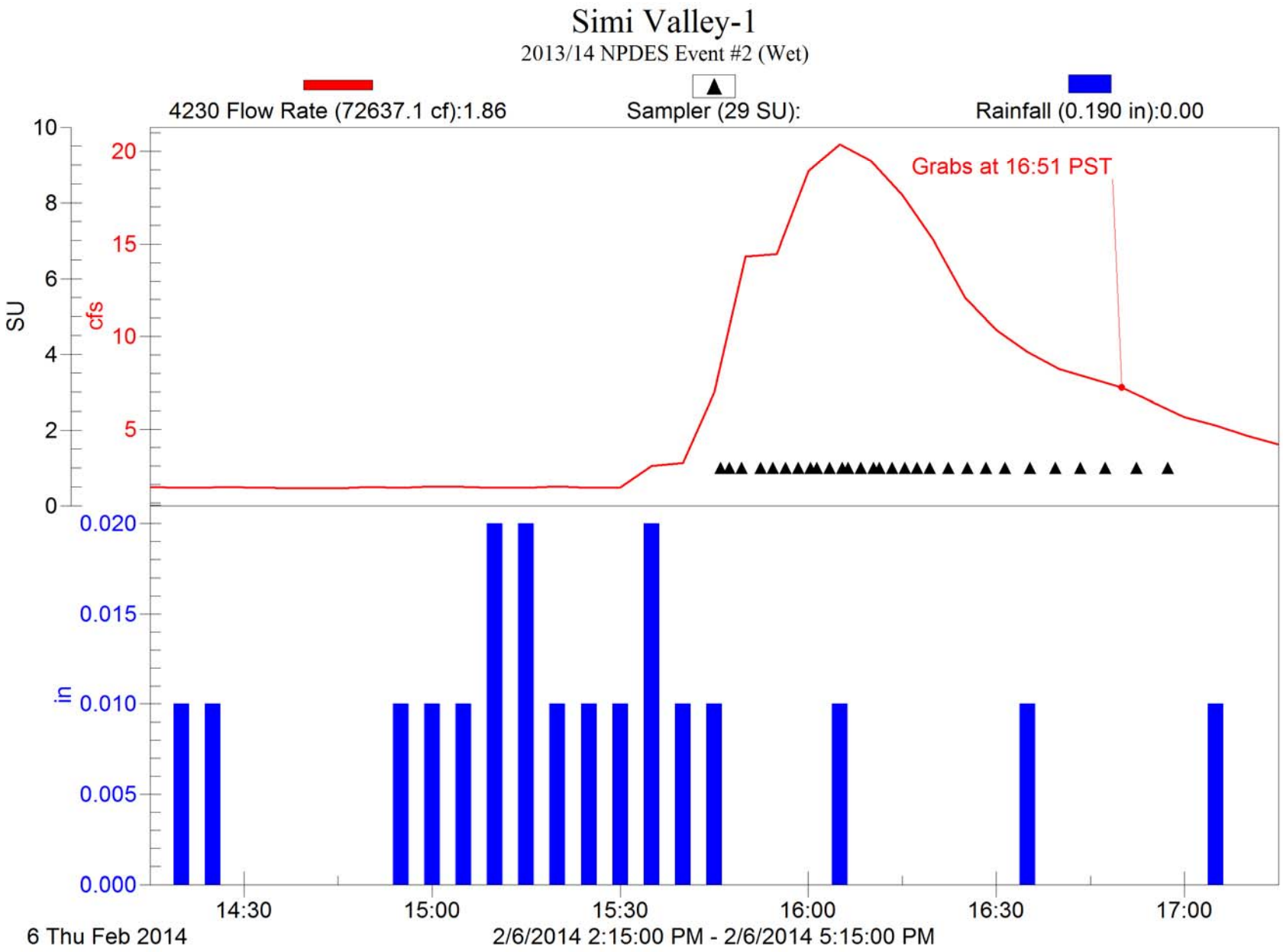

Santa Paula-1
2013/14 NPDES Event #3 (Wet)
4250 Flow Rate (341276 cf):0.00
Sampler (35 SU):
Rainfall (1.130 in):0.00
Grabs taken at 0:50 PST
SU
cfs
in
9PM
27 Thu
3AM
26 Wed Feb 2014
2/26/2014 6:40:00 PM - 2/27/2014 4:40:00 AM

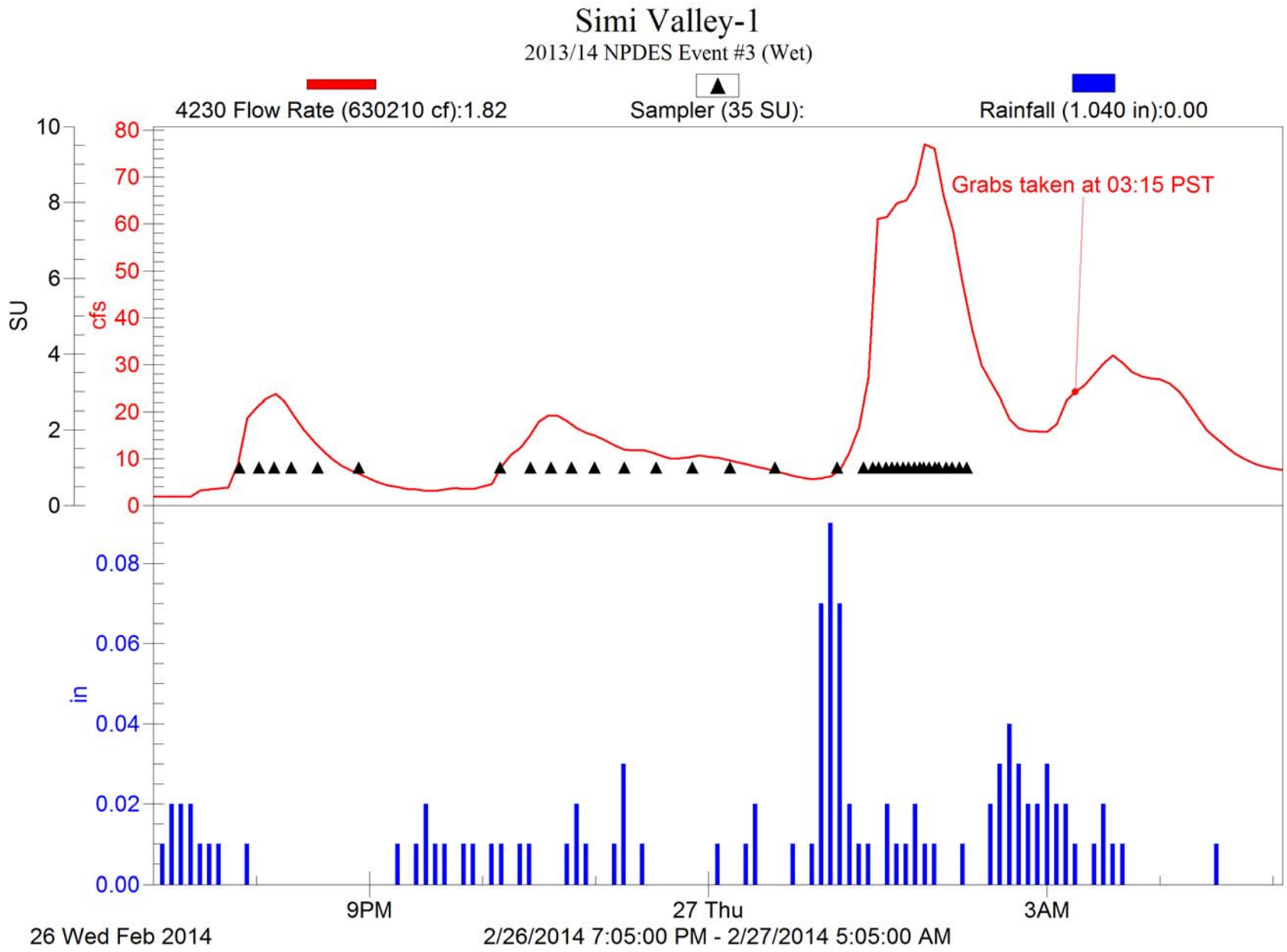
Santa Paula-1

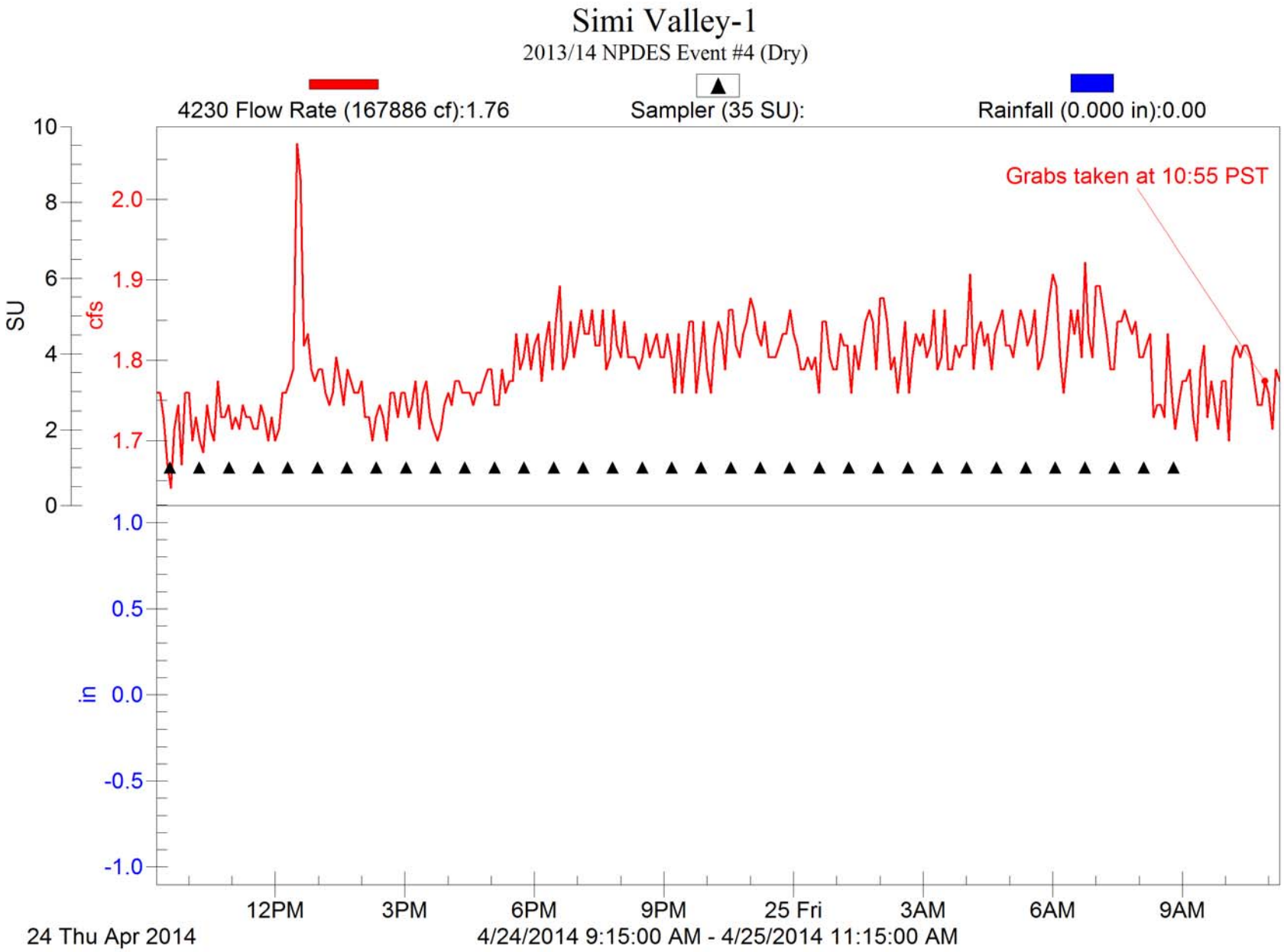
2013/14 NPDES Event #4 (Dry)

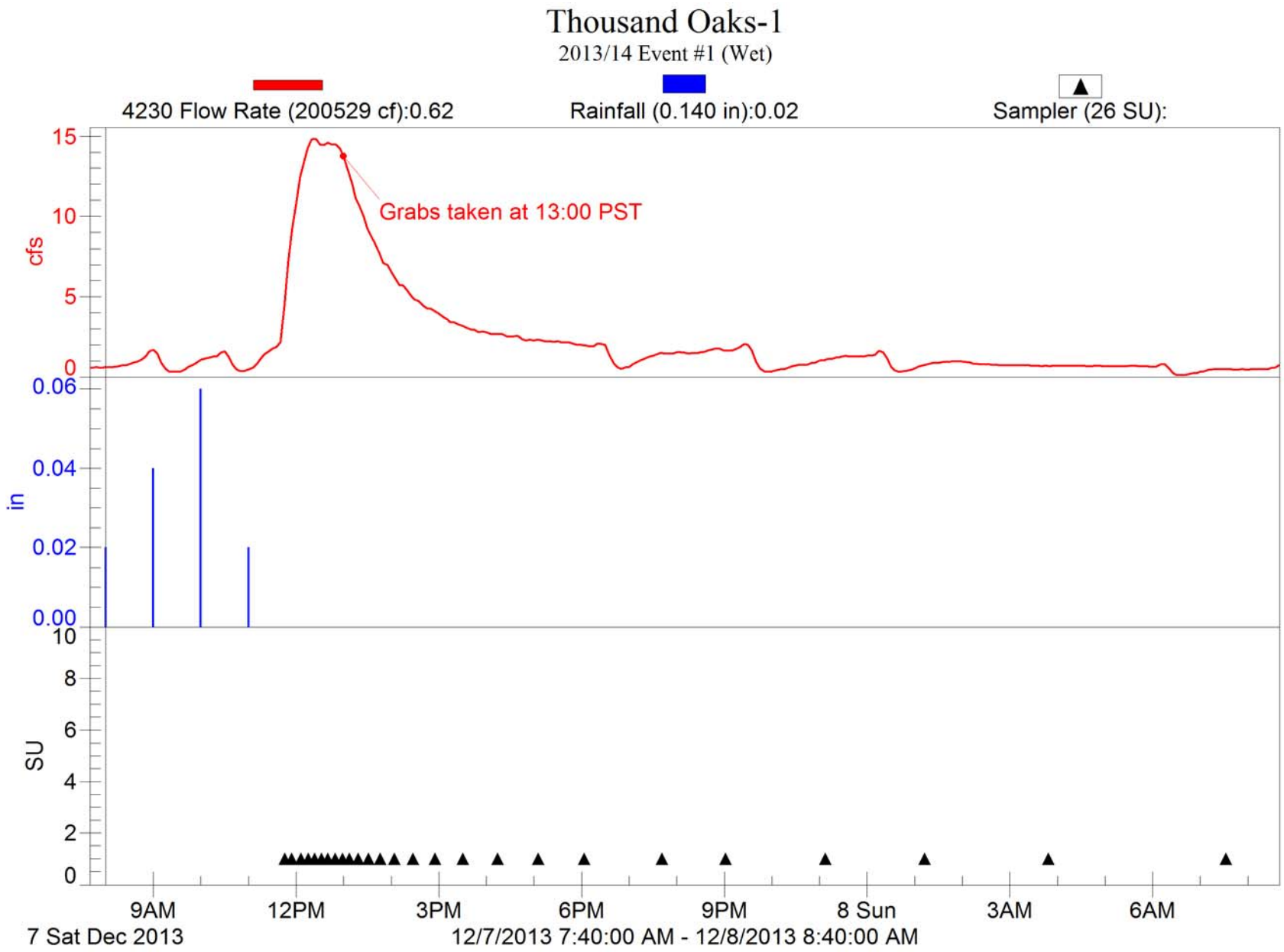


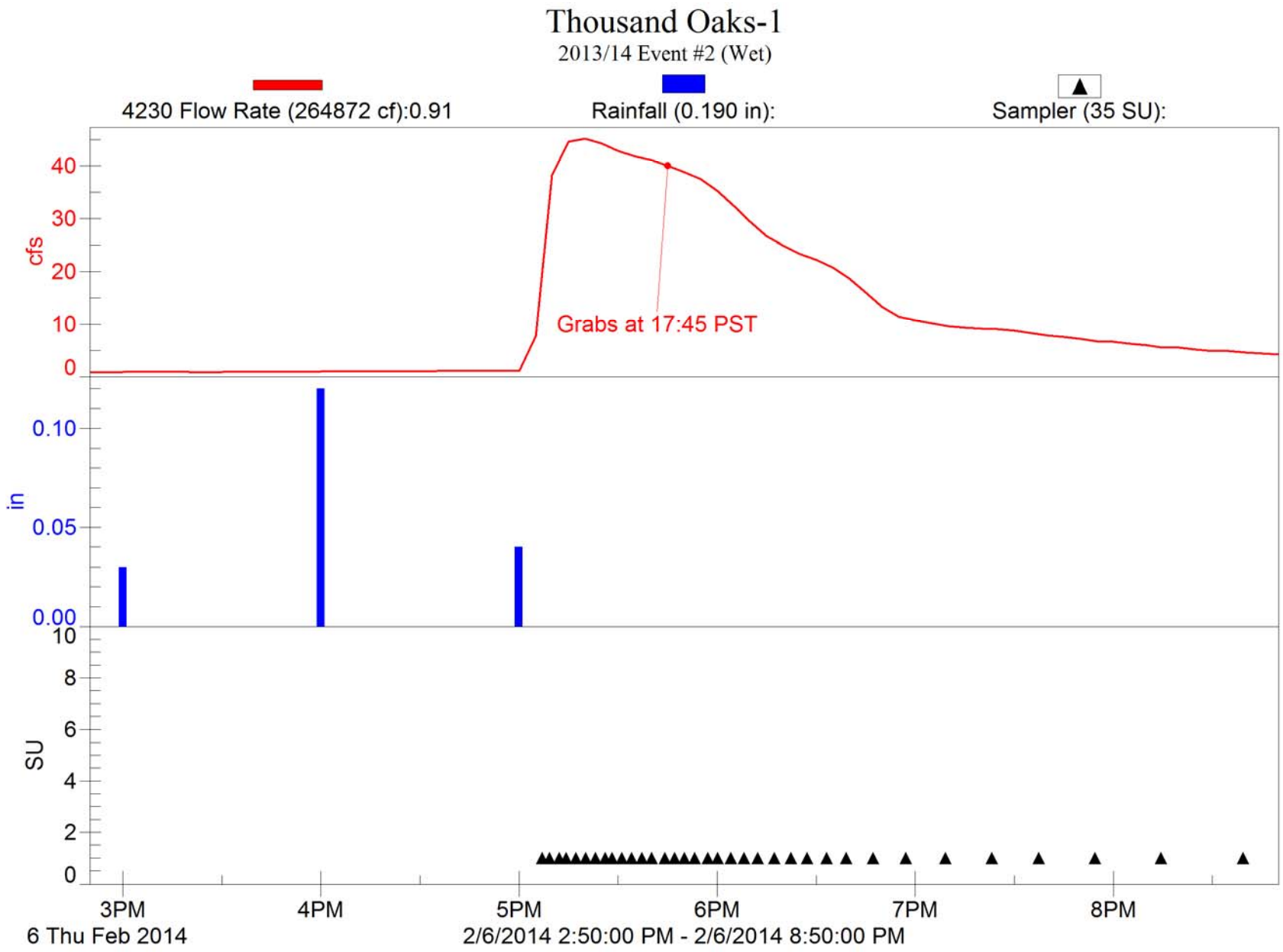

Simi Valley-1
2013/14 NPDES Event #1 (Wet)
4230 Flow Rate (95116.4 cf):1.85
Sampler (21 SU):
Rainfall (0.300 in):0.00
SU
cfs
Grabs taken at 12:15 PST
in
8AM
9AM
10AM
11AM
12PM
1PM
7 Sat Dec 2013
12/7/2013 7:00:00 AM - 12/7/2013 1:00:00 PM

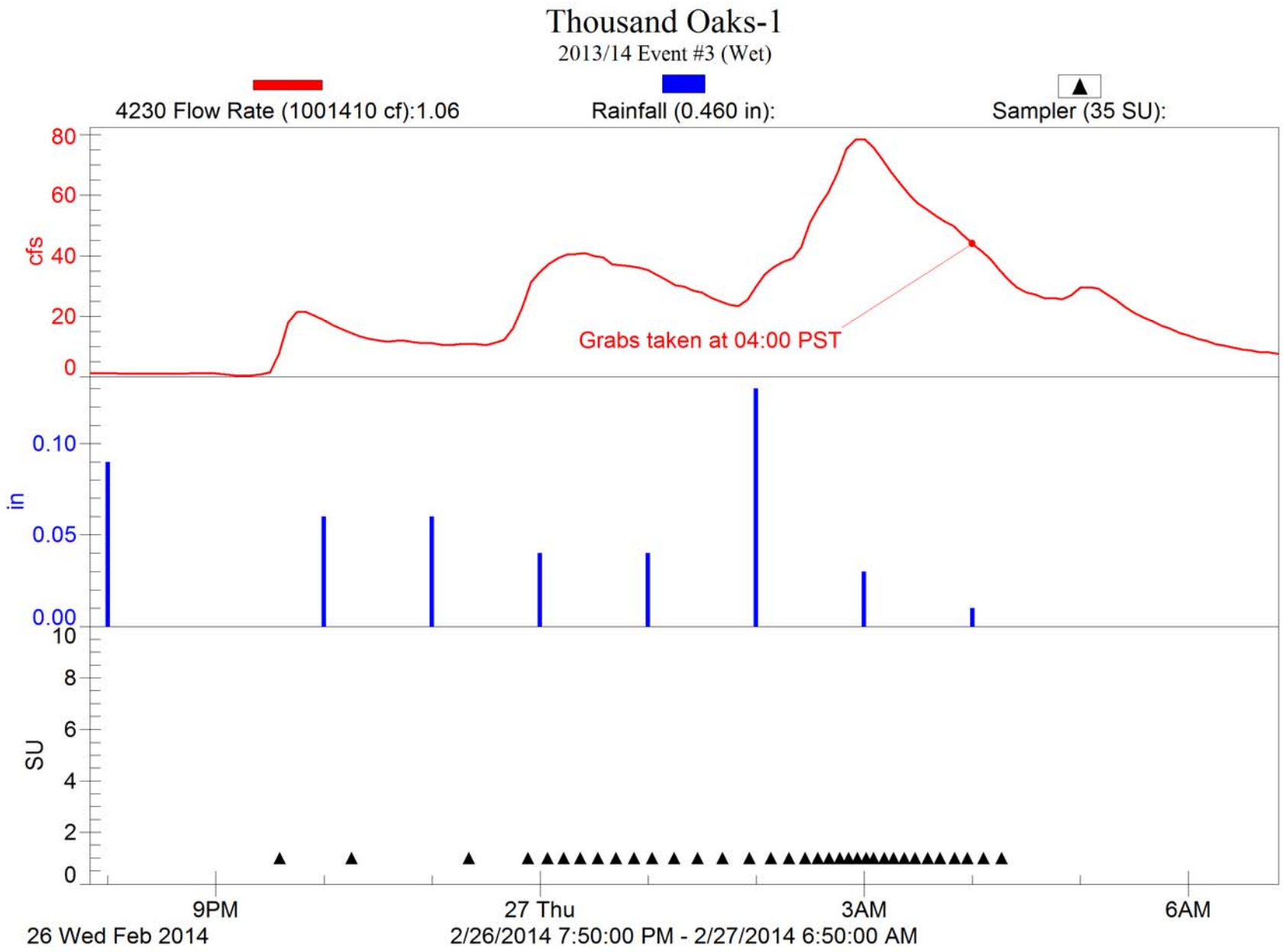

Simi Valley-1
2013/14 NPDES Event #2 (Wet)
4230 Flow Rate (72637.1 cf):1.86
Sampler (29 SU):
Rainfall (0.190 in):0.00
Grabs at 16:51 PST
SU
cfs
in
0
2
4
6
8
10
5
10
15
20
0.000
0.005
0.010
0.015
0.020
14:30
15:00
15:30
16:00
16:30
17:00
6 Thu Feb 2014
2/6/2014 2:15:00 PM - 2/6/2014 5:15:00 PM

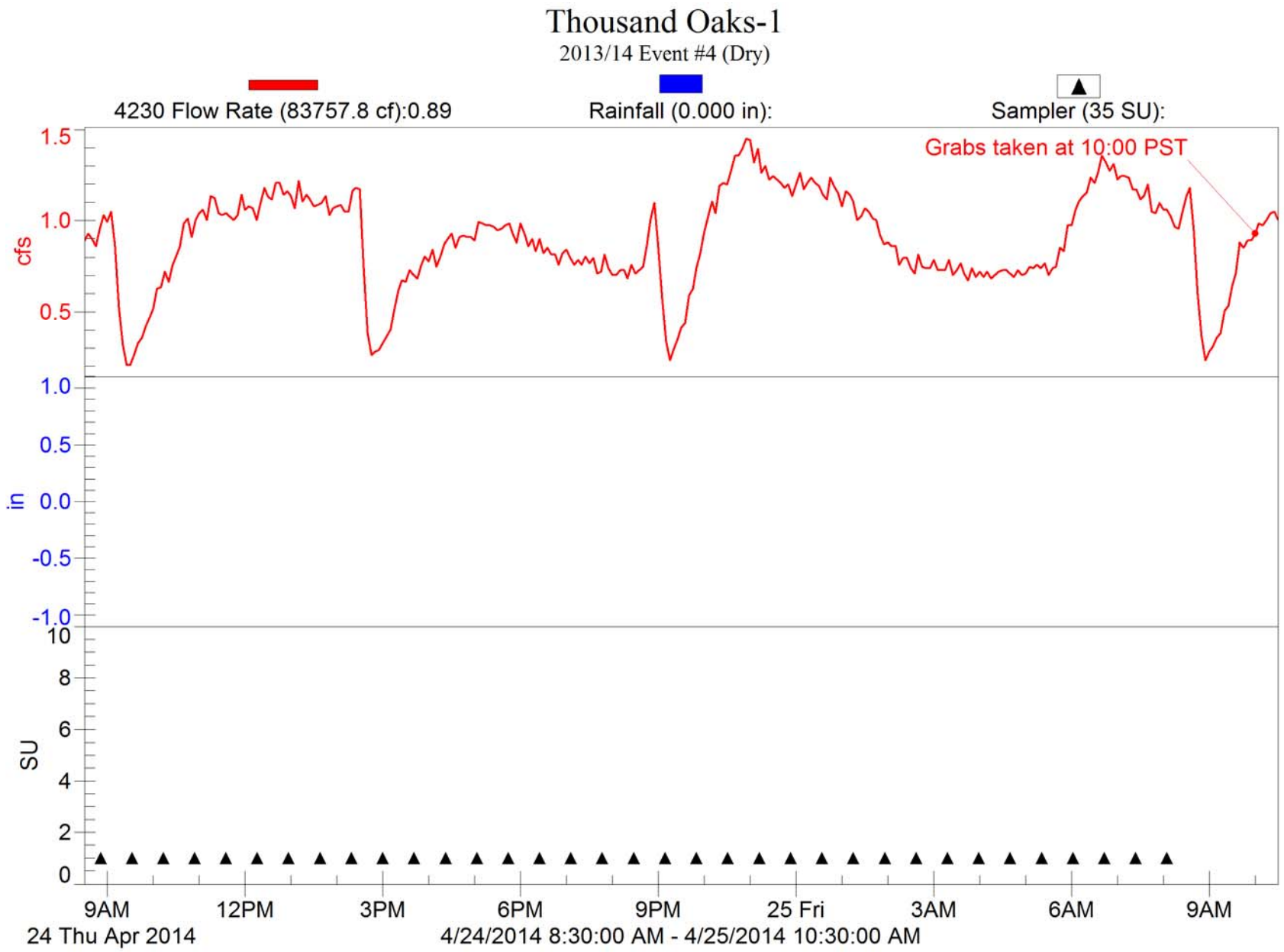

Simi Valley-1
2013/14 NPDES Event #3 (Wet)
4230 Flow Rate (630210 cf):1.82
Sampler (35 SU):
Rainfall (1.040 in):0.00
Grabs taken at 03:15 PST
SU
cfs
in
9PM
27 Thu
3AM
26 Wed Feb 2014
2/26/2014 7:05:00 PM - 2/27/2014 5:05:00 AM

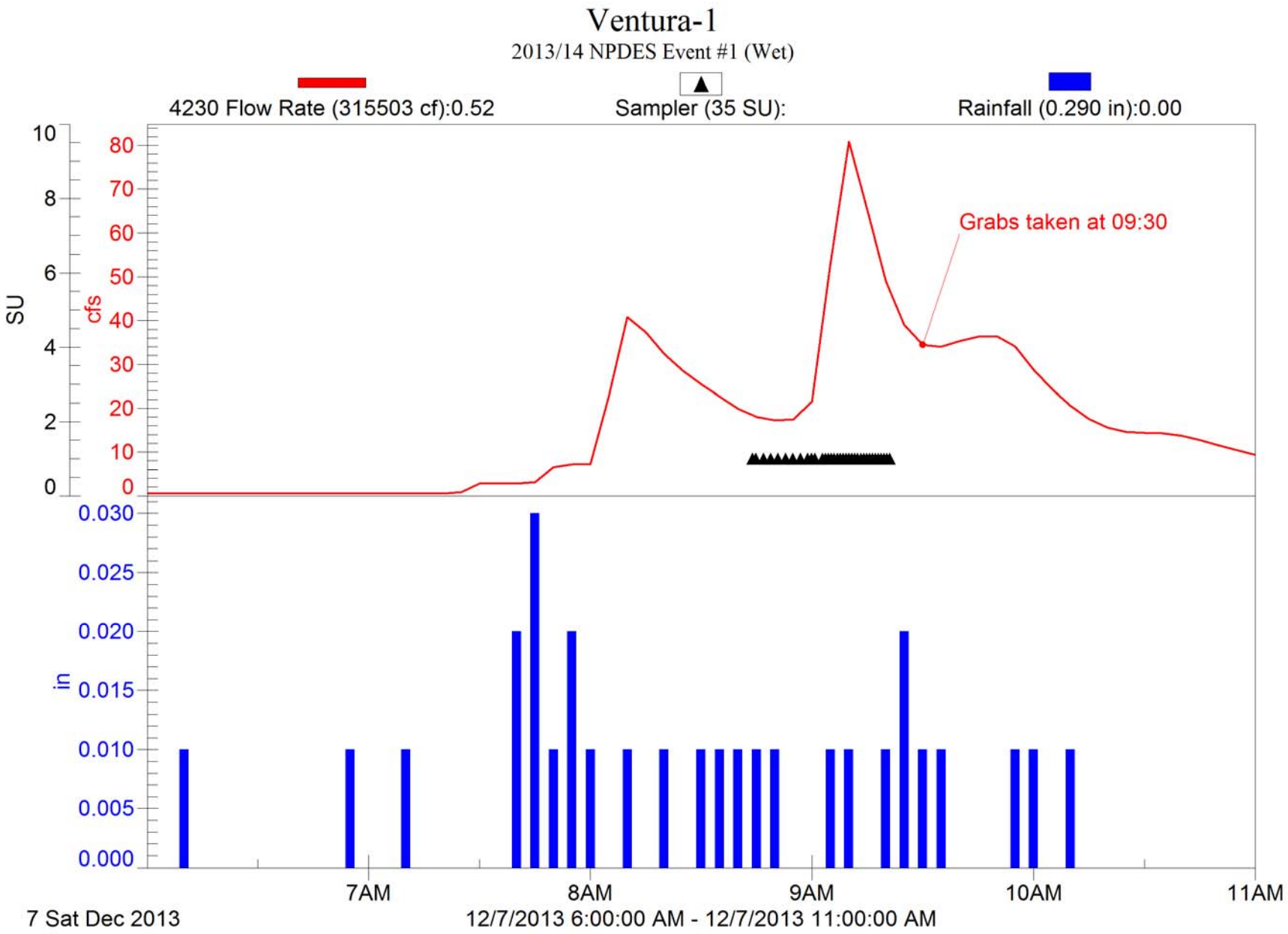

Simi Valley-1
2013/14 NPDES Event #4 (Dry)
4230 Flow Rate (167886 cf):1.76
Sampler (35 SU):
Rainfall (0.000 in):0.00
Grabs taken at 10:55 PST
SU
cfs
in
10
8
6
4
2
0
2.0
1.9
1.8
1.7
1.0
0.5
0.0
-0.5
-1.0
12PM
3PM
6PM
9PM
25 Fri
3AM
6AM
9AM
24 Thu Apr 2014
4/24/2014 9:15:00 AM - 4/25/2014 11:15:00 AM

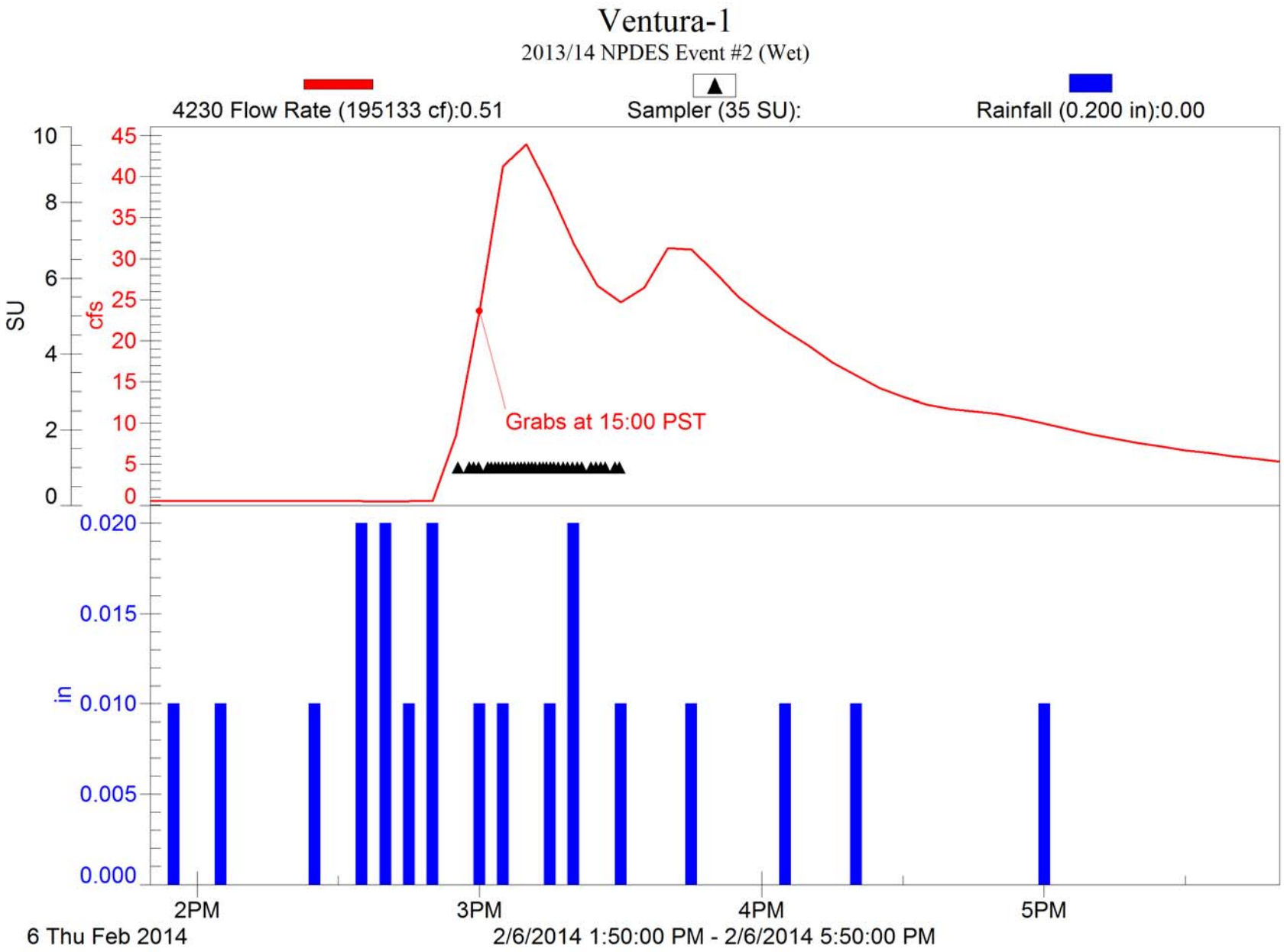

Thousand Oaks-1
2013/14 Event #1 (Wet)
4230 Flow Rate (200529 cf):0.62
Rainfall (0.140 in):0.02
Sampler (26 SU):
Grabs taken at 13:00 PST
cfs
in
SU
15
10
5
0
0.06
0.04
0.02
0.00
10
8
6
4
2
0
9AM
12PM
3PM
6PM
9PM
8 Sun
3AM
6AM
7 Sat Dec 2013
12/7/2013 7:40:00 AM - 12/8/2013 8:40:00 AM

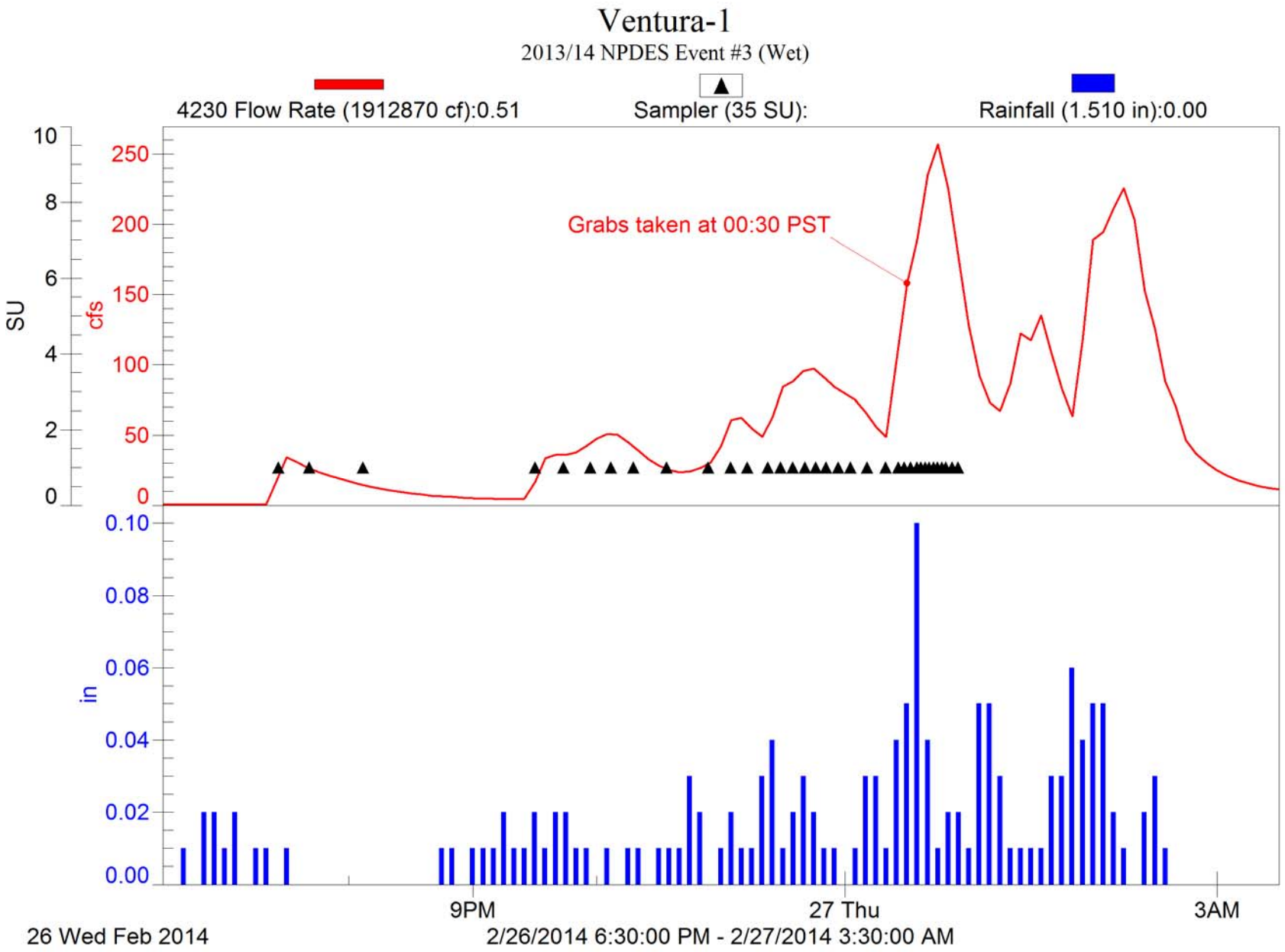

Thousand Oaks-1
2013/14 Event #2 (Wet)
4230 Flow Rate (264872 cf):0.91
Rainfall (0.190 in):
Sampler (35 SU):
cfs
40
30
20
10
0
Grabs at 17:45 PST
in
0.10
0.05
0.00
SU
10
8
6
4
2
0
3PM
4PM
5PM
6PM
7PM
8PM
6 Thu Feb 2014
2/6/2014 2:50:00 PM - 2/6/2014 8:50:00 PM

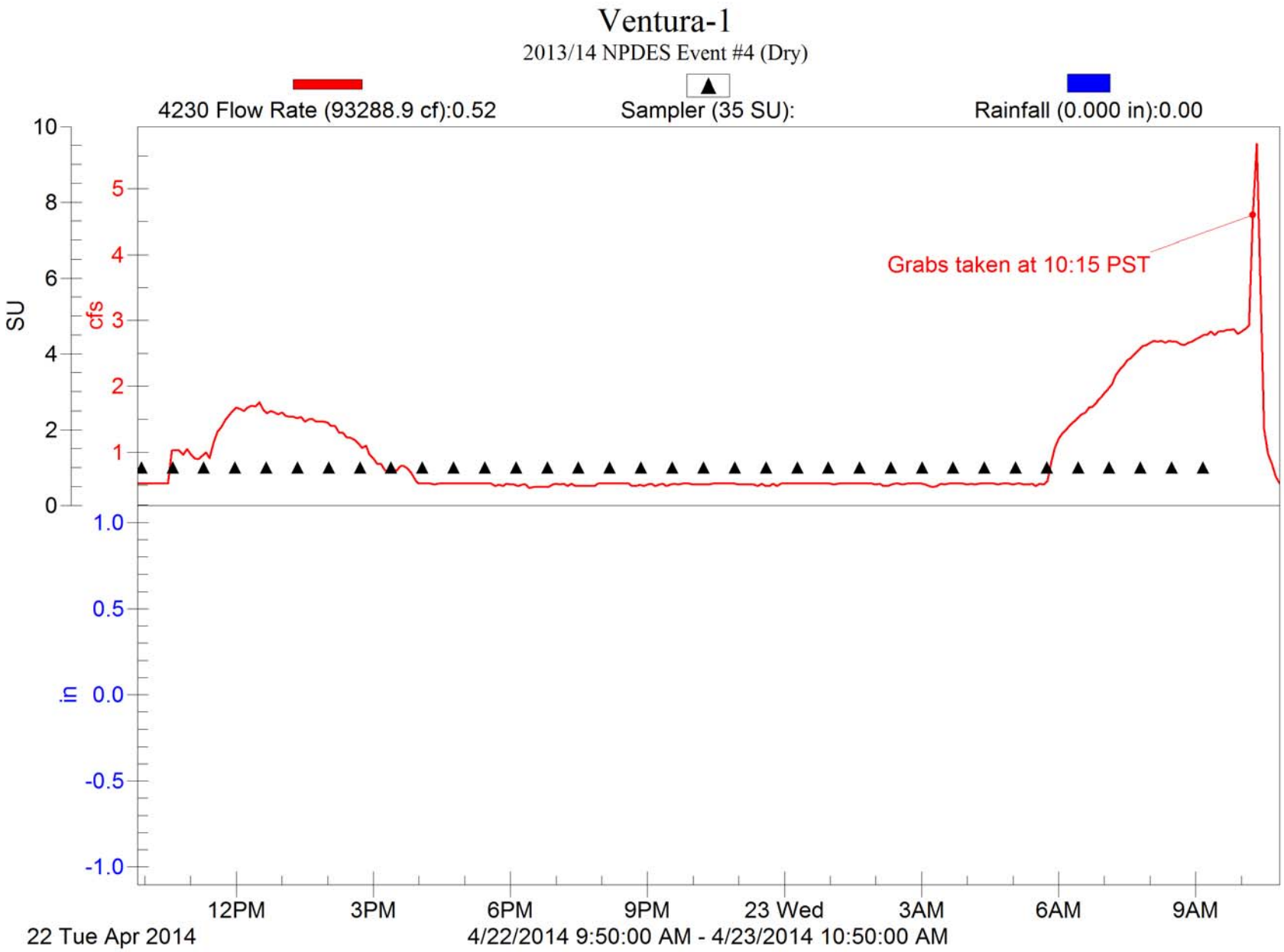

Thousand Oaks-1
2013/14 Event #3 (Wet)
4230 Flow Rate (1001410 cf):1.06
Rainfall (0.460 in):
Sampler (35 SU):
cfs
80
60
40
20
0
Grabs taken at 04:00 PST
in
0.10
0.05
0.00
SU
10
8
6
4
2
0
9PM
27 Thu
3AM
6AM
26 Wed Feb 2014
2/26/2014 7:50:00 PM - 2/27/2014 6:50:00 AM


Thousand Oaks-1
2013/14 Event #4 (Dry)
4230 Flow Rate (83757.8 cf):0.89
Rainfall (0.000 in):
Sampler (35 SU):
Grabs taken at 10:00 PST
cfs
1.5
1.0
0.5
in
1.0
0.5
0.0
-0.5
-1.0
SU
10
8
6
4
2
0
9AM
12PM
3PM
6PM
9PM
25 Fri
3AM
6AM
9AM
24 Thu Apr 2014
4/24/2014 8:30:00 AM - 4/25/2014 10:30:00 AM


Ventura-1
2013/14 NPDES Event #1 (Wet)
4230 Flow Rate (315503 cf):0.52
Sampler (35 SU):
Rainfall (0.290 in):0.00
Grabs taken at 09:30
SU
cfs
in
10
8
6
4
2
0
80
70
60
50
40
30
20
10
0
0.030
0.025
0.020
0.015
0.010
0.005
0.000
7AM
8AM
9AM
10AM
11AM
7 Sat Dec 2013
12/7/2013 6:00:00 AM - 12/7/2013 11:00:00 AM


Ventura-1
2013/14 NPDES Event #2 (Wet)
4230 Flow Rate (195133 cf):0.51
Sampler (35 SU):
Rainfall (0.200 in):0.00
SU
cfs
in
Grabs at 15:00 PST
2PM
3PM
4PM
5PM
6 Thu Feb 2014
2/6/2014 1:50:00 PM - 2/6/2014 5:50:00 PM


Ventura-1
2013/14 NPDES Event #3 (Wet)
4230 Flow Rate (1912870 cf):0.51
Sampler (35 SU):
Rainfall (1.510 in):0.00
Grabs taken at 00:30 PST
SU
cfs
in
9PM
27 Thu
3AM
26 Wed Feb 2014
2/26/2014 6:30:00 PM - 2/27/2014 3:30:00 AM


Ventura-1
2013/14 NPDES Event #4 (Dry)
4230 Flow Rate (93288.9 cf):0.52
Sampler (35 SU):
Rainfall (0.000 in):0.00
SU
cfs
in
Grabs taken at 10:15 PST
12PM
3PM
6PM
9PM
23 Wed
3AM
6AM
9AM
22 Tue Apr 2014
4/22/2014 9:50:00 AM - 4/23/2014 10:50:00 AM