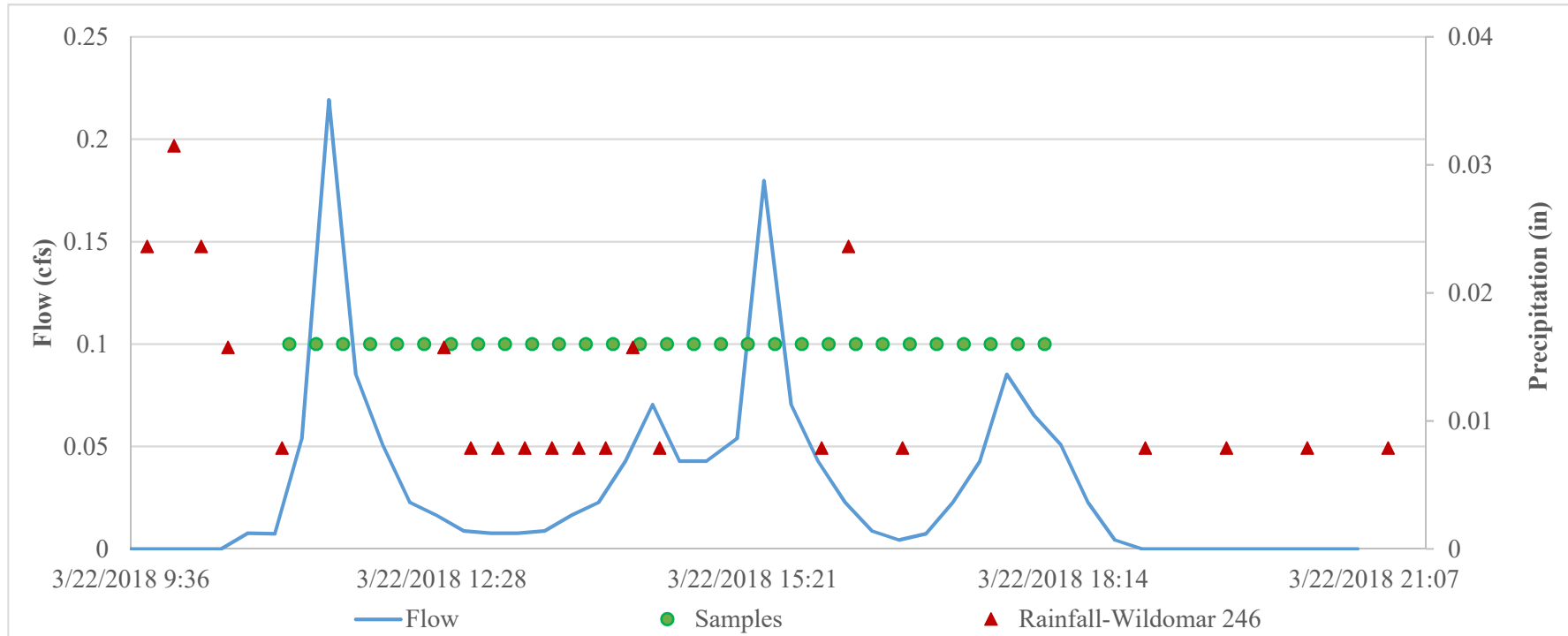


**APPENDIX H – SANTA MARGARITA RIVER WMA
TRANSITIONAL MS4 OUTFALL WET WEATHER FLOW HYDROGRAPHS**

902MS45031

Wildomar MS4 Outfall



Volume =	1,283.9	cf
Peak Flow =	0.22	cfs
Drainage Area =	106.1	ac
Event Direct Runoff =	0.003	in

Event Runoff "C" = 1.3%

District Rain Gage (Wildomar 246)

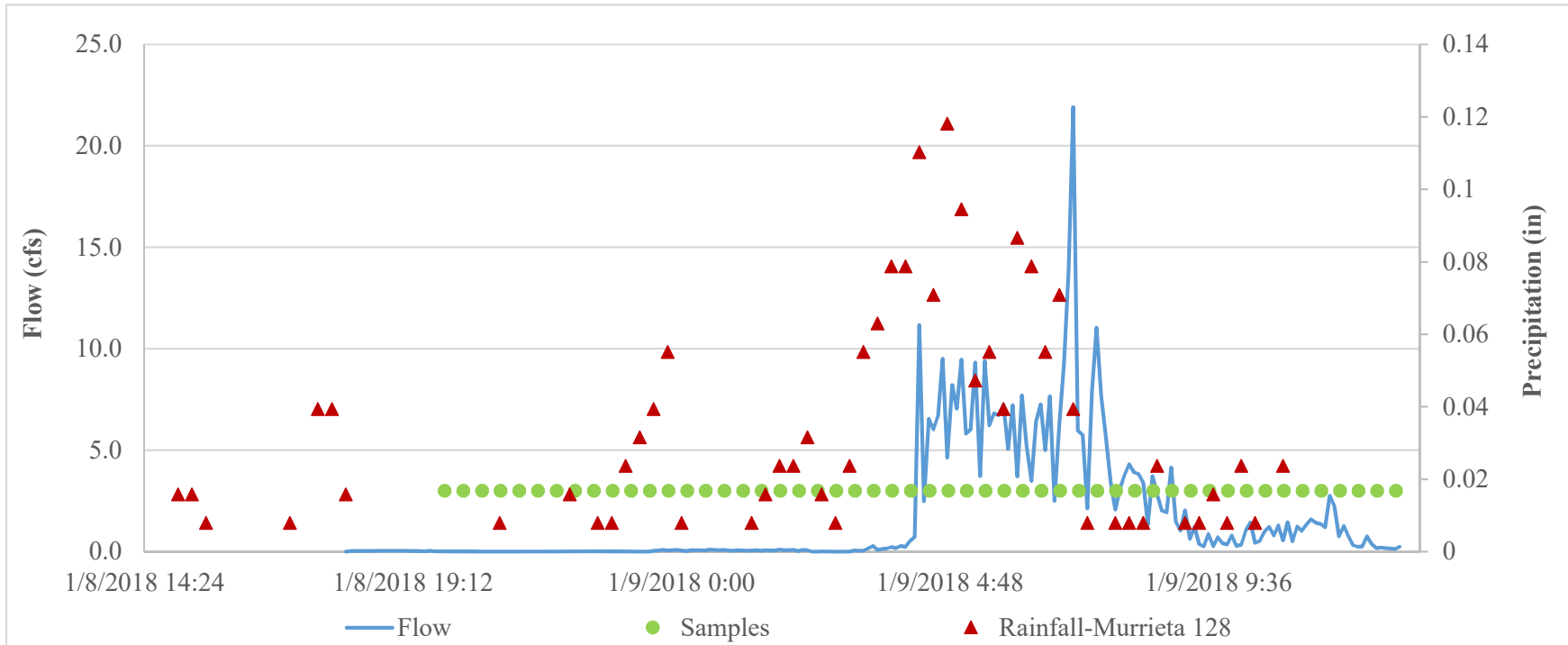
Event Rainfall =	0.26	in
Rainfall Duration =	11.5	hours
Average Intensity =	0.02	in/hr
Peak Intensity =	0.09	in/hr

Regional Rain (Average 4 Regional Stations)

24-hour Rainfall =	0.39	in
Previous Day, Avg Rain >0.1" =	3/18/2018	
Antecedent Dry Days =	4	

902MS44034

Murrieta MS4 Outfall



Volume =	115,030.8 cf
Peak Flow =	21.92 cfs
Drainage Area =	54.3 ac
Event Direct Runoff =	0.583 in

Event Runoff "C" = 32.8%

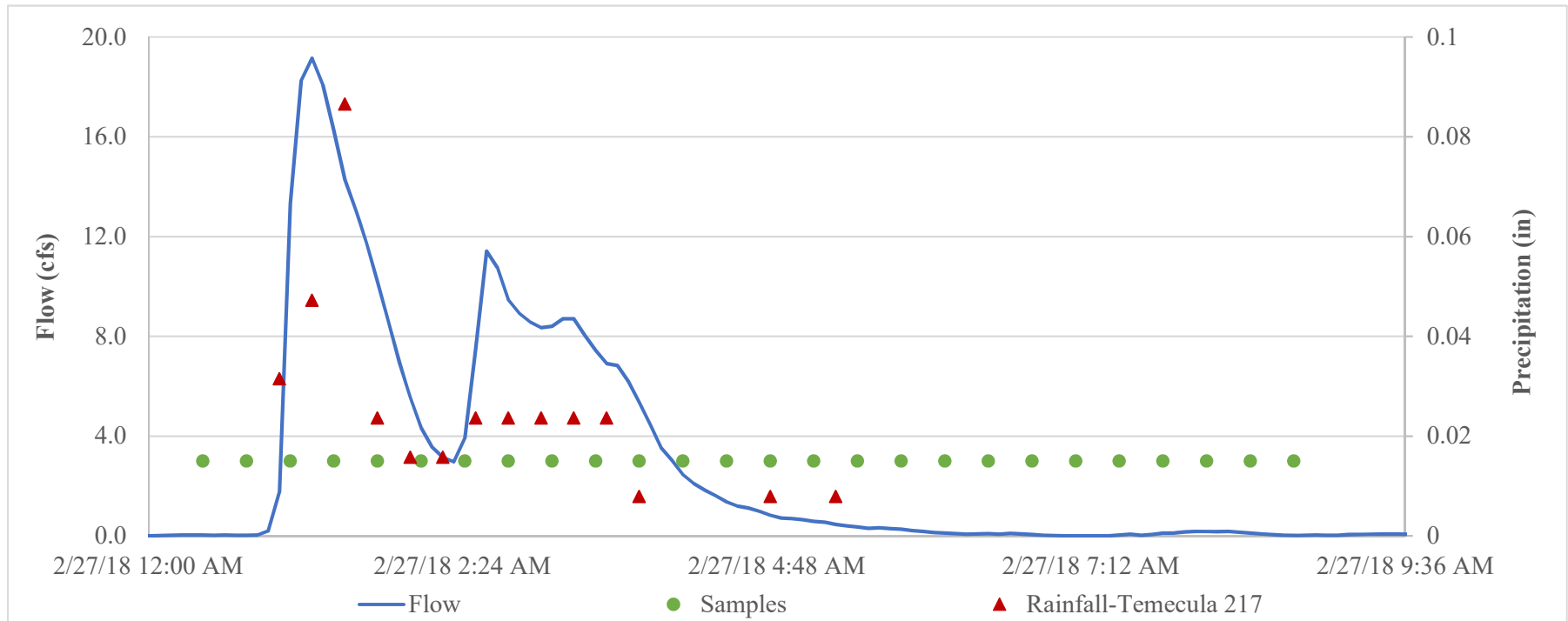
District Rain Gage (Murrieta 128)

Event Rainfall = 1.78 in
 Rainfall Duration = 19.7 hours
 Average Intensity = 0.09 in/hr
 Peak Intensity = 0.47 in/hr

Regional Rain (Average 4 Regional Stations)

24-hour Rainfall = 2.56 in
 Previous Day, Avg Rain >0.1" = 8/1/2017
 Antecedent Dry Days = 160

902MS43015
Temecula MS4 Outfall



Volume =	102,465 cf
Peak Flow =	19.15 cfs
Drainage Area =	106.2 ac
Event Direct Runoff =	0.266 in

Event Runoff "C" =	73.4%
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Temecula Rain Gage #217

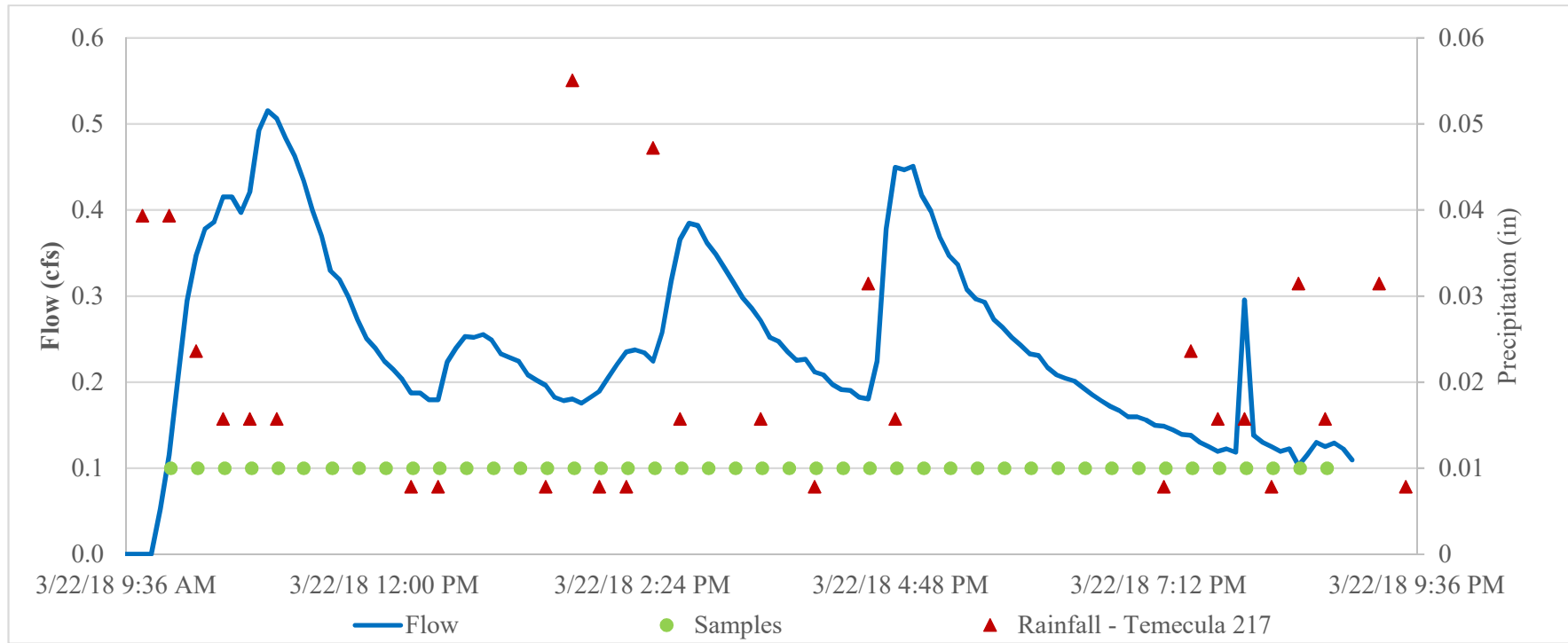
Event Rainfall = 0.36 in
 Rainfall Duration = 4.3 hours
 Average Intensity = 0.09 in/hr
 Peak Intensity = 0.20 in/hr

Regional Rain (Average 4 Regional Stations)

24-hour Rainfall = 0.38 in
 Previous Day, Avg Rain >0.1" = 1/11/2018
 Antecedent Dry Days = 47

902MS42240

Riverside County MS4 Outfall



Volume =	10,012.9 cf
Peak Flow =	0.52 cfs
Drainage Area =	5.5 ac
Event Direct Runoff =	0.502 in

Event Runoff "C" = 91.0%

District Rain Gage (Temecula 217)

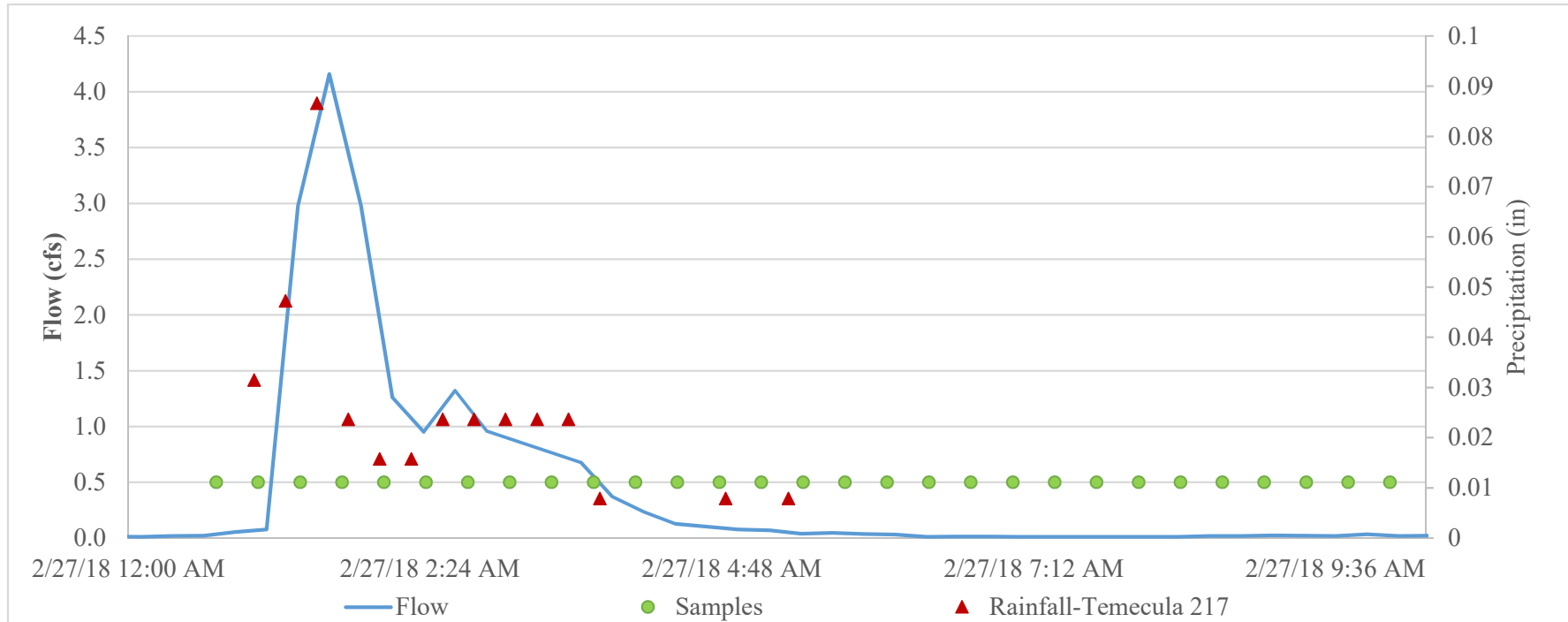
Event Rainfall =	0.55	in
Rainfall Duration =	13.5	hours
Average Intensity =	0.04	in/hr
Peak Intensity =	0.13	in/hr

Regional Rain (Average 4 Regional Stations)

24-hour Rainfall =	0.39	in
Previous Day, Avg Rain >0.1" =	3/18/2018	
Antecedent Dry Days =	4	

902MS41033

District MS4 Outfall



Volume =	16,461.8 cf
Peak Flow =	4.16 cfs
Drainage Area =	107.4 ac
Event Direct Runoff =	0.042 in

Event Runoff "C" = 11.7%

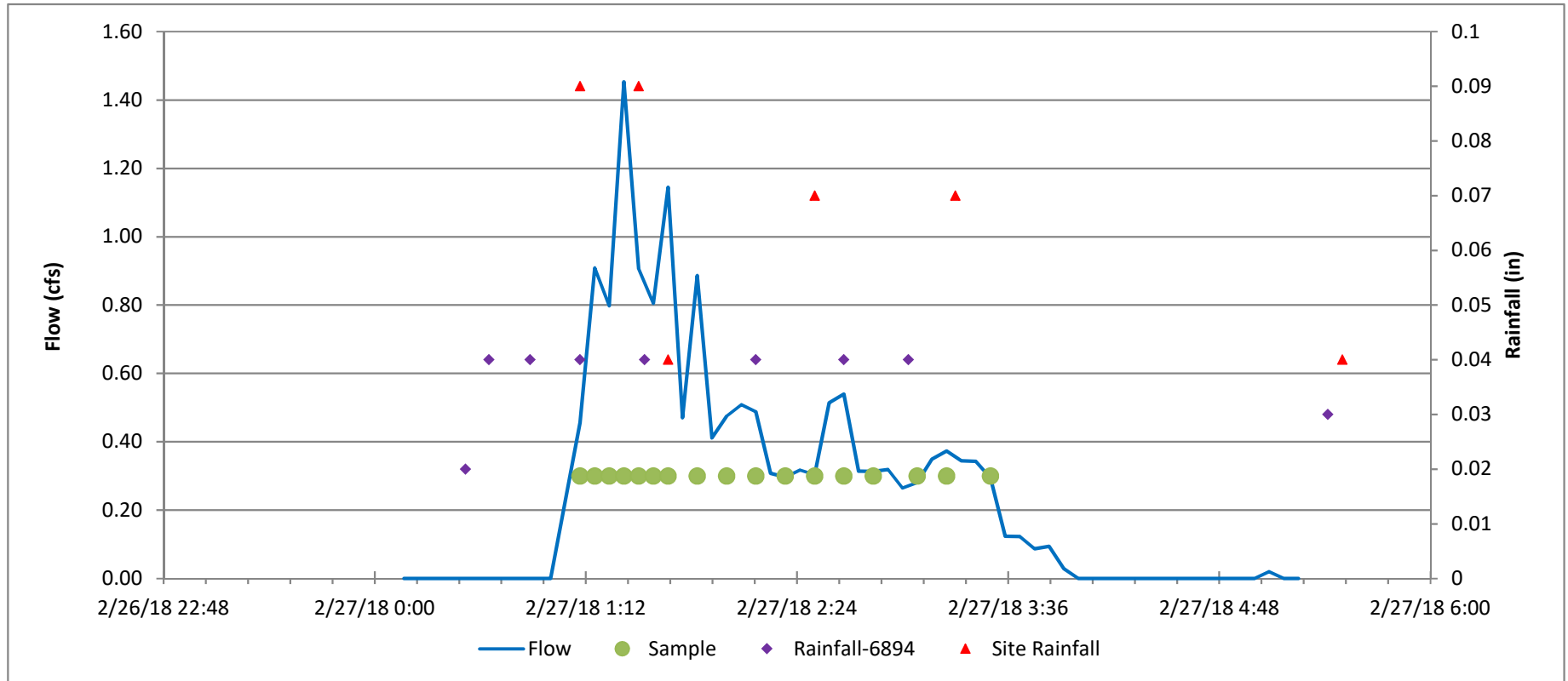
District Rain Gage (Temecula 217)

Event Rainfall = 0.36 in
 Rainfall Duration = 4.3 hours
 Average Intensity = 0.09 in/hr
 Peak Intensity = 0.20 in/hr

Regional Rain (Average 4 Regional Stations)

24-hour Rainfall = 0.38 in
 Previous Day, Avg Rain >0.1" = 1/11/2018
 Antecedent Dry Days = 47

MS4-SMR-SMG-063



Event Volume =	4,836.4 cf
Peak Flow =	1.45 cfs
Drainage Area =	18.4 ac
Event Direct Runoff =	0.073 in

Site Specific Rain Gage

Total Rainfall =	0.4	in
Duration =	4.33	hours
Average Intensity =	0.09	in/hr

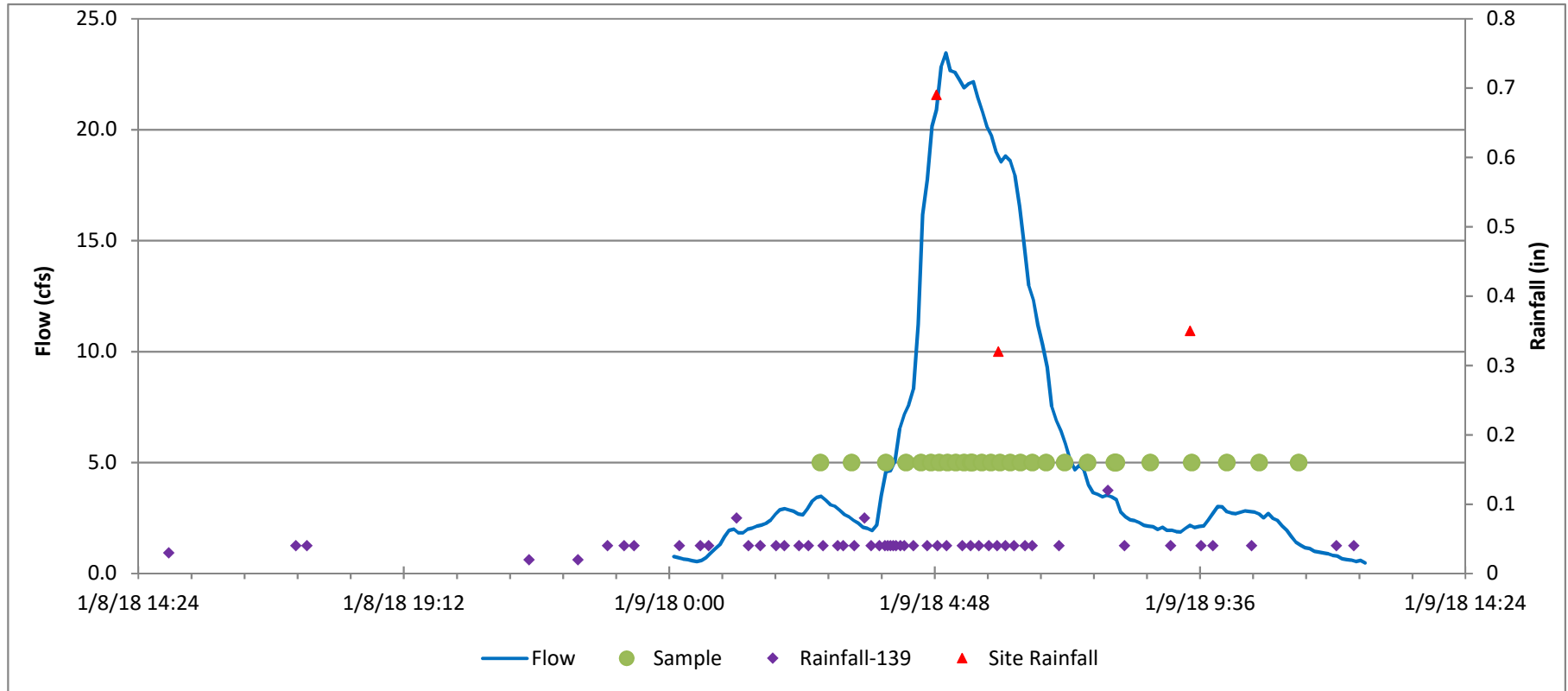
Regional Rain Gage (Sandia Creek 139)

Event Rainfall =	0.33	in
Rainfall Duration =	4.9	hours
Average Intensity =	0.07	in/hr
Peak Intensity =	0.16	in/hr
Previous Rain >0.1" =	2/12/2018	
Antecedent Dry Days =	15	

Runoff "C" (Site) =	18.1%
Runoff "C" (Alert 136) =	22.0% ^

MS4-SMR-HST01

2017-2018 Hydrograph



Event Volume =	253,411 cf
Peak Flow =	23.46 cfs
Drainage Area =	93.2 ac
Event Direct Runoff =	0.749 in

Runoff "C" (Site) =	55.1%
Runoff "C" (Alert 139)=	33.0% ^

Site Specific Rain Gage

Total Rainfall =	1.36 in
Duration =	9.67 hours
Average Intensity =	0.14 in/hr

Regional Rain Gage (Sandia Creek 139)

Event Rainfall =	2.27 in
Rainfall Duration =	21.4 hours
Average Intensity =	0.11 in/hr
Peak Intensity =	0.48 in/hr
Previous Rain >0.1" =	5/7/2017
Antecedent Dry Days =	247

^ For regional assessment used Sandia Creek (Station 139) - most comprehensive dataset available for 2017-18.

No rainfall data was available for RAINBOW COUNTY PARK 6894 for this monitored event, nor for several months of 2017-2018.