

2020-2021 Permit Year

Ventura Countywide Stormwater Quality Management Program Annual Report

Attachments D Monitoring Appendices A - E



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

Appendix	x A: Major Outf	all Station Fac	ct Sheets (Up	dated 2019)

Camarillo

Station: MO-CAM (Camarillo-1)

Waterbody: Camarillo Hills Drain (tributary to

Revolon Slough)

Location: Daily Rd. overcrossing (34°13'10.40"N,

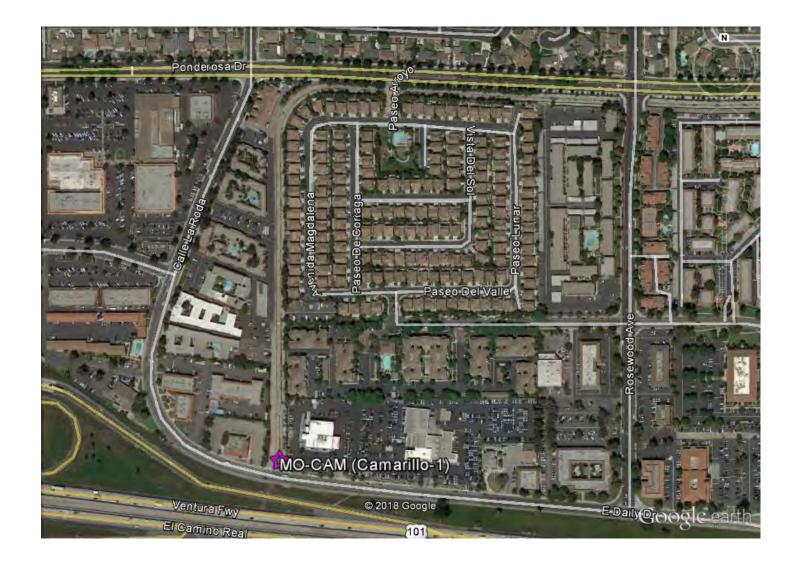
119° 3'58.00"W)

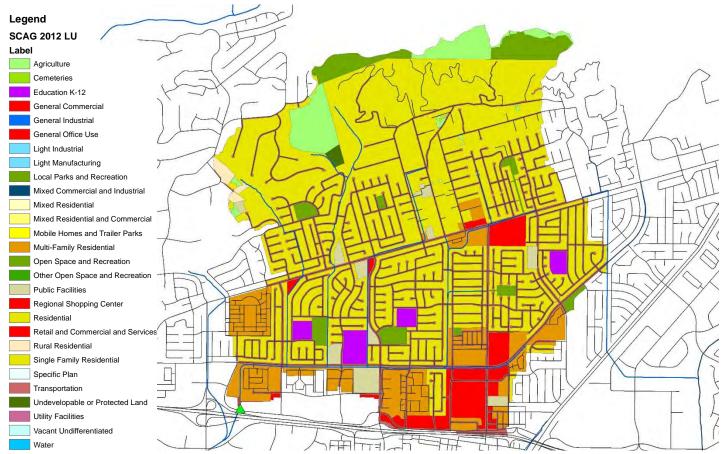
Known Issues: None

Dry Season Flow: Low flow typically present year-

round in dry weather due to urban runoff.







Entire City

Land Use	Acres	% of Total Watershed
Agriculture	1358.6	10.7%
Education K-12	202.0	1.6%
General Office Use	73.8	0.6%
Light Industrial	950.1	7.5%
Local Parks and Recreation	230.4	1.8%
Mixed Commercial and Industrial	7.2	0.1%
Mobile Homes and Trailer Parks	137.4	1.1%
Multi-Family Residential	1521.5	12.0%
Open Space and Recreation	3.0	0.02%
Public Facilities	454.7	3.6%
Retail and Commercial and Services	479.4	3.8%
Rural Residential	18.9	0.1%
Single Family Residential	3814.3	30.2%
Transportation	2581.6	20.4%
Undevelopable or Protected Land	461.8	3.7%
Utility Facilities	353.5	2.8%
Totals	12648.2	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	109.8	3.9%
Education K-12	47.6	1.7%
General Office Use	9.4	0.3%
Local Parks and Recreation	48.9	1.7%
Multi-Family Residential	272.9	9.6%
Open Space and Recreation	74.5	2.6%
Public Facilities	58.2	2.1%
Retail and Commercial and Services	118.3	4.2%
Rural Residential	12.1	0.4%
Single Family Residential	1598.2	56.5%
Transportation	468.4	16.5%
Undevelopable or Protected Land	6.4	0.2%
Utility Facilities	6.0	0.2%
Totals	2830.7	100.0%

Fillmore

Station: MO-FIL (Fillmore-1)

Waterbody: North Fillmore Drain (tributary to

Sespe Creek)

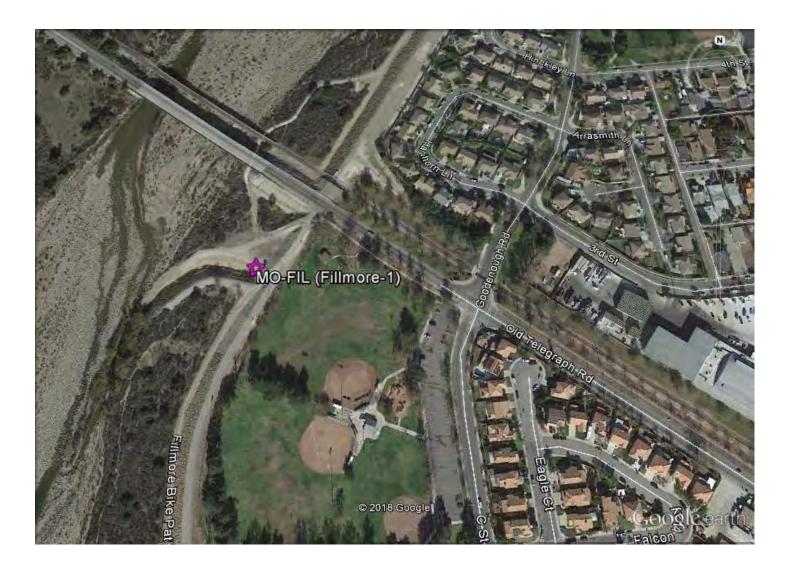
Location: 75 yds. southwest of Old Telegraph Rd.

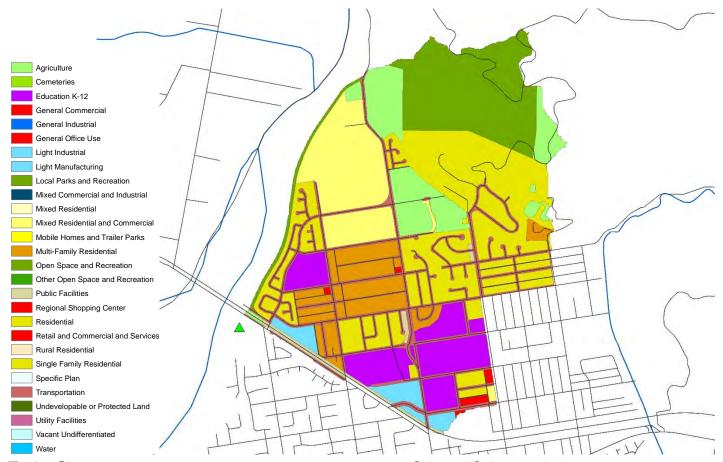
(34°24'16.70"N, 118°55'50.80"W)

Known Issues: Sediment build up around intake **Dry Season Flow Potential:** Typically year-round

low flow due to urban runoff







Land Use	Acres	% of Total Watershed
Agriculture	140.9	6.7%
Education K-12	81.9	3.9%
General Commercial	108.2	5.1%
General Industrial	2.1	0.1%
Light Industrial	132.5	6.3%
Local Parks and Recreation	70.7	3.3%
Mixed Residential and Commercial	120.6	5.7%
Multi-Family Residential	175.7	8.3%
Open Space and Recreation	0.2	0.01%
Transportation	311.5	14.8%
Public Facilities	53.6	2.5%
Single Family Residential	528.4	25.0%
Specific Plan	282.7	13.4%
Undevelopable or Protected Land	102.2	4.8%
Totals	2111.1	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	66.6	9.4%
Education K-12	69.7	9.8%
General Commercial	3.8	0.5%
Light Industrial	17.7	2.5%
Mixed Residential and Commercial	84.2	11.9%
Multi-Family Residential	58.9	8.3%
Open Space and Recreation	111.7	15.7%
Public Facilities	8.7	1.2%
Single Family Residential	197.6	27.8%
Transportation	90.6	12.8%
Totals	709.5	100.0%

Meiners Oaks (Unincorporated)

Station: MO-MEI (Unincorporated-1)

Waterbody: Happy Valley Drain (tributary to Ventura

River)

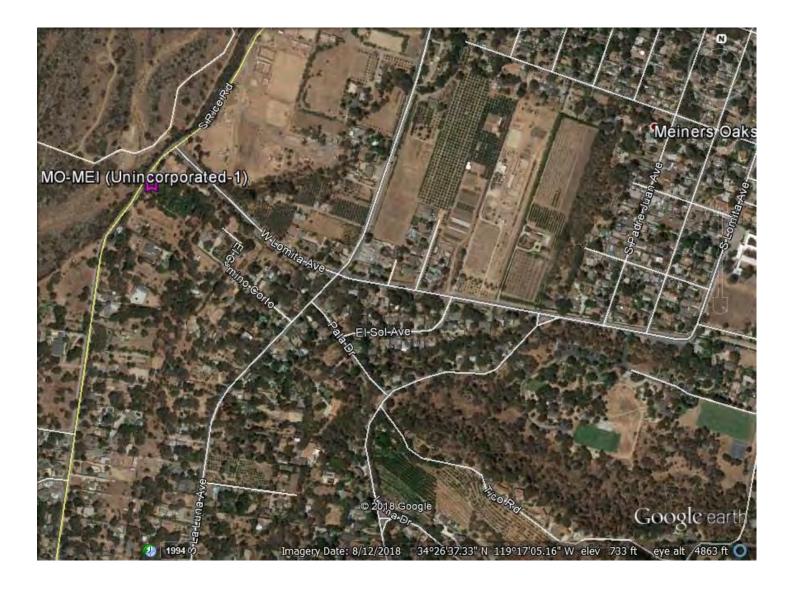
Location: Southwest of Lomita Rd. and Rice Rd. intersection (34°26'43.94"N, 119°17'25.15"W)

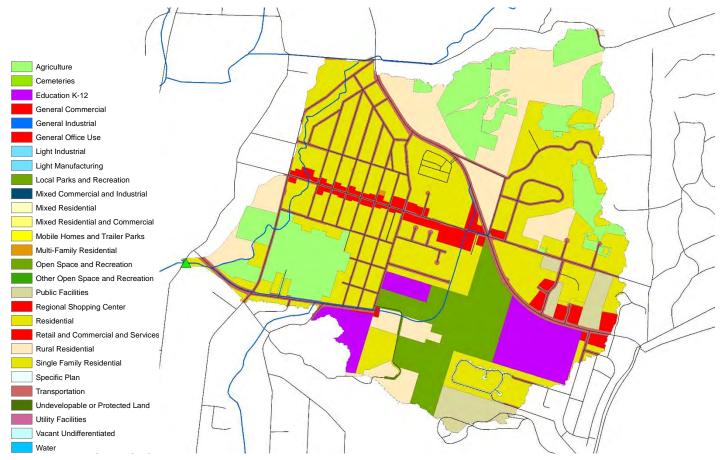
Known Issues: Homeless occasionally present under

bridge at site.

Dry Season Flow Potential: Dries up quickly after storms. Typically dry during dry weather events.







Entire City		
Land Use	Acres	% of Total Watershed
Agriculture	69.2	2.1%
Education K-12	7.4	0.2%
General Commercial	94.2	2.8%
General Industrial	323.3	9.6%
Heavy Industrial	113.1	3.4%
Multi-Family Residential	35.0	1.0%
Open Space and Recreation	118.2	3.5%
Transportation	498.4	14.9%
Rural Residential	26.8	0.8%
Single Family Residential	2063.7	61.6%
Undevelopable or Protected Land	2.4	0.1%
Totals	3351.6	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	140.3	14.8%
Education K-12	60.0	6.3%
General Commercial	34.6	3.7%
Multi-Family Residential	0.2	0.0%
Open Space and Recreation	80.2	8.5%
Public Facilities	33.0	3.5%
Residential	0.9	0.1%
Rural Residential	139.6	14.8%
Single Family Residential	367.9	38.9%
Transportation	88.4	9.4%
Totals	945.2	100.0%

Moorpark

Station: MO-MPK (Moorpark-1)

Waterbody: Walnut Canyon (tributary to Arroyo

Simi)

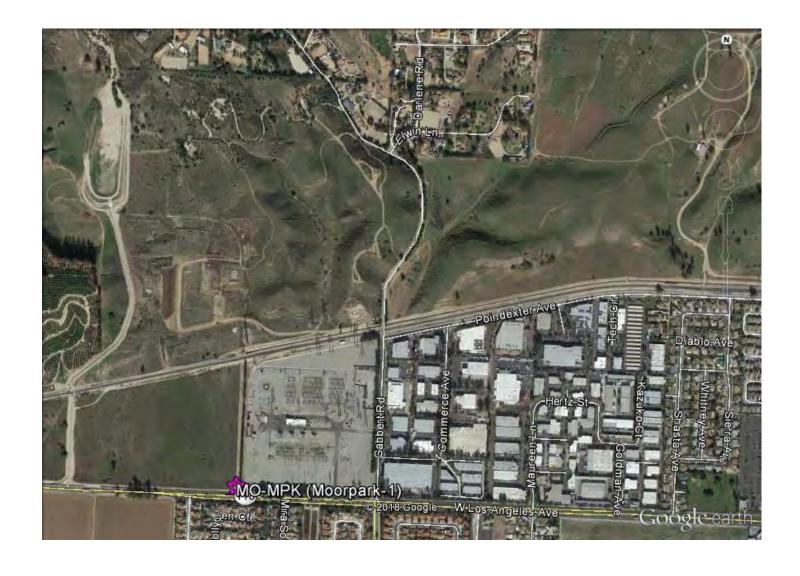
Location: North side of SR 118 near southwest corner of So. Cal. Edison property (34°16'44.14"N,

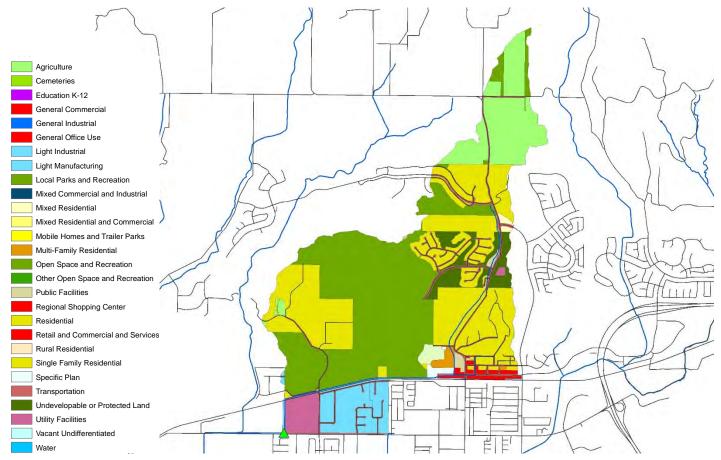
118°54'19.21"W) **Known Issues:** None

Dry Season Flow Potential: Intermittent year-round

flow due to urban runoff







Entire City	1	T
Land Use	Acres	% of Total Watershed
Agriculture	81.1	1.0%
Education K-12	263.1	3.3%
General Commercial	158.1	2.0%
General Office Use	3.6	0.05%
Light Industrial	250.4	3.1%
Light Manufacturing	205.3	2.6%
Local Parks and Recreation	128.9	1.6%
Mixed Residential	396.0	5.0%
Mixed Residential and Commercial	450.1	5.6%
Multi-Family Residential	197.0	2.5%
Open Space and Recreation	1836.6	23.0%
Public Facilities	18.3	0.2%
Retail and Commercial and Services	7.3	0.1%
Single Family Residential	2405.6	30.1%
Specific Plan	10.0	0.1%
Transportation	1125.1	14.1%
Undevelopable or Protected Land	219.4	2.7%
Utility Facilities	47.1	0.6%
Water	178.4	2.2%
Totals	7981.6	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	206.2	11.53%
Education K-12	13.1	0.73%
General Commercial	17.8	0.99%
General Office Use	0.5	0.03%
Light Industrial	27.9	1.56%
Light Manufacturing	82.9	4.63%
Mixed Residential	5.4	0.30%
Multi-Family Residential	11.4	0.64%
Open Space and Recreation	629.6	35.20%
Public Facilities	9.3	0.52%
Single Family Residential	561.7	31.40%
Specific Plan	8.0	0.45%
Transportation	96.4	5.39%
Undevelopable or Protected Land	71.4	3.99%
Utility Facilities	47.1	2.64%
Totals	1788.7	100.0%

Ojai

Station: MO-OJA (Ojai-1)

Waterbody: Fox Canyon Barranca (tributary to San

Antonio Creek)

Location: Concrete box channel upstream Ojai Valley Athletic Club and downstream pedestrian walkway

(34°26'41.26"N, 119°14'28.32"W)

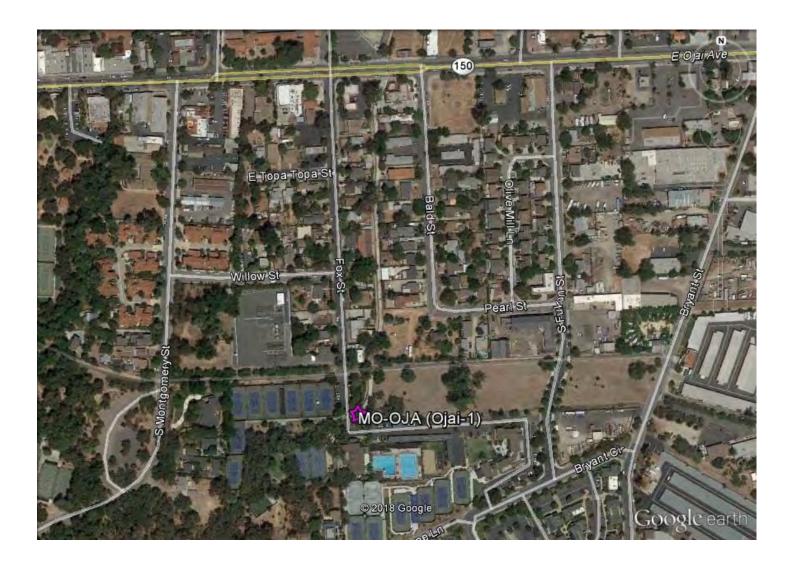
Known Issues: Repeated discharges directly upstream of station from Ojai Valley Athletic Club swimming

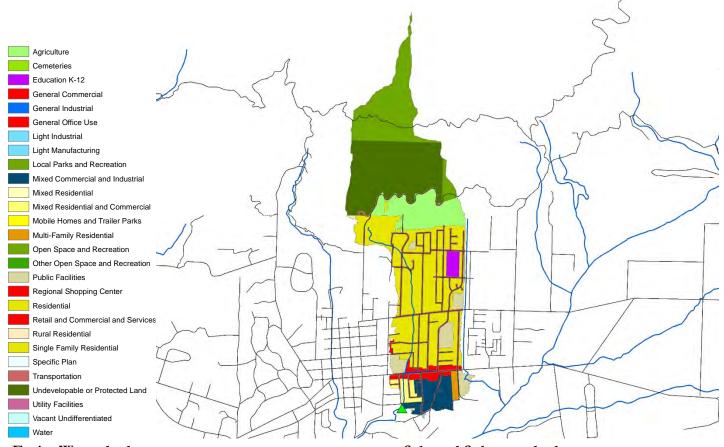
pool.

Dry Season Flow Potential: Frequently dry outside of

wet season storms.







Entire	Watershed
Liiuic	w attisiitu

Land Use	Acres	% of Total Watershed
Agriculture	100.0	3.6%
Education K-12	48.5	1.7%
General Commercial	98.0	3.5%
Light Manufacturing	18.6	0.7%
Mixed Commercial and Industrial	39.7	1.4%
Mixed Residential and Commercial	64.0	2.3%
Multi-Family Residential	9.8	0.4%
Open Space and Recreation	244.9	8.8%
Public Facilities	530.2	19.0%
Rural Residential	0.1	0.0018%
Single Family Residential	1158.3	41.4%
Transportation	273.9	9.8%
Undevelopable or Protected Land	208.6	7.5%
Totals	2794.8	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	69.4	9.38%
Education K-12	9.2	1.25%
General Commercial	15.9	2.15%
Light Manufacturing	0.3	0.04%
Mixed Commercial and Industrial	32.4	4.38%
Mixed Residential and Commercial	11.2	1.52%
Multi-Family Residential	5.1	0.69%
Open Space and Recreation	115	15.54%
Public Facilities	31.7	4.28%
Rural Residential	0.9	0.12%
Single Family Residential	228.1	30.83%
Transportation	65.2	8.81%
Undevelopable or Protected Land	155.4	21.00%
Totals	739.7	100.00%

Oxnard

Station: MO-OXN (Oxnard-1)

Waterbody: El Rio Drain (tributary to Santa Clara

River)

Location: Pedestrian bridge 50 yds. southwest bend of

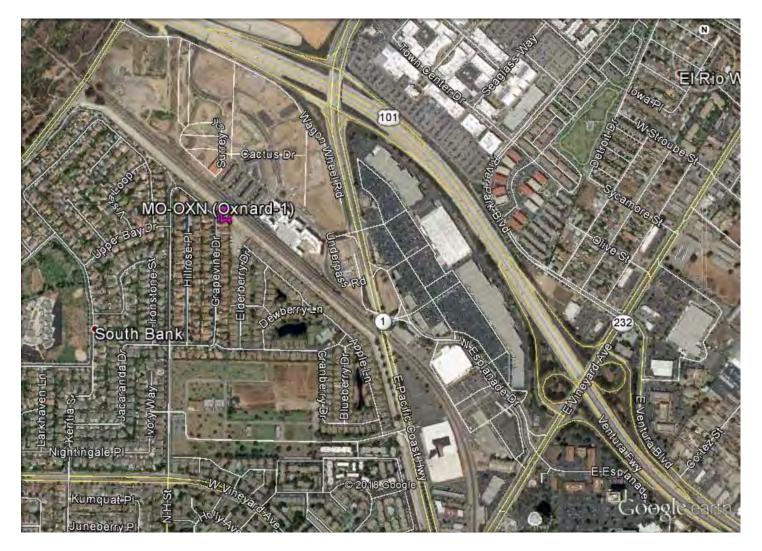
Winchester Dr. (34°14'10.13"N, 119°11'3.88"W)

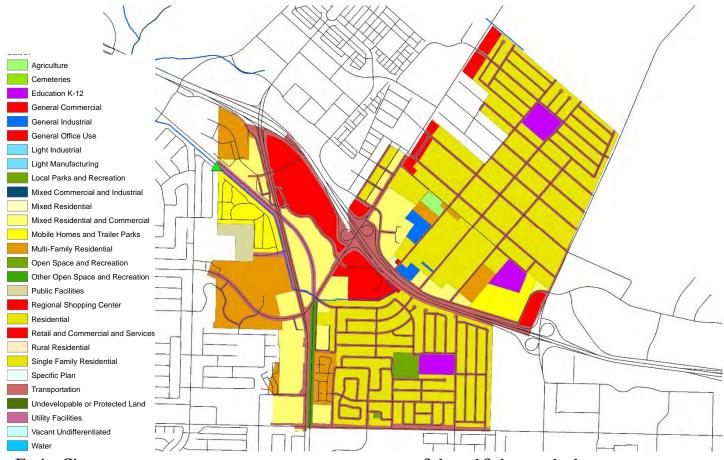
Known Issues: Frequent presence of homeless and

vandals in area.

Dry Season Flow Potential: Intermittent year-round flow due to urban runoff but is typically dry in the dry season.







Land Use	Acres	% of Total Watershed
Agriculture	864.4	5.0%
Education K-12	644.7	3.7%
General Commercial	19.1	0.1%
General Industrial	73.3	0.4%
General Office Use	54.9	0.3%
Heavy Industrial	231.7	1.3%
Light Manufacturing	1555.7	9.0%
Military Installations	0.4	0.0%
Mixed Commercial and Industrial	346.5	2.0%
Mixed Residential and Commercial	814.3	4.7%
Mobile Homes and Trailer Parks	242.7	1.4%
Multi-Family Residential	1446.2	8.3%
Open Space and Recreation	807.3	4.7%
Other Open Space and Recreation	441.7	2.5%
Public Facilities	99.9	0.6%
Regional Shopping Center	339.3	2.0%
Residential	524.3	3.0%
Single Family Residential	3706.4	21.4%
Transportation	3718.5	21.4%
Undevelopable or Protected Land	1000.7	5.8%
Utility Facilities	413.9	2.4%
Totals	17346.1	100.0%

		% of Total
Land Use	Acres	Watershed
Agriculture	3.9	0.3%
Education K-12	28.8	2.3%
General Commercial	14.7	1.2%
General Industrial	9.5	0.8%
General Office Use	23.7	1.9%
Mixed Residential and Commercial	141.3	11.3%
Mobile Homes and Trailer Parks	53.1	4.3%
Multi-Family Residential	103.7	8.3%
Open Space and Recreation	9.0	0.7%
Other Open Space and Recreation	7.2	0.6%
Public Facilities	11.9	1.0%
Regional Shopping Center	52.8	4.2%
Single Family Residential	503.9	40.5%
Transportation	264.7	21.3%
Utility Facilities	17.4	1.4%
Totals	1245.6	100.0%

Port Hueneme

Station: MO-HUE (Port Hueneme-1) Waterbody: Hueneme Drain (tributary to

Pacific Ocean)

Location: Pump Station 300 yds. downstream Surfside Dr. (34°8'27.06"N, 119°11'17.72"W)

Known Issues: Water tends to back up at pump station when pumps are off. Salinity varies due

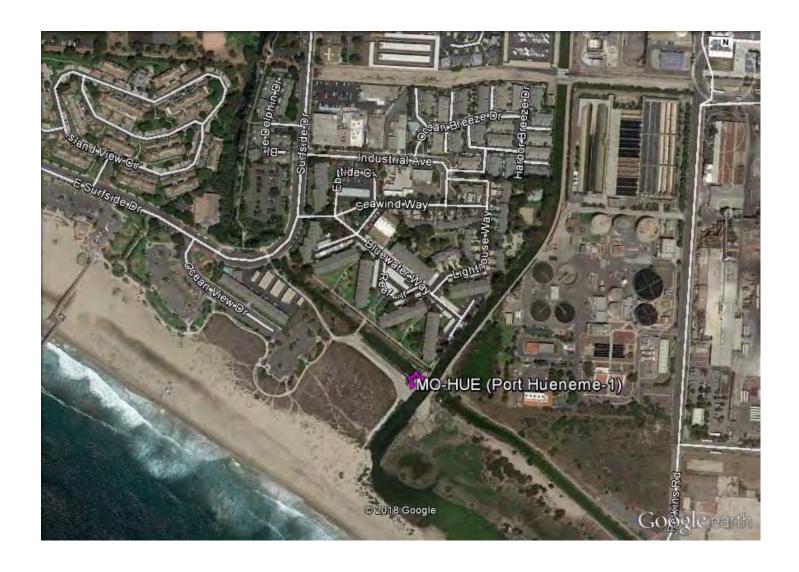
to ocean influence.

Dry Season Flow Potential: Year-round flow

due to urban runoff and groundwater

contribution







Entire City		
Land Use	Acres	% of Total Watershed
Education K-12	33.4	1.2%
General Commercial	71.6	2.5%
Light Manufacturing	13.4	0.5%
Military Installations	1574.1	54.6%
Mixed Residential and Commercial	11.7	0.4%
Multi-Family Residential	330.1	11.4%
Open Space and Recreation	122.6	4.3%
Other Commercial	1.5	0.1%
Public Facilities	9.5	0.3%
Single Family Residential	317.0	11.0%
Transportation	386.4	13.4%
Undevelopable or Protected Land	12.4	0.4%
Utility Facilities	0.3	0.4%
Totals	2884.1	100.0%

Science Subwatershed			
Land Use	Acres	% of Total Watershed	
Education K-12	27.1	4.5%	
General Commercial	9.7	1.6%	
General Industrial	1.3	0.2%	
Light Manufacturing	8.1	1.3%	
Multi-Family Residential	97.1	16.2%	
Open Space and			
Recreation	44.6	7.4%	
Public Facilities	8.9	1.5%	
Single Family Residential	265.3	44.2%	
Transportation	132.6	22.1%	
Undevelopable or Protected Land	0.0	0.0%	
Utility Facilities	0.3	0.1%	
Vacant Undifferentiated	5.1	0.8%	
Totals	599.9	100.0%	

Santa Paula

Station: MO-SPA (Santa Paula-1)

Waterbody: 11th Street Drain (tributary to Santa

Clara River)

Location: Upstream Santa Paula Airport (34°20'54.98"N, 119° 3'20.10"W)

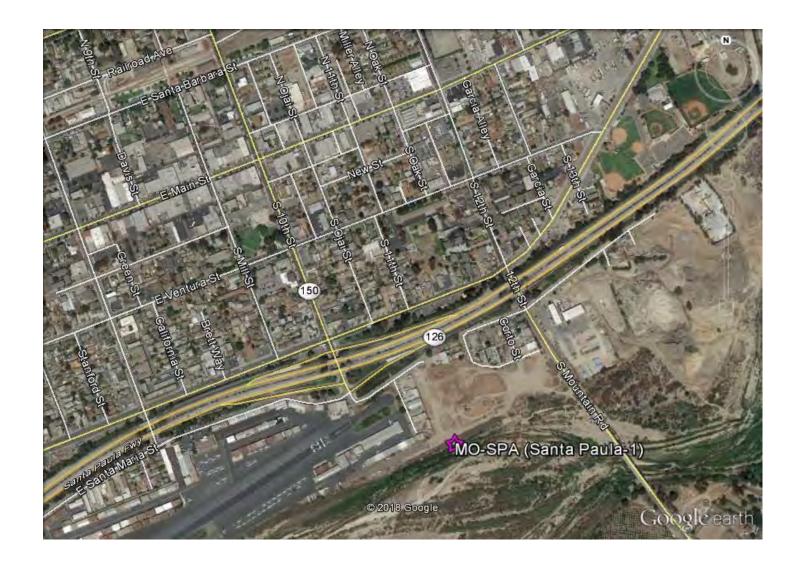
Known Issues: Homeless presence and vandalism

frequent in area.

Dry Season Flow Potential: Typically dry between

storms. Very infrequent dry weather flow.







Entire City		
Land Use	Acres	% of Total Watershed
Agriculture	454.6	12.4%
Education K-12	8.3	0.2%
General Office Use	24.2	0.7%
Light Industrial	145.6	4.0%
Light Manufacturing	80.6	2.2%
Local Parks and Recreation	68.8	1.9%
Mixed Commercial and Industrial	200.1	5.5%
Mixed Residential and Commercial	20.3	0.6%
Mobile Homes and Trailer Parks	82.1	2.2%
Multi-Family Residential	330.6	9.0%
Open Space and Recreation	298.4	8.2%
Public Facilities	159.2	4.4%
Retail and Commercial and Services	144.3	4.0%
Single Family Residential	828.0	22.7%
Specific Plan	211.0	5.8%
Transportation	597.3	16.3%
Totals	3653.5	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	8.0	2.2%
Education K-12	8.3	2.2%
General Office Use	0.8	0.2%
Light Industrial	1.5	0.4%
Local Parks and Recreation	11.0	3.0%
Mixed Commercial and Industrial	18.6	5.0%
Mixed Residential and Commercial	0.9	0.2%
Mobile Homes and Trailer Parks	12.8	3.5%
Multi-Family Residential	71.2	19.3%
Open Space and Recreation	0.6	0.2%
Public Facilities	11.3	3.1%
Retail and Commercial and Services	9.7	2.6%
Single Family Residential	141.9	38.4%
Transportation	72.7	19.7%
Totals	369.2	100.0%

Simi Valley

Station: MO-SIM (Simi Valley-1)

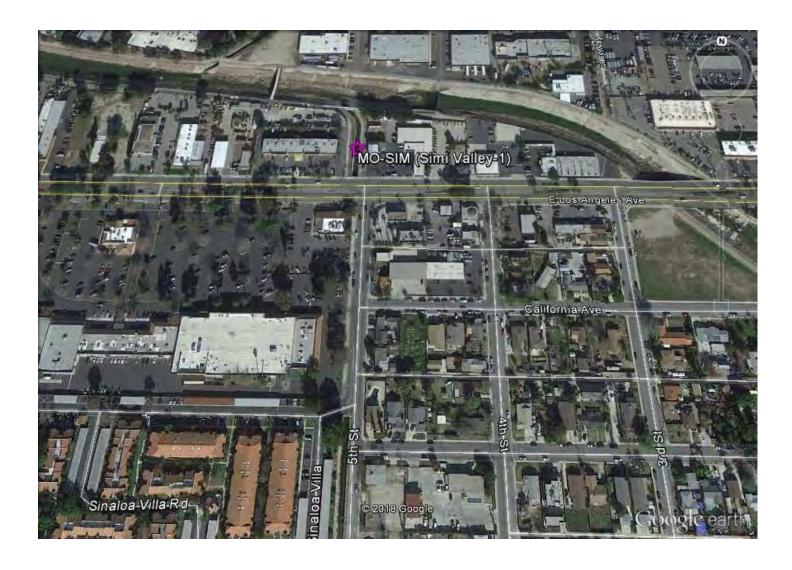
Waterbody: Bus Canyon Drain (tributary to Arroyo

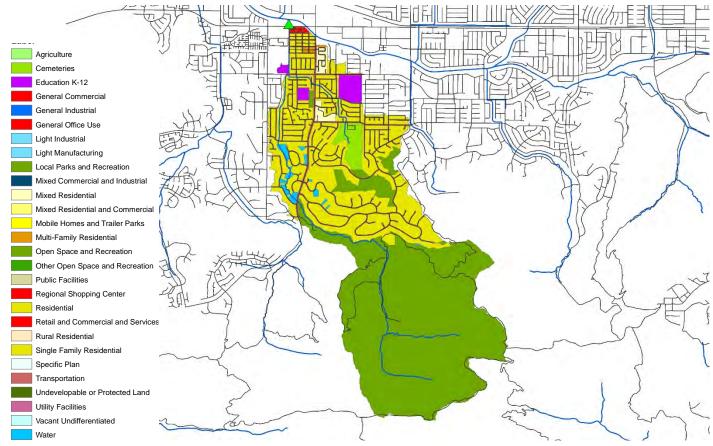
Simi)

Location: North of intersection at 5th St. and Los Angeles Ave. (34°16'19.55"N, 118°47'1.41"W)

Known Issues: Homeless have been known to camp in area. High salinity due to groundwater discharge **Dry Season Flow Potential:** Year-round flow due to urban runoff and/or groundwater discharge upstream







Entire City		% of Total
Land Use	Acres	Watershed
Agriculture	134.2	0.5%
Cemeteries	234.0	0.9%
Education College	84.9	0.3%
Education K-12	75.8	0.3%
General Office Use	97.4	0.4%
Golf Courses	856.8	3.2%
Light Industrial	1173.7	4.3%
Local Parks and Recreation	555.2	2.1%
Mixed Residential	987.4	3.6%
Mixed Residential and Commercial	143.6	0.5%
Mobile Homes and Trailer Parks	68.1	0.3%
Multi-Family Residential	550.7	2.0%
Open Space and Recreation	9693.6	35.8%
Other Commercial	39.5	0.1%
Public Facilities	87.9	0.3%
Retail and Commercial and Services	653.6	2.4%
Single Family Residential	7712.5	28.5%
State and National Parks and Recreation	54.5	0.2%
Transportation	3536.0	13.1%
Water	313.2	1.2%
Totals	27052.5	100.0%

		% of Total
Land Use	Acres	Watershed
Cemeteries	62.3	2.0%
Education K-12	59.4	1.9%
Local Parks and Recreation	5.5	0.2%
Mixed Residential	32.7	1.0%
Multi-Family Residential	5.7	0.2%
Open Space and Recreation	1747.4	55.3%
Retail and Commercial and Services	5.6	0.2%
Single Family Residential	967.4	30.6%
Transportation	239.7	7.6%
Water	34.6	1.1%
Totals	3160.2	100.0%

Thousand Oaks

Station: MO-THO (Thousand Oaks-1)

Waterbody: North Fork Arroyo Conejo (tributary to

Conejo Creek)

Location: Hill Canyon WWTP sampling location R-

1 (34°12'48.03"N, 118°55'17.09"W)

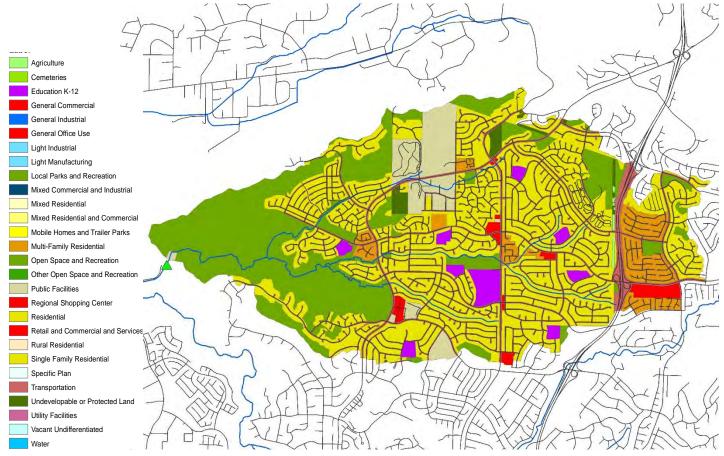
Known Issues: Rare access issues due to locked

gates.

Dry Season Flow Potential: Year-round flow due to urban runoff however site does experience backwater effects from WWTP discharge in very dry weather.







Entire City	ı	
Land Use	Acres	% of Total Watershed
Agriculture	61.1	0.2%
Education K-12	423.0	1.2%
General Commercial	1049.4	3.0%
General Industrial	945.2	2.7%
Local Parks and Recreation	11.3	0.039/
Mixed Residential and	11.3	0.03%
Commercial	254.0	0.7%
Mobile Homes and		
Trailer Parks	144.2	0.4%
Multi-Family Residential	2068.3	5.8%
Open Space and		
Recreation	15007.8	42.3%
Other Open Space and		
Recreation	40.6	0.1%
Public Facilities	518.2	1.5%
Residential	633.8	1.8%
Single Family Residential	9531.2	26.9%
Transportation	4041.7	11.4%
Undevelopable or		
Protected Land	725.4	2.0%
Water	30.7	0.1%
Totals	35485.7	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	7.9	0.2%
Education K-12	123.6	2.4%
General Commercial	73.7	1.4%
Local Parks and		
Recreation	3.5	0.1%
Multi-Family Residential	221.0	4.3%
Open Space and		
Recreation	1329.0	26.0%
Public Facilities	300.1	5.9%
Residential	8.4	0.2%
Single Family Residential	2175.4	42.6%
Transportation	818.1	16.0%
Undevelopable or		
Protected Land	50.6	1.0%
Totals	5111.4	100.0%

Ventura

Station: MO-VEN (Ventura-1)

Waterbody: Moon Ditch (tributary to Santa Clara

River)

Location: Between Leland St. and US 101, north of

Johnson Dr. (34°14'36.69"N, 119°11'42.06"W)

Known Issues: Wide concrete bottom spreads out

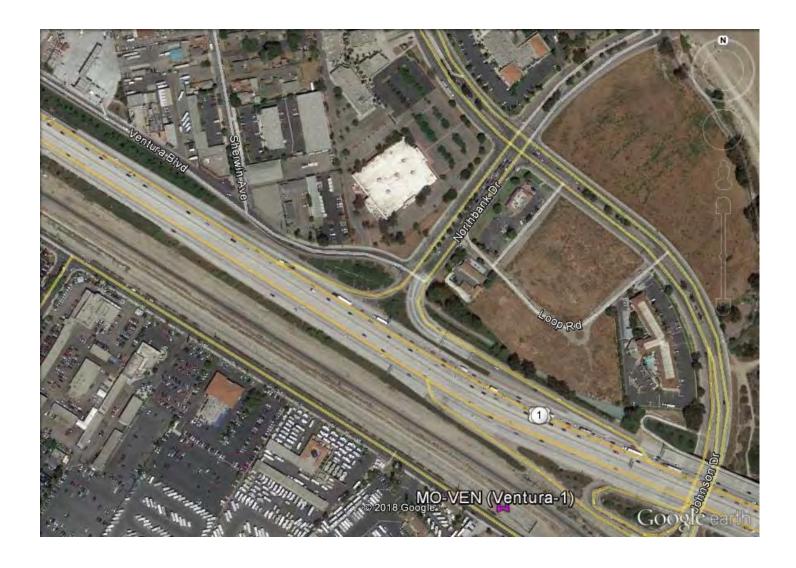
low flows.

Dry Season Flow Potential: Intermittent year-round

flow due to urban runoff and/or groundwater

discharge





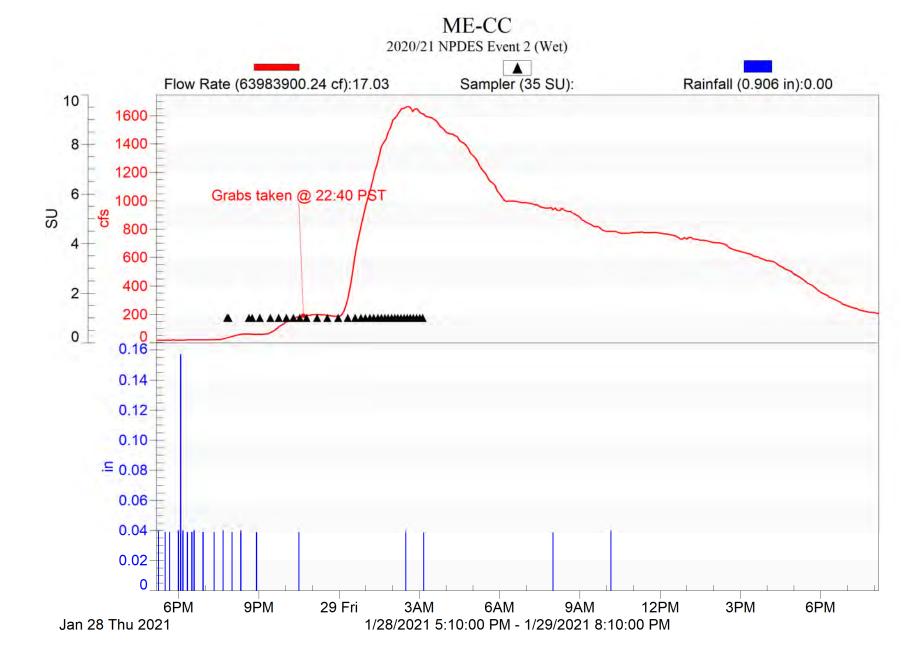


Land Use	Acres	% of Total Watershed
Agriculture	482.9	3.4%
Education K-12	6.8	0.05%
General Industrial	937.7	6.6%
Mixed Residential and Commercial	1447.0	10.2%
Multi-Family Residential	994.7	7.0%
Open Space and Recreation	1432.5	10.1%
Public Facilities/Schools	561.1	3.9%
Rural Residential	0.4	0.0%
Single Family Residential	4806.2	33.8%
Specific Plan	548.9	3.9%
Transportation	2989.6	21.0%
Totals	14207.8	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	6.3	0.8%
Education K-12	6.8	0.9%
General Industrial	94.4	12.5%
Mixed Residential and Commercial	158.2	20.9%
Multi-Family Residential	161.0	21.3%
Open Space and Recreation	1.8	0.2%
Single Family Residential	123.7	16.4%
Transportation	203.1	26.9%
Totals	755.3	100.0%

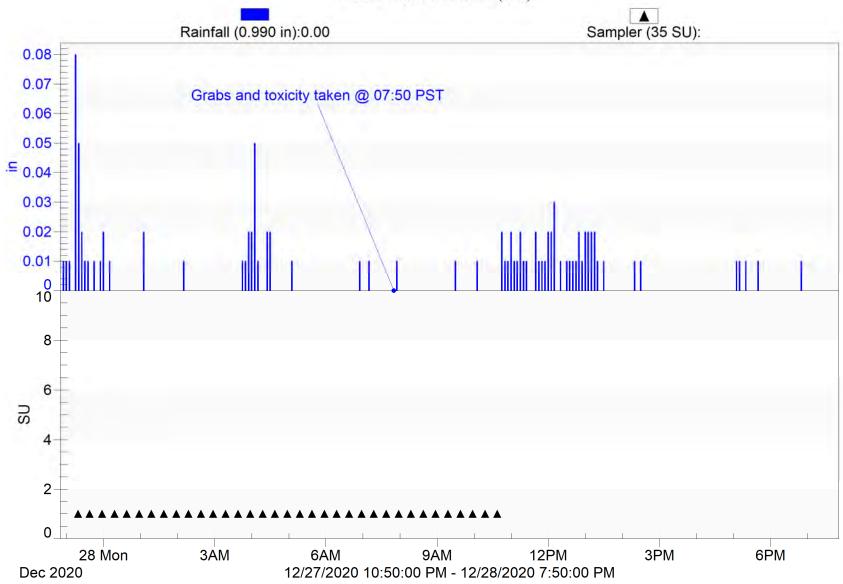
Appendix B. Event Hydrographs

ME-CC 2020/21 NPDES Event 1 (Wet) Flow Rate (88310162.88 cf):2.28 Sampler (35 SU): Rainfall (1.52 in):0.00 10 1600 8 1400 Grabs and toxicity taken @ 06:10 PST 1200 6 1000 S Pre-storm rise in stage caused sampler to enable 800 600 400 2 200 0 0.12 0.10 0.08 .⊑ 0.06 0.04 0.02 0 9PM 28 Mon 3AM 9AM 12PM 3PM 9PM 29 Tue 3AM 3PM 6AM 6PM 6AM 9AM 12PM Dec 27 Sun 2020 12/27/2020 2:00:00 PM - 12/29/2020 12:00:00 PM

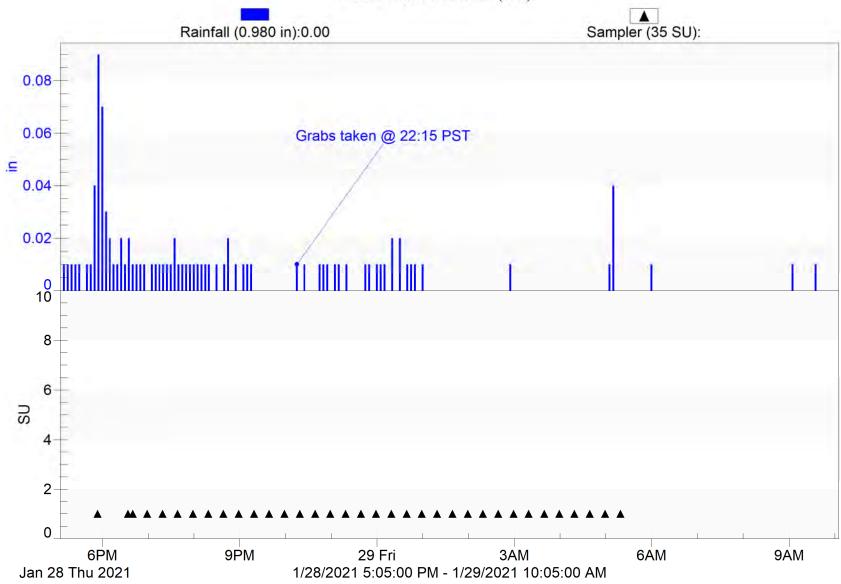


ME-CC 2020/21 NPDES Event 3 (Wet) Rainfall (0.551 in): Flow Rate (15013688.08 cf): Sampler (35 SU):Bottle #0 10 300 Grabs taken @ 11:40 PST 8 250 200 6 S 150 100 50 0 0.08 0.07 0.06-0.05 .⊑ 0.04 0.03 0.02 0.01-3AM 6AM 9AM 12PM 3PM 6PM 9PM 11 Thu 3AM 9AM 12PM 3PM 6PM 9PM Mar 10 Wed 2021 3/10/2021 12:25:00 AM - 3/11/2021 10:25:00 PM

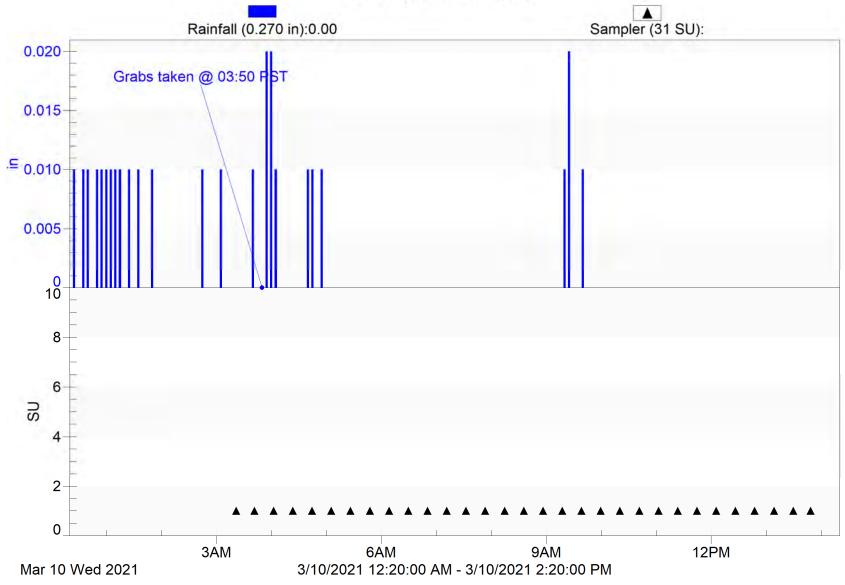
ME-SCR 2020/21 NPDES Event #1 (Wet)

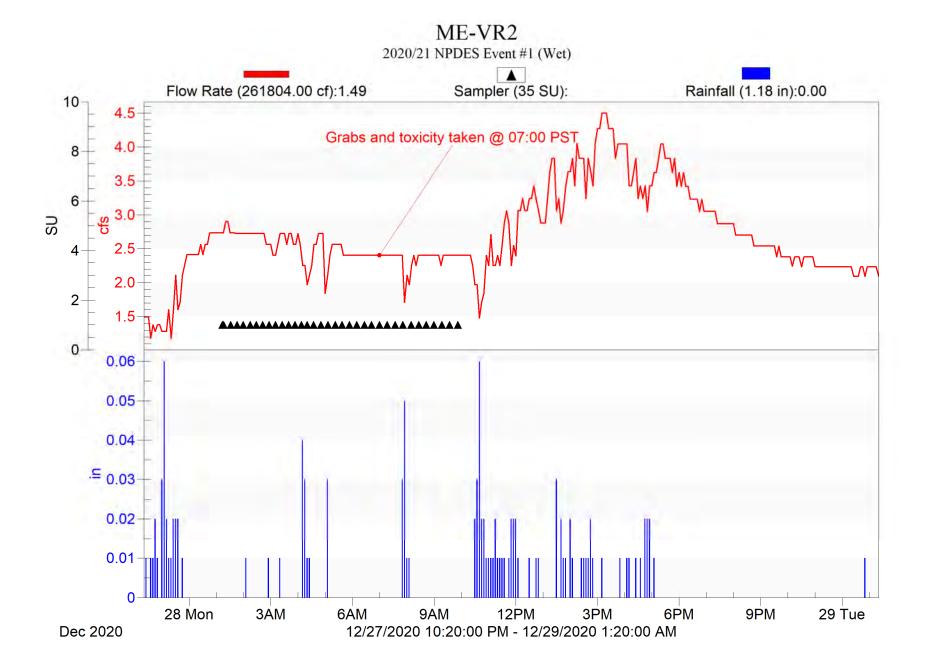


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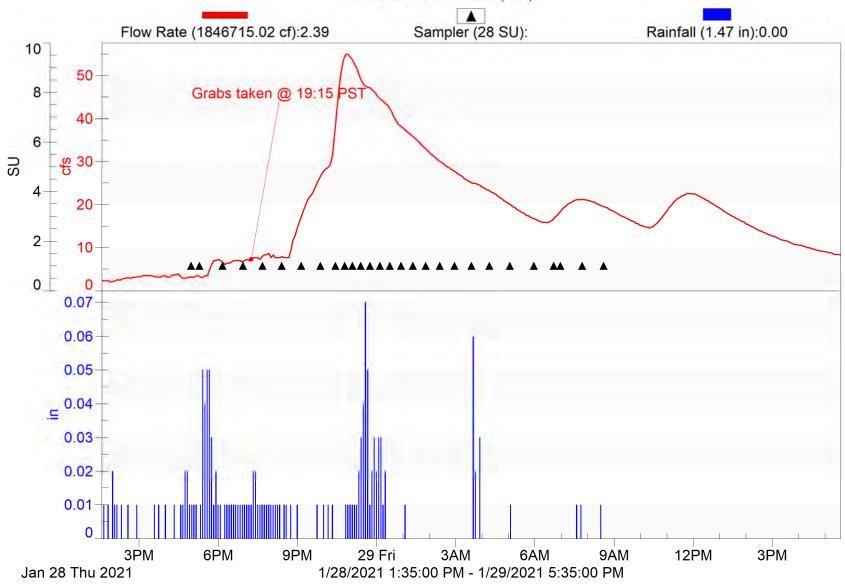


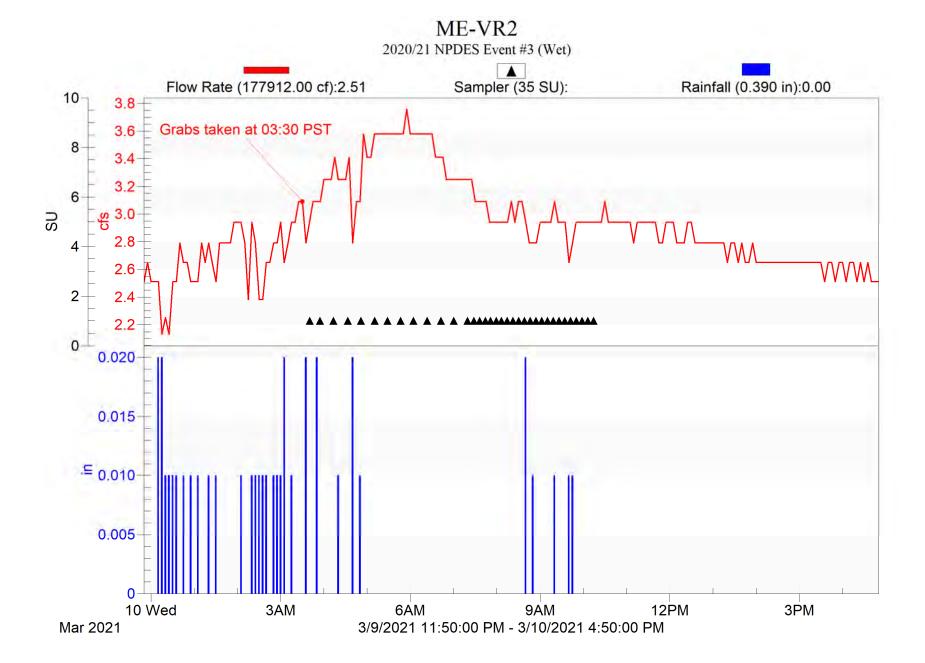
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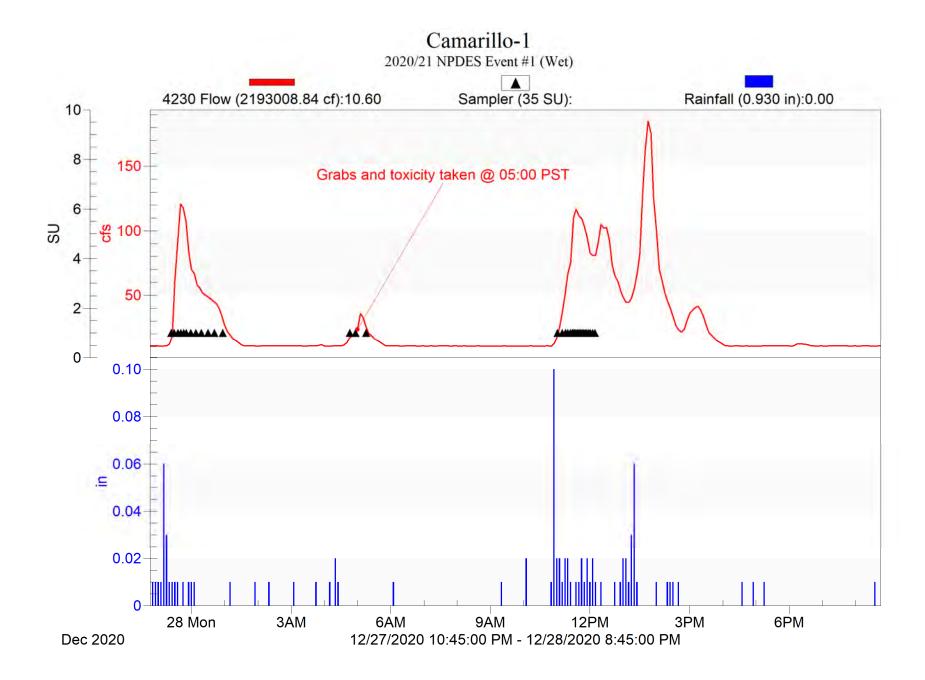


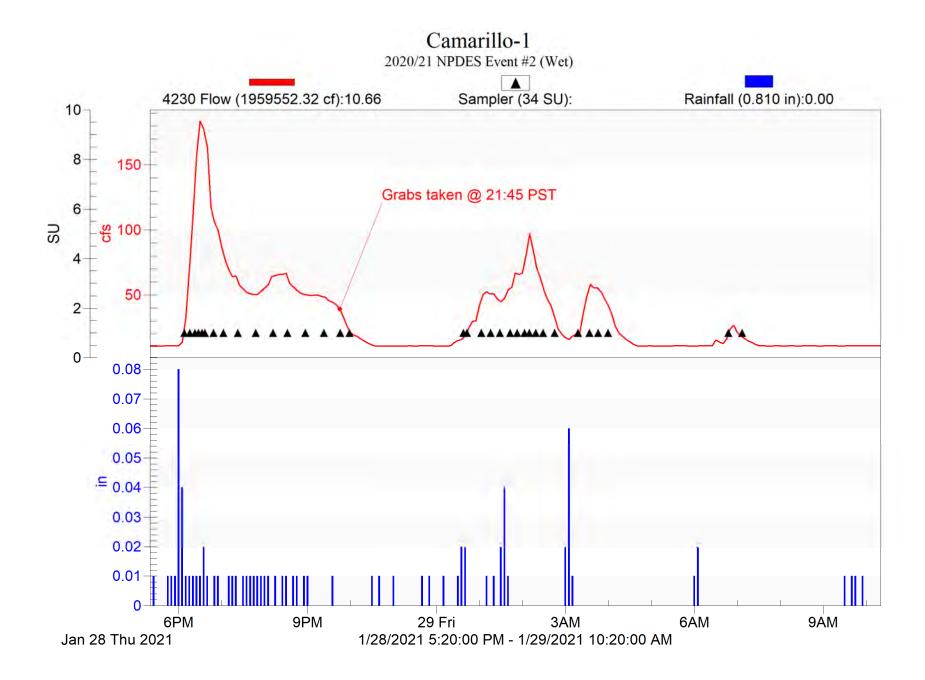


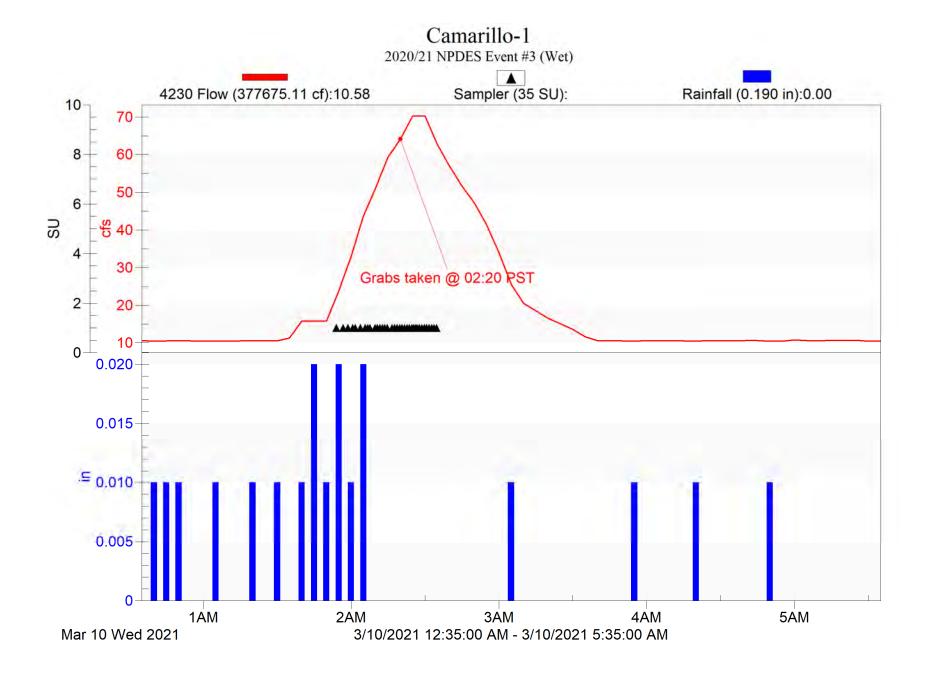
ME-VR2 2020/21 NPDES Event #2 (Wet)

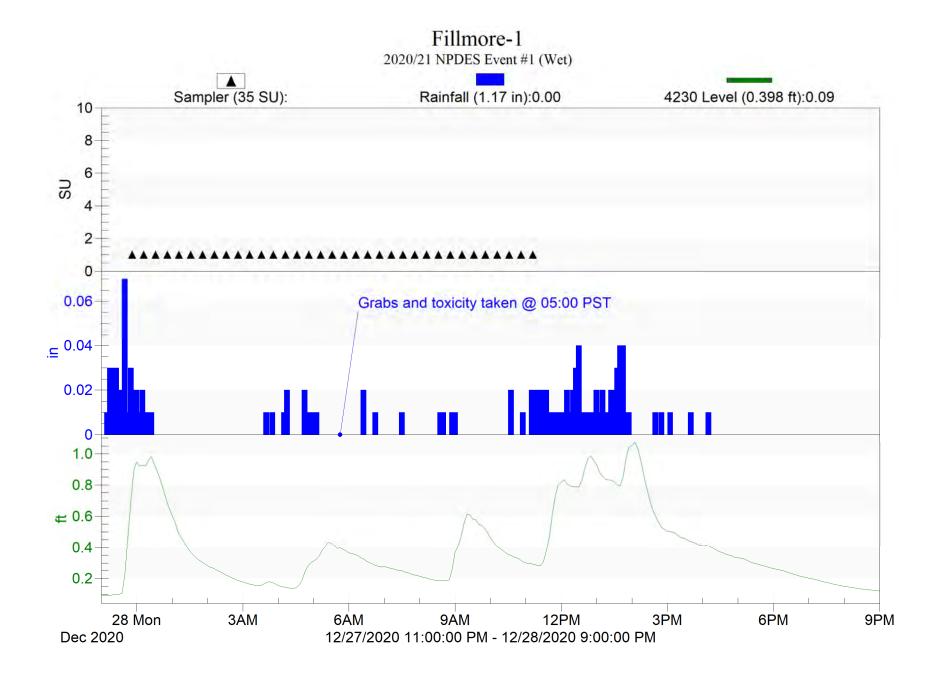


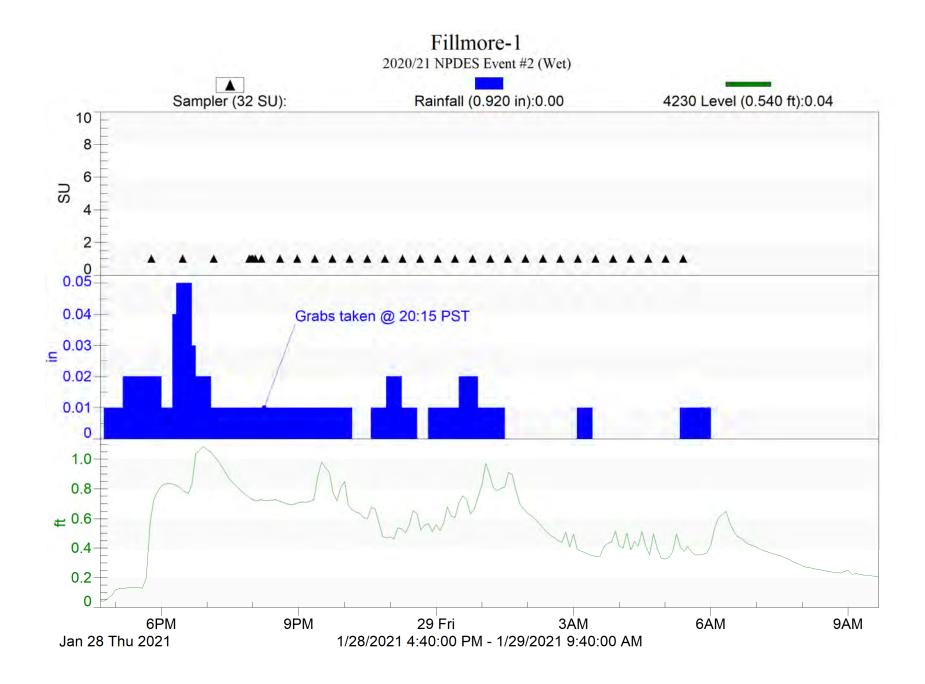


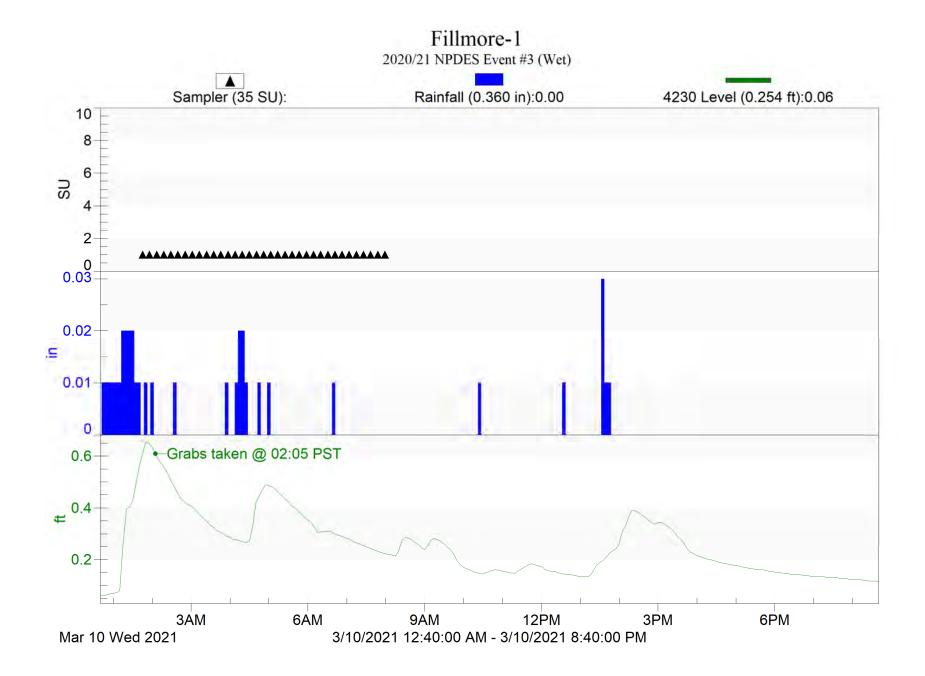




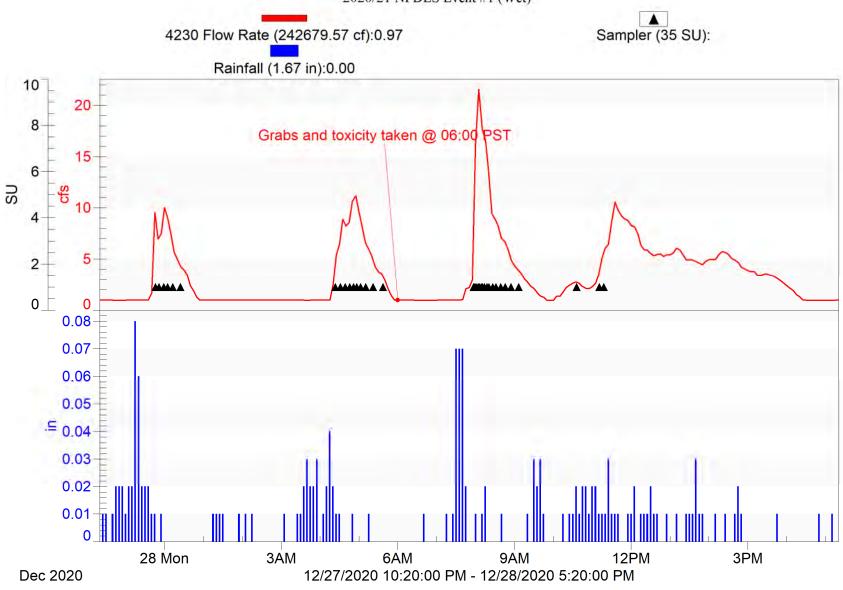




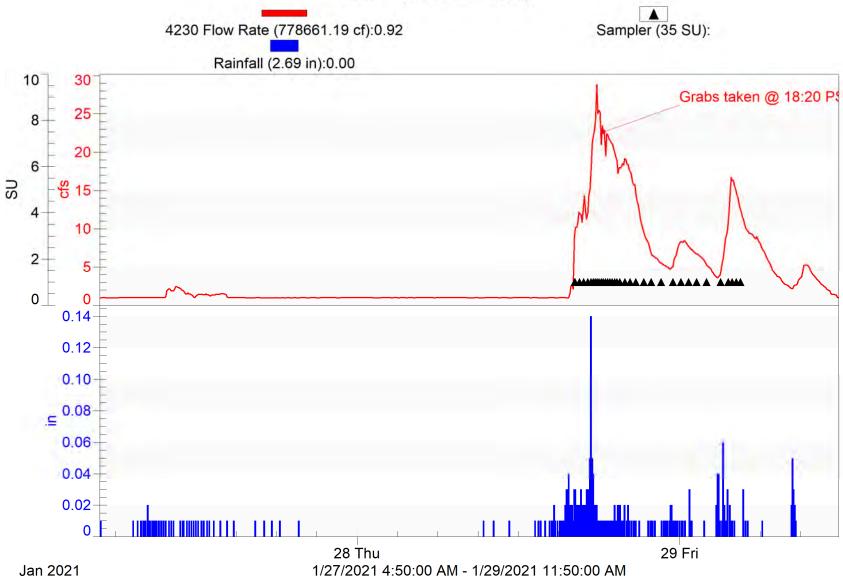


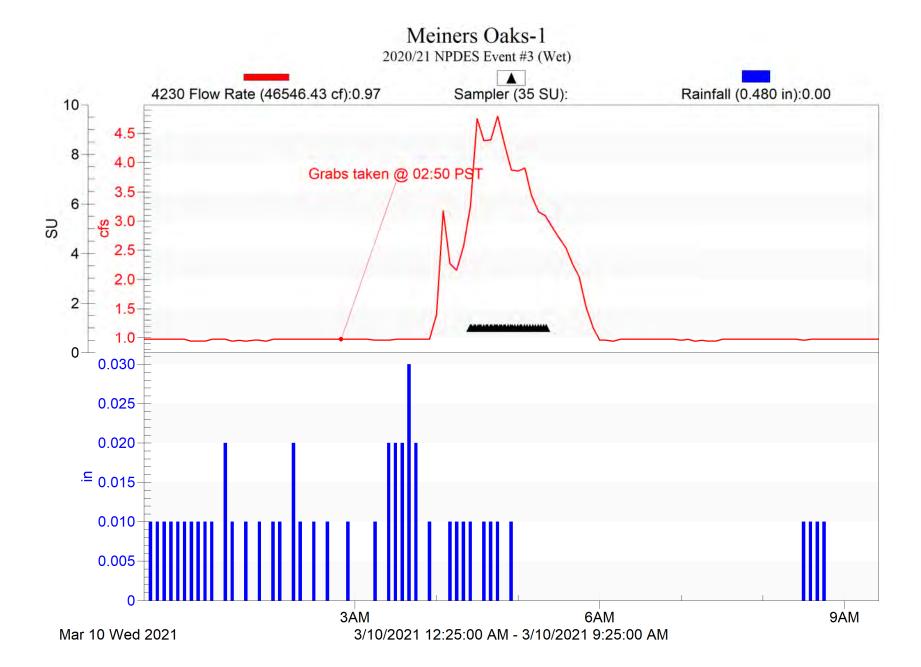


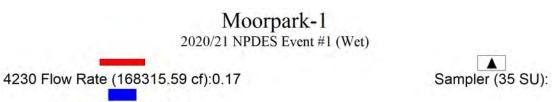
Meiners Oaks-1 2020/21 NPDES Event #1 (Wet)

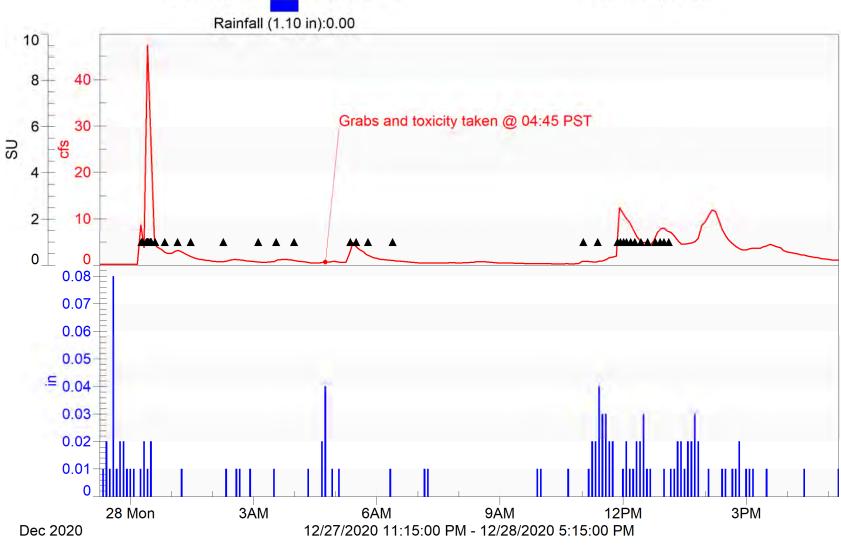


Meiners Oaks-1 2020/21 NPDES Event #2 (Wet)

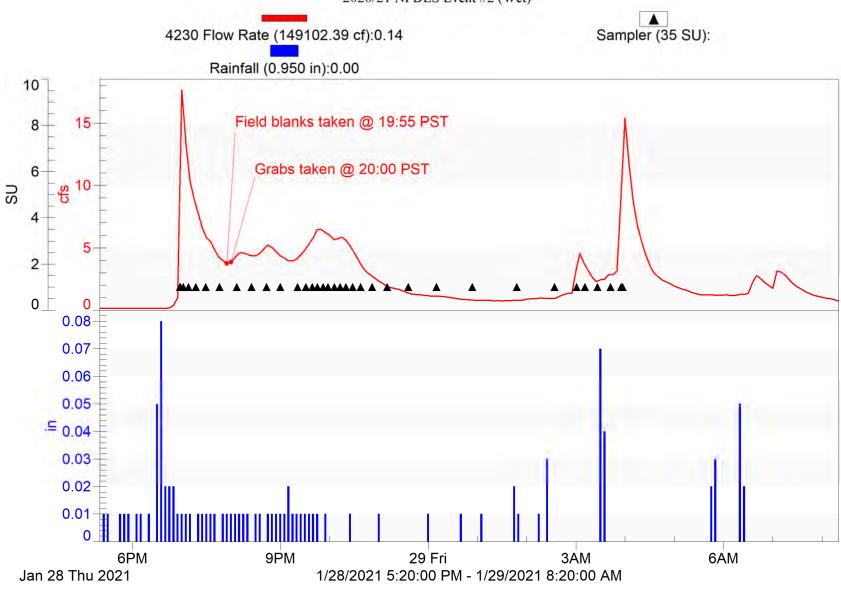


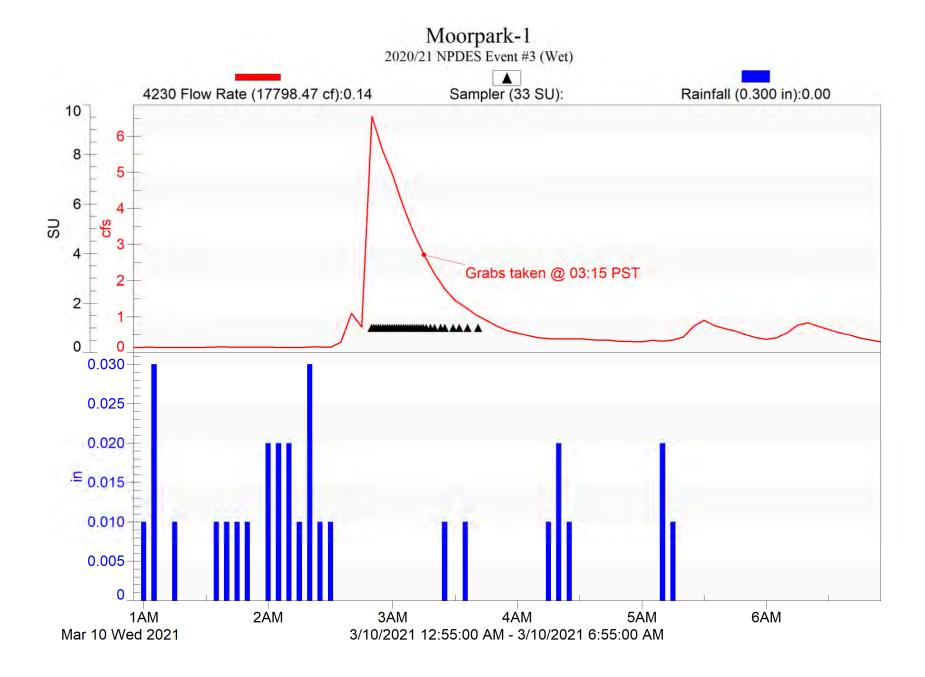






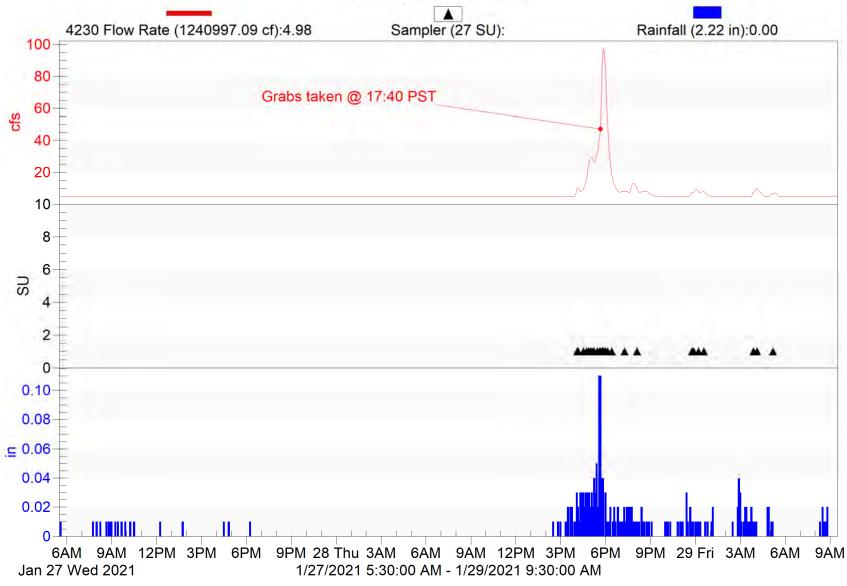
Moorpark-1 2020/21 NPDES Event #2 (Wet)





Ojai-1 2020/21 NPDES Event #1 (Wet) 4230 Flow Rate (410406.93 cf):4.98 Sampler (47 SU): Rainfall (1.55 in):0.00 20 <u>इ</u> 15 Grabs and toxicity taken @ 05:00 PST 10 5 10 8 6 SU 2 0 0.08 0.06 0.04 0.02 0 28 Mon 3PM 3AM 6AM 9AM 12PM 12/27/2020 10:30:00 PM - 12/28/2020 4:30:00 PM Dec 2020

Ojai-1 2020/21 NPDES Event #2 (Wet)

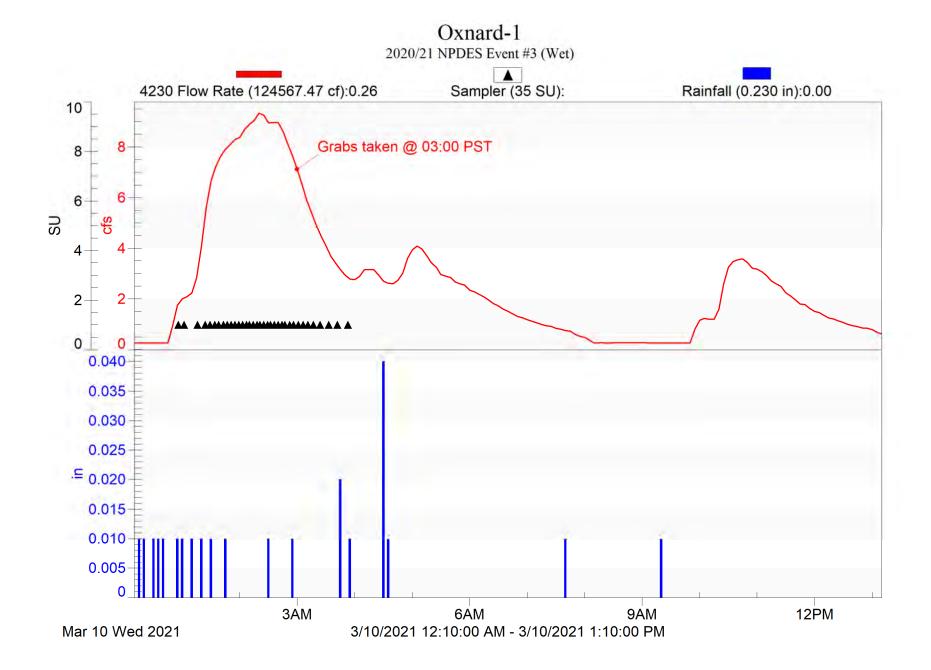


Ojai-1 2020/21 NPDES Event #3 (Wet) 4230 Flow Rate (97879.75 cf):5.03 Rainfall (0.440 in):0.00 Sampler (21 SU): 12-10 cfs Grabs taken @ 02:10 PST 6 10 8 SU 2 0.020 0.015 .⊑ 0.010 0.005 1AM 3AM 5AM 2AM 4AM Mar 10 Wed 2021 3/10/2021 12:25:00 AM - 3/10/2021 5:25:00 AM

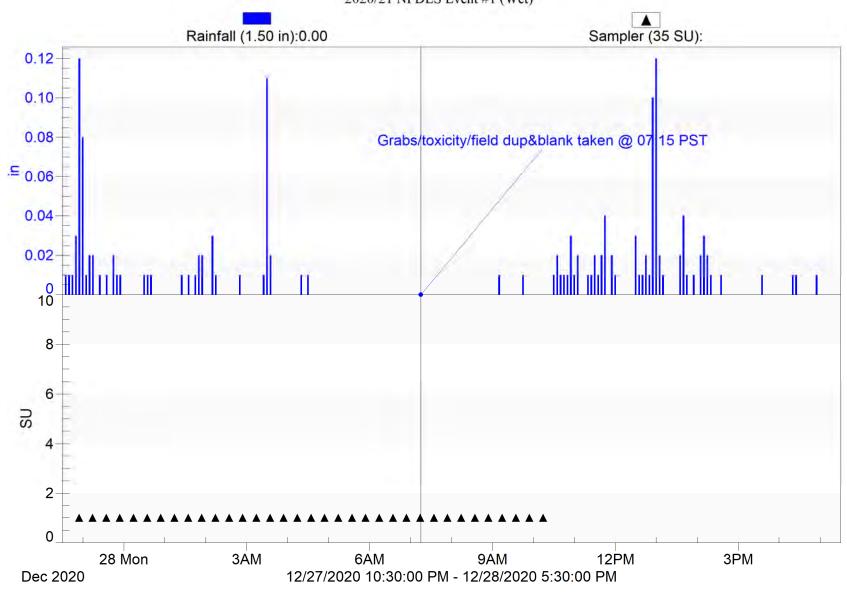
Ventura Countywide Stormwater Quality Management Program 2020/21 Annual Report

Oxnard-1 2020/21 NPDES Event #1 (Wet) Sampler (35 SU): 4230 Flow Rate (652247.79 cf):0.26 Rainfall (1.10 in):0.01 10 8 30 Grabs and toxicity taken @ 06:50 PS 6 S 10 $\blacktriangle \blacktriangle$ 0 0.07 0.06 0.05 .⊆ ^{0.04} 0.03 0.02 0.01 0 28 Mon 3AM 6AM 9AM 12PM 3PM 6PM 9PM Dec 2020 12/27/2020 10:40:00 PM - 12/28/2020 9:40:00 PM

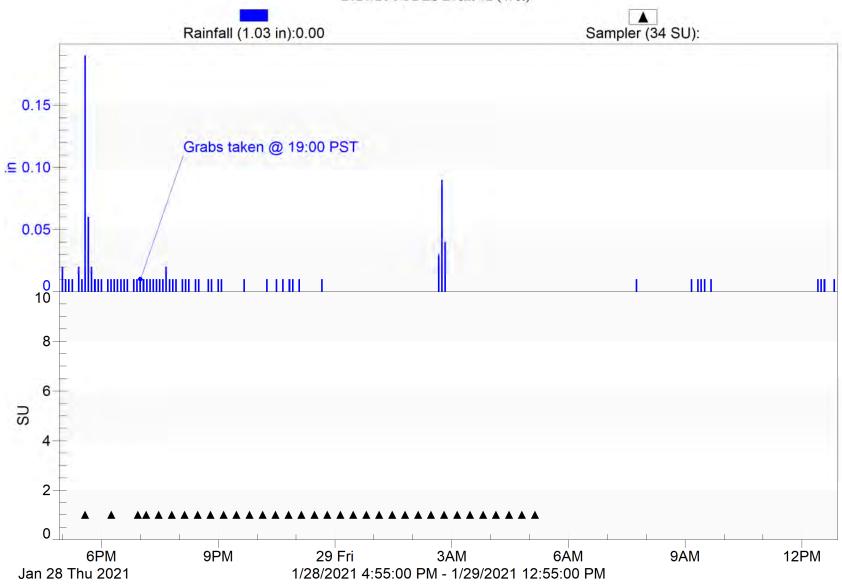
Oxnard-1 2020/21 NPDES Event #2 (Wet) Sampler (35 SU): 4230 Flow Rate (796954.60 cf):0.28 Rainfall (0.900 in):0.00 10 Grabs taken @ 20:40 PST 8 S 20 0.08 0.06 0.04 0.02 6PM 9PM 29 Fri 3AM 6AM 9AM Jan 28 Thu 2021 1/28/2021 4:45:00 PM - 1/29/2021 11:45:00 AM



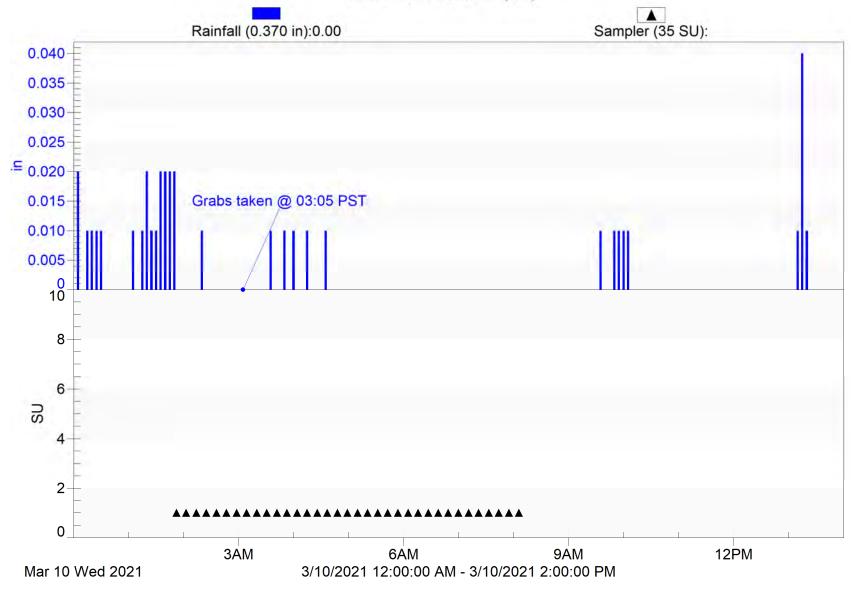
Port Hueneme-1 2020/21 NPDES Event #1 (Wet)



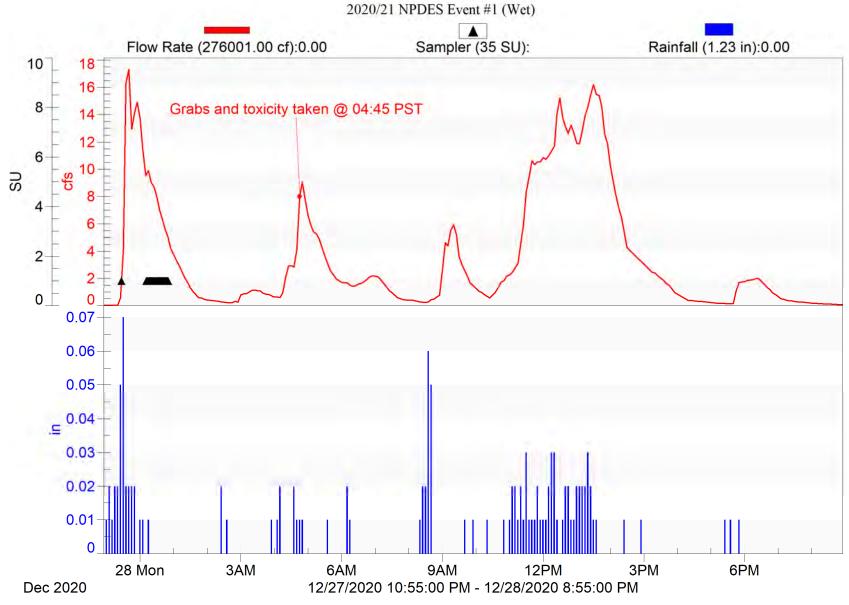
Port Hueneme-1 2020/21 NPDES Event #2 (Wet)



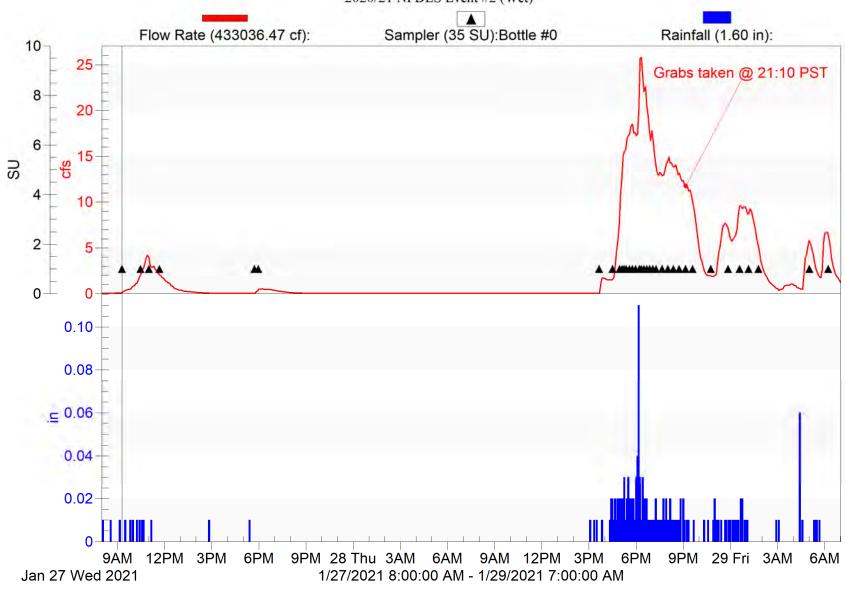
Port Hueneme-1 2020/21 NPDES Event #3 (Wet)

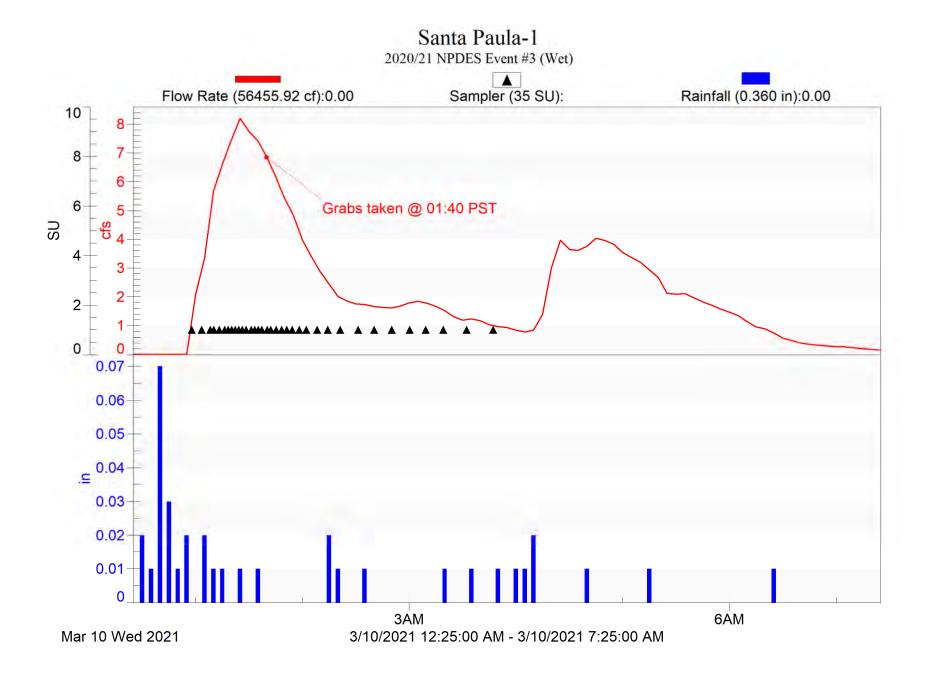


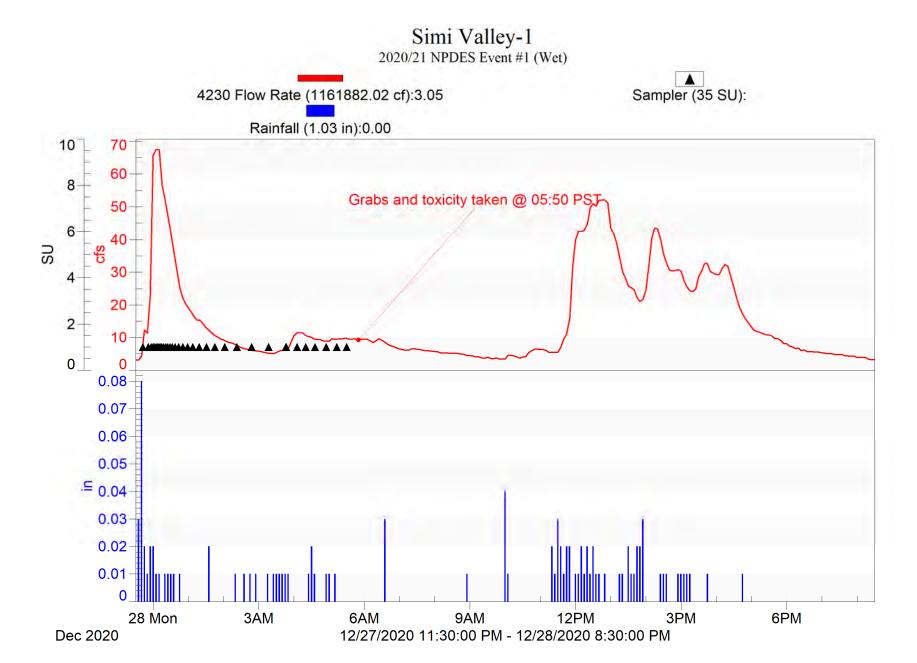




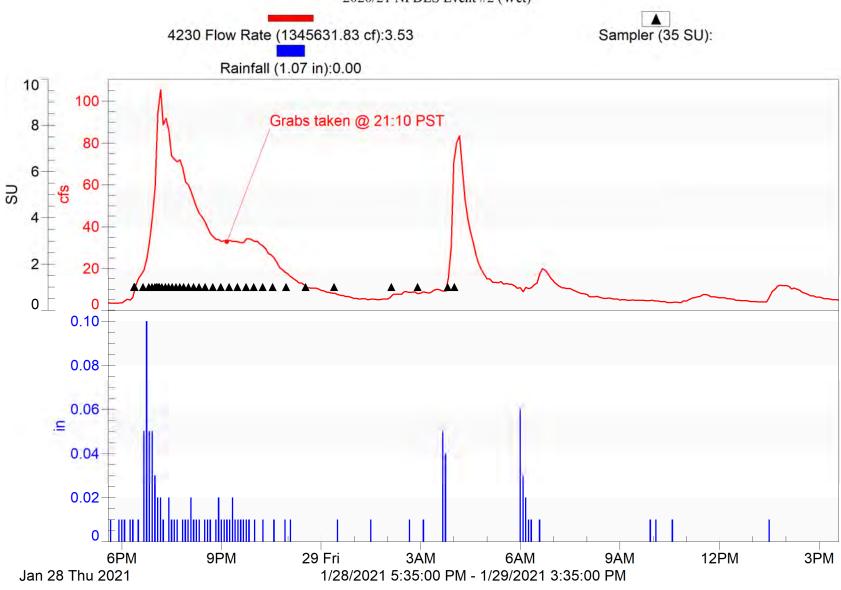
Santa Paula-1 2020/21 NPDES Event #2 (Wet)

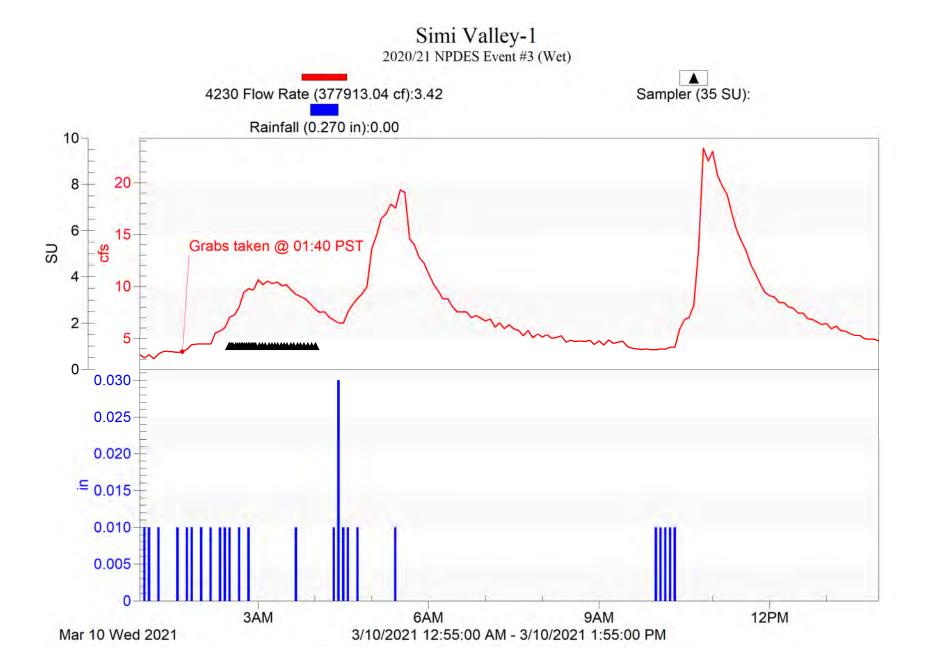


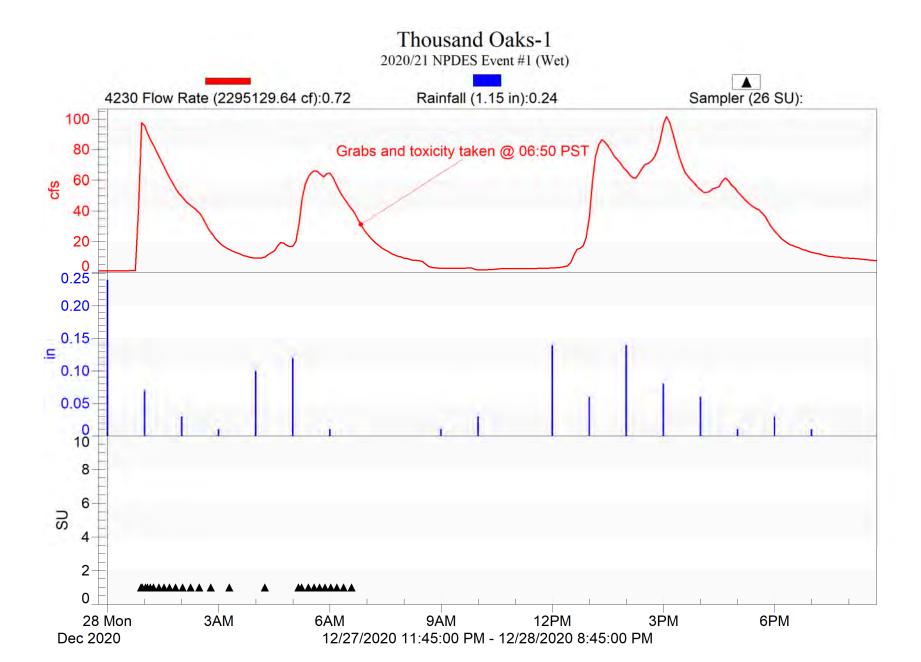




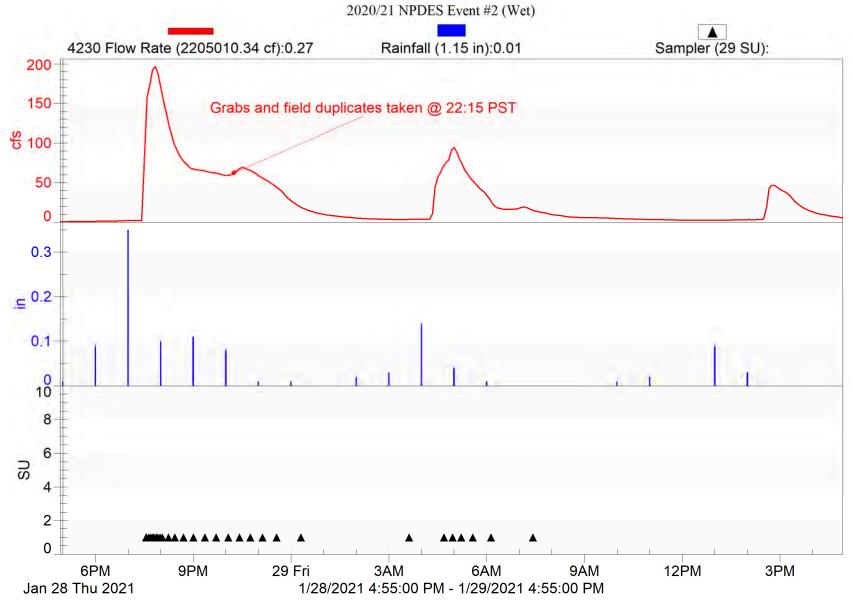


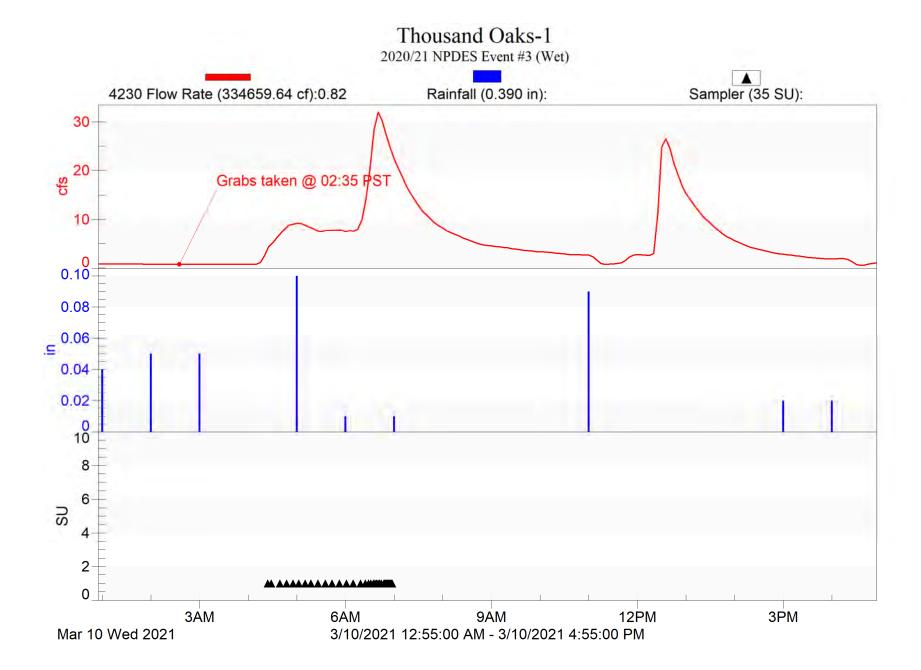


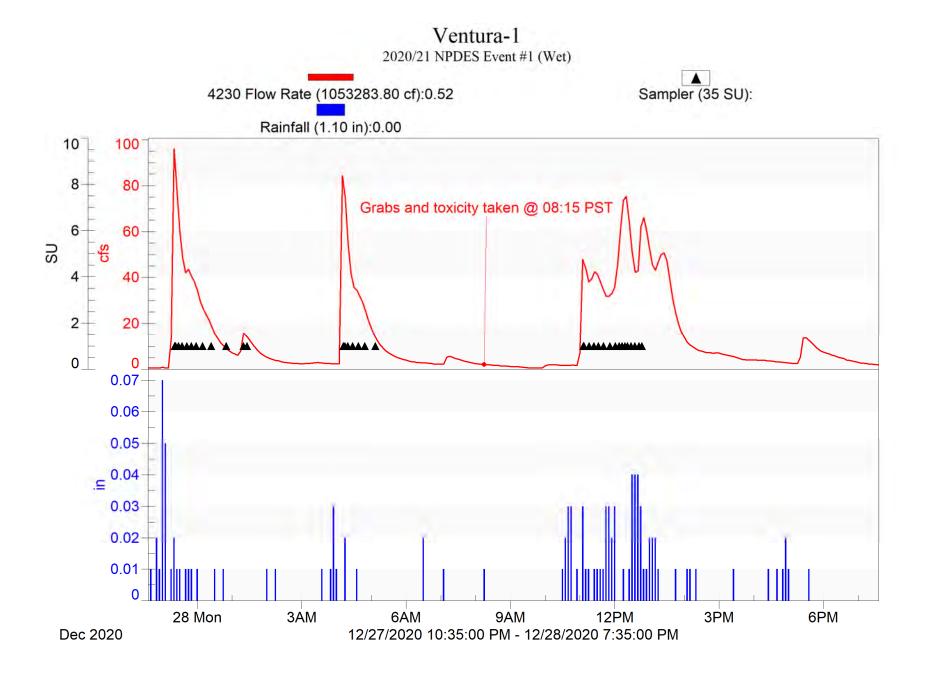




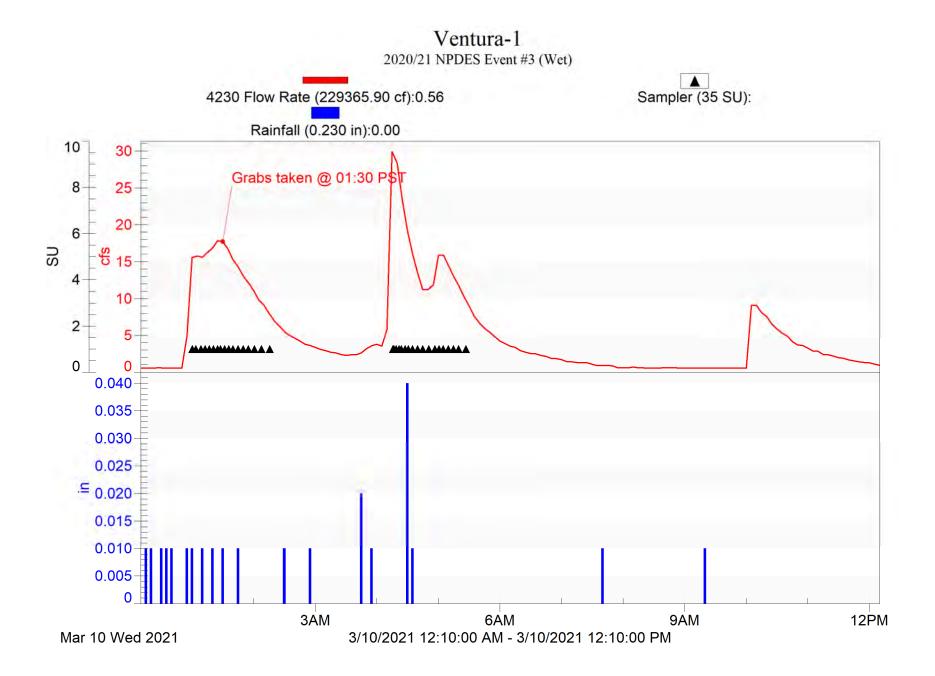
Thousand Oaks-1







Ventura-1 2020/21 NPDES Event #2 (Wet) Sampler (35 SU): 4230 Flow Rate (1240514.26 cf):0.54 Rainfall (0.910 in):0.00 10 140 Grabs taken @ 20:05 PST 120 8 100 80 S 60 40 20 0 0.08 0.06 _⊑ 0.04 0.02 0 29 Fri 28 Thu Jan 2021 1/27/2021 8:35:00 AM - 1/29/2021 12:35:00 PM



Appendix	C. NRCS Curv	ve Number M	lethodology	Discussion	n



Ventura County Watershed Protection District

Planning & Regulatory Hydrology Section MEMORANDUM

DATE: September 4, 2009 Updated August 12, 2010

TO: Tommy Liddell

VIA: Bruce Rindahl

FROM: Mark Bandurraga

SUBJECT: NPDES Monitoring Site Yield Evaluation

Per your request, we have used the land use and watershed information you provided to prepare a spreadsheet that can be used to estimate the runoff quantities from storm forecasts. The runoff quantity is estimated using the NRCS Curve Number approach that is a common method in hydrology. The results show that the weighed Curve Numbers estimated from the evaluation range from a low of about 74 for the rural Fox Canyon Drain watershed in Ojai to a high of about 91 for the urbanized watershed in the City of Ventura. The methodology and files used to calculate the Curve Numbers are described in this memo for the watersheds shown in Figures 1-4.

In August 2010 you requested results for another 7 monitoring sites across the county. This memo describes the additional work done for that request.

Curve Number Calculation Methodology

Land Use Data

Land Use data used in the study were provided by the Water Quality Section already clipped to the monitoring site boundaries and in a geodatabase. The land use data were extracted from the Assessor's Parcel database which is considered to be current as of the date of extraction (Feb 12, 2009). The various classifications in the file based on the assessor's 4-digit site use codes were sorted and assigned hydrologic land use names associated with the various classifications contained in the Curve Number (CN) Table from the Hydrology Manual (2006) as shown in Table

- 1. The categories in the land use file corresponded well with the land uses in the VCWPD CN Table with the following exceptions:
 - 1. Vacant undifferentiated land was assumed be open brush in fair condition in rural areas and open space with 50% grass cover in urban areas.
 - 2. Mixed urban land uses were assumed to correspond to commercial properties with 50% effective impervious.
 - 3. Fire stations, public buildings, and schools were assigned to the low industrial use category with an effective impervious value of 36% due to the potential for large landscaped areas.

Table 1 Land Uses In NPDES Database (Assessor's Land Uses)

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Soils Information

The soils information was obtained from the District soils shapefile that groups the soil info into categories 1 through 7 corresponding to the NRCS soil categories D through A, respectively. The soils info was clipped to the watershed boundaries using the watershed shapefile. The areas

obtained from the soils files were checked against the total watershed areas to make sure they were identical.

Combined Soils and Land Use Information and Weighted Curve Numbers

The soils and land use shapefiles were then unioned in GIS to obtain the combinations of soil type and land uses in the watersheds. The resulting table was imported into excel and sorted to group the various land uses. The land uses were then assigned a name associated with the data in the District CN Table. Based on the name and soil number, excel functions "match" and "offset" were used to obtain a CN from the CN Table. The weighted soil number and Curve Number for each watershed were calculated using the areas, soil numbers, and CN's. The weighted soil types were checked against the data in the original watershed soil files and were found to be the same. The weighted Curve Numbers were linked to a summary worksheet to be used to calculate the yields by the Water Quality Section. This procedure was also applied to the 7 additional watersheds added to the study in August 2010.

The results are shown in Table 2.

Table 2: Storm Yield Results- Weighted Average Curve Numbers

Watershed Name	Size ac	Compo- site CN	Rain (in)	Initial Abs S (no units)	Rain cutoff (in)	Yield (in)	% Yield
Camarillo	2,779	85.12	5.00	1.75	0.35	3.38	68%
Happy Valley	1,026	77.29	5.00	2.94	0.59	2.65	53%
Fox	749	74.19	5.00	3.48	0.70	2.38	48%
Ventura	707	90.93	5.00	1.00	0.20	3.97	79%
Fillmore	762	74.77	5.00	3.37	0.67	2.43	49%
Port Hueneme	589	85.60	5.00	1.68	0.34	3.43	69%
Moorpark	1,816	63.34	5.00	5.79	1.16	1.53	31%
Oxnard	1,374	84.07	5.00	1.89	0.38	3.28	66%
Simi Valley	3,321	71.04	5.00	4.08	0.82	2.12	42%
Santa Paula	64	80.07	5.00	2.49	0.50	2.90	58%
Thousand Oaks	5,179	81.54	5.00	2.26	0.45	3.04	61%

Between the first request and present, the Hydrology Section has updated their Curve Number tables to make them more consistent with reported infiltration rates in the Hydrology Manual. The resultant CNs were used in the study to see the effect on the yields as shown in Table 3.

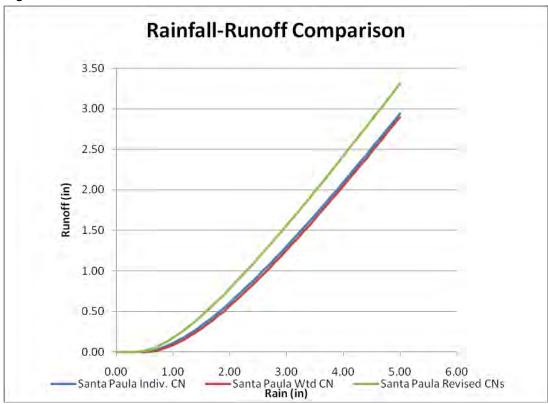
Table 3: Storm Yield Results- Weighted Average Curve Numbers with Updated CNs

	Size	Compo-	Rain	Initial Abs	Rain Cutoff	Yield	
Watershed Name	ac	site CN	(in)	S (no units)	(in)	(in)	% Yield
Camarillo	2,779	84.72	5.00	1.80	0.36	3.34	67%
Happy Valley	1,026	77.22	5.00	2.95	0.59	2.64	53%
Fox	749	73.48	5.00	3.61	0.72	2.32	46%
Ventura	707	91.24	5.00	0.96	0.19	4.01	80%
Fillmore	762	74.39	5.00	3.44	0.69	2.40	48%
Port Hueneme	589	86.14	5.00	1.61	0.32	3.48	70%
Moorpark	1,816	64.63	5.00	5.47	1.09	1.63	33%
Oxnard	1,374	84.01	5.00	1.90	0.38	3.27	65%
Simi Valley	3,321	71.11	5.00	4.06	0.81	2.13	43%
Santa Paula	64	84.22	5.00	1.87	0.37	3.29	66%
Thousand Oaks	5,179	81.27	5.00	2.30	0.46	3.01	60%

The results showed that the revised CNs provided yields that were 1 or 2% higher than the 2006 CN set except for the Santa Paula watershed. This watershed was soil type 6, which had CNs that were more affected by the updates than most of the CNs for the other soils.

While working on the 2nd request, it was realized that the Hydrology Section could provide more precise estimates of flow at lower rainfall levels by analyzing each soil/land use combination individually and summing the results rather than using a weighted average CN in the runoff equation. So the individual CN results were calculated and summed for both the 7 sites in this update and the previous 4 sites. The resultant spreadsheets provide tables of runoff vs rainfall data. Figure 1 shows a comparison of the rainfall and runoff from a highly developed watershed Camarillo using the weighted average CN, individual CNs, and revised individual CNs.





Conclusions and Limitations

The provided weighted CNs can be used to estimate runoff from low to moderately saturated watersheds. It has been our experience that it is necessary to use Antecedent Moisture Condition III CNs for highly saturated watersheds which only occurs after many days of heavy rainfall such as January 10, 2005. The provided CNs probably will overpredict the runoff coming from the first storms of the season due to the very dry antecedent moisture conditions present then. If necessary further work can be done to provide CNs representing AMC I conditions. Also, the CNs assigned to the various land uses can be calibrated after enough storms have occurred to evaluate the predictive accuracy of the current yield equations provided to the NPDES group. It should also be possible to provide forecasts of runoff from the HSPF forecast model of the Ventura River watershed that more accurate reflect saturated/unsaturated conditions.

List of Files in Work Directory K:\PR\hydrology\Watersheds\NPDES\Monitoring_Sites

Filename	Description
GIS	Contains GIS files used in evaluation
GIS2010	Contains 2010 GIS files used in updated evaluation
ClippedLandUse.mdb	Geodatabase with land uses clipped to watershed boundaries
	provided by WQ section
*_SelectedWatershed.shp	shapefiles showing boundaries of monitoring watersheds
*soils.shp	soils shapefiles clipped to watershed boundaries
*soilsunion.shp	Union of soils and land use data shapefile for watersheds
Allsoil.shp	VCWPD soils shapefile showing numbers for hydrology calcs
NPDES_MonitoringSitesR	9-09 CN data
unoff9-09.xls	
NPDES_MonitoringSitesR	8-10 updated analysis for 11 sites total
unoff8-10.xls	
NPDES_MonitoringSitesR	8-10 analysis using revised CNs
unoff8-10RevCNs.xls	
MonitoringSites9-09.mxd	ArcMap project file for analysis

Ventura Watershed



Figure 2

Meiners Oaks Happy Valley Watershed



Figure 3

Ojai Fox Watershed



Figure 4

Camarillo Hills Drain Watershed



Figure 5

Simi Valley Watershed



Figure 6

Oxnard Watershed



Figure 7

Moorpark Watershed



Figure 8

Port Hueneme Watershed



Figure 9

Fillmore Watershed

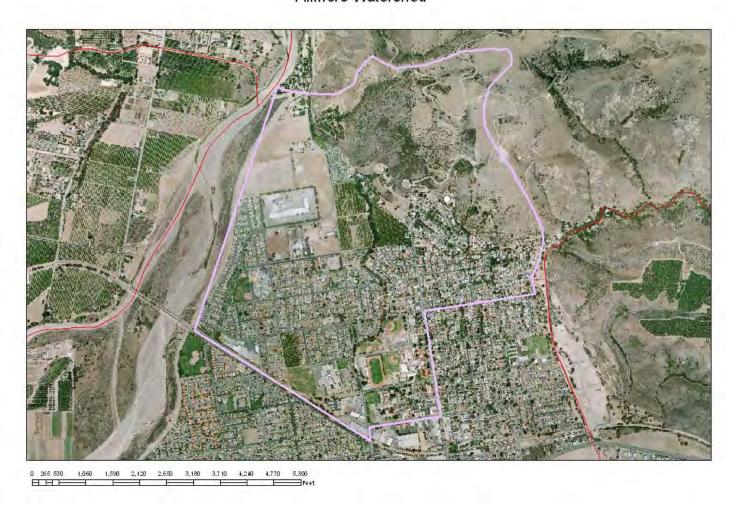


Figure 10

Thousand Oaks Watershed

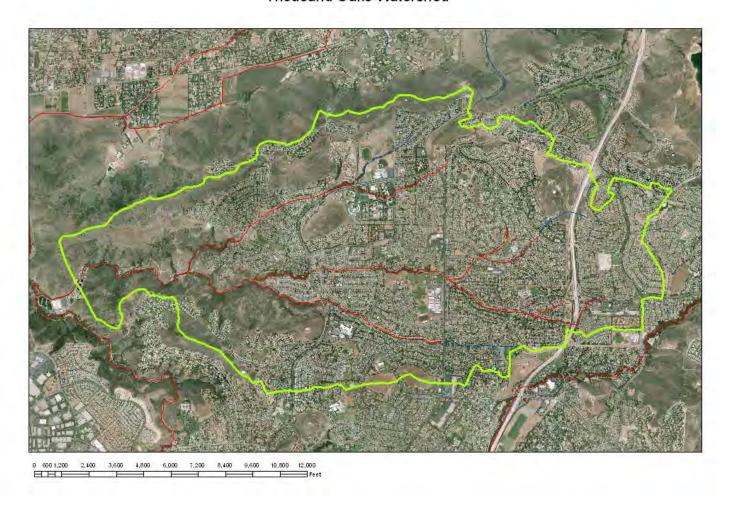


Figure 11

Santa Paula Watershed



Figure 12

Appendix D. Event Summaries

					Arrival	DCT/	Flowmeter	Flowmeter	Outside	Fridge T		Dumn		Comp bottle	Comp Duration (nearest		Grah	Toyleit	,
<u>Site</u>	Event	<u>Visit</u>	<u>Staff</u>	<u>Date</u>	Time		<u>Level</u> (feet)	Flow (cfs)	Staff (ft)	°C	Flush (L)	Pump Count	Program/6712 Display	status/ Estimated Vol (L)	half hrs)			Time	<u>Notes</u>
ME-CC	1	1	DL	12/27/2020	0932	PST	1.183	NA	1.17	Turned on	4L Distilled	12,190	Flow: 1 pulse/500mlx35, progran disabled	n Installed labelled bottle, lid off.					4230 desiccant purple. Tox buckets and grab bottles placed at site. Homogenized then emptied half of comp bottle at 23 samples to collect more of
ME-CC ME-CC	1 1	2	PD,MD JM,JG	12/28/2020 12/28/2020			2.286 3.475	NA NA	2 NR	2 4	2L Distilled	493,896	Sample 22 after 1 pulse Program done	18L 18L		1137	0610	0610	remaining storm. Fridge off and propped open. 6712 off.
													Time: 20 min/500mlx35, progran	n Installed lahelled					Lowered swing arm. Cleaned rain gauge.
ME-SCR	1	1	WBC	12/27/2020		PST	7.703	NA	NA	4	4L Distilled	38,794	disabled	bottle, lid off.					Tox buckets and grab bottles placed at site.
ME-SCR	1	2	DL,EL	12/28/2020	0742	PST	7.793	NA	NA	3			NR	14L			0750	0750	Raised swing arm. Turned outside light and
ME-SCR	1	3	LS,DL	12/28/2020	1256	PST	7.813	NA	NA	-2	Flushed	NR	Program done	Full		1258			6712 off.
													Flow: 1 pulse/500mlx35, progran						Desiccant blue-ish purple. Tox buckets and
ME-VR2 ME-VR2	1	1 2	LS LS,AEA	12/27/2020 12/28/2020		PST PST	5.28 5.326	NA NA		2	4L Distilled	38,041	disabled Sample 25 after 1 pulse	bottle, lid off. 12L			0700	0700	grab bottles placed at site.
IVIE-V NZ	1	2	L3,AEA	12/28/2020	0032	F31	3.320	INA		4			Sample 25 arter 1 pulse				0700	0700	Turned 6712 off. Took photo of high water
ME-VR2	1	3	LS,DL	12/28/2020	1042	PST	5.324	NA		5	2L Distilled	407,720	Program done	Full		1045			mark. Changed 6712 PDT back to PST (10:01 to
MO-CAM		1	DL	12/27/2020		PST	0.035	10	<toe< td=""><td>0</td><td>4L Distilled</td><td>20,373</td><td>Flow: 1 pulse/500mlx35, progran disabled</td><td>bottle, lid off.</td><td></td><td></td><td></td><td></td><td>One of the control of</td></toe<>	0	4L Distilled	20,373	Flow: 1 pulse/500mlx35, progran disabled	bottle, lid off.					One of the control of
MO-CAM		2	PD,MD	12/28/2020		PST	0.111	18	<0.1 NR	0 4			Sample 14 after 1 pulse	6L 16L			0500	0500	Friday off and annual annual
MO-CAM	1	3	DT,JK	12/28/2020	1301	PST	NR	NR	NK	4	2L Distilled	NR	Program done	161		1301			Fridge off and propped open.
MO-FIL	1	1	PD	12/27/2020	1052	PST	0.169	NA	NR	Turned on	4L Distilled	24,369	Time: 20 min/500mlx35, program disabled	n Installed labelled bottle, lid off.					Desiccant orange. Tox buckets and grab bottles placed at site.
MO-FIL	1	2	DL,EL	12/28/2020	0530	PST	0.425	NA	NR	0			Sample 19 in 17 minutes. Errors have occurred Program done. Errors have	10L			0545	0545	
MO-FIL	1	3	PD,MD	12/28/2020	1234	PST	0.865	NA	NR	0	2L Distilled	175,257	occurred.	17L		1236			Fridge off and propped open. 6712 off.
MO-HUE	1	1	DL	12/27/2020	1017	PST	NA	NA	NA	2	4L Distilled	25,791	Time: 20 min/500mlx35, program disabled	n Installed labelled bottle, lid off.					Field blank and field duplicate bottles placed onsite. Tox buckets and grab bottles placed at site.
MO-HUE	1	2	PD,MD	12/28/2020		PST	NA	NA	NA	2	21 22 121 1	470.007	Sample 26 in 4 minutes	13L 18L		4400	0715	0715	
MO-HUE	1	3	PD,MD	12/28/2020	1121	PST	NA	NA	NA	0	2L Distilled	179,327	Program done	18L		1122			
MO-MEI	1	1	WBC	12/26/2020	1145	PST	NR	NR	NR	Turned on	4L Distilled	24,709	Flow: 1 pulse/500mlx35, progran disabled	n Installed labelled bottle, lid off.					Replaced 4230 desiccant. Tox buckets and grab bottles placed at site.
MO-MEI	1	2	LS,AEA	12/28/2020	0600	PST	0.078	1	0	-6			Program disabled. Errors have occurred Program done. Errors have	~1/3 full			0600	0600	
MO-MEI	1	3	LS,DL	12/28/2020	1116	PST	0.162	5	0.1	2	2L Distilled	102,202	occurred.	13L		1120			Fridge off and propped open. 6712 off.
МО-МРК	1	1	AEA	12/27/2020	0919	PST	0.074	0.2	NR	Turned on	2L Distilled	43,910	Flow: 1 pulse/500mlx35, progran disabled	n Installed labelled bottle, lid off.					4230 desiccant purplish. Tox buckets and grab bottles placed at site.
MO-MPK	1	2	JM,JG	12/28/2020	0445	PST	0.105	0.6	0	6 turned down			Program disabled. Errors have occurred Program done. Errors have				0445	0445	
МО-МРК	1	3	JM,JG	12/28/2020	1300	PST	0.28	6.8	0.2	0	2L Distilled	188,774	occurred.	16L		1310			Fridge off and propped open. 6712 off.
MO-OJA	1	1	WBC	12/26/2020	1235	PST	0.096	5	NR	4	4L Distilled	25,796	Flow: 1 pulse/500mlx35, program disabled Sample 29 after 1 pulse. Reprogrammed for 21 more	n Installed labelled bottle, lid off.					Changed 6712 PDT back to PST. Replaced 4230 desiccant. Tox buckets and grab bottles placed at site.
MO-OJA	1	2	LS,AEA	12/28/2020	0500	PST	0.092	5	NR	2			samples. Run program. Program disabled.	1/3 full			0500	0500	

MO-OJA	1	3	LS.DL	12/28/2020	1157	рст	0.153	8	0.15	3	2L Distilled	135,381	Sample 20 after 1 pulse. Stopped program.	1/2 full	1155			Turned 6712 off.
IVIO-OJA		3	L3,DL	12/28/2020	1132	rai	0.133	0	0.13		ZL Distilled	155,561	program.	1/2 1011	1133			Changed 6712 PDT back to PST (10:01 to
										Turned			Flow: 1 pulse/500mlx35, program	m Installed labelled				09:01). Tox buckets and grab bottles placed
MO-OXN	1	1	PD	12/27/2020	0855	PST	0.113	0.3	Dry	on	4L Distilled	22,990	disabled	bottle, lid off.				at site. 4230 desiccant pink.
MO-OXN	1	2	DL,EL	12/28/2020	0640	PST	0.214	1.2	0.25	-4			Sample 26 after 1 pulse	12L		0650	0650	·
																		Fridge off and propped open. Changed
MO-OXN	1	3	DT,JK	12/28/2020	1242	PST	NR	NR	NR	-4	2L Distilled	NR	Program done	16L	1242			desiccant.
													51 4 1 /500 1 05					4000
MO-SIM	1	1	AEA	12/27/2020	0050	PST	0.171	3	NR	Turned on	4L Distilled	22,035	Flow: 1 pulse/500mlx35, program disabled	n installed labelled bottle, lid off.				4230 desiccant purple to pink. Tox buckets and grab bottles placed at site.
IVIU-SIIVI	1	1	ALA	12/2//2020	0958	P31	0.171	3	INK	On	4L Distilled	22,033	Program done. Errors have	bottle, ild off.				and grab bottles placed at site.
MO-SIM	1	2	JM.JG	12/28/2020	0540	PST	0.277	10	NR	0			occurred.	9L		0550	0550	
	-	-	3.11,50	12,20,2020	05.0		0.277		••••	Ü			Program done. Errors have	32		0330	0330	
MO-SIM	1	3	JM,JG	12/28/2020	1245	PST	0.65	53	NR	3	2L Distilled	102,514	occurred.	10L	1246			Fridge off and propped open. 6712 off.
									_	Turned			Flow: 1 pulse/500mlx35, program					
MO-SPA	1	1	PD	12/27/2020		PST	NA	NA	No flow	on	4L Distilled	13,229	disabled	bottle, lid off.				Tox buckets and grab bottles placed at site.
MO-SPA	1	2	DL,EL	12/28/2020		PST PST	NA	NA NA	Flowing Flowing	0	21 Distilled	166.080	Program done Program done	17L 16L	1200	0445	0445	Fridge off and propped open. 6712 off.
MO-SPA	1	3	PD,MD	12/28/2020	1207	PST	NA	NA	riowing	U	2L Distilled	166,080	riogiani done	101	1209			Fridge on and propped open. 0712 on.
													Flow: 1 pulse/500mlx35, program	m Installed labelled				4230 desiccant purple. Tox buckets and
мо-тно	1	1	AEA	12/27/2020	1031	PST	2.11	1	<3	3	4L Distilled	23,823	disabled	bottle, lid off.				grab bottles placed at site.
																		-
													Sample 27 after 1 pulse. Errors					
MO-THO	1	2	JM,JG	12/28/2020	0640	PST	2.976	38	3	3			have occurred. Stopped program	n. Overflowed. >18L		0650	0650	
мо-тно	1	3	JM.JG	12/28/2020	1205	PST	2.301	3	<3	4	2L Distilled	227,930	Program stopped	Overflowed. >18L	1208			
WIO-1110		,	3101,30	12/20/2020	1203	131	2.301				ZL Distilled	227,330	товгин эторреи	Overnowed. > 102	1200			
										Turned			Flow: 1 pulse/500mlx35, program	n Installed labelled				4230 desiccant pinkish purple. Tox buckets
MO-VEN	1	1	LS	12/27/2020	1030	PST	0.041	1	Dry	on	4L Distilled	18,332	disabled	bottle, lid off.				and grab bottles placed at site.
MO-VEN	1	2	LS,AEA		0811	PST	0.103	2	0	3			Program disabled.	9L		0815	0815	
MO-VEN	1	3	PD,MD	12/28/2020	1314	PST	0.674	49	0.4	2	2L Distilled	109,013	Program done	16L	1316			Fridge off and propped open. 6712 off.

Event Notes:

NR: Not recorded

All times are recorded here in PST

Forecast Rain: Most forecasters in agreement for 0.7-1.2" at our stations and 0.5-2" across the area

Actual Rainfall: 1-1.75" at sites across the county

Storm Control: Kelly Hahs

Sample Tracking:

Bacteria samples to VCHCA:

12/28/2020 @ 0910 PST (VR2/MEI/OJA/VEN) by Lara Shellenbarger

12/28/2020 @ 0815 PST (CAM/CC/HUE(+FD+FB)) by Peter Doran

12/28/2020 @ 0845 PST (SPA/FIL/OXN/SCR) by David Laak

12/28/2020 @ 0815 PST (MPK/SIM/THO) by Jaime McClain

Toxicity samples to Aquatic Bioassay and Consulting Laboratories, Inc.:

12/28/2020 @ 0934 PST (VR2/MEI/OJA/VEN) by Peter Doran for Lara Shellenbarger/Arne Anseln

12/28/2020 @ 0934 PST (CAM/CC/HUE) by Peter Doran

12/28/2020 @ 0922 PST (SPA/FIL/OXN/SCR) by David Laak

12/28/2020 @ 0750 PST (MPK/SIM/THO) by Jaime McClain

Chemistry samples to Weck Laboratories, Inc. (via Weck-provided courier (DCS)): 12/28/2020 @ 14:30 (All sampled grabs and composites) to Jose Angulo by Bill Carey

Meters:

MPK/SIM/THO (JM/JG): Beckman 410 # 110341139, YSI 85 # 03D0375 OJA/MEI/VRZ/VEN (LS,AEA): Beckman 410 # 130240875, YSI 85 # 05E1104: SPA/FIL/OXN/SCR (DL/EL): Beckman 255 # 2554, YSI 85 # 05E1126 CAM/CC/HUE (PD/MD): Beckman 255 # 2151, YSI 85 # 01G0625

Deg F	Deg C	Deg C
29	-2	-1.667
30	-1	-1.111
31	-1	-0.556
32	0	0
33	1	0.556
34	1	1.111
35	2	1.667
36	2	2.222
37	3	2.778
38	3	3.333
39	4	3.889
40	4	4.444
41	5	5.000
42	6	5.556
43	6	6.111
44	7	6.667
45	7	7.222

<u>Site</u>	Event	Visit	Staff	<u>Date</u>	Arrival Time	PST/ PDT	Flowmeter Level (feet)	Flowmeter Flow (cfs)	Outside Staff (ft)	Fridge T	Flush (L)	Pump Count	Program/6712 Display	Comp bottle status/ Estimated Vol (L)	Comp Duration (nearest half hrs)			Toxicity Time	<u>/</u> <u>Notes</u>
ME-CC	2	1	LS	1/26/2021	1315	PST	1.514	NA	1.5	Turned on	4L Distilled	551,489	Flow: 1 pulse/500mlx35, program disabled	n					Grab bottles placed onsite. Desiccant purple.
ME-CC ME-CC	2 2	2	MC/DL PD	1/28/2021 1/29/2021	2228 1100	PST PST	2.578 3.277	NA NA		0	2L Distilled	924,822	Sample 11 after 1 pulse Program done	9.5L Full		1110	2240		Oversampling - homogenized bottle, poured off half. Turned off 6712 and fridge.
ME-SCR	2	1	PD	1/26/2021	1121	PST	7.767	NA	NA	2	4L Distilled	322,314	Time: 41 min/500mlx35, program disabled	n Installed labelled bottle, lid off.					Grab bottles placed onsite. Lowered swing arm.
ME-SCR ME-SCR ME-SCR	2 2 2	2 3 4	PD/MD PD/MD DL/DW	1/28/2021 1/28/2021 1/29/2021	1835 2202 1037	PST PST PST	8.076 7.791	NA NA NA	NA NA NA	2 3	2L Distilled	594,431	2 samples taken. Reprogrammed 20 min for 33 samples. Sample12 in 14 minutes Program done	7.5L 20L		1045	2215		Turned off 6712. Raised swing arm.
IVIE-SCK		4	DL/DW	1/23/2021	1037	F31	7.751	INA	INA		ZL Distilled	354,431	Flow: 1 pulse/500mlx35, progran			1043			Grab bottles placed onsite. Checked intake
ME-VR2 ME-VR2	2	1 2	DL DL/DW	1/26/2021 1/28/2021	0945 1908	PST PST	5.346 5.518	NA NA		4 3	4L Distilled	407,720	disabled Sample 5 after 1 pulse	bottle, lid off. 2L			1915		line. 4230 desiccant purple.
ME-VR2	2	3	DL/DW	1/29/2021	0923	PST	5.415	NA		4	2L Distilled	720,707	Sample 29 after 1 pulse	15.5L		0930			Turned off 6712. Took picture of high water mark.
MO-CAM	2	1	LS	1/26/2021	1430	PST	0.038	11	0 0.125 @	Turned on	4L Distilled	115,155	Flow: 1 pulse/500mlx35, program disabled	n Installed labelled bottle, lid off.					Grab bottles placed onsite.
MO-CAM	2	2	MC/DL	1/28/2021	2137	PST	0.289	42	2145	1			Sample 15 after 1 pulse	7.5L			2145		Turned off 6712 and fridge, propped fridge
MO-CAM	2	3	PD	1/29/2021	1030	PST	0.035	10	<0.1'	0	2L Distilled	197,385	Program disabled	16L		1035			open.
MO-FIL	2	1	PD	1/26/2021	0935	PST	0.042	NA	NA	Turned on	4L Distilled	179,798	Time: 41 min/500mlx35, program disabled	n Installed labelled bottle, lid off.					Grab bottles placed onsite. Desiccant orange.
MO-FIL	2	2	PD/MD	1/28/2021	1939	PST	0.716	NA	NA	6			8 samples taken. Reprogrammed 23 min for 25 samples.	6.5L			2015		Recalibrated sample volume to 500ml Turned off 6712 and fridge, propped fridge
MO-FIL	2	3	MC/DL	1/29/2021	0839	PST	0.233	NA	NA	3	2L Distilled	356,006	Program done	19L		0848			open.
MO-HUE	2	1	DL	1/26/2021	1106	PST	NA	NA		3	4L Distilled	184,091	Time: 41 min/500mlx35, program disabled	n Installed labelled bottle, lid off.					Grab bottles placed onsite.
													3 samples taken. Reprogrammed 20 min/500ml for 31 samples.						
MO-HUE MO-HUE	2 2	2 3	MC/DL MC/DL	1/28/2021 1/29/2021	1859 1024	PST PST	NA NA	NA NA		4 4	2L Distilled	337,170	Sample 2 in 00:17 Program done	2.5L 18.25L		1028	1900		Turned off 6712.
MO-MEI	2	1	DL	1/26/2021		PST	0.079	1	Dry	Turned on	4L Distilled	118,146	Flow: 1 pulse/500mlx35, program disabled	bottle, lid off.					Grab bottles placed onsite.
MO-MEI	2	2	DL/DW	1/28/2021	1812	PST	0.333	21	0.35	1			Sample 12 after 1 pulse	6L			1820		pH meter temp off 7-8 deg Turned off 6712 and fridge, propped fridge
MO-MEI	2	3	DL/DW	1/29/2021	0851	PST	0.132	3	~0.1	2	2L Distilled	202,660	Program done	19.5L		0855			open.
MO-MPK MO-MPK	2	1 2	LS LS/EL	1/26/2021 1/28/2021	1900	PST PST	0.078 0.225	0.2 4.1	0, wet in center ~0.27	Turned on 3	4L Distilled		Flow: 1 pulse/500mlx35, progran disabled Sample 8 after 1 pulse Program done. Errors have	bottle, lid off. 3L			2000		Grab bottles and QC bottles placed onsite. 4230 desiccant purple Field blanks at 1955. Turned off 6712 and fridge, propped fridge
MO-MPK	2	3	PD	1/29/2021	0839	PST	0.109	0.6		2	2L Distilled	336,831	occurred.	18L		0845			open.
MO-OJA MO-OJA	2	1 2	DL DL/DW	1/26/2021 1/28/2021	0835 1728	PST PST	0.096 0.404	5 33	0 Low flow in invert 0.4	2 2	4L Distilled	153,516	Flow: 1 pulse/500mlx35, program disabled Sample 11 after 1 pulse	n Installed labelled bottle, lid off. 6L			1740		Grab bottles placed onsite. Desiccant orange. Cleared debris/palm fronds.
MO-OJA	2	3	DL/DW	1/29/2021	0825	PST	0.096	5	<0.1	1	2L Distilled	226,145	Program disabled	14L		0830			Turned off 6712.

MO-OXN MO-OXN	2 2	1 2	PD MC/DL	1/26/2021 1/28/2021	1230 2032	PST PST	0.11 1.003	0.3 22.7	0 1	Turned on 4	4L Distilled	162,216	Flow: 1 pulse/500mlx35, programus disabled Program done	m Installed labelled bottle, lid off. 17L	2040	Grab bottles placed onsite. Desiccant purple. Turned off 6712 and fridge, propped fridge
MO-OXN	2	3	MC/DL	1/29/2021	1106	PST	0.344	3.2	0.25	-5	2L Distilled	293,878	Program done	17L	1110	open.
MO-SIM	2	1	LS	1/26/2021	1217	PST	0.172	3	<toe but<br="">close</toe>	Turned on	4L Distilled	120,980	Flow: 1 pulse/500mlx35, programus disabled Sample 23 after 1 pulse. Errors	m Installed labelled bottle, lid off.		Grab bottles placed onsite. Desiccant purple and pink.
MO-SIM	2	2	LS/EL	1/28/2021		PST	0.513	34	0.4	3	21 25 17 1	202.424	have occurred. Program done. Errors have	11L 16L	2110	Turned off 6712 and fridge, propped fridge
MO-SIM	2	3	PD	1/29/2021	0912	PST	0.202	5		0	2L Distilled	203,434	occurred.	101	0915	open.
MO-SPA	2	1	PD	1/26/2021	1023	PST	NA	NA	Some flow	Turned on	4L Distilled	200,657	Flow: 1 pulse/500mlx35, program	m Installed labelled bottle, lid off.		Grab bottles placed onsite.
MO-SPA	2	2	PD/MD	, -, -	2100	PST	NA	NA	Flowing	2	iz bistined	200,037	Sample 27 after 1 pulse	13L	2110	Grab Bottles placed onsite.
MO-SPA	2	3	MC/DL	1/29/2021	0924	PST	NA	NA	Flowing	1	2L Distilled	357,942	Program done	17L	0930	Turned off 6712 and fridge, propped fridge open.
мо-тно	2	1	WBC	1/26/2021	1045	PST	2.135	1		4	4L Distilled	31,524	Flow: 1 pulse/500mlx35, program disabled Sample 18 after 1 pulse. Errors	m Installed labelled bottle, lid off.		Grab bottles placed onsite. Swapped out pump head and calibrated to 500 ml.
MO-THO	2	2	LS/EL	1/28/2021	2212	PST	3.461	63	3.5	3			have occurred. Sample 30 after 1 pulse. Errors	8L	2215	
MO-THO	2	3	PD	1/29/2021	0948	PST	2.376	4		4	2L Distilled	168,495	have occurred.	14L	0955	Turned off 6712. High water mark ~4'
MO-VEN	2	1	DL	1/26/2021	1026	PST	0.043	1	Dry	Turned on	4L Distilled	113,544	Flow: 1 pulse/500mlx35, program	bottle, lid off.	2005	Grab bottles placed onsite. 4230 desiccant pink
MO-VEN	2	3	DL/DW	1/28/2021	1956 0955	PST PST	0.512	31 8	0.55	0 2	2L Distilled	205,361	Sample 18 after 1 pulse. Program done	8.5L 16L	1000	Turned off 6712 and fridge, propped fridge open.

Event Notes:	29	-2	-1.667
NR: Not recorded	30	-1	-1.111
All times are recorded here in PST	31	-1	-0.556
Forecast Rain: 1.5-3" coasts and valleys, 2-5" foothills and mountains, upper end of range in VC (forecast >24 hour period, ~36 hrs	32	0	0
Actual Rainfall: 0.8-2.5" at NPDES stations across the county	33	1	0.556
Storm Control: Kelly Hahs	34	1	1.111
	35	2	1.667
	36	2	2.222
Sample Tracking:	37	3	2.778
Bacteria samples to VCHCA:	38	3	3.333
Samples out of business hours. Unable to be analyzed after hours due to lab COVID-testing workload	ľ		
	39	4	3.889
	40	4	4.444
Chemistry samples to Weck Laboratories, Inc. (via Weck-provided courier (DCS)):	41	5	5.000
01/29/2021 @ 14:00 (All sampled grabs and composites) to Silver Contreras by Bill Care	ľ		
	42	6	5.556
	43	6	6.111
Meters:	44	7	6.667
MPK/SIM/THO (LS/EL): Beckman 255 # 2554, YSI 85 # 05E1126	45	7	7.222

OJA/MEI/VR2/VEN (DL/DW): Beckman 410 # 110341139, YSI 85 # 03D0379 (temperature issues, pH meter temp reading 7-8 degrees warmer than YSI and too warm for field conditions) YSI temp too high atVE OXN/HUE/CC/CAM (MC/DL): Beckman 410 # 130240875, YSI 85 # 05E1042 SPA/FIL/SCR (PD/MD): Beckman 255 # 2151, YSI 85 # 01G0625

Deg F Deg C Deg C

<u>Site</u>	Event	t Visit	Staff	<u>Date</u>	Arrival Time		Flowmeter Level (feet)	Flowmeter Flow (cfs)	Outside Staff (ft)	Fridge T	Flush (L)	Pump Count	Program/6712 Display	Comp bottle status/ Estimated Vol (L)	Comp Duration (nearest half hrs)	Comp		Toxicity Time	<u>Y</u> Notes
ME-CC	3	1	LM	3/9/2021	NR	PST	1.238	NA	NR	Turned on	4L Distilled	Replaced -	Flow: 1 pulse/500mlx35, progran 0 disabled	n Installed labelled bottle, lid off.					Disconnected 2105 ci. Replaced pump tube and calibrated volume. Reconnected 2105ci. Grab bottles placed onsite. (grabs taken later than other sites because
ME-CC	3	2	PD,MD	3/10/2021		PST	1.857	NA	NR NR	0	0. 5: ::!!	425.242	Sample 30 after 1 pulse	16L 19L		4240	1140		only base flow during initial grab sampling attempt) Turned off 6712 and fridge and propped open.
ME-SCR ME-SCR ME-SCR	3 3 3	1 2 3	DL DL,DW WBC	3/10/2021 3/9/2021 3/10/2021 3/10/2021	1350	PST PST PST PST	7.782 7.845 7.734	NA NA NA	NA NA NA	0 -1 2	2L Distilled 4L Distilled 2L Distilled	435,343 599,337 834,254	Program done Time: 21 min/500mlx35, program disabled Sample 3 in 16:45 Sample 32 in 00:00	-		1249	0350		Lowered swing arm. Placed grab bottles onsite. Raised swing arm. Turned 6712 off.
ME-VR2 ME-VR2 ME-VR2	3 3 3	1 2 3	WBC LS,MC WBC	3/9/2021 3/10/2021 3/10/2021	1145 0320 1100		5.13 5.169 5.17	NA NA NA	INA	5, turned down 3 4	4L Distilled	•	Flow: 1 pulse/500mlx35, program			1100	0330		Grab bottles placed onsite. Desiccant blue (good) Turned off 6712
MO-CAM MO-CAM	3	1 2	DL PD,MD PD,MD	3/9/2021 3/10/2021 3/10/2021		PST PST	0.034 0.285 0.036	10 42 11	small trickle mid channel 0.3 <0.1	Turned on 2	4L Distilled 2L Distilled	202,157	Flow: 1 pulse/500mlx35, program disabled NR Program done	n Installed labelled bottle, lid off. 3L 16.5		0438	0220		Grab bottles placed onsite. Desiccant pink. Turned off 6712 and fridge and propped open.
MO-FIL MO-FIL	3 3	1 2 3	WBC DL,DW JM,RP	3/9/2021 3/10/2021 3/10/2021	0915 0205 0900	PST PST PST	0.21 0.594 0.262	NA NA		Turned on 2	4L Distilled 2L Distilled	361,762 517,512	Time: 11 min/500mlx35, program disabled Sample 4 in 9:00 Program done	n Installed labelled bottle, lid off. ~1L		0905	0215		Grab bottles placed onsite. Desiccant orange (good) Turned off 6712 and fridge and propped open.
MO-HUE MO-HUE MO-HUE	3	1 2 3	DL PD,MD JM,RP	3/9/2021 3/10/2021 3/10/2021	1200	PST PST PST	NA NA NA	NA NA NA		1 2 2	4L Distilled 2L Distilled	341,564 495,003	Time: 11 min/500mlx35, progran disabled Sample 8 in 9 minutes Program done			1115	0305		Grab bottles placed onsite Turned off 6712
MO-MEI MO-MEI	3 3	1 2	WBC LS,MC JM,RP	3/9/2021 3/10/2021 3/10/2021		PST PST PST	0.079 0.077 0.079	1 1	channel dry ~0.1	Turned on 2	4L Distilled 2L Distilled	208,352	Flow: 1 pulse/500mlx35, program disabled Program disabled Program done	n Installed labelled bottle, lid off. Empty 16L		1025	0250		Placed grab bottles onsite. Desiccant orange (good). Turned off 6712 and fridge and propped open.
MO-MPK MO-MPK	3	1 2	LS JM,JK	3/9/2021 3/10/2021	1611 0315	PST PST	0.072 0.179	0.2	0 NR	Turned on 3		341,073	Flow: 1 pulse/500mlx35, progran disabled Sample 28 after 1 pulse	n Installed labelled bottle, lid off. 1/2 full			0315		Placed grab bottles onsite. Desiccant blue (good). Turned off 6712 and fridge and propped
MO-MPK MO-OJA MO-OJA MO-OJA	3 3 3	1 2 3	JM,JK WBC LS,MC JM,RP	3/10/2021 3/9/2021 3/10/2021 3/10/2021	1030	PST PST PST PST	0.091 0.098 0.096 0.099	0.4 5 5 5	trickle ~0.1	-5 2 3 4	4L Distilled 2L Distilled	231,566 288,843	Program disabled Flow: 1 pulse/500mlx35, program disabled Program disabled Program disabled	3/4 full In Installed labelled bottle, lid off. Empty 10L		1000	0210		open. (Needs flushed). Placed grab bottles onsite. Desiccant orange (good). Turned off 6712
MO-OXN MO-OXN	3 3	1 2 3	DL DL,DW DL,DW	3/9/2021 3/10/2021 3/10/2021	1301 0255	PST PST PST	0.115 0.54 0.319	0.3 7.4 2.8	Dry 0.6 0.32	Turned on 1	4L Distilled 2L Distilled	298,142	Flow: 1 pulse/500mlx35, program disabled Sample 28 after 1 pulse Program done	m Installed labelled bottle, lid off. 13L		0435	0300		Placed grab bottles onsite. Desiccant pink. Turned off 6712 and fridge and propped open.

MO-SIM MO-SIM	3 3	1 2 3	LS JM,JK JM,JK	3/9/2021 3/10/2021 3/10/2021	1540 0140 0444	PST PST PST	0.185 0.184 0.262	4 4 9	O NR NR	Turned on 3 -5	4L Distilled Needs flushed	207,979 NR	Flow: 1 pulse/500mlx35, progradisabled Program disabled Program done	am Installed labelled bottle, lid off. Empty Full	0140 0448	Placed grab bottles onsite. Desiccant pink. Turned off 6712 and fridge and propped open. (Needs flushed)
MO-SPA MO-SPA MO-SPA	3 3	1 2 3	WBC DL,DW DL,DW	3/9/2021 3/10/2021 3/10/2021	0830 0128 0515	PST PST	NA NA	NA NA NA	Trickle flow Flowing	Turned on 0	4L Distilled 2L Distilled	364,054 516,045	Flow: 1 pulse/500mlx35, progradisabled Sample 13 after 1 pulse Program done	am Installed labelled bottle, lid off. 6L 16L	0140	Placed grab bottles onsite. Turned off 6712 and fridge and propped open.
MO-THO MO-THO MO-THO	3 3 3	1 2 3	LS JM,JK PD,MD	3/9/2021 3/10/2021 3/10/2021	1450 0233 1215	PST PST PST	2.059 2.104 2.272	1 1 3	2.1 ~2	3 4 3	4L Distilled 2L Distilled	173,079 334,977	Flow: 1 pulse/500mlx35, progradisabled Program disabled Program done	am Installed labelled bottle, lid off. Empty 18L	0233 1216	Placed grab bottles onsite. Desiccant blue. High water mark ~ 4'. Turned 6712 off
MO-VEN MO-VEN	3 3	1 2 3	WBC PD,MD PD,MD	3/9/2021 3/10/2021 3/10/2021	1345 0120 1048	PST PST PST	0.05 0.358 0.141	1 17 4	0.3	Turned on 4	4L Distilled 2L Distilled	210,323 301,107	Flow: 1 pulse/500mlx35, progradisabled Sample 7 after 1 pulse Program done	am Installed labelled bottle, lid off. 3L 16L	0130	Placed grab bottles onsite. Replaced desiccant. Reamed bubbler tip. Turned off 6712 and fridge and propped open.

Event Notes:

NR: Not recorded

All times are recorded here in PST

Forecast Rain: (NWS) 0.5-1" and up to 1.5" in the mountains, Meteostar 0.25", WU 0.25-0.5'

Actual Rainfall: ~0.19-0.64" across the county

Storm Control: Kelly Hahs

Sample Tracking:

Bacteria samples to VCHCA:

No bacteria samples. VCHCA did not have enough blankwater supplies on hand (on backorder) to accept stormwater samples.

Chemistry samples to Weck Laboratories, Inc. (via Weck-provided courier (DCS)):

03/10/2021 @ 14:50 PST (All sampled grabs and composites) to Kenneth Johnson by Bill Care

Meters:

MPK/SIM/THO (JM/JK): Beckman 410 # 110341139, YSI 85 # 03D0375 OJA/MEI/VR2 (LS,MC): Beckman 255 # 2151, YSI 85 # 01G0625 VEN/HUE/CAM/CC (PD,MD): Beckman 410 # 130240875, YSI 85 # 05E1042 SPA/FIL/SCR/OXN (DL,DW): Beckman 255 # 2554, YSI 85 # 05E1126

Deg F	Deg C	Deg C
29	-2	-1.667
30	-1	-1.111
31	-1	-0.556
32	0	0
33	1	0.556
34	1	1.111
35	2	1.667
36	2	2.222
37	3	2.778
38	3	3.333
39	4	3.889
40	4	4.444
41	5	5.000
42	6	5.556
43	6	6.111
44	7	6.667
45	7	7.222

															Comp				
							Flowmeter							Comp bottle	Duration				
Sito	Event	Vicit	Staff	Data	Arrival Time	PST/ PDT	<u>Level</u> (feet)	Flow (cfs)	Outside Staff (ft)	Fridge T °C	Flush (L)	Pump Count	Program/6712 Display	status/ Estimated Vol (L)	(nearest half hrs)			Toxicity Time	<u>/</u> Notes
Site	Event	VISIL	<u> Staii</u>	<u>Date</u>	mile	<u> </u>	(leet)	Flow (CIS)	Stair (It)		Flusii (L)	Count	Program/6/12 Display	Estillated voi (L)	<u>nan msj</u>	mile	IIIIe	Tille	Notes
														Installed labelled					
ME-SCR	4	1	KH,WBC	4/26/2021	1100	PDT	7.542	NA	NA	0	4L Distilled	840,189	Time: 40 min/500mlx35	bottle, lid off.					Lowered swing arm
				4/27/2024	4000		7.500			2	0. 0	4 404 050	D	17L	2.4	4000	4040		Collected sample for SCCWRP CEC study.
ME-SCR	4	2	KH,WBC	4/27/2021	1000	PDT	7.588	NA	NA	2	2L Distilled	1,104,862	Program done	1/L	24	1000	1010		Raised swing arm.
										Turned				Installed labelled					
MO-FIL	4	1	KH,WBC	4/26/2021	1010	PDT	0.186	NA	NA	on	4L Distilled	517,913	Time: 40 min/500mlx35	bottle, lid off.					Cleared area around intake
													Sample 35 in 00:04. Errors have						
													occurred [2043-0003 PST (samples 18-23) "No More						
MO-FIL	4	2	KH,WBC	4/27/2021	0855	PDT	0.201	NA	NA	0	2L Distilled	680,256	Liquid"]	Full to neck (20L)	24	0900	0900		Collected sample for SCCWRP CEC study
																			Installed silicone extension line and silicone
										Turned			Time: 20 min/500mlx35, 720 min	Installed labelled					dam in channel. Small pond/damp ground ~75' upstream of station from outfall ~ 150'
MO-OXN	4	1	KH,WBC	4/26/2021	0810	PDT	0.112	0.3	Dry	on	4L Distilled	434,491	delay to start	bottle, lid off.					upstream of station.
			· ·						,				,	,					Channel dry. Reconnected intake line and
MO-OXN	4	2	KH,WBC	4/27/2021	0730	PDT	0.11	0.3	Dry	2	-	667,746	Sample 35 in 00:16	Empty	Dry	Dry	Dry		removed silicone dam.
										Turned			Time: 5 min/500mlx35, program	Installed labelled					
MO-SPA	4	1	KH,WBC	4/26/2021	0940	PDT	NA	NA	Dry	on	4L Distilled	522,264	disabled	bottle, lid off.					Installed silicone dam in channel
			,	,,_,,_,					,										Pipe dry. Removed silicone dam. Man
MO-SPA	4	2	KH,WBC	4/27/2021	0834	PDT	NA	NA	Dry	2	-	522,264	Program disabled	Empty	Dry	Dry	Dry		smoking and eating in RCP.
										Towns and			Times 20 min /500ml 25 720 min	In the Head laber Head					Installed calibration line and allieurs done in
MO-VEN	4	1	KH,WBC	4/26/2021	0900	PDT	0.052	1	Dry	Turned on	4L Distilled	307,067	Time: 20 min/500mlx35, 720 min delay to start	bottle, lid off.					Installed calibration line and silicone dam in channel
			,	1,20,2022	0300		0.032	-	5.7	0	TE DISCINCU	307,007	delay to start	Sociac, na om					Channel dry. Reconnected intake line and
MO-VEN	4	2	KH,WBC	4/27/2021	0755	PDT	0.043	1	Dry	2	-	419,701	Sample 34 in 00:16	Empty	Dry	Dry	Dry		removed silicone dam.
ME-VR2	4	1	KH,WBC	5/11/2021	0940	PDT	5.283	NA	NA	4	4L Distilled	398,311	Time: 40 min/500mlx35	Installed labelled bottle, lid off.					
IVIE VIVE	_		KII, WEC	3/11/2021	0340	101	5.205	1474	10/3	7	4E DISTINCA	330,311	Program done. Warning replace	bottle, lid off.					
ME-VR2	4	2	KH,WBC	5/12/2021	0900	PDT	5.276	NA	NA	6	2L Distilled	770,373	pump tubing	19L	24	0900	0900		Collected sample for SCCWRP CEC study
MO-MEI	4	1	KH,WBC	5/12/2021	0830	PDT	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry		No setup as site completely dry.
MO-MEI	4	2	KH,WBC	5/12/2021	0735	PDT	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Photos taken both days to document
														Installed labelled					Installed calibration line and silicone dam in
MO-OJA	4	1	KH,WBC	5/11/2021	0800	PDT	0.098	5	<0.01 cfs	1	4L Distilled	293,812	Time: 40 min/500mlx35	bottle, lid off.					channel
																			Tube likely came out of bottle when
													Program done. Restarted						checking for sample 1 volume. Water in fridge and on floor of house. Collected
MO-OJA	4	2	KH,WBC	5/12/2021	0800	PDT	0.099	5	<0.01 cfs	2			program.	0.5L			0800		SCCWRP CEC sample.
			,	0,12,2022				_					F6						Removed silicone dam from channel and
MO-OJA	4	3	KH,WBC	5/13/2021	0955	PDT	0.096	5	<0.01 cfs	2	2L Distilled	481,795	Program done	20L	24	0955			reconnected intake line
		1 1]]				
MO-HUE	4	1	KH,WBC	5/11/2021	1040	PDT	NA	NA	NA	2	4L Distilled	501,325	Time: 40 min/500mlx35	Installed labelled bottle, lid off.					Pump station turned on pump while onsite and very strong sulfur odor present after
MO-HUE		2		5/11/2021	0950	PDT	NA NA	NA NA	NA NA	2	2L Distilled		Program done	18.5L	24	0950	0950		and very strong suntri oddr present diter
				l .						Turned				Installed labelled					
ME-CC	4	1	KH,WBC	4/28/2021	0935	PDT	1.261	NA	NR	on	4L Distilled	446,083	Time: 40 min/500mlx35	bottle, lid off.					
ME-CC	4	2	KH,WBC	4/29/2021	0950	PDT	1.167	NA	NR	2	2L Distilled	825,204	Program done	20L	24	1000	1000		Collected sample for SCCWRP CEC study.
			,,,,,,	., 25, 2021	5550		2.107					323,204	-0	†		1000	2000		and the second s
										Turned				Installed labelled					Installed calibration line and silicone dam in
MO-CAM	4	1	KH,WBC	4/28/2021	1004	PDT	0.033	10	<0.01 cfs	on	4L Distilled	293,749	Time: 40 min/500mlx35	bottle, lid off.					channel

MO-CAM	4	2	KH,WBC	4/29/2021	1030	PDT	0.035	10	<0.01 cfs	3	2L Distilled	383,430	Program done. Errors have occurred (No more liquid @09:28 & 17:28 (samples 1 & 13)	17L	24	1035	1035	Collected sample for SCCWRP CEC study. Reconnected intake line and removed silicone dam.
мо-мрк	4	1	KH,WBC	4/28/2021	0735	PDT	0.072	0.2	<0.1 cfs	Turned on	4L Distilled	420,974	Time: 40 min/500mlx35 for 1 sample, then changed to 7 min/1000mlx17	Installed labelled bottle, lid off.				Installed calibration line and silicone dam in channel. Flow present so sampler paced aggresively since channel frequently dry.
мо-мрк	4	2	KH,WBC	4/29/2021	0740	PDT	0.075	0.2	Dry/Ponds	0	2L Distilled	557,614	Program done	16.5L	24	0740	NA	Reconnected intake line and removed silicone dam. Flow had stopped and channel dry/ponded, insufficient water present for grab samples
MO-SIM	4	1	KH,WBC	4/28/2021	0815	PDT	NR	NR	<1 cfs	Turned on	4L Distilled	NR	Time: 40 min/500mlx35	Installed labelled bottle, lid off.				Installed calibration line in channel
MO-SIM	4	2	KH,WBC	4/29/2021	0815	PDT	0.17	3	<1 cfs	2	2L Distilled	359,603	Program done	17L	24	0820	0820	Collected sample for SCCWRP CEC study. Removed silicone dam.
мо-тно	4	1	KH,WBC	4/28/2021	0900	PDT	2.006	0	NR	4	4L Distilled	342,448	Time: 40 min/500mlx35	Installed labelled bottle, lid off.				
мо-тно	4	2	KH,WBC	4/29/2021	0910	PDT	2.128	1	NR	4	2L Distilled	505,239	Program done	18L	24	0915	0915	Collected sample for SCCWRP CEC study.

Event Notes:

NR: Not recorded

All times are recorded here in PDT Forecast Rain: Not applicable

Sample Tracking:

Bacteria and chemistry grab and composite samples to Weck Laboratories, Inc. (via Weck-provided courier) 04/27/2021 @ 12:45 PDT (SCR/FIL) by W.B. Carey (no samples at OXN/SPA/VEN (dry)) to RMS courier 04/29/2021 @ 12:20 PDT (CC/CAM/MPK/SIM/THO) by K. Hahs (no grabs at MPK (dry)) to RMS courier 05/12/2020 @ 11:53 PDT (VR2/MEH/OJA(grabs only)/HUE) by K. Hahs (MEI dry) to RMS courier 05/13/2020 @ 12:15 PDT (OJA comp) by W.B. Carey to DCS Courier

Meters:

SCR/FIL (WBC,KH): Beckman 255 #2554, YSI 85 #05E1126 CC/CAM/SIM/THO (WBC/KH): Beckman 255 #2554, YSI 85 #05E1126 VR2/OJA/HUE (WBC,KH): Beckman 255 # 2554, YSI 85 # 05E1042

Deg F	Deg C	Deg C
29	-2	-1.667
30	-1	-1.111
31	-1	-0.556
32	0	0
33	1	0.556
34	1	1.111
35	2	1.667
36	2	2.222
37	3	2.778
38	3	3.333
39	4	3.889
40	4	4.444
41	5	5.000
42	6	5.556
43	6	6.111
44	7	6.667
45	7	7.222

Appendix E. Chain-of Custody Forms



ned Protection Olege

Chain of Custody Record

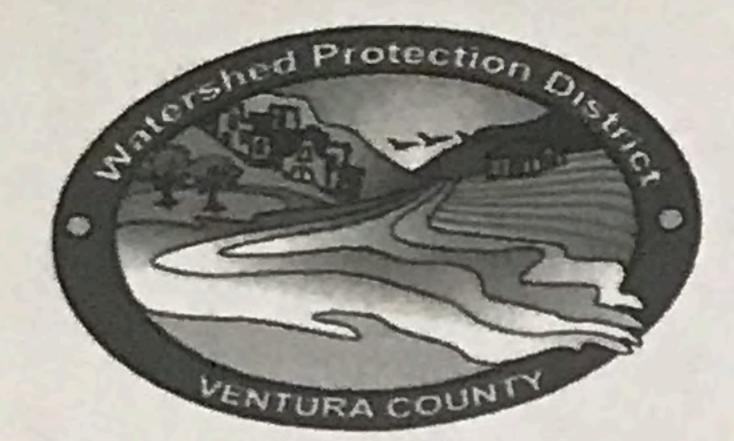
Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season

Pre-season - Weck Laboratories. Invoice Contract No. AE17-001 Mod No. 4

Sampling Team:	8 18/2024 K.H	,	, - ·		T I					***
					t in side bar)		03 (see notes #2)			* Metals by EPA 200.8, Total: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn
SAMPLE ID	DATE/TII COLLECT	ED	EPA 525.2	EPA 625-CTR EPA 353.2 (NO2+NO3-N)	EPA 200.8* (total only, see list in side bar) EPA 245.1. Hg (total only)	No action required	Clean with detergent and HNO3 (see notes #2)	Please dispose of per Lab SOP	Bottle Quantity	NOTES
EB lines	8182020	°850	х	хх	х				6	See note #1
EB composite	8/19/2020	@900 	X	X X	X				1	To be split in lab. See note #1
20 L carboy and lid				_			Х		1	Please place tape or plastic bag over top
Blue cube cooler						Х			1	
Black bag						Х			1	
Waste Dilute HNO3										
Relinquished	Printed Name Signature Affiliation	₩.B			eY arey	Dat	ie/Ti	me	8	1-19-20/1348
Received	Printed Name Signature Affiliation	Weck La	bs	n la	5/11/2 5_0	AV A		0	G	1-19-20/1348
Other Notes:	1. Please use for 2. Please clean	. 18h	A. C.							1 /



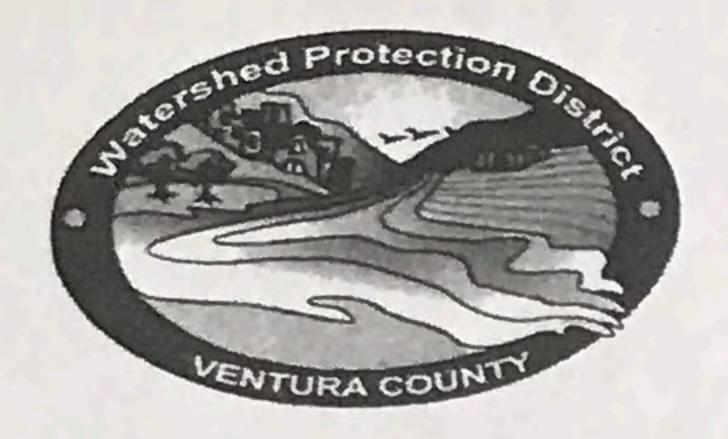
Chain of Custody Record
Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 2 of 2)

Sampling	Date: 12/8/	120		Project 1	Vumber	2020/	/21-1 (Wet)	
Sampling	Team: PD, MD								
LAB US ONLY		DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)			Number of Bottles		NOTES
	MO-SPA		X	X			1		
	MO-FIL		X	X			1		
	MO-SIM		X	X			1		
	MO-MPK		X	X			1		
	MO-THO		X	X					
	MO-OXN		X	X				1	
	MO-HUE	12-28-20/0715	X	X				1	
	FD-1	12.23.20/0715	X	X				1	
linquished	Printed Name	PEHBR DORAN							
	Signature	1/2							
	Affiliation	Rincon		Date/	Time _				
ived	Printed Name	CONCYUN	6	19/	fl	1			
	Signature	MINNU	-	1	11	1	7		
	Affiliation	PHL		Date/	Time _	1	72	1	200815
Notes:	Perform bacteriologica	al analyses within 6 hours	of sar	nple co	ollection	n time			
	1:10 1:100, and 1:1000	dilutions for E. coli							



Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 1 of 2)

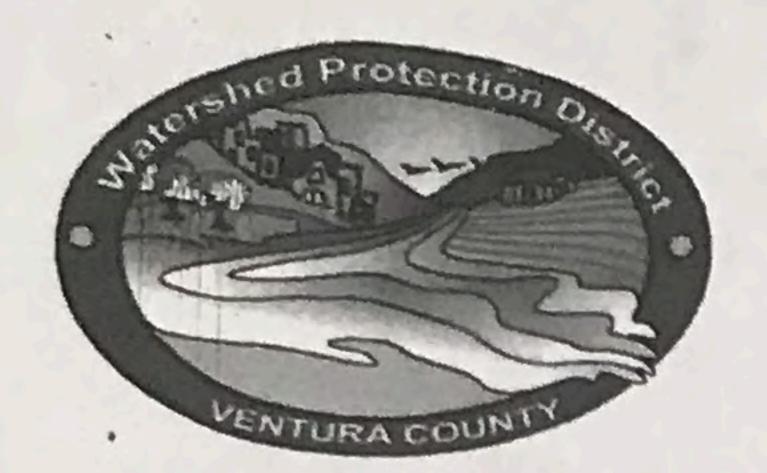
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDE)	E. coli (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	ME-CC	12-28-20/0610	X	X			-1	
	ME-SCR		X	X			1	
	ME-VR2		X	X			1	
	MO-CAM	12.28.20/0500	X	X			1	
	MO-OJA		X	X			1	
	MO-MEI		X	X			1	
	MO-VEN		X	X			1	
	FB-1		X	X			1	
	Printed Name Signature	Peter Dupm 12/2						
	Affiliation	Rinan.		Date/7	ime			
eived P		Camaran a	1	200	1			
Si	ignature	menn	1	2	2			
	ffiliation	DHIL		Date/7		11	01	110001



Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Bacteriological - VCHCA Lab (SIDE 1 of 1)

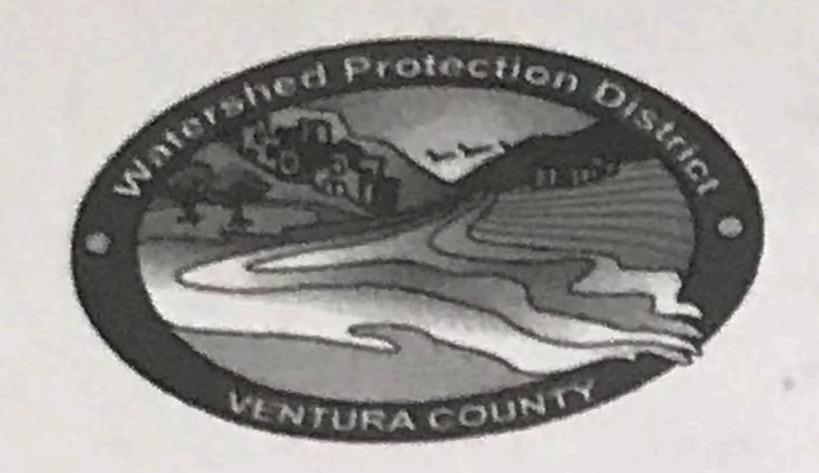
Sampling Dat	re: 12-28-2020			Proje	ct Numb	er: 2020/	21-1 (V	Vet)
Sampling Tea	m: Lasa Shelles	abager Ame A	ns	eln	1			
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	ME-CC		X	X			1	
	ME-SCR		X	X			1	
	ME-VR2	12-28-2020 7:00	X	X			1	
	MO-CAM		X	X			1	
	MO-OJA	12-28-2020 5:00	X	X			1	
	MO-MEI	12-28-2020 6:00	X	X			1	
	MO-VEN	12-28-2020 8:15	X	X			1	
	FB-1		X	X			1	
elinquished	Printed Name Signature Affiliation	Lara Shellen DAN SIL	1	2		12-2	8-2	020 9:10
ceived	Printed Name	Mary	T	10	Mo	S		
	Signature	Mary K.	6)				
	Affiliation	Hlab		Date	e/Time	12	28	3/20/00/910
ner Notes:	Perform bacteriological	l analyses within 6 hours o	f san	nple	collectio	n time		

1:10 1:100, and 1:1000 dilutions for E. coli



Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 2 of 2)

Sampling Dates Sampling Tea				Project I	Number: 2	020/21-1	(we	
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
OIVLI	MO-SPA	12/28/20 04:45	X	X			1	
	MO-FIL	12/28/20 05:45		X			1	
	MO-SIM			X			1	
	MO-MPK		X	X			1	
	MO-THO		X	X			1	
	MO-OXN	12/29/20 06:50	X	X			1	DL 4EM
	MO-HUE		X	X			1	
	FD-1		X	X			1	
linquished	Printed Name	David La	ak					
	Signature	1601	The state of the s					
	Affiliation	VCWPD,	-	Date/	Time 1	2/28/	20	08:45
eived	Printed Name	Mary W.J	14	on	NNS			
	Signature	Wrach &				MI	7	2/00 ACIT
	Affiliation	HUND		Date/	Time	101	0	01000
r Notes:	Perform bacteriologica	al analyses within 6 hours	of sa	ample c	ollection t	time		
	1:10 1:100, and 1:1000	dilutions for E. coli						



Chain of Custody Record
Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 1 of 2)

Sampling Date	12/28/20			Pro	ject Nur	nber: 2	2020/2	1-1 (W	et)
Sampling Tean									
LAB USE		DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Trav Method - WO IDEXX)				Number of Bottles	NOTES
ONLY	SAMPLE ID ME-CC	COLLECTED	X	V				1	
	ME-SCR	12/28/20 07:50	X	X				1	DL+EL
	ME-VR2		X	X	Control of the Contro			1	
	MO-CAM		X	X				1	
	MO-OJA		X	X				1	
	MO MEI		X	X				1	
	MO-VEN		X	X	THE RESIDENCE OF STREET			1	
	EB-1		X	X				1	
nquished	Printed Name								
	Signature	0,0	_						
	Affiliation			D	ate/Tim	ne			
ived	Printed Name	500							
	Signature	8							
	Affiliation			D	ate/Tim	ne			
Notes:	Perform bacteriologica	l analyses within 6 hours	of sa	mp	ole collec	ction ti	me		
	1:10 1:100, and 1:1000	dilutions for E. coli							



Chain of Custody Record
Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 2 of 2)

Sampling T	eam: 12/2/8/2			Proj	ect Nur	nber:	2020/2	21-1 (V	Wet)
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)				Number of Bottles	NOTES
	MO-SPA		X	X				1	
	MO-FIL		X	X				1	
	MO-SIM	12/28/20 0550	X	X				1	
	MO-MPK	12/28/20 0445	X	X				1	
	MO-THO	12/20/20 0050	X	X				1	
	MO-OXN		X	X				1	
	MO-HUE		X	X				1	
	FD-1		X	X				1	
elinquished	Printed Name Signature Affiliation Printed Name	James Mech Australian Consulta Cameran	why.	Da	4				0.815
	Signature Affiliation	Jan C	1	Da	te/Tim	e	7/2	7	200815
ner Notes:	Perform bacteriologica	l analyses within 6 hours of	f sar	nple	collec	tion t	ime		

1:10 1:100, and 1:1000 dilutions for E. coli



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE20-007)

Toxicity - ABC Laboratories

Side 1 of 2

	Sampling Date: Sampling Team:						Project	t Numl	oer: <u>20</u> 2	20/2	11-1 (Wet)	_
	SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (Menidia beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (Ceriodaphnia dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES	adaniyê ar
	ME-CC	COLLECTED	X						8	2	Note 1, Note 2, Note 3	A THINK IS
5	ME-SCR	1429/20 07:50	a/	0/		X				1	Note 1, Note 2, Note 3	191 =
•	ME-VR2	7.0 0 1.00	X							2	Note 1, Note 2, Note 3	
	MO CAM			-		-	X			2	Note 1, Note 2, Note 3	
	MO-OJA				-		X			2	Note 1, Note 2, Note 3	
	MO MEI				-	-	X			2	Note 1, Note 2, Note 3	
	M O-VEN							X		2	Note 1, Note 2, Note 3	
	Relinquished	Printed Name Signature Affiliation	F	E	- (97	Date,	L L	E R	2	SI DE-	_ ⇒
	Received	Printed Name										
		Signature										_
		Affiliation				-	Date	/Tim_				-
	Other Notes:	Note 1: Dilutions - 6.25									te TIE if mortality > 50%	
		Note 3: Notify District									*	



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE20-007)

Toxicity - ABC Laboratories

Side 2 of 2

Sampling Date: Sampling Team:	12/28/20					Project	Numl	per: 202	20/2	1-1 (Wet)			
Sampling Team.	ID, MD												
SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (Menidia beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (Ceriodaphnia dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES			
MO-OXN						Х			2	Note 1, Note 2, Note 3			
MO-HUE	12.24.20 0715	9	,80				X		3	Note 1, Note 2, Note 3,Note 4			
MO-THO							X		2	Note 1, Note 2, Note 3			
MO-MPK							(6)	X	2	Note 1, Note 2, Note 3			
MO-SIM							X	:*	2	Note 1, Note 2, Note 3			
MO-FIL					₩ X		X		2	Note 1, Note 2, Note 3			
MO-SPA					. :	X:			2	Note 1, Note 2, Note 3			
										<u> </u>			
Relinquished Received	Printed Name Signature	w M	hori	/ Rn		-		12-21	b-1	-0 21/			
Other Notes:	Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality > 50% Note 3: Notify District within 24 hours if significant toxicity is observed.												
										tunavailable use Hvalella			



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE20-007)

Toxicity - ABC Laboratories

Side 2 of 2

Sampling Date:	194
Sampling Team	

12/20/20

Project Number: <u>2020/21-1</u> (Wet)

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (Menidia beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (Ceriodaphnia dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES MALI	Booty		
MO-OXN	l a la				-	X			2	Note 1, Note 2, Note 3			
MO-HUE							X		3	Note 1, Note 2, Note 3, Note 4			
мо-тно	12/28/20 0650		3.5	00			X		2	Note 1, Note 2, Note 3	~101		
MO-MPK	12/28/20 0445		1.0					X	2	Note 1, Note 2, Note 3	= 101 = 1001 = 201		
MO-SIM	12/28/20 0550	2	10	60			X		2	Note 1, Note 2, Note 3	=201		
MO-FIL							X		2		,		
MO-SPA						X			2	Note 1, Note 2, Note 3			
Relinquished	Printed Name Jan Signature		1	1001	air								
Received	Affiliation P	P	rae		170	A	_	K	26				
Other Notes:	Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality > 50%												
	Note 3: Notify District	Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute 11E it mortality > 50% Note 3: Notify District within 24 hours if significant toxicity is observed.											

Note 4: If salinity >2 ppt then also run topsmelt for comparison. If topsmelt unavailable, use Hyalella



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE20-007)

Toxicity - ABC Laboratories

Side 1 of 2

	Sampling Date: Sampling Team:	12/28/20 PP. MD				_	Project	: Numb	er: 202	20/2	1-1 (Wet)		
	camping ream.	112, 10113										7	
	<u>.</u> 2		Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (Menidia beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (Ceriodaphnia dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	ber of 5-Gallon Buckets	· · · · · · · · · · · · · · · · · · ·		
	SAMPLE ID	DATE/TIME COLLECTED	Chroni affinis)	Chrc	Chronic pyrifera)	Chrc (Stre	Chrc (Pin	Chrc	Chrc	Number	NOTES	companità .	2 HH 3
V	ME-CC	12-28-20/06010	X	10	2.7					2	Note 1, Note 2, Note 3	01-	201
	ME-SCR	300		•		X				1	Note 1, Note 2, Note 3		1.5
6	ME-VR2	12-28-20	Х	1	,30					2	Note 1, Note 2, Note 3	201:	001
8	MO-CAM	12.29.20 0500	9.	x° (Х			2	Note 1, Note 2, Note 3	105	005
9	МО-ОЈА	h-28-20 0500	4.	39)		X			2	Note 1, Note 2, Note 3	105	401
U	MO-MEI	12-75-20 Dello		-3 *			X			2	Note 1, Note 2, Note 3	1012	LOS
1	MO-VEN	12-23-208:5	7.	87				X		2	Note 1, Note 2, Note 3	401/	601
		,										۵.۰	
												210	
	Relinquished	Printed Name Res	ex T	Doa	·								
		Affiliation Ricc	00		-10		Date,	Tim_L	2.28.	21	0934		
	Received	Printed Name	Ne	Mp	nn	/							
	V	Signature	7	1	11		J						
		Affiliation Again	TIC I	3000	35 14	The contract of the contract o	Date	Tir 1	2/28	3/-	16 0734		
	Other Notes:	Note 1: Dilutions - 6.25	% <u>, 12.</u> 5	5%, 25%	%, 50%	, 100%	No	te 2: Pl	ease ex	ecut	e TIE if mortality > 50%		
		Note 3: Notify District	within ?	24 hou	rs if sig	nifican	t toxic	ty is ob	served				



Sampling Date:

Chain of Custody Record

Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE20-007)

Toxicity - ABC Laboratories

Project Number: 2020/21-1 (Wet)

Side 2 of 2

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (Menidia beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (<i>Pimephales promelas</i>)	Chronic toxicity - daphnid (Ceriodaphnia dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES SUN			
MO-OXN	12/28/20 06:50		8	/		Х		ī	2	Note 1, Note 2, Note 3			
MO HUE			_		_		X	_	,	Note 1, Note 2, Note 3, Note 4			
MO-THO							X		2	Note 1, Note 2, Note 3			
MO-MPK								X	2	Note 1, Note 2, Note 3			
MO SIM		_	_				-Ж-		2	Note 1, Note 2, Note 3			
MO-FIL	12/28/20 05:45	1.	10				X		2	Note 1, Note 2, Note 3			
MO-SPA	12/29/20 04:45	५	8 (X			2	Note 1, Note 2, Note 3			
-													
•	Signature	Day WP	1-	Lac	4	Date/	Tim	12/2	18/	2020 09:22			
	Printed Name Signature	M	ATU	MM		(2.4% 42.204							
	Affiliation Date/Tim 12 M NO 09 Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality												

Served Protection Of State of

Chain of Custody Record

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Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	12/28/	20			1			Project Number: 2020/21-1 (Wet) Grabs							
Sampling Team:	JM, J6	PP.MT	١,	<u> </u>	, i	5,	DL	<u>FI</u>							
	DATE/TIME			Oil & Grease (EPA 1664A) Cyanide (ASTM D7511)	GRO (LUFT GC/MS)	MTBE & 2CLEVE (EPA 624.1)	Travel Blanks (EPA 624.1)-only analyze if hits				Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.			
SAMPLE ID	COLLE				1							NOTES			
ME-CC	12.25.20		1	1	2	3	1			-	8	PPIND			
ME-SCR	12/28/20		1	1	2	3	1			++	8	DIJEL			
ME-VR2	12:28-20		1	1	2	3	1				8	AA, 25			
MO-CAM	12-28-20	0500	2	1	2	3	1				10	Mind			
мо-оја	12-28-26	05:00	1	1	2	3	1				8	AA, LS			
MO-MEI	12-28 20	06:00	1	1	2	3	1				8	AA,LS			
MO-VEN	12:28-20	08:15 07:00	1	1	2	3	1				8	AA, LS			
MO-OXN	12/28/20	06:50	1	1	2	3	1				8	DL, EL			
FD-1	12.28.20		1	1	2	3	1				8	POLLO			
Relinquished	Printed Nam	e WI	L	IA	M	B		AREY			76	* 1			
	Signature	W	20	in		B.	6	aren.				***			
	Affiliation	Vc	w	20				Date/Ti	ime	12/28	120	1 40			
Received	Printed Nam	e ice	3=		Y	_	1								
	Signature	a	1	-	1										
	Affiliation	7	>0	5	1			Date/Ti	me	12/26	120	1430			
Other Notes:	Travel blanks			ınaly				have hits o							
mple times corre	ected for ME-	-VR2 and			101	(M	1	7/7	18170 642		1-0239			



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 2 of 2)

Sampling Date:	12/28/20		Project Number: 2020/21-1 (Wet) Grabs												
Sampling Team:	JM, JG, PA, MD,	AA	÷, &	<u> </u>	òι,	EL									
SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (LUFT-GC/MS)	MTBE & 2CLEVE (EPA 624.1)	Travel Blanks (EPA 624.1)-only analyze if hits								Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
MO-SPA	12/28/20 04:45	1	1	2	3	1								8	DL/EL
MO-FIL	12/20/20 05:45	1	1	2	3	1								8	DU/EL
MO-SIM	17/29/20 0550	1	1	2	3	1	1							8	IM/JG
MO-HUE	12-24-20 0715	1	1	2	3	1	П							8	POIMO
МО-ТНО	12/28/20 0050	1	1	2	3	1								8	JM/16
MO-MPK	12/29/20 0445	1	1	2	3	1								8	JM/J6
FB-1	12-20-20/0715	1	1	2	3	1								8	PD/MO
				:											
Ì															
Relinquished	Printed Name With Signature	LZ.	AM	-		CA Ca	Tİ	Y							
	Affiliation VCh	1 P	D	:			- 1	Dat	te/T	ime		2/2	28 1	20	1430
Received	Printed Name	Ala	0								•				
	Signature 2	4	·												
	Affiliation \(\textstyle \)		Date/Time 12/26/20 1430												
Other Notes:	Travel blanks are only to	unpl	es h												
	EPA 624.1 has replaced						3								
	(4	411		į	21	78	10	? ?						-



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program



Project: NPDES Stormwater Wet Season (*Contract AE17-001*)
Composites - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	_ 12-28-	20					i		-	Proj	ect N	Jum	ber:	202	0/21	-1 (Wet) Composites
Sampling Team:	Jm, 10	, PD,		D,	44	<u>, L</u>	5,1	DL.	E1	-	70	ţ		AŁ	٤		·
			ÇÇ	arbon		tal only)											Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg
			see V 11 CC	d-Organie-G		: Barium (total only)		C	Phenolics		nols *		25-OPP)				Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K
			and NID as CTAS (bon and Dissolve	Residual	i (+ Hardness), &		TKN, Ammonia, TOC	SO4 (300.0),)issolved	AH, 8270SIM-Phe	547-Glyphosate, 608.3-CTR	2-LL (replace w 63	(D)	, TSS, VSS, Cond		608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR,
			Subsample for imazapyr and NID as CTAS (see V-11 COC)	Dissolved Inorganic Carbon and Dissolved Organic Carbon	NO3-N, Total Chlorine Residual	Metals, total & dissolved	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	BOD, COD, MBAS, TK	NO3+NO2 (353.2), Cl, F,	Phosphorus-P-Total-& Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515,4-Herb 547-Glyphos	525.2 Reg+507, 525-OPP-LL (replace w 625-OPP)	DRO/ORO (EPA 8015BD)	CLO4, Turb, TDS,	Number of Bottles	8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test
CANCELE	DATE/T		esqu	1990	03-	letal	9+J	OD,	103+	dsoq	25 1	15,4	25.2	RO,	ALK,	umk	
ME-CC	12/28/20		S.	12	X	X	X	X	X	X	X	X	ικ Χ	X	X	1	J MOTES J MILES
ME-SCR	12-28-20					X	X	X	X	X	X	X	Х	X	X	1	LS .PL
ME-VR2	12-28-20					X	X	Х	X	X	Х	X	X	X	X	1	LS.DL
MO-CAM	12-28-20					X	X	Х	X	X	Х	X	Х	Х	Х	1	DT, JAKE
MO-OJA	12-28-20					Х	X	X	X	X	x	Х	X	X	X	1	LS . DL
MO-MEI		1120				X	X	X	X	X	X	X	X	X	X	1	LS.DL
MO-VEN	12-25-25			_		X	X	X	Х	X	X	X	X	Х	X	1	POIND
		, 3/6									\vdash) () (MI)
Relinquished	Printed Name	· .	/J	LL	IA	~^		ß -	C	`*	RE	۲					
	Signature	0	Ne	<u>ll</u>	ia	9	6	•	C		sy.					-	
	Affiliation		V	م.	√ 🏳	0	. !			Dat	te/Ti	ime	12	<i>[</i> 2	3/2	6	1430
Received	Printed Name		<u>S</u>	=	Δ	n.		LC	<u>></u>	:							
	Signature		X		~		!			:							
	Affiliation		2		2		. !			Dat	te/Ti	ime	L'	2/2	E.	20	[436
Other Notes:	1) Filter for d	issol v ed 1	meta	ds ar	nd pe	rfor	m c	ondı	ıctiv	ity a	naly:	ses is	nme	diat	ely.		
	ons and do no	t dilute lir	mite	d vo	lume	san	ple	wh	en e	nact	ing [rior	ity li	st (le	w r		ting limits are important).
3) Imazapyr (EPA 5	38) and NID 2	as CTAS	(SM	554	(D)	a re t	o bo	pro	cess	ed t	ınde	e a se	par	ıte (ЭС		
<u> </u>		//	1/	\				, -7	17	01.	70					-	~~~~



12/18/121

2.10 70239



Chain of Custody Record Ventura County Watershed Protection District

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NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)
Composites - Weck Laboratories (SIDE 2 of 2)

Sampling Date:	12-28-2	Ô	CO 1	про	!		** •						`			Wet) Composites
Sampling Team:	Jan, JG,		mo,	p. p		<u>-5,</u>	4									, ety composites
SAMPLE ID	DATE/TIN COLLECT			Dissolved Inorganic Carbon and Dissolved Organic Carbon	NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CIR	525.2 Reg+507, 525.OPP-LL (replace w 625-OPP)	DRO/ORO (EPA 8015BD)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test
MO-SPA	12/29/20 12			Х	X,	X	X	Х	X	Х	Х	Х	Х	Х		PD, MD
MO-FIL	12/28/20 12			X	$\mathbf{X}^{!}$	X	X	X	X	X	Х	X	X	X		क्य,क
MO-SIM	12/28/20 1	246		X	X	X.	X	X	x	Х	Х	X	X	Х	1	JW /16
MO-MPK		1310		Х	X	X	X	X	Х	Х	Х	Х	Х	Х	1	20110
MO-THO	12/28/20 1	208		X	Х	Х	X	X	X	х	Х	х	X	X	1	Jm / J6
MO-OXN	12/28/20 1	242		Х	X	X	X	Х	X	X	Х	X	X	Х	1	OT, JAKE
MO-HUE	12/28/20 11	22		Х	X	Х	Х	Х	X	X	Х	Х	Х	Х	1	PD, MD
						-										
Relinquished	Printed Name Signature Affiliation	N.	illi cup	alemon.	R	<u>R.</u>	c	an)	9	• .	ime	1	21	28	12	0 1430
Received	Printed Name	<u>Jo</u>	51	Ay	nC)!	12	LC	<u> </u>				_				
	Signature		A		• :				1							
	Affiliation		X =	•		,			Dat	e/T	ime	Į,	2/	28/	20	l43 <i>0</i>
Other Notes:	1) Filter for diss	olved n	netals ar	ıd pe	erfor	m co	ondi	acti v	1107.0	กลไซ	gec i	mm	diat	 		
2) Please limit dilutio	ons and do not d	ilute lin	ited vo	lume	san	ples	wh	en e	nact	ing p	rior	ity li	st (l	ow r	epor	ting limits are important).

All

2/28/20

2.16 10539

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Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Equipment - Weck Laboratories

Sampling Date:	12-28-2	Ø	:		Project N	Vumber	: 2020/21-1	(Wet) Cleaning	r
Sampling Team:	12-28-2 W.B.CA	REY							
			<u>!</u>	l		1	Т		·
	EQUIPMENT		Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required			NIOT	Tre
485 Lwide neek-					-		Please place t	NOT ape or plastic bag	over top and note on wrap
20 L narrow neck of silicone stopper		sembly) or	14				if bottle was o	cleaned with meths	nol.
Blue cube cooler]4				
Grey bucker								ape or plastic bag of	over top and note on wrap
Black bottle bag			4		12.				
Bottle harness	, <u>, , , , , , , , , , , , , , , , , , </u>		4	ļ	- 2.				
							· .		
					!				·
				<u> </u>				<u> </u>	
Relinquished	Printed Name	WILLI	AM	B- C	AREY	· 			
	Signature	Willia	n B	. Co	vey			· · · · · · · · · · · · · · · · · · ·	
	Affiliation	VCNPC)		Date/Ti	ime <u>l</u>	2/28/20	1430	· · · · · · · · · · · · · · · · · · ·
Received	Printed Name	JOSE A	nou	10					a .
	Signature	JLA-	!						
	Affiliation	Des	1		Date/Ti	ime	12/28/20	1430	
Other Notes:			:						
		1			1-01				
	•	CHI	11.		1281- 642	70			



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	1/28/202							.]	Proje	ct N	Jum	oer.	2020)/21	-2 (\	Wet) Grabs
Sampling Team:	DL+DW,	4D+MD)	M	<u>C</u> +	r D	L						- ··· ÷			
SAMPLE ID	DATE/T		Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (LUFT GC/MS)	MTBE & 2CLEVE (EPA 624.1)	Travel Blanks (EPA 624.1)-only analyze if hits								Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
ME-CC	1/28/21 2240 1 1 2 3 1 8 MC+DL															
ME-SCR	1/28/21 22/5 1 1 2 3 1 8 70-100															
ME-VR2	1/28/21 2215 1 1 2 3 1 8 PD+ND 1/28/21 19:15 1 1 2 3 1 8 DL+DW															
MO-CAM	1 0 1	2145	2	1	2	3	1								10	MC + DL
MO-OJA	1/28/21	17:40	1	1	2	3	1								8	OL+DW
MO-MEI	1 /	18:20	1	1	2	3	1								8	DL+DW
MO-VEN	1	20:05		1	2	3	1								8	OLTOW
MO-OXN	1/28/21	2040	1	1 ·	2	3	1								8	MC + DL
FD-1	1/28/2021	22:15*	1	1	2	3	1								8	LS,EL*
Relinquished	Printed Name	w.B	. د	.AR	εY	,		*FC)-1	sa	mpl	le ir	nfo	no	t re	corded on COC, added manually.
	Signature	<u></u> .	ß.	Ce	are	jo -										
	Affiliation		CV	14~	<u> </u>			-	Dat	e/T	ime		-2	૧-ટ	4/	1400
Received	Printed Name	2:1	V	4			\ <i>\</i>	1	-(25	<u> </u>					·
	Signature	2	<u>, </u>	4)										
	Affiliation	<u>De</u>	5					_	Dat	e/T	îmė	1	- [29	i - 1	21/1460
Other Notes:	Travel blanks a	are only to	be a	analy	zed	if sa	mpl	es ha	ve h	its c	f MT	гве	or 2	-CL	EVI	3)
	EPA 624.1 has	s replaced l	EPA	624	for	MT	ΒE	and 2	2-Cle	ve						
	ļ	4	N	[])			1/	2.	1/2	1		16	30		9.8°C 1-023]



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 2 of 2)

Sampling Date:	1-28-21						Project	Nun	nber: 2020/2	21-2 (Wet) Grabs
Sampling Team:	P. DORAN M. DOR	AN	L	<u>. s</u> ı	E	سعا	BAREEL,	, ŧ.	FOWERT	, ~ ^	CARTER, D. LENZ
	DATE/TIME	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	(LUFT GC/MS)	MTBE & 2CLEVE (EPA 624.1)	Travel Blanks (EPA 624.1)-only analyze if hits				Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
SAMPLE ID	COLLECTED	Oil 8	Çyar	GRO	MTE	Trav				Num	NOTES
MO-SPA	1/25/21 2110	1	1	2	3	1				- 8	PD+MD
MO-FIL	1/28/21 2015	1	1	2	3	î				8	PDIND
MO-SIM	1/28/21 2110	1	1	2	3	1				8	
MO-HUE	1/28/21 1900	1	1	2	3	1		 		8	MC + DL
MO-THO	1/28/21 2215	1	1	2	3	To de				8	LSEEL
MO-MPK	1128/21 2000	1	1	2	3	1		<u> </u>	 	8	
FB-1	1/28/21 1955	1	1	2	3	-1				8	LSEEL
				,						1	
			-			-					
Relinquished	Printed Name W. 8								·		
	Affiliation W.B		, P (6	ar'		D-4- /	T':	1.30	-> 1	/ 1400
Received		ve			wł	70	Date/1	ıme	1-201	21	7 1400
	Signature		V.		متتد						
	Affiliation DS	9					Date/1	l'ime	1.20	(- ^	11-/1400
Other Notes:	Travel blanks are only to	be a	ınalv	zed:	if saı	mple	s have hirs	of M	TBE or 2-01	EVE	¢
	EPA 624.1 has replaced.									T	-/
	MAN		/2	9	12	A CONTRACTOR OF THE PARTY OF TH			0.80	02'	30 1630



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (*Contract AE17-001*)
Composites - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	1-29-21			-					Proje	ect N	lum	ber:	` 202	0/21	-2 (Wet) Composites
Sampling Team:	DL, DW, PO	, DC						·				•			`	
SAMPLE ID ME-CC ME-SCR ME-VR2 MO-CAM MO-OJA MO-MEI MO-VEN	DATE/TIME COLLECTED 1/29/21 11:10 1/29/21 10:3 1/29/21 08:3 1/29/21 08:3	15 10 5 0		× NO3-N, Total Chlorine Residual	X X X X X X Metals, total & dissolved (+ Hardness), & Barium (total only)	x x x x x x x x x x x x x x x x x x x	X X X X X BOD, COD, MBAS, TKN, Ammonia, TOC	\times \times \times \times \times \times NO3+NO2 (353.2), Cl, F (300.0), Phenolics	X X X X Dhosphorus-P Total & Dissolved	X X X X X X X 825.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	X X X X X X 515.4-Herb 547-Glyphosate, 608.3-CTR	X X X X X X X X 525.2 Reg+507, 525-OPP-LL-(replace w 625-OPP)	A X X X X DRO/ORO (EPA 8015D)	X X X X X X ALK, CLO4, Turb, TDS, TSS, VSS, Cond	1 1 1 Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods) NOTES PO OL+OW PLOW PLOW PLOW PLOW PLOW PLOW PLOW PL
	1/29/21 10:0	+		-		^		^	-A	<u>^</u>	A.	X	Х	X	1	DL+OW
Relinquished	Signature	8.c 1.cv	3.0						Dat	e/T	ime	1	-2=	1-7	21/	1400
Received	Printed Name Signature	<u>.</u>	VR(<u></u>	4	4	دع.	3						
	Affiliation	5	-	5					Dat	e/T	ime	,	-7	9	. 7	1400
Other Notes: 2) Please limit dilution	Filter for dissolve ons and do not dilute	d met limite	als ar	nd pe lume	rfor	m co aples	ondu	ictiv en ei	ity ai nacti	nalys ng p	ses in	nme ty lis	diate st (le	ely. ow re	port	ting limits are important).
		مستلجد س	7													



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (<u>Contract AE17-001</u>) Composites - Weck Laboratories (SIDE 2 of 2)

Sampling Date:	1-27.	·21								Proje	ect N	Num	pcr:	202)/21	-2 (\	Wet) Composites
Sampling Team:	MC, DL	, PD DL															
SAMPLE ID	DATE	/TIME ECTED				NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CTR	525.2 Reg+507, 525 OPP LL (replace w 625-OPP)	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods)
MO-SPA	1/29/21	0930				Х	X	x	х	X	Х	Х	X	X	X	1	MC + DL
MO-FIL	1/29/21	0848				x	X	Х	Х	Х	Х	Х	Х	Х	Х	1	MC+DL
MO-SIM	1/29/21	0915				Х	Х	Х	X	X	X	Х	X	Х	Х	1	P
МО-МРК	1/29/21	0845				X	X	X	Х	X	Х	X	X	X	X	1	PD
мо-тно	1/29/21	0955				Х	Х	Х	X	X	X	X	X	X	X	1	6
MO-OXN	1/29/21					X	X	Х	X	Х	Х	X	Х	Х	X	1	MC+DL
MO-HUE	1/29/21	1028				Х	X	X	Х	Х	Х	Х	Х	Х	X	1	MC+DL
												·	٠,				
Relinguished	Printed Na	me' W.	Β.	ے	AR	ξY									•		
1	Cionnerson		/ . E			~/1											
	Signature Affiliation		<u>ر د د</u>				<u> </u>			D	- /T		1	-26			1400
	Atmanon	Q	<u>ر</u> ۱ ،		<u>v</u>			<u> </u>	•			ше			1 - 4		1000
Received	Printed Na	me	1 \	V	<u> </u>		e rí	40	િ	~~\	×						·
	Signature		<u>\</u>	<u>. </u>		ls.											· · · · · · · · · · · · · · · · · · ·
	Affiliation	\mathcal{D}	c'	<u>3</u> .					-	Dat	e/T	ïme	_ t	-2	, 9	- 2	1 1400
Other Notes:	1) Filter for	r dissolved	metz	ds ar	ad p	erfor	m c	rbαò	ıctiv	itė a	nalv	ses i	mme	dian	elv.		
																por	ring limits are important).

1/29/21 163D 1.26 T-023:



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (*Contract AE17-001*)
Equipment - Weck Laboratories

Sampling Date:	1-29-21			<u>_</u>	Project	Number	r: 2020/21-2 (Wet) Cleaning
Sampling Team:	W.B.CAR	EY	<u>.</u>				
			ent and HNO3	ent, HNO3, and	774		
	EQUIPMENT		Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES
-185 L wide neck	earboy and lid						Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
20 L narrow neck silicone stopper	carboy and lid (+a	ssembly) or	14		**		
Blue cube cooler					ŗ	-	
Grey bucker		_					Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Black bottle bag					12		
Bottle harness					2		
						<u> </u>	
<u> </u>			- ·			<u> </u>	
	·			<u> </u>		<u> </u>	
Relinquished	Printed Name	W.B. CAR	ŧεΥ		·		
	Signature	w.B. Ca	Ny				
	Affiliation	VCWPD			Date/1	ime	1-29-21/1400
Received	Printed Name	Bilver (<u>_</u>	treco	et		
	Signature	<u> </u>					
	Affiliation	DC3			Date/1	ime	1-29.21 1400
Other Notes:							



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	3-10-21						Pro	ject :	Num	iber:				8 (Wet) Grabs Wet) Grabs
Sampling Team:	PD, MO, DL, D	<u>ب</u> ,	L	s,	M	c,								
SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (LUFT GC/MS)	MTBE & 2CLEVE (EPA 624.1)	Travel Blanks (EPA 624.1)-only analyze if hits							Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
ME-CC	3-10-21 1140	1	1	2	3	1							8	PD, MD
ME-SCR	3-10-21 03:50	1	1	2	3	1							8	DL,DW
ME-VR2	3-10-21 3:30	1	1	2	3	1							8	LSEMC
MO-CAM	3.10.21 0220	2	1	2	3	1							10	PO, MO
мо-оја	3-10-21 2:10	1	1	2	3	1							8	LSEMC
MO-MEI	3-10-21 2:50	1	1	2	3	1							8	LSEMC
MO-VEN	3-10-21 0130	1	1	2	3	1							8	POIND
MO-OXN	3-10-21 03:00	1	1	2	3	1							8	DL,DW
FD-1		1	1	2	3	1							8	
Relinquished	***************************************	ill	ia Pl	м)			Caru	y ite/T	ime		3-14	7 - 2	21	\ n120
Received	Printed Name	<	N-	The	41		John	Se A						
	Signature Affiliation	} ✓	~~ `C	1	7		Di	ite/T	ime		21.	<u>a1.</u>		1 / 1450
Other Notes:	Travel blanks are only to EPA 624.1 has replaced						es have l	nits c		ГВЕ	or 2-	CLE	VI	



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 2 of 2)

2020/21-3 (Wet) Grabs

Sampling Date:		3-	10	-2	- 9			.]	Proje	ct N	um	ber:	2020)/21	-2 (\	Wet) Grabs
Sampling Team:	D. LAA	K, D. w	/IL	KI	<u> </u>	<u> ~</u> ,	<u>J.</u>	Mc	<u>CR</u>	PRY	<u>' </u>	K,	ρ.	Do	RA	M. DORAN
SAMPLE ID	DATE/ COLLE		Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (LUFT GC/MS)~ 2	MTBE & 2CLEVE (EPA 624.1)	Travel Blanks (EPA 624.1)-only analyze if hits								Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
MO-SPA	3-10-21		1	1	2	<u>≥</u> ;	1								8	
MO-FIL	3-10-21		1	1	2	3	1								8	DL, DW DL, DW
MO-SIM	340-21	Ø1:48	. 1	1	2	3	1								8	al Maria Maria
MO-HUE	Δ.	0305	1	1	2	3	1								8	PD, MD
мо-тно	340-21	02: 38	1	1	2	3	1								8	JA JK
MO-MPK	3.10.2	103:15	1	1	2	3	1								8	JA 114
FB-1			1	1	2	3	1								8	
& SAMPLE T	ime come	Ettal pa	↓ ↓	-sit-	CH.	e, p	m	3/11	/11							
Relinquished	Printed Nam Signature Affiliation	Wi	LL? Il	io	^_				ندو		me		3-	10 -	21,	1450
Received	Printed Nam	ne 📈	ęΛ	Λę	4	+	<u> </u>	oh	<u>,vs</u>	بار.						
	Signature		$\stackrel{}{\gamma}$		(<u>)</u>		\geqslant	سرر								
	Affiliation	_0	<u>C'5</u>	_		l		_	Dat	e/Ti	me			3	12	121/1450
Other Notes:	Travel blank	s are only to	be :	analy	zed	if sa	mpl	es ha	ve h	its o	f M	ГВЕ	or 2	2-CL	EVI	Ε)
	EPA 624.1 h	nas replaced	EP.	1 624	for	МТ	BE	and 2	2-Cle							
		A 1	X	1	,)	3	/	lo /.	2-1	o-star	10				1.6	36 0236



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (<u>Contract AE17-001</u>) Composites - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	3-10-2							ı	Proj	ect l	Vum	ber:	202	0/2	-2 (Wet) Composites
Sampling Team:	PD, MD, W	<i>و</i> د,	ŢΜ,	*	R	4										
SAMPLE ID	DATE/TIMI COLLECTEI			NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CTR	525.2 Reg+507, 525-OPP-LL (replace w 625-OPP)	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods)
ME-CC	3-10-21/124	٦_		X	X	X	X	X	X	X	X	X	Х	Х	1	PD,MD
ME-SCR	3-10-21/131	10			X	Χ	Χ	X	X	Χ	Х	X	X	X	1	WBC
ME-VR2	3-16-21/11		$oldsymbol{ol}}}}}}}}}}}}}}}}}$		X	X	X	X	X	X	X	Х	Х	X	1	WBC
MO-CAM	3-10-21/0438				Χ	X	X	X	X	X	X	X	X	X	1	PD, MD
MO-OJA	3/10/21/10	00			Х	X	X	X	X	X	X	X	X	X	1	JM, RP
MO-MEI	3/10/21/10	25			X	X	X	X	X	X	Х	X	Х	X	1	JM, RP
MO-VEN	3-10-21/1050				Χ	Χ	Χ	X	Χ	X	X	X	X	X	1	3D, MO
	1															
Relinquished	Printed Name Signature Affiliation	W	LL: illi cw	im	ท				AR Or		***************************************		₹ - 1		- 1	1/1456
	Titiliadon		,								шис		•			,,,,,,,
Received	Printed Name		Ser	72.	6+4	<u>t</u>	<u>.5</u>	0	nS	<u>, U</u>						
	Signature		<u>L</u>	<u> </u>	5	<u>, u</u>	M	^								
	Affiliation	······································		<u>) <</u>	<u>s'</u>				Dat	e/T	ime		5	10	2	1 /1420
Other Notes:	1) Filter for dissol	ved me	tals a	nd pe	erfor	m co	ondu	ıctiv	ity a	nalys	ses ir	nme	diate	ely.		
2) Please limit diluti															por	ting limits are important).



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season (Contract AE17-001)

Composites - Weck Laboratories (SIDE 2 of 2)

Sampling Date:	3-10-21]	Proj	ect N	Jum	ber:	202	0/21	-2 (Wet) Composites
Sampling Team:	DL, DW, JA	1, J H	1	Ď	W	0											
SAMPLE ID	DATE/TIM COLLECTE	E				NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CTR	525.2 Reg+507, 525-OPP-LL (replace w 625-OPP)	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods)
MO-SPA	3-10-21 05:		7			X	X	X	X	X	X	X	X	X	X	1	DL,OW
MO-FIL	. 9	705				X	X	X	X	X	X	X	X	Х	X	1	JM, 20
MO-SIM	3-10-21/1		04	: 4	8	X	X	X	X	Х	Х	Х	X	Х	Х	1	1M JK
MO-MPK	3-10-211-6	* o	4	:2	7	X	X	X	X	X	Х	Х	X	X	Χ	1	JA 12
мо-тно	3-10-21/1216	,				Х	X	Χ	X	X	Х	Х	X	Х	Х	1	70, MD
MO-OXN	3-10-2 04:					X	X	X	Х	X	Χ	Χ	Х	Х	X	1	DL, OW
MO-HUE	3/10/21/11	15				X	X	X	X	X	X	Х	X	X	X	1	JM, RP
*Sample ti	me change	e re	qı	ıe:	st	ре	er	Κe	11	У	На	hs		3/	11	/2	l BG
Relinquished	Printed Name	WI	<i>(</i>	7	٠.		В.	_	AR	ΕY	,						
Remiquisited	_				٠			. (
	Signature						(D)		_0		-			•		_ ^	1/1450
	Affiliation	V	<u> </u>	76	7					Dat	e/T	ime		<u> </u>	10	-2	17 1750
Received	Printed Name		ی	צבל,	<u>, 4</u>	<i>H</i>		3	مله	/ n >	ىم						
	Signature		γ		1	4	_	d	<u> </u>								
	Affiliation		,	$\vec{\Omega}$	3	4	/	,		Dat	c/T	ime		~	راخ	٥	21/1450
Other Netter	1) Eilter for Jim	Jarod	o.t.	- م	de	-fo	·			in.	nolve	202 :-	m	diat	olv.		
Other Notes: 2) Please limit dilution	1) Filter for disso ons and do not dil			_												epor	ting limits are important).
	20 110t UII						1				01			- /- /		1	β Γ

3/0/21 1709 1.8°C T-1739



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season (Contract AE17-001)

Equipment - Weck Laboratories

Sampling Date:	3-10-21				Project :	Number	: 2020/21-2 (Wet) Cleaning
Sampling Team:	WBC						
				1		1	***************************************
	EQUIPMENT		Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES
18.5 L wide neck c							Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
20 L narrow neck c silicone stopper	arboy and lid (+as:	sembly) or	14				NO DELICE WAS CREATED WITH FREE HANDS
Blue cube cooler					14		
Grey bucket	***************************************						Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Black bottle bag					12		
Bottle harness					2		
Relinquished	Printed Name	WILLIA	m B	. CAI	REY		
	Signature	William	В.	. Cas	rey		
	Affiliation	ventb			Date/T	ime	3-10-21/1450
Received	Printed Name	Kenn	c+4	50	hrs	a ~	
	Signature	__\	0	John	<u> </u>		
	Affiliation	00	5		Date/T	ime	3/16/21/1450
Other Notes:							



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Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 1 of

Sampling Date:	4/20 4/20	7/2021	Project Numb	ц() er: 2020 /21- 1 (₩	M) Grabs CCW	
Sampling Team:	4/20 4/20 WBC, KH			·		
SAMPLE ID ME-CC MO-MPK MO-SIM MO-CAM	DATE/TIME COLLECTED 4/29/2021 10:00 4/29/2021 08:20 10:35	↑	total coliforn + E. Coli (coliler, 30 th)	(S) (A) Why Sy Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks. NOTES	
MO-THO	V 09:15	1 1 2	1	5		
	**				· · · · · · · · · · · · · · · · · · ·	
MOOVY						
	<u>, , , , , , , , , , , , , , , , , , , </u>	412				
Relinquished		LLY HAHS	Date/Time	4/29/202	4, 12:20 POT (pm)	
Received	Printed Name Carl		_	L. Aba	/	
,	Signature Q.Do) >	·	1/M 4	129/21 14:29	
4)	Affiliation RMS	/ week Labe	Date/Time	4-29-2021	12:20 pm	
Other Notes:	Terrol blooks are only to EPA 624 L bas replaced.	FPA 624 for MTRE o	nd A Clarra	teria sam	<u>*3 dilutions for</u> 165 1:10 1:100 1:100	
Please	set up bacter	ia analyses i			hold time 6hr deliver	
lab † 21	nr for setup, 8h	w total)	,	•		



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (<u>Contract AE17-001</u>)
Composites - Weck Laboratories (SIDE 1 of 1)

1229032

Sampling Date:		4/29/20	۷1							Proj	ect l	Jum	ber:	202	0/2:	L¥ (Word) Composites CCW
Sampling Team:	u	JBC KH		6													
SAMPLE ID ME-CC MO-MPK MO-SIM MO-CAM	4/2°	ATE/TIME OLLECTED 12021 10:00 07:40 08:20 10:35 09:15	*	X Total Chlorine Posidual Using Sampeas blanchology	× NO3-N, Total Chlorine Residual	X X X X X Metals, total & dissolved (+ Hardness), & Barium (total only)	X X X X X X X X X X X X X X X X X X X	X X X X BOD, COD, MBAS, TKN, Ammonia, TOC		X X X X Dhosphorus-P Total & Dissolved	X X X X X X 625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	X X X X X 515.4-Herb 547-Glyphosate, 608.3-CTR	$ \times	X X X DRO/ORO (EPA 8015D)	X X X X X ALK, CLO4, Turb, TDS, TSS, VSS, Cond	1 1 1 Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods) NOTES
Relinquished	Print	ed Name	رميا	EL	LY		—. Н.	717 ₀	 <								
	Signa	<u></u>		<u>ري</u> بالدم		<u>۔</u>	. #	W.J									
	Affili		j Co	وکد	D	پ				Dat	e/T	me	ı	4/:	29	20	21 12:20 pm (PDT)
Received	Printe	ed Name	Vα)	**	۰,	C	w	la	<u> </u>	مداد	<u>. (b</u>	يا بد	ie:	٤		1- Mal 4 Torsu
<u> </u>	Signa	ture C·	$\sqrt{2}$	D -		; &									-	W	4 4/20/21 14:29
(1)	Affili	ation RMS	Ĺ	ر کا	CK	J	ab	2.		Dat	e/Ti	mе	4	- 2	q - Ţ	202	1 12:20pm
Other Notes:	1) Fil	ter for dissolved	meta	ds an	ıd pe	rfor	m co	ondu	ıctivi	ity aı	alys	es ir	пте	diate	ıly.		•
2) Please limit dilutio	ns an	d do not dilute lir	nite	d vol	ume	sarr	ples	who	en er	nacti	ng p	поп	ty lis	st (lo	W 16	port	ing limits are important).
please next)/w	, total chi	<u>ه</u>	~0	/ <	ブ	₹J(4	<u>~</u> (باب	<u>5¢</u>	<u>s</u> (<u>`~</u>	~	E.	٠ <u>ر</u>	ca w/sample used as

129032



Chain of Custody Record

Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Equipment - Weck Laboratories

Sampling Date:		1/2021		:	Project !	t Number: 2020/21-1 (1964) Cleaning CCW
Sampling Team:	<u>w8c</u>	, ICH				
	EQUIPMENT		Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
18.5 L wide neck	k carboy and lid					Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
20 L narrow neck silicone stopper	k carboy and lid (+a	ssembly) or	5			
Blue cube cooler					5	·
Grey bucket	·					Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Black bottle bag					5	
Bottle harness						
Relinquished	Printed Name	Kellu Bellytte	Hal	ns		
	Affiliation	_ vino	<u> </u>		Date/T	Time 4/29/2021 12:20 pm (PDT
Received	Printed Name	carle 1	Don	ring	uez	z L-Ahad 4- Torsu
	Signature	C002	~			fl 4-29-21 14:29
	Affiliation	RMS/wec	<u>c</u> La	<u>lbs</u>	Date/T	Time 4-29-2021 12:20 pm
Other Notes:						•



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Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SLDE 1 of 1)

Sampling Date:	4/27/2021		Project Number: 202	0/21-4	M) Grabs SCRW
Sampling Team:	WBC, K.H				(
			<u></u> ★ <u>/</u>	T 1 1	
		(A)	col: (coliler+ Tray		Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A) Cyamide (ASTM D7511) GRO (LUFT GC/MS)	Idalcoli-Emt E.	Number of Bottles	NOTES
	4/27/2021 10:10			6	, , , , , , , , , , , , , , , , , , ,
MO-FIL		1 1 2	8	5	
MO-SPA		-		3	DRY
Mo-ox			•	5	DRY
MO-VE		1-1-6	•	5	DRY
		*****		-	,
				•	,
Moderation		landar 2		<u> </u>	
		1			·······
Relinquished	Printed Name WIL	P			
Remiquismed		liam B. CA lliam B. C	·		
÷		wfb	Date/Time 4-2	7-21/	1245
				, -,	v and to pe
Received		a Domingue	2 2		
	Signature	Labs/RMS	D : //H'		
hi an e	Affiliation Weck	cubs/Kiio	Date/Time <u>04-2</u>	7-2021	
Other Notes:		1 — 3 лирге	S HAVE IMIS OF IMIDID OF 2		* *3 dilutions for
Olean	Analyza bacteri	a samples up	on receipt (6-		tma for lob, 8 how btal
Please - For set	υp).	Janahan	पश्चिम १५३	70.	3.27 7029

John County

Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

1954043

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Composites - Weck Laboratories (SIDE 1 of 1)

H/27/2021

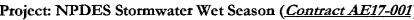
Project Number: 2020/21 - H (DA)

Sampling Date:	Project Number: Composites SCRV																
Sampling Team:	<u> </u>	Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), Wetals by 200.7, Total (only): Ca, Mg (for Hardness calc.), 608 include alpha- & gamma-chlordane															
SAMPLE ID	DATE/COLLE	Instance of the second of the	NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), &	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, (300.0),	Phosphorus-P Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols **	515.4-Herb 547-Glyphosate,	525.2 Reg+507, Metalential (equation)	DRO/ORO (EPA 8015#D)	ALK, CLO4, Turb, TDS, TSS, VSS,	Number of Bottles	Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for		
MO-FIL	4/27/202			-	X	X	X	X	X	X	X	X	X X	X	X	1	
MO-SPA		900		+-	ļ	A	A.	A V	A	A	A V	A 77	A.	A	X	1	000
WO-0W						77											OKY OKY
MO-VE						Z.	37	\mathbf{v}	77	-7.7		-77	_37	77	77	1_	DRY
						¥	77										D1 /
None						X	77	.37	77	-37	37						
Relinquished	Printed Nan Signature		Jak	L I Li	Am P(P	B.	. <u>.</u>		-	Y	-			-		/19 U F
	Affiliation				_						e/ 1	ıme	_	7-	<u> </u>	-21	11245
Received	Printed Nar	ne <u>Ca</u>	<u>Y </u>	<u>a</u>	T)	ŲΜ	n i v	<u>مه ۱</u>	ıl	7							
	Signature	2-1					_						·				
	Affiliation	Weck	La'	<u>b<</u>	12	M	<u>S</u>			Dat	e/T	ime	<u>"</u>	-2	<u>.7-</u>	-21	12:45pm
Other Notes:	1) Filter for																
2) Please limit dilutio	Please limit dilutions and do not dilute limited volume samples when enacting priority list (low reporting limits are important).																
	(Times POT)																
					\	Δ	را زی	ws C	\sim	L	4/2	H	2.1		14)) (3.0 70139



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

1277043



Project: NPDES Stormwater Wet Season (Contract AE17-001)													
VENTURA COUNTY	Equ	ui <mark>pm</mark> en	t - We	ck Laboratories									
Sampling Date: 4/27/2021 Sampling Team: WBC KH	Project Number: 2020/21-1 Cleaning												
EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES									
18.5 L wide neck carboy and lid				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.									
20 L narrow neck carboy and lid (+assembly) or silicone stopper	2			pr bottle was cleaned with methanol									
Blue cube cooler			2										
Grey bucket				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.									
Black bottle bag			2										
Bottle-hameso													

Relinquished	Printed Name WIIIIAM B. CAREY	
	Signature Willim B. Carely	
•	Affiliation VCWPD Date/Time 4-27-21/1245	
Received	Printed Name Caula Dominguez	
	Signature C-VD-2	······
	Affiliation Week Labs RMS Date/Time 4-27-21 12:45 pm	7
Other Notes:		



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 1 of

Sampling Date:	5/12/202	L	Project N	umber: 2020/21	(OV) -4 (Wax Grabs	VRW+HUE
Sampling Team:	W.B. CARE	EY K. HAHS				
		Oil & Grease (EPA 1664A) Cyanide (ASTM D7511) GRO (LUFT GC/MS)	ot3dilutions- see notes) 7		MS/MSD volume p methods blanks.	elect samples for where extra permits (all test excluding travel
SAMPLE ID	DATE/TIME COLLECTED	Oil & G Cyanide GRO (I	Catal		Vumber	NOTES
		1 1 2				
ME-YR	-5/12/21 09:00	2 1 2	1		6	
МО-ОЈА	5/12/21 08:00	1 1 2 1	T _l		5	
MO MEI		1 1 2 3 1	+		B DRY	
MO-HVE	5/12/21 09:50	1 1 2 3 1	1		5	
	:	-			•	
		1-1-2			•	1
Relinquished	Printed Name	LLY HAHS		·		
		Mutters		· · ·		
	Affiliation VC	was	Date/Tin	10 5/12/20	21/1153	
Received	Printed Name	MZ		•	,	
	Signature	1 w	-	.	*	· · · · · · · · · · · · · · · · · · ·
	Affiliation R	ms"	Date/Tin	ne 5/1	2/21	***
Other Notes:	Himes MEPPT	88 a.zw.y255 11-51				lutions Gr
	EDA (3)(1)			adena 50		10,1;100 1;1000
Please set	up locateina an up for Shutato	alyses on re	ccept (so	imple hold t	time 6 hv d	lelivery to lab. +
2hr-6/sd	upi Er Shrtoto	4))	Z	malmon	5/2/21	14:48 3.10 7034

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Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001) Composites - Weck Laboratories (SIDE 1 of

Sampling Date:	5/12/20	21]	Proje	ect N	Vum	ber:	2020)/21	€} (¥	Composites YKW + 11U
Sampling Team:	W.B. cA	rey	<u>'</u> K.	HA	t H S)										
SAMPLE ID	DATE/TIME COLLECTED			The state of the s	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (300.0), Phenolics	Phosphorus-P'Total & Dissolved	625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.4-Herb 547-Glyphosate, 608.3-CTR	525.2 Reg+507, 525-OPP-LL (replace w 625-OPP)	DRO/ORO (EPA 8015D)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness caic.) 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods)
				7.		_							7.	~~		
1						11	1	11							Ż	
ME-VR2	5/12/2021 09:0	ρφ			X	Х	X	Х	X	X	Х	Х	Х	Х	1	
Via Civ					Λ	A	X	Α	A	Α	71	-1				
MO-OJA		\bot			***	X	X	Х	Х	Х	X	X	X	X	-	sample issue
MO-MEI		+			X	X	Α	X	A	Α	À	X	<u>X</u>	<u>X</u>	1	DRY
W0- No	Eslalu 09.50	<u> </u>			Х	X	Х	Х	X	X	Х	X	Х	Х	1	
					<u> </u>							<u> </u>				
Relinquished	Printed Name Signature	લાપ	<u>Ke</u>	<u> </u>	<u></u>	<u>, </u>	H	AH	5							
	Affiliation	VE	<u> </u>) (1			_	Da	te/T	ime	51	12	Σ Δ'	2١.	/ 11:53
Received	Printed Name			Z		2		7								
	Signature		<u></u>	~												
	Affiliation	Ł	w	<u> </u>	<u>2</u>			-	Da	te/T	ïme	_	_	5	/1	2/2/
Other Notes:	1) Filter for dissolve	i meta	ls an	ıd p	erfo	un c	ond	uctiv	ity a	naly	ses i	mm	diat	ely.		
2) Please limit dilut	ions and do not dilute	limited	l vol	lum	e sar	nple	s wb	en e	nact	ing J	orion	ity l	st (lo	ow r	epor	ting limits are important).
All times P	7.0.7															



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Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (*Contract AE17-001*)

Equipment - Weck Laboratories

Sampling Date:	5/12/2	021		Project	Number: 2020/21- (OV)
Sampling Team:	K. HAHS	· · · · · · · · · · · · · · · · · · ·			
		Clean with detergent and HN03	Clean with detergent, HNO3, and methanol*	No action required	
1057 -: 1-	EQUIPMENT		Cle	_°Ž	NOTES Please place tape or plastic bag over top and note on wrap
18.5 L wide nec		<u> </u>	<u> </u>		if bottle was cleaned with methanol.
silicone stopper	k carboy and lid (+assem)	2			
Blue cube cooler				2	
Grey bucket					Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Black bottle bag				2	
Bottle hamess				·	
Relinquished	Printed Name	KELLY	HAH	5	
	Signature	Colly Hola			
·	Affiliation \	icmb27		Date/T	ime 5/12/2021/11:53
Received	Printed Name	Chi	23		
	Signature	Men			
	Affiliation	Kn5	<u> </u>	Date/T	Time 5) 7/7)
Other Notes:	TG9 comit 11A		<u> </u>		

Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Dry Weather (Contract AE17-001)

Composites - Weck Laboratories (SIDE 1 of 1)

Sampling Date:	5/13/2	p2/					1	Proje	ect N	Jum	ber:	2020)/21	-4 (I	Ory) Composites VR	W(OJA)
Sampling Team:	W.B. C	AREY	K.	HAF	5_											
SAMPLE ID MO-OJA	DATE/TI COLLECT 5/13/202\	ΓED			X Ct+6	X BOD, COD, MBAS, TKN, Ammonia, TOC	X NO3+NO2 (353.2), Cl, F (300.0), Phenolics	X Phosphorus-P Total & Dissolved	X 625.1-CTR, 8270SIM-PAH, 8270SIM-Phenols *	X 515.4-Herb 547-Glyphosate, 608.3-CTR	× 525.2 Reg+507, 625-OPP-LL	× DRO/ORO (EPA 8015B)	X ALK, CLO4, Turb, TDS, TSS, VSS, Cond	1 Number of Bottles	Metals by200.8, To Dissolved: Sb, Ag, As, Be, Cd, Cr, Cu, Pb, Se, Tl, Zn, Hg Metals by 200.7, T (only): Ca, Mg (for Hardness calc.) 608.3 include alph gamma-chlordane * Same extraction low-level spike for methods: 625.1-Castron 1000-1000-1000-1000-1000-1000-1000-100	Al, Fe, Ni, otal or a- & with 3 TR, s
Relinquished	Printed Name			AM			<u> </u>	•								
- Commy money	Signature	1.1-1	1	14 Je 1	<u>۔۔</u> ادخ	<u>ه د کاره .</u> د کاستان	<u> </u>									
	Affiliation	<u>"""</u>	w P	<u> </u>			No.	Dat	æ/T	ime			-12	-2	1/1215	
- · ·					0	٠-	•	Dai	.c, 1	ш.с		<u> </u>	- 3		() (2.13	······································
Received	Printed Name	-601	<u>ر بم</u> ا	die	· · ·	,										
	Signature	1	1	- fu											1	······································
	Affiliation			M				Dat	te/T	ime	_5	- [3~	<u>u</u>	1215	
Other Notes:	1) Filter for dis														· 	
2) Please do not dil	ute limited volus	ne samples	when	enactir	ıg pr	iority	list	(lov	v rep	orti	ng lii	nits	are:	impo	ortant).	





Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Dry Weather (Contract AE17-001)
Equipment - Weck Laboratories

Sampling Date:	5/13/20			7	Project 1	Number	: 2020/21-4 (Dry) Cleaning VR	W(OJA)
Sampling Team:	WB. CARE	EY, K. HAH	<u>ı</u>		÷			
			Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required			
	EQUIPMENT		Clear	Clear	No a	1	NOTES	
18.5 L wide necl							Please place tape or plastic bag over to if bottle was cleaned with methanol.	op and note on wrap
20 L narrow neck carboy and lid (+assembly) or silicone stopper							Please place tape or plastic bag over to if bottle was cleaned with methanol.	op and note on wrap
Silicone stoppers								
Blue cube cooler					l			
Grey bucket								
Black bottle bag					1			
Bottle harness					<u> </u>			
Relinquished	Printed Name Signature Affiliation	WILL: William NCW F	m C	iney	REY Date/T		5-13-21/1215	
Received	Printed Name	MISAM	1 /mg	CH>		•		
	Signature Affiliation	BC/NA	<u>火</u>		Date/T	ime _	5-13-21/1215	
Other Notes:	* Allow to air dry	(don't rinse) a	fter met	hanol stej	to avo	id organ	ics contamination).	
	Record the bottle	es cleaned with r	nethano	l.	-	- i		
		•			70	mahm	n 5/13/21 15:10	2.9°C



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Major Outfall Dry Weather Monitoring

Grabs - FGL Environmental

1				ITGROW						WA Attn: Kelly Hahs	71	1060
Sampling Date:		10/				Sample :	Event:	DRY 20	21		<u> </u>	1001
Sampling Team:	W	B. C	AREY K	S. HAHS	<u> </u>	_						
					E. coli (Colilert) 000 dilutions]							
SAMPI	.E ID		DATE/ COLLE		Total Coliform and E. coli (Colil [x 10, x 100, and x 1000 dilutions]				Number of Bottles	NOTES		
Camarillo-1					X				1	·		
Fillmore-1			8/10/21	09:30	X				1			•
Moorpask 1					Х				+			
Ojai -7			8/10/21	11:00	X _				1			
Oxnard 2			8/10/21	07:50	х				1			
Port Hueneme-3			8/10/21	12:45	х				1			
Santa Paula-2					X				1			
Simi Valley-1					X				1			
Thousand Oaks-1					X.				1			
Unincorporated 4					X				1			
Ventura- 5			8/10/21	11:40	х				1			
Relinquished	Printe Signat Affilia		WILLI Willia Vew 1	n Ca	rcy		ime £	3-10-2	21/	1330		
Received	Printe Signat Affilia		Celin Col	a A	ren a	Date/T	UD Time	 	30,			700
Other Notes:	Sampl		urban runoff g		D conta	ct: Kelly	.Hahs@	ventura.c	rg (8	005) 658-4375 ns and analyze	سلا	in / · ·



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Major Outfall Dry Weather Monitoring

Grabs - FGL Environmental

Please invoice: MA FRUITGROWERLFY22MA01 UNIT 4211PWA Attn: Kelly Hahs

Sampling Date: 8/11/21					Sample :	Event:	DRY 2021				
Sampling Team:		REY, K. H	IAH5								
				٦							
				liler s]			1				
				dilu							
				9 9 9							
				and x 1				les			
				ang a				of Bottles			
				Total Coliform and E. coli (Colilert) [x 10, x 100, and x 1000 dilutions]				r of			
		DATE	/TIME	21 C 0, x				Number			
SAMP	LE ID		ECTED	<u>x</u> 1				N	NOTES		
Camarillo-1		8/11/21	07:30	х				1			
Fillmore 1				x				+			
Moorpark-1	-	8/11/21	૦૧:15	х				1			
Ojai-1				X				4	•		
Oxnard-1				-X			_	4			
Port-Hueneme-3				X			-	1	•		
Santa Paula-		8/11/21	11:35	х				1			
Simi Valley-1		8/11/21	09:00	х		-		1			
Thousand Oaks-1	•	8/11/21	10:10	х				1			
Unincorporated-4		8/11/21	09:30	х				1			
Ventura-1				- x				1			
Relinquished	Printed Name	KEL	LY HAT	15							
•	Signature	dh	HLS								
	Affiliation	V	weo	_	Date/Ti	me	8/11/2	21	12:30		
Received	Printed Name	Mind	a Aleo	79	·						
	Signature	101	7								
	Affiliation	Pai	\\		Date/Ti	me	8/11	1/	21 12:36		
Other Notes:	Samples are all	urban runoff	grabs. VCWI	D conta	ıct: Kelly.	Hahs@	ventura.o	1 1g (8	305) 658-4375		
	Please to						• .		and analyze within		
	2 hours		ept at la	ab.					\mathcal{I}		
	Alltimes P.	DT	-								



Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

1411100

Major Outfall Dry Weather Monitoring Grabs - Weck Laboratories

	- h - h - h - h -	Invoice Contract No. AE17-001 Med No. C
Sampling Date:	8/10/21 +8/11/21	Sample Event: DRY 2021
Samplina Taami	ING CAREY	

SAMPLE ID		/TIME ECTED	Total Hardness	TOC	Dissolved Metals by 200.8 (Need 106 -(1) tevel		Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks. Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.)
Camarillo-1	8/11/21	07:30	X	X	X			1997
Fillmore-1	8/10/21	09:30	X	X	X			
Moorpark-1	8/11/21	08:15	X	Х	X	·		
Ojai -7	8/10/21	11:00	X	х	X			
Oxnard 2	8/10/21	07:50	X	Х	X			
Port Hueneme-3	8/10/21	12:45	X	х	X			
Santa Paula-	8/11/21	11:35	Х	Х	Х			
Simi Valley-1	8/11/21	ය .∞	X	X	x			
Thousand Oaks-1	8/11/21	10:10	X	Х	X			·
Unincorporated-4	8/11/21	O9:30	X	х	X			
Ventura- 5	8/10/21	11:40	· X	X	X			

Relinquished	Printed Name	W.B. CAREY			
	Signature	W.B. Caren			
	Affiliation	NCWPD	Date/Time	8-11-21 / 1560	
Received	Printed Name	Allan Goys	.ourl		
	Signature	Or	Market and the second of the s		
	Affiliation	WECK	Date/Time	8-11-21/1500	
Other Notes:	Lead, copper	zinc to be lab filte	ercel for dissol	lved.	-
	All times f				
RELINQ X	Michael Abacil	bussery all		8/11/2, 1800 CDV (1°	70284