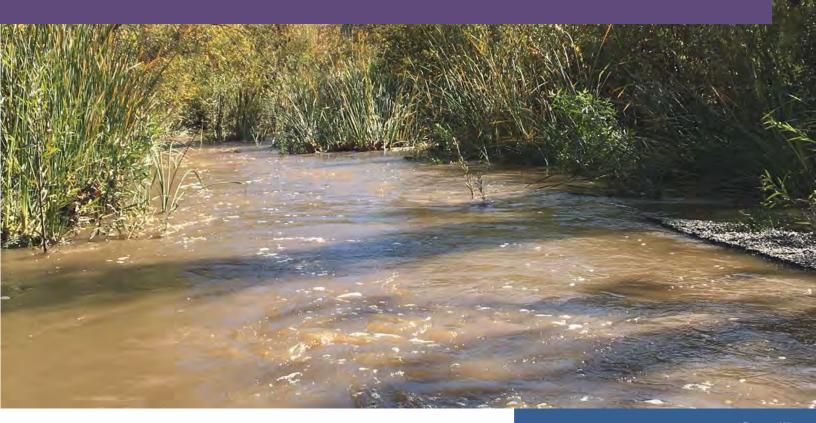


2019-2020 Permit Year

Ventura Countywide Stormwater Quality Management Program Annual Report

Attachment D Monitoring Appendices A - E



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

December 15, 2020

Appendix A: Major Outfall Station Fact Sheets (Updated 2019)

Camarillo

Station: MO-CAM (Camarillo-1)

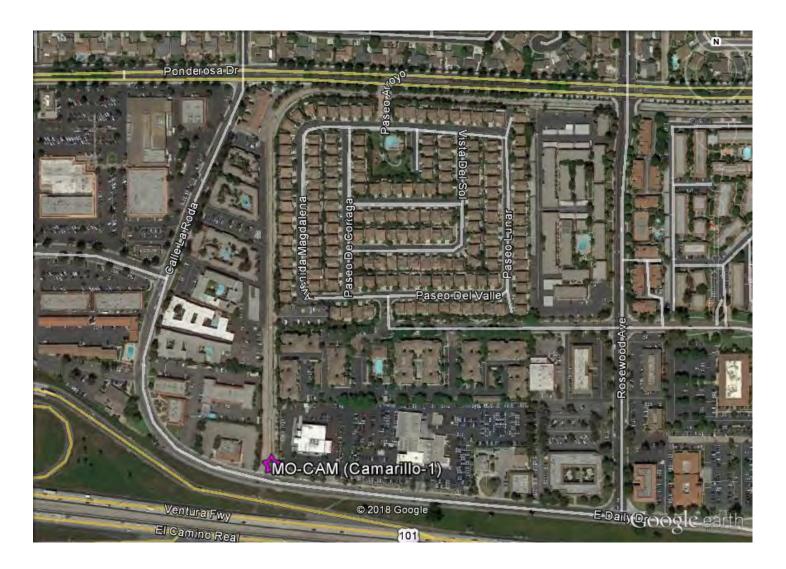
Waterbody: Camarillo Hills Drain (tributary to Revolon Slough)

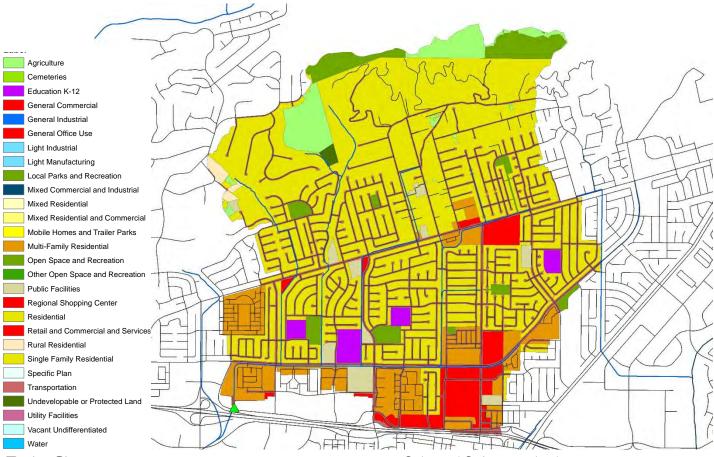
Location: Daily Rd. overcrossing (34°13'10.40"N, 119° 3'58.00"W)

Known Issues: None

Dry Season Flow: Low flow typically present year-round in dry weather due to urban runoff.







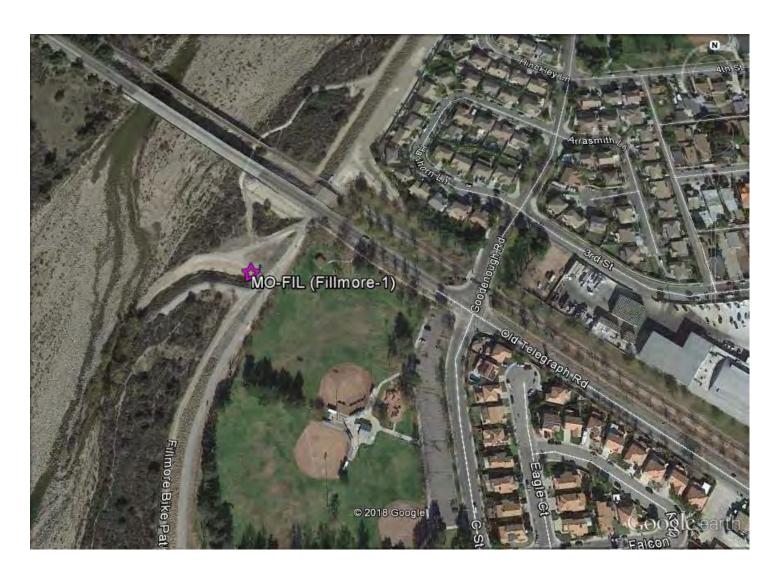
Land Use	Acres	% of Total Watershed
Agriculture	1358.6	10.7%
Education K-12	202.0	1.6%
General Office Use	73.8	0.6%
Light Industrial	950.1	7.5%
Local Parks and Recreation	230.4	1.8%
Mixed Commercial and Industrial	7.2	0.1%
Mobile Homes and Trailer Parks	137.4	1.1%
Multi-Family Residential	1521.5	12.0%
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%

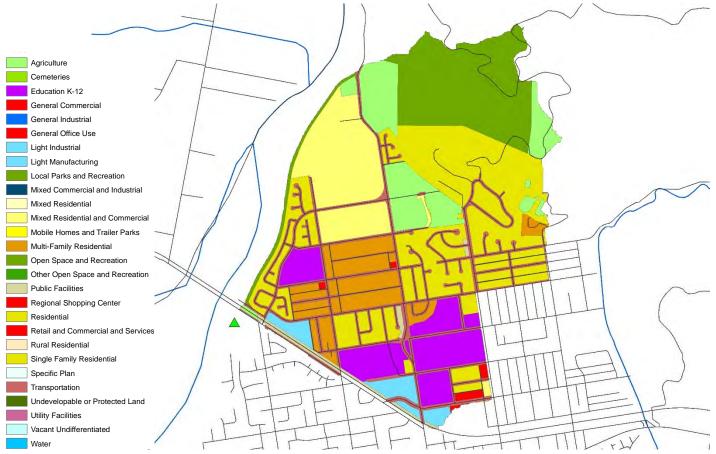
Selected Subwatershed				
Land Use	Acres	% of Total Watershed		
Agriculture	109.8	3.9%		
Education K-12	47.6	1.7%		
General Office Use	9.4	0.3%		
Local Parks and Recreation	48.9	1.7%		
Multi-Family Residential	272.9	9.6%		
Open Space and Recreation	74.5	2.6%		
Public Facilities	58.2	2.1%		
Retail and 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)

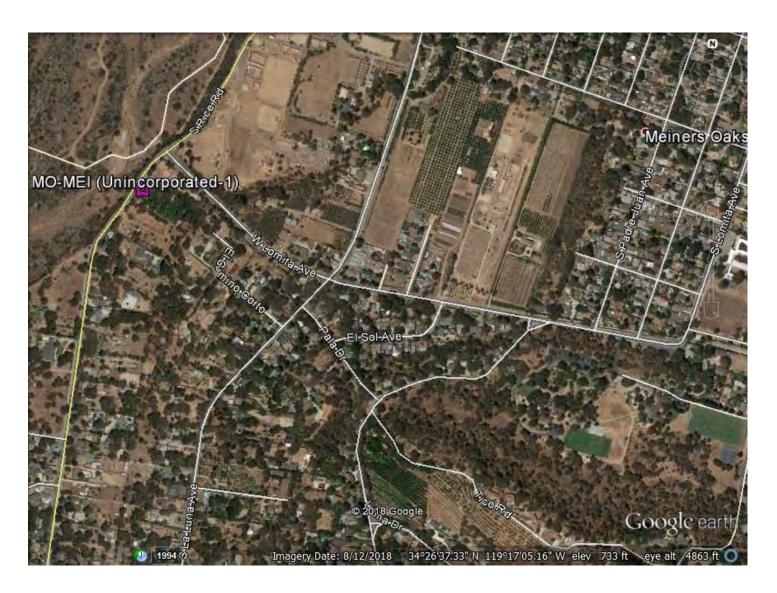
Waterbody: Happy Valley Drain (tributary to Ventura River)

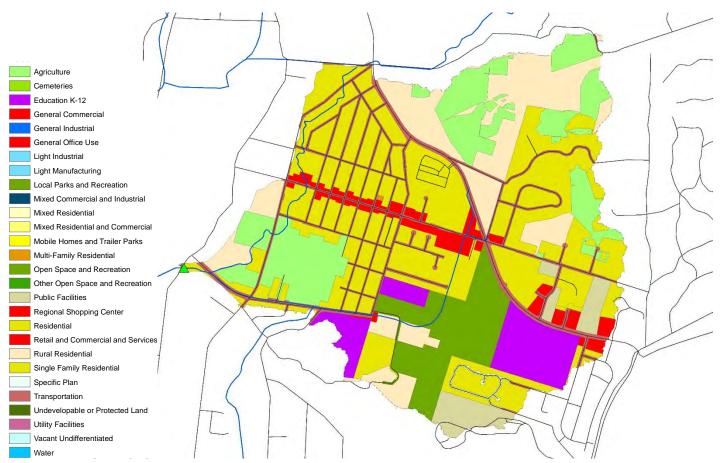
Location: Southwest of Lomita Rd. and Rice Rd. intersection (34°26'43.94"N, 119°17'25.15"W)

Known Issues: Homeless occasionally present under bridge at site.

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







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)

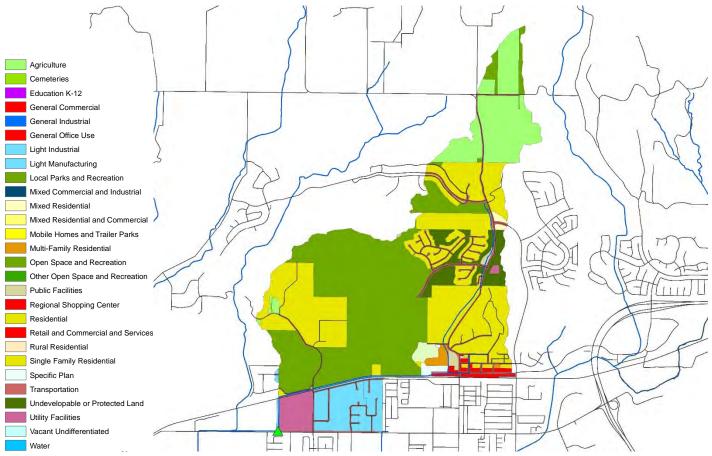
Location: North side of SR 118 near southwest corner of So. Cal. Edison property (34°16'44.14"N, 118°54'19.21"W)

Known Issues: None

Dry Season Flow Potential: Intermittent year-round flow due to urban runoff







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%

<u>Ojai</u>

Station: MO-OJA (Ojai-1)

Waterbody: Fox Canyon Barranca (tributary to San Antonio Creek)

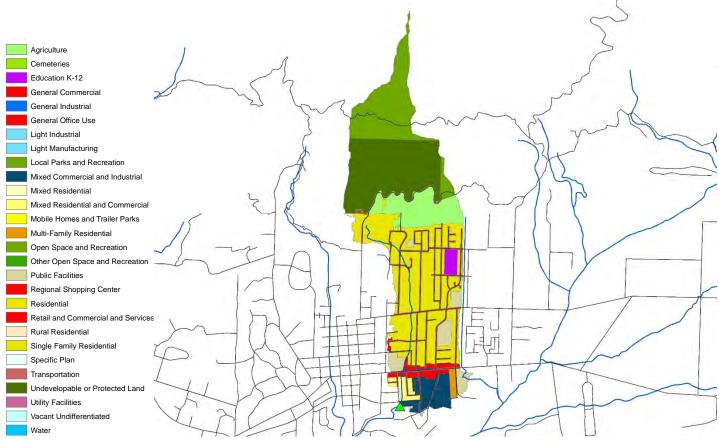
Location: Concrete box channel upstream Ojai Valley Athletic Club and downstream pedestrian walkway (34°26'41.26"N, 119°14'28.32"W)

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

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)

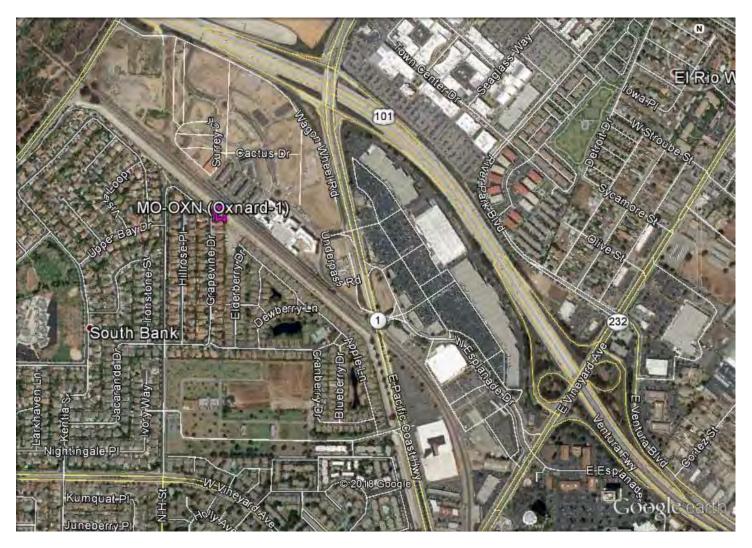
Waterbody: El Rio Drain (tributary to Santa Clara River)

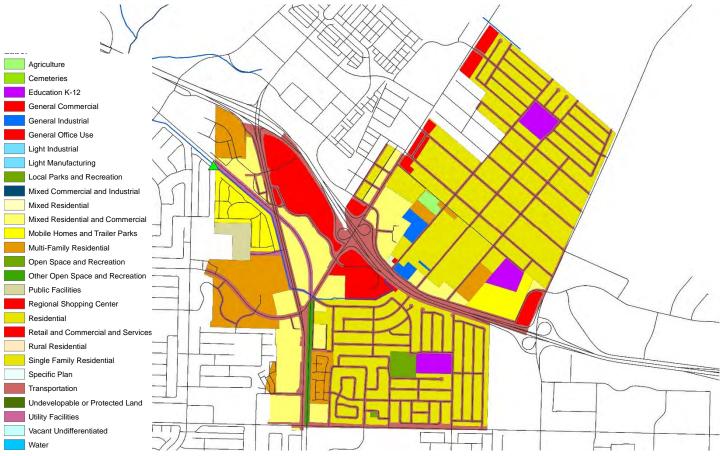
Location: Pedestrian bridge 50 yds. southwest bend of Winchester Dr. (34°14'10.13"N, 119°11'3.88"W)

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%

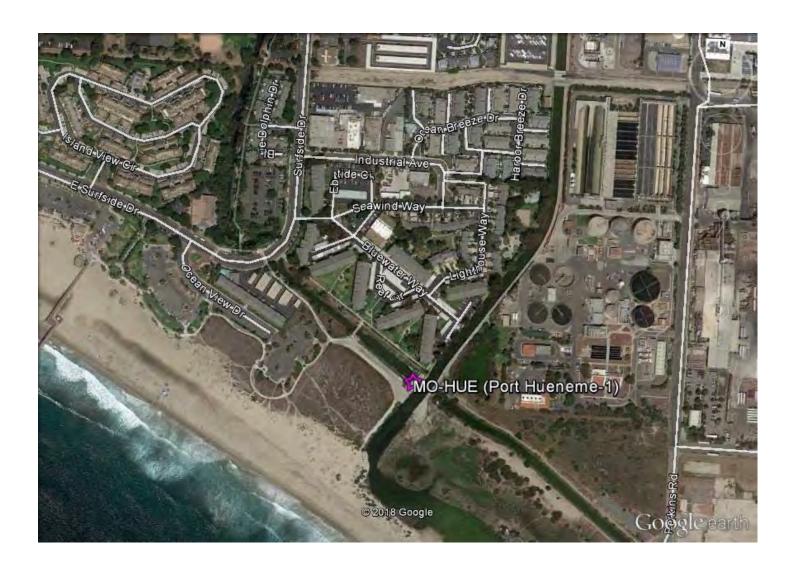
Port Hueneme

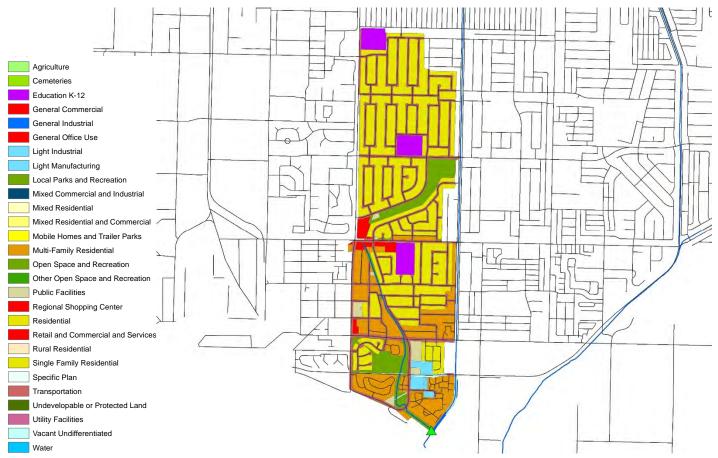
Station: MO-HUE (Port Hueneme-1) **Waterbody:** Hueneme Drain (tributary to Pacific Ocean)

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







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	0.01%
Totals	2884.1	100.0%

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

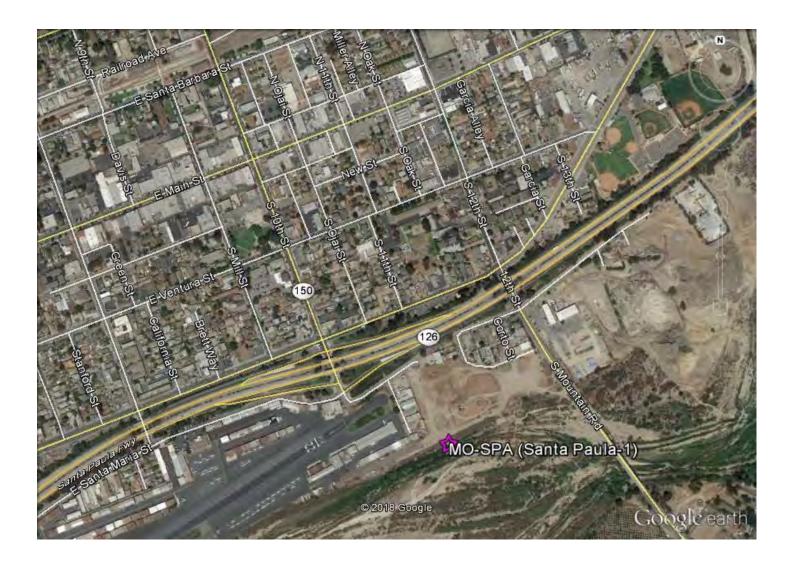
Station: MO-SPA (Santa Paula-1)
Waterbody: 11th Street Drain (tributary to Santa Clara River)
Location: Upstream Santa Paula Airport

(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.







Lintile 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%

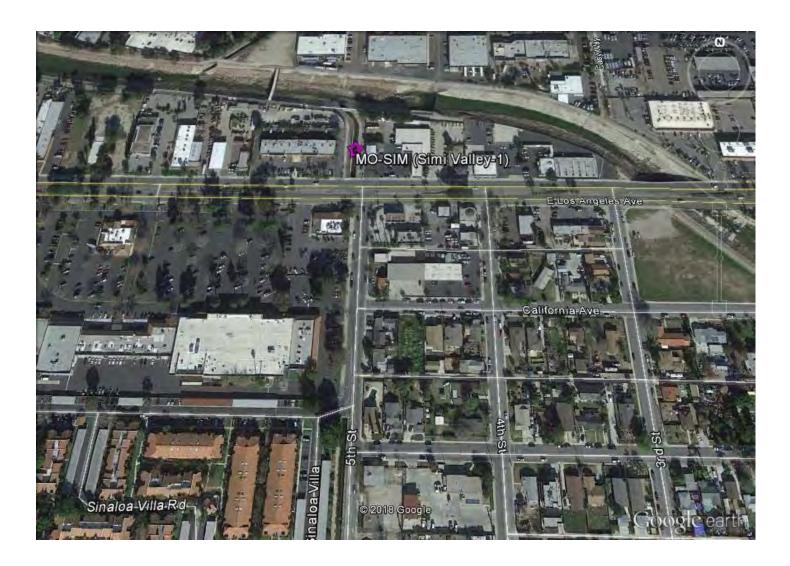
Simi Valley

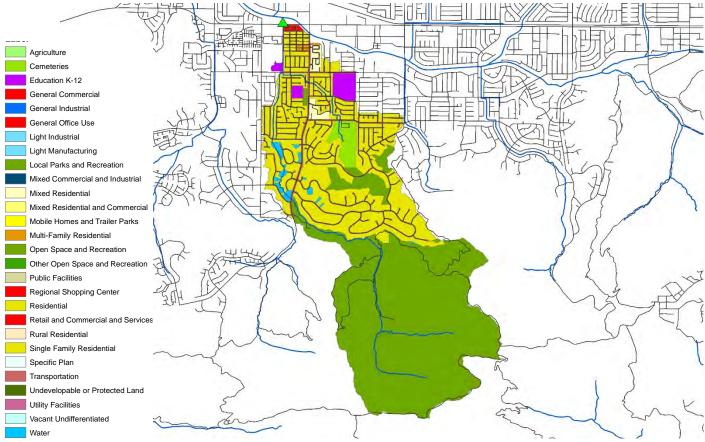
Station: MO-SIM (Simi Valley-1)

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







Land Use	Acres	% of Total 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%

Land Use	Acres	% of Total 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)

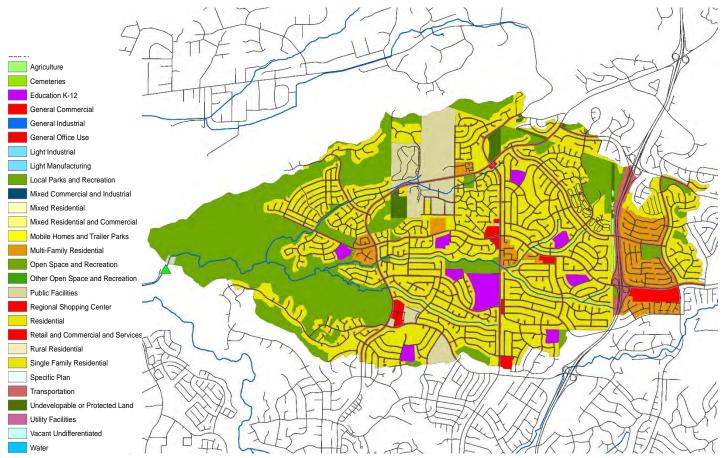
Location: Hill Canyon WWTP sampling location R-1 (34°12'48.03"N, 118°55'17.09"W)

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.







Land Use	Acres	% of Total Watershed
	61.1	
Agriculture		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	0.03%
Mixed Residential and		
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	055.0	1.070
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%	

<u>Ventura</u>

Station: MO-VEN (Ventura-1)

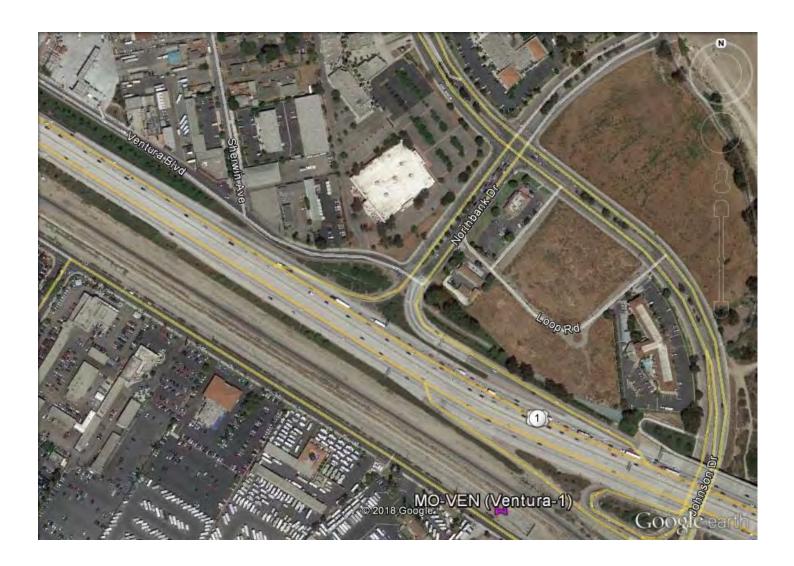
Waterbody: Moon Ditch (tributary to Santa Clara River)

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



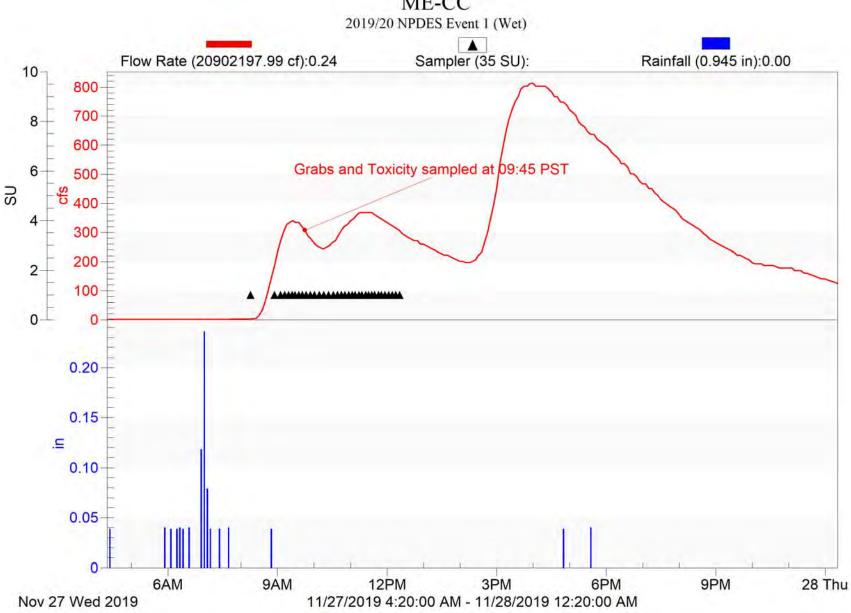




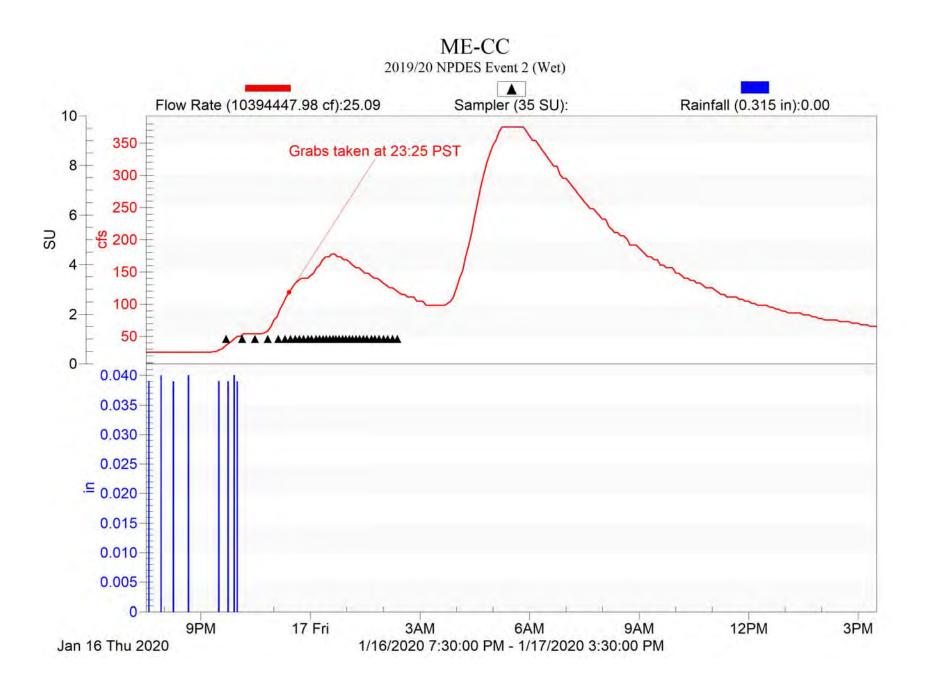
Land Use	Acres	% of Total Watershed
Agriculture	482.9	3.4%
Education K-12	6.8	0.05%
General Industrial	937.7	6.6%
Mixed Residential and Commercial	1447.0	10.2%
Multi-Family Residential	994.7	7.0%
Open Space and Recreation	1432.5	10.1%
Public Facilities/Schools	561.1	3.9%
Rural Residential	0.4	0.0%
Single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

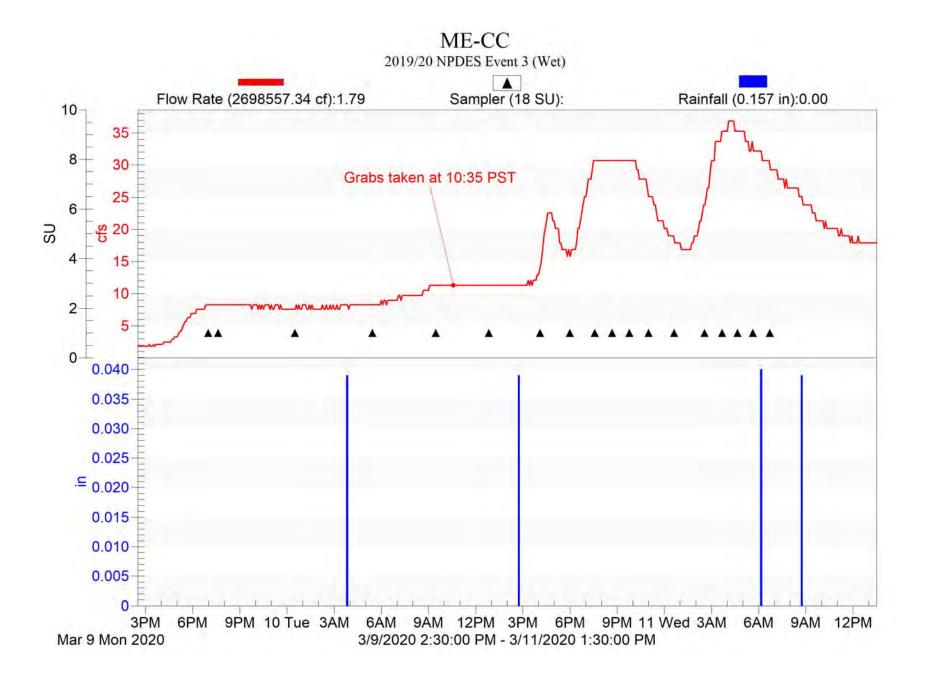
Land Use	Acres	% of Total Watershed
Agriculture	6.3	0.8%
Education K-12	6.8	0.9%
General Industrial	94.4	12.5%
Mixed Residential and Commercial	158.2	20.9%
Multi-Family Residential	161.0	21.3%
Open Space and Recreation	1.8	0.2%
Single Family Residential	123.7	16.4%
Transportation	203.1	26.9%
Totals	755.3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

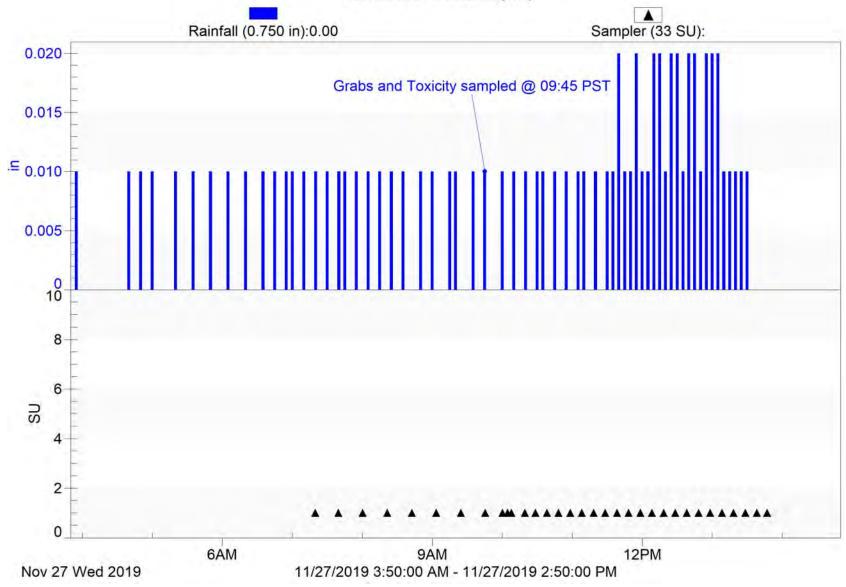
Appendix B. Event Hydrographs



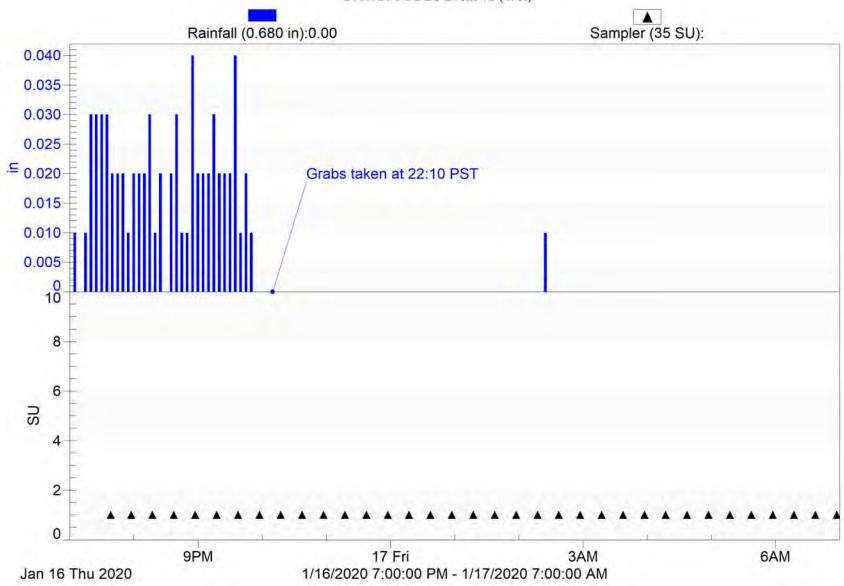
ME-CC



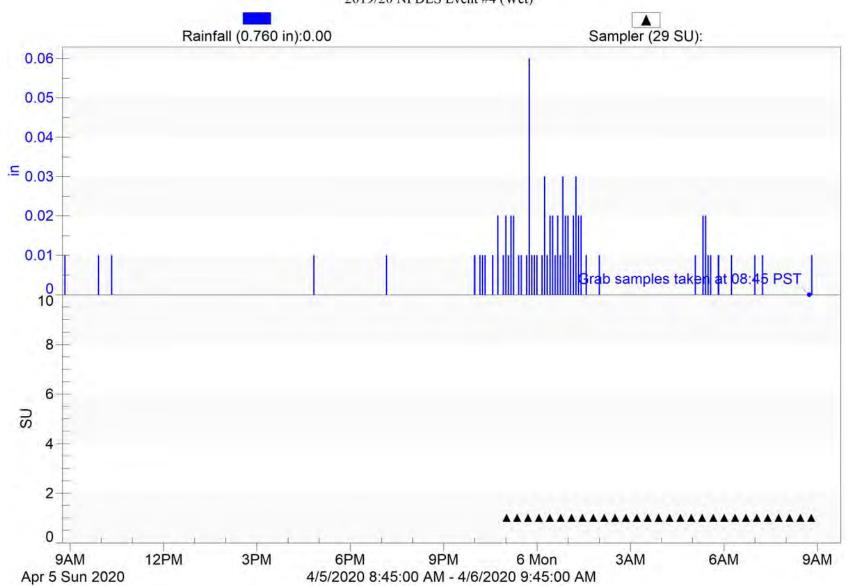




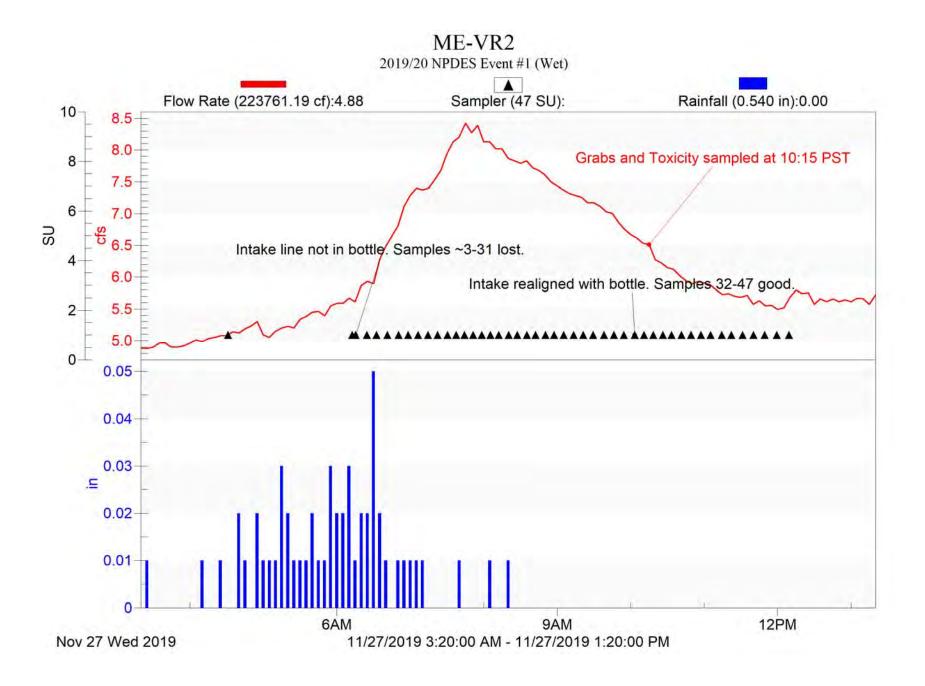
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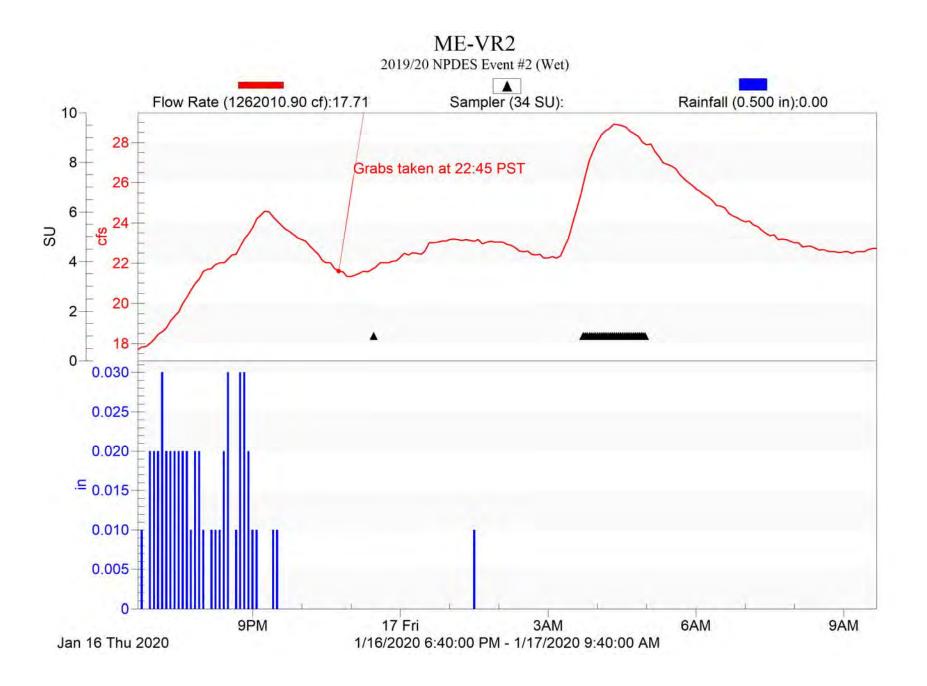


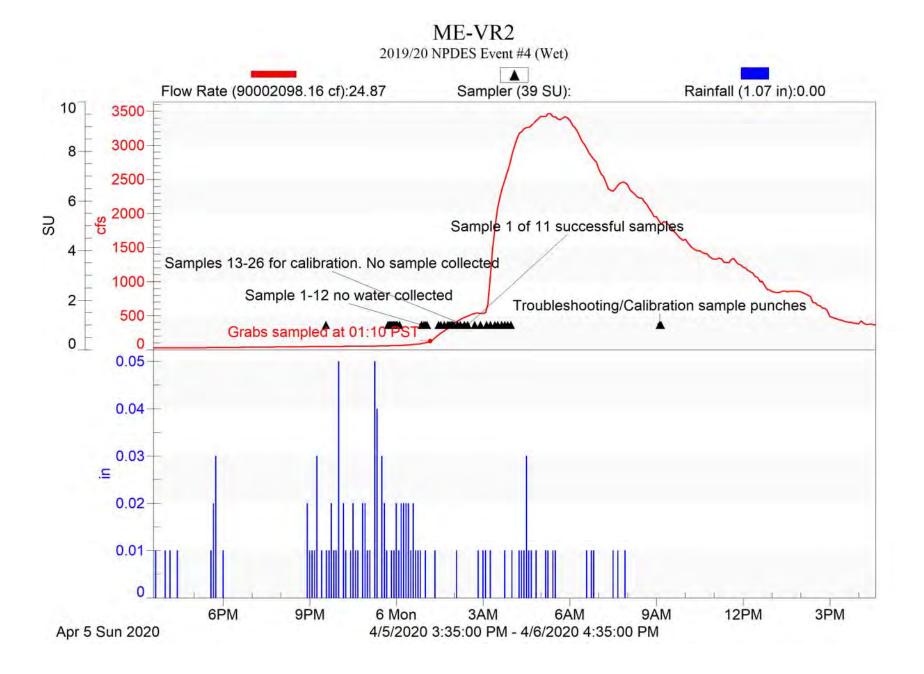
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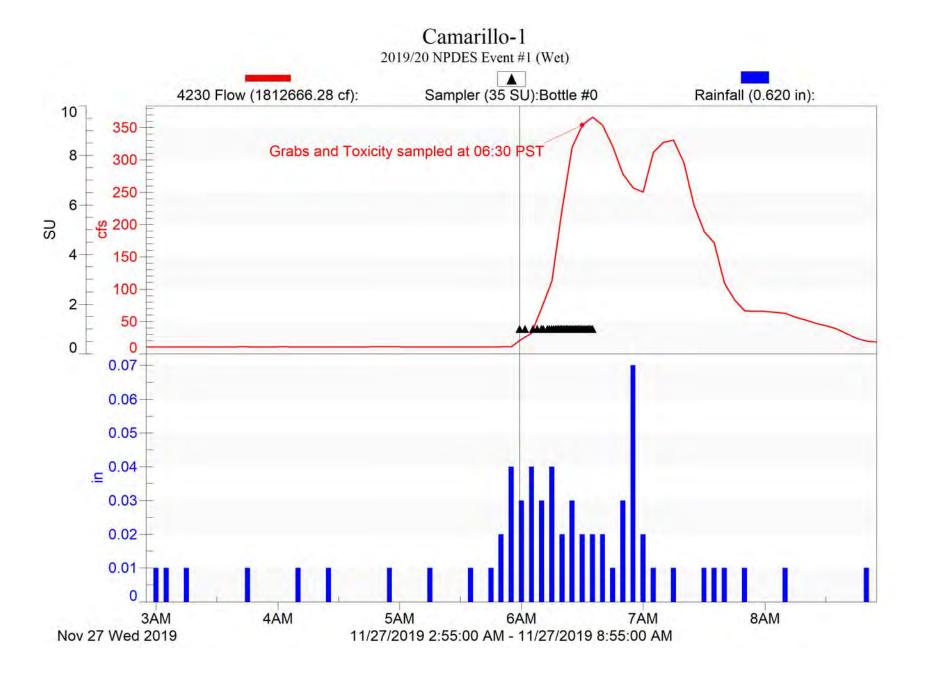


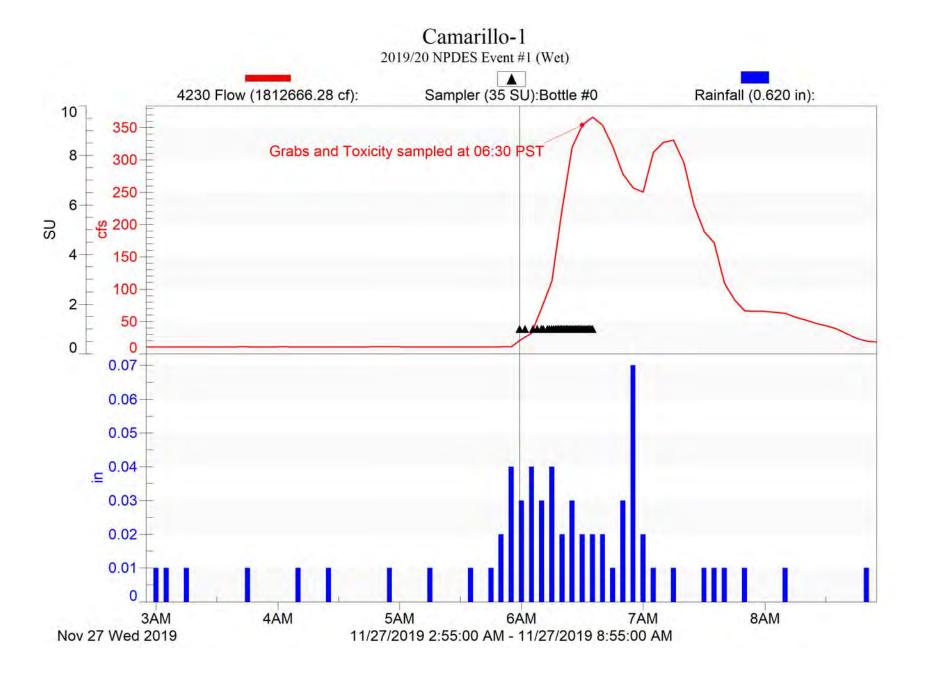
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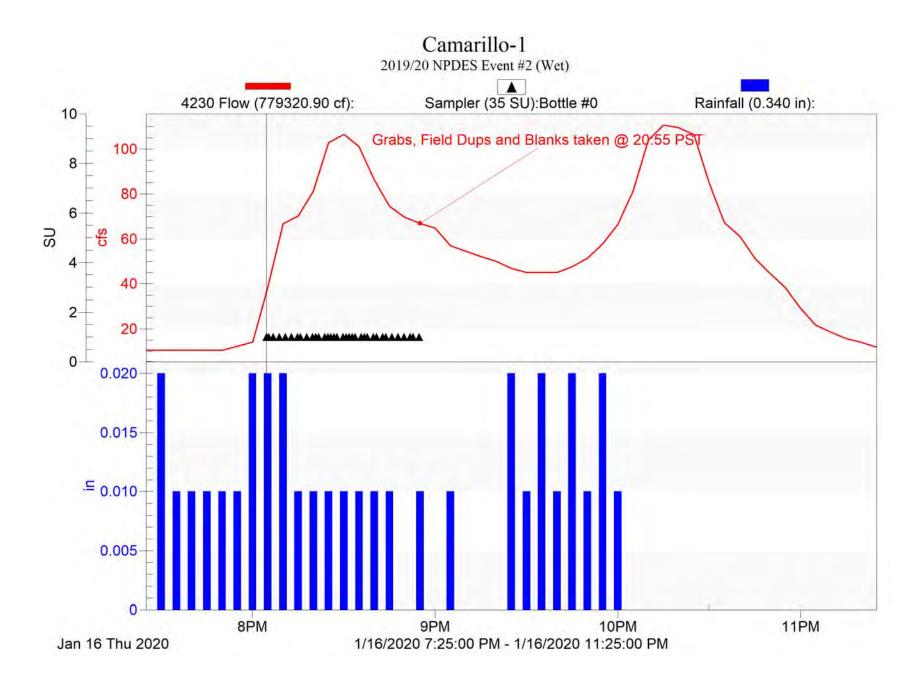


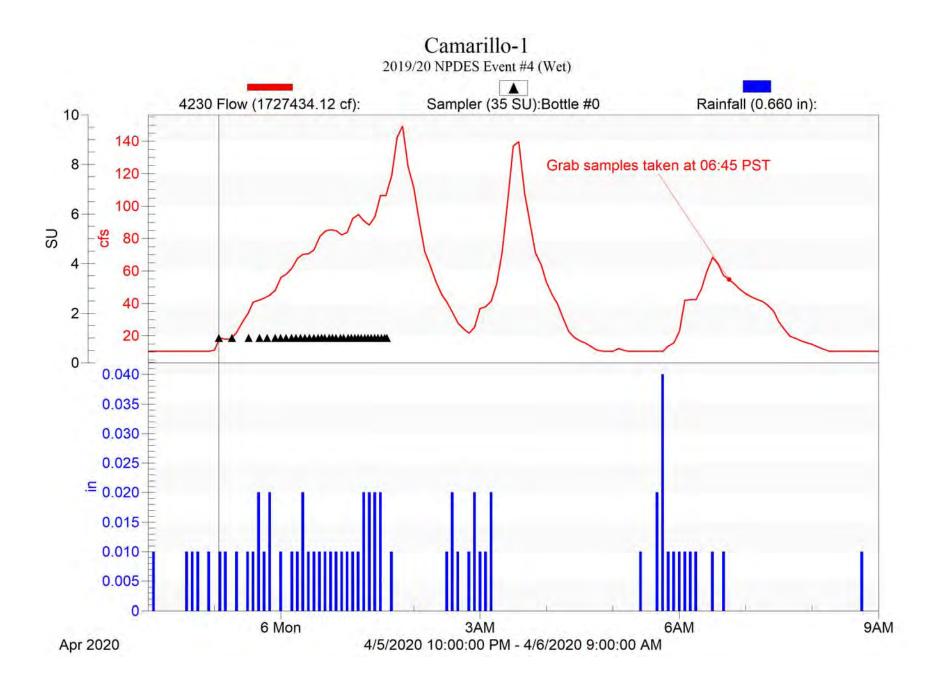


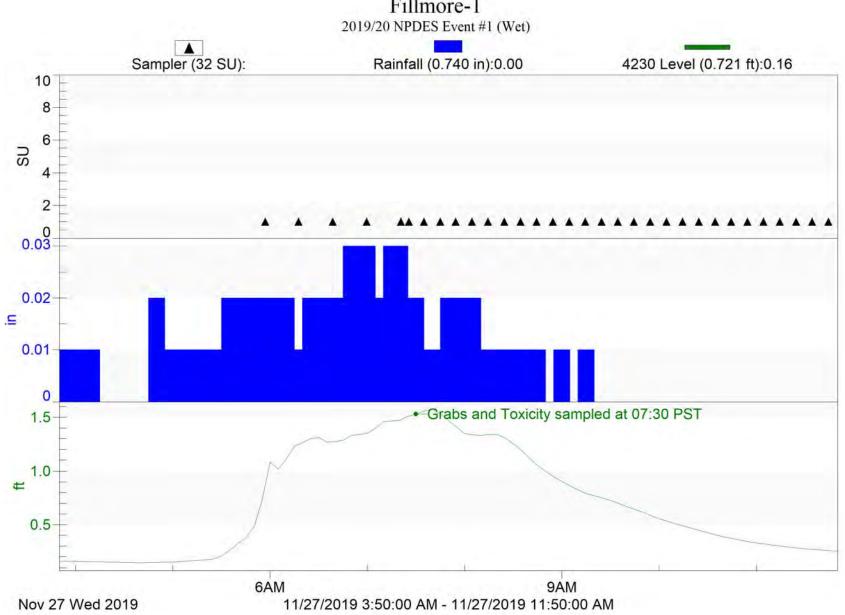


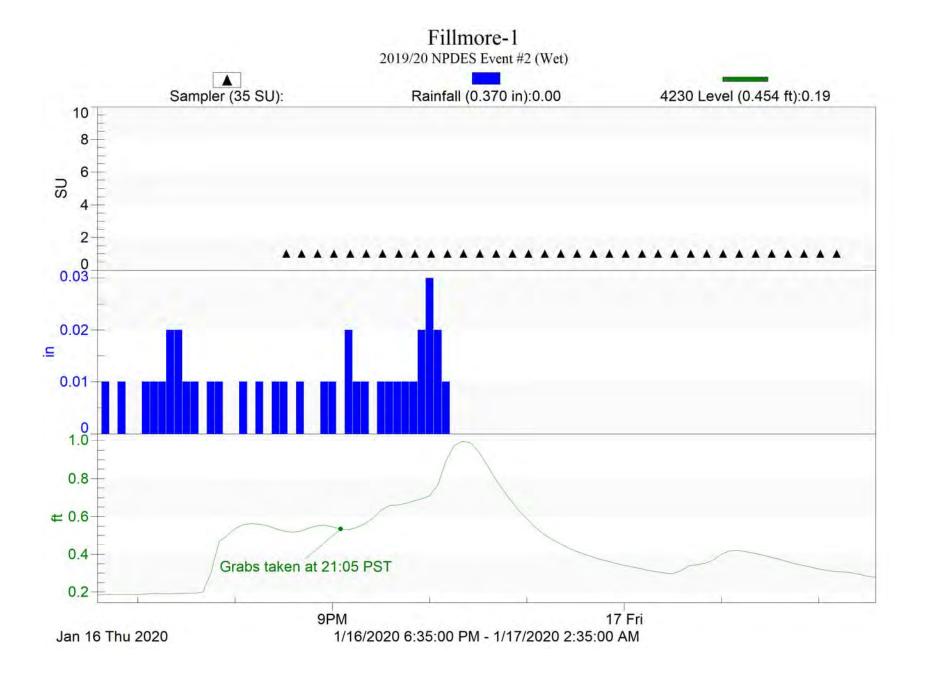


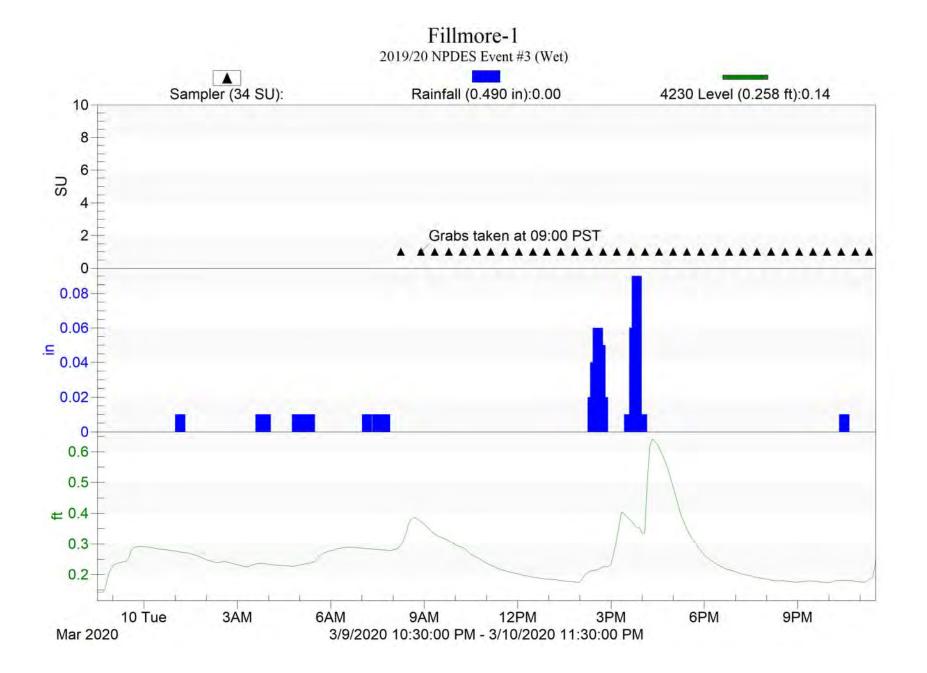




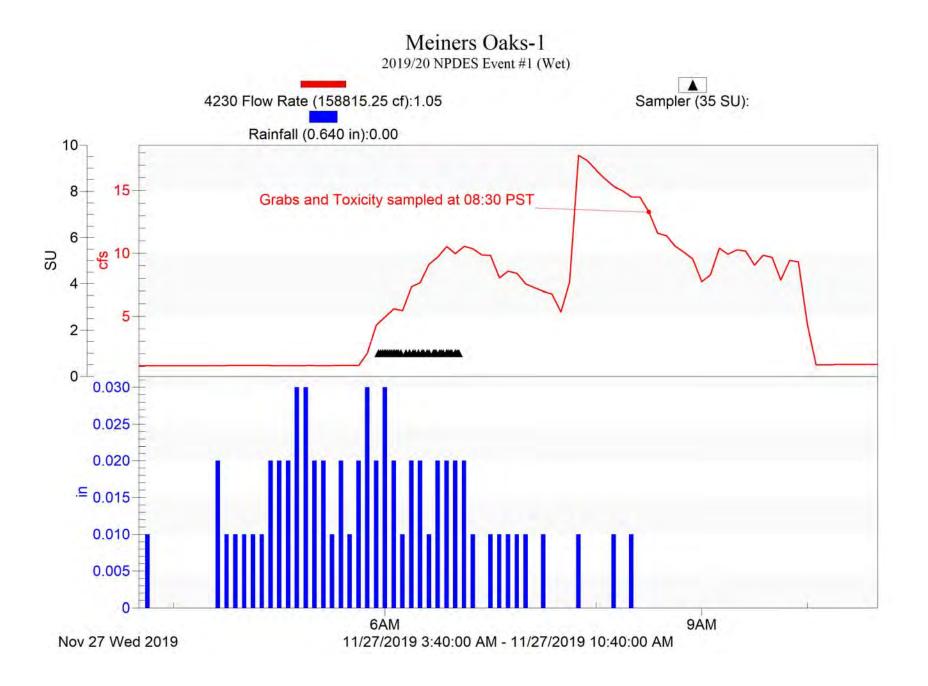


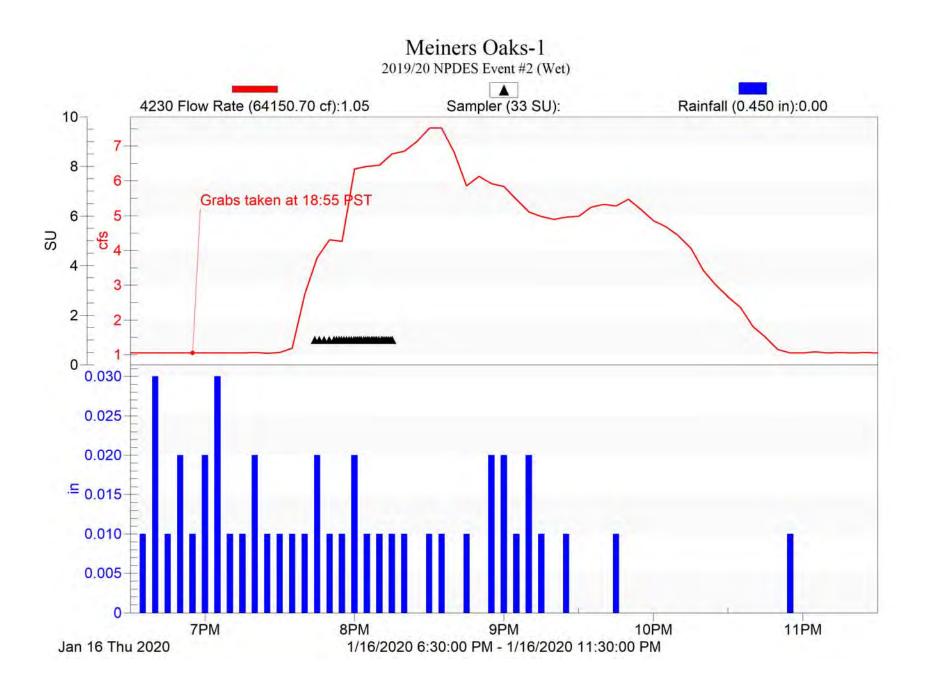


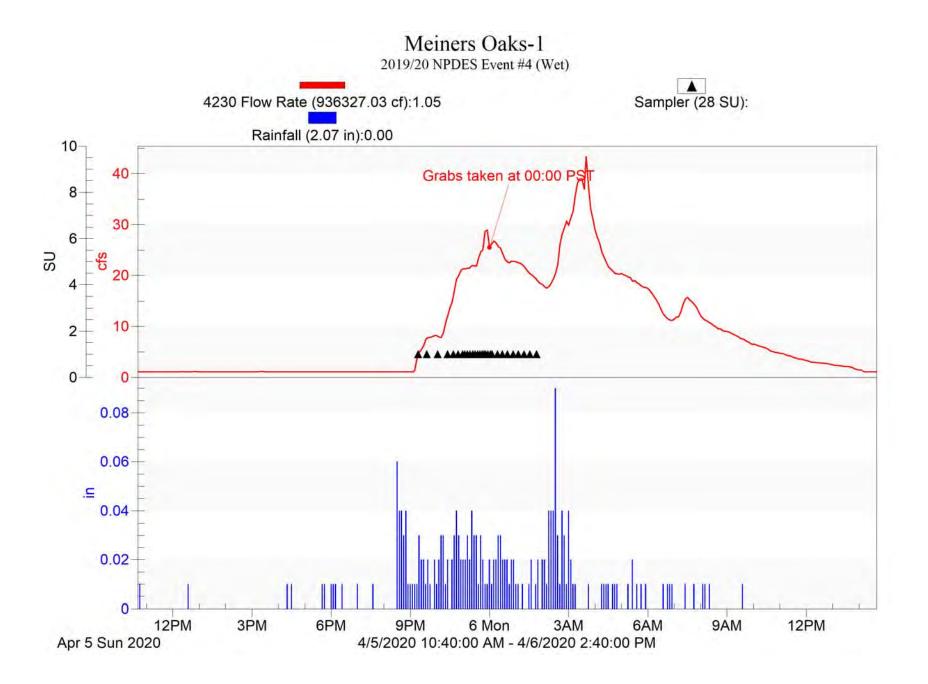


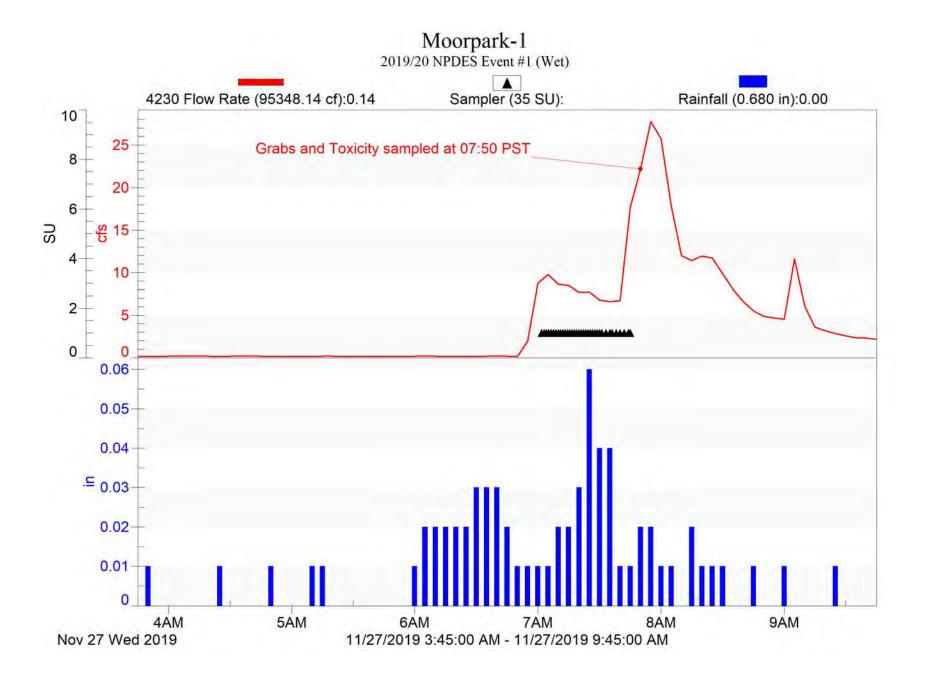


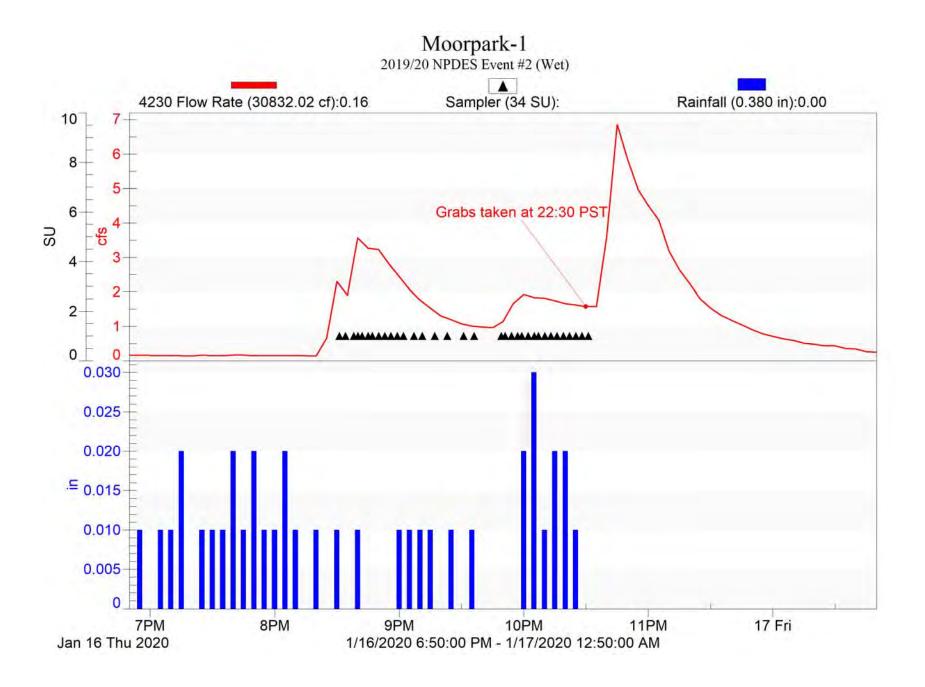
Ventura Countywide Stormwater Quality Management Program 2019/20 Annual Report

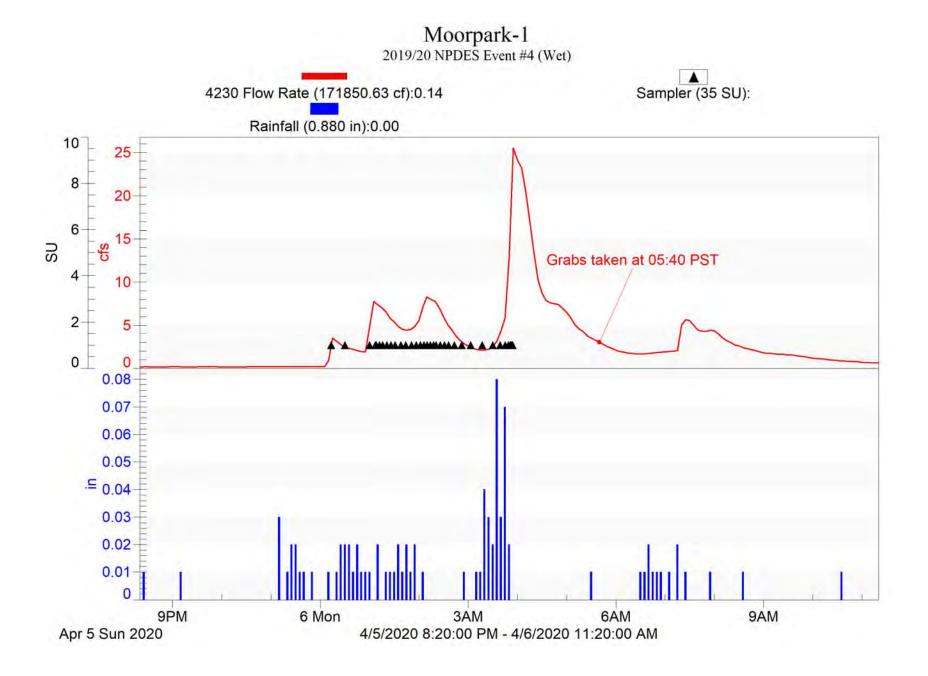


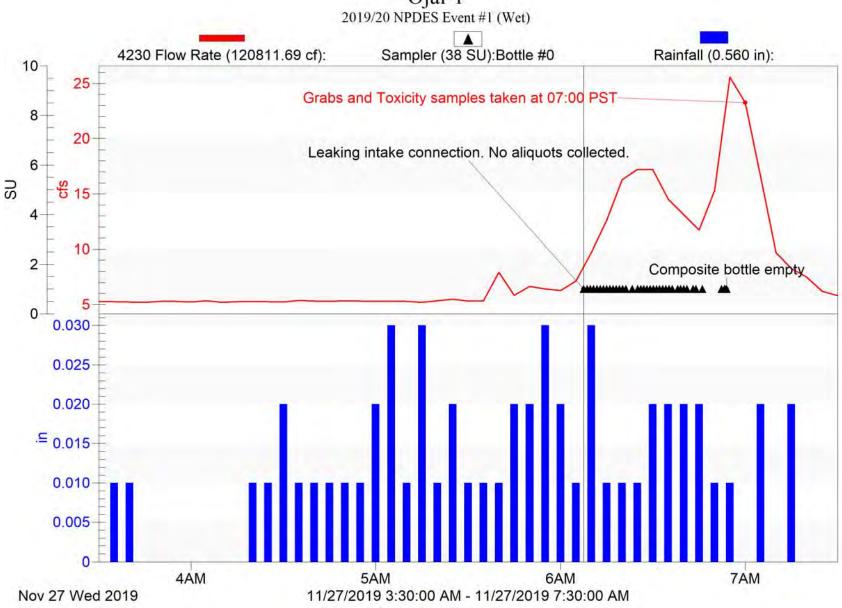


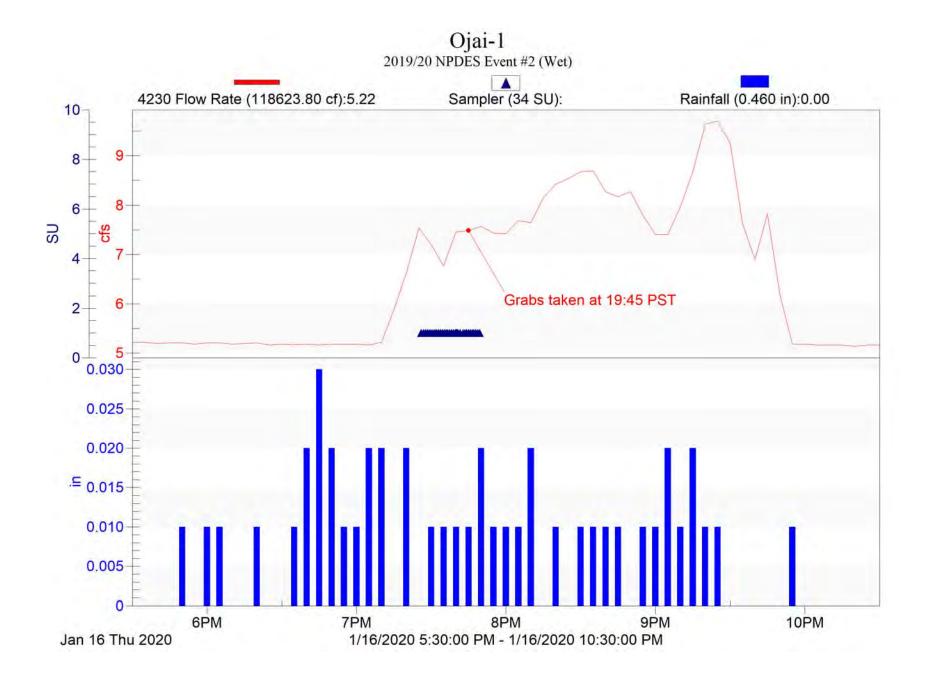


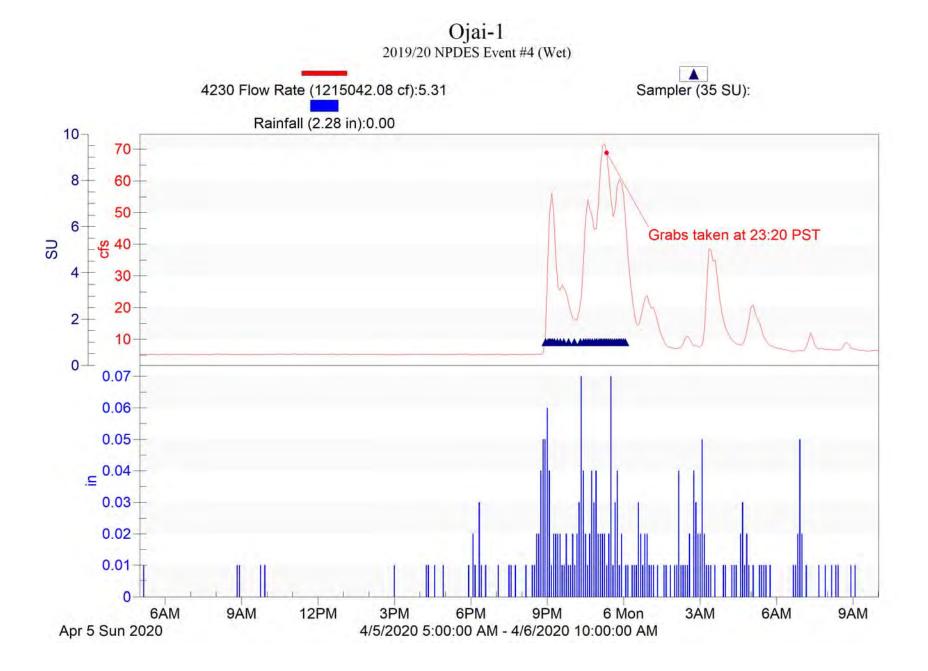


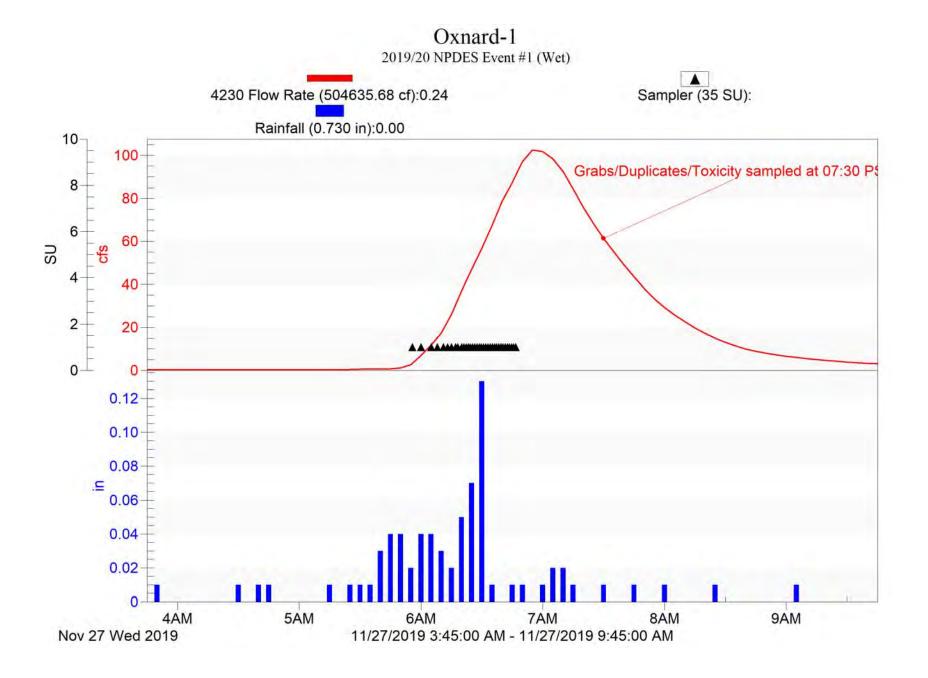


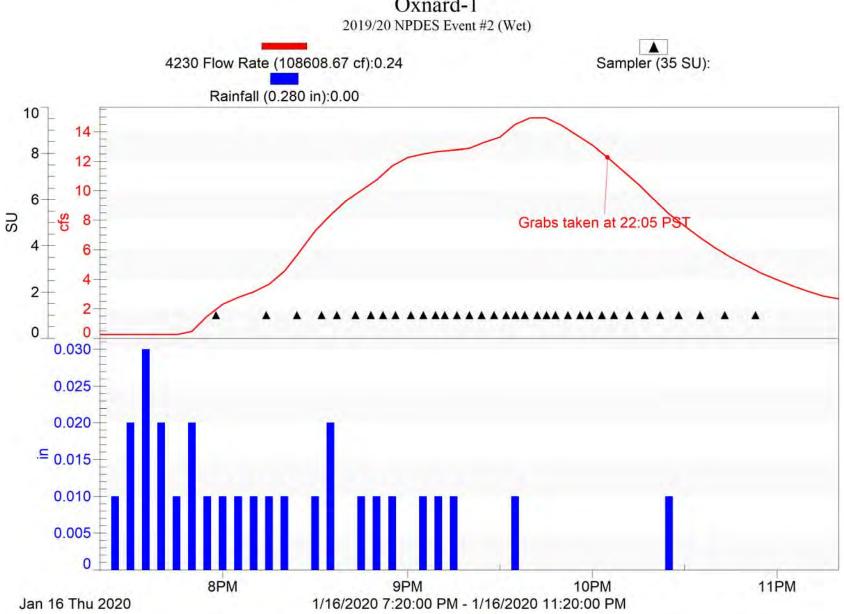




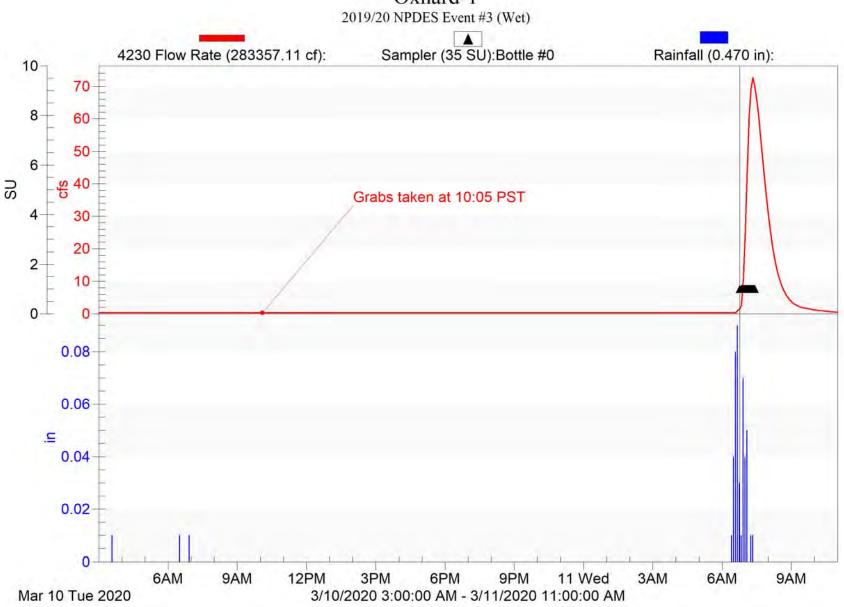




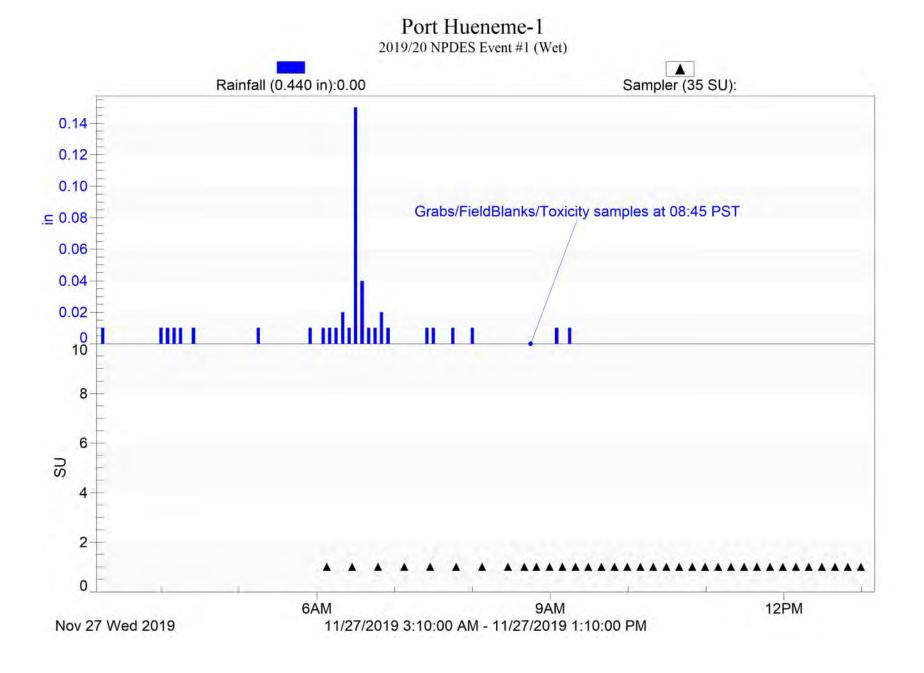


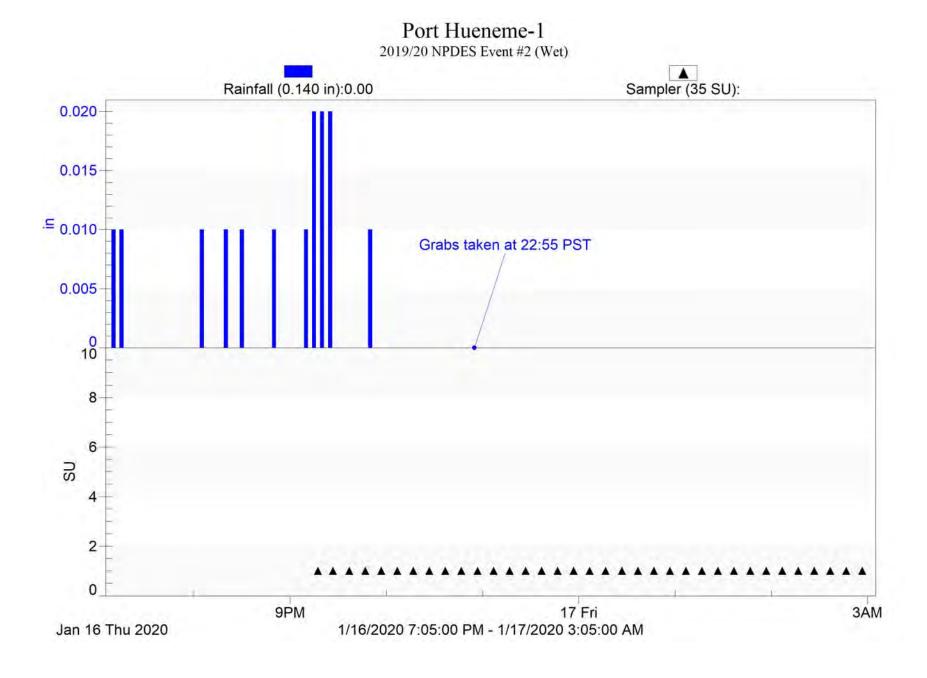


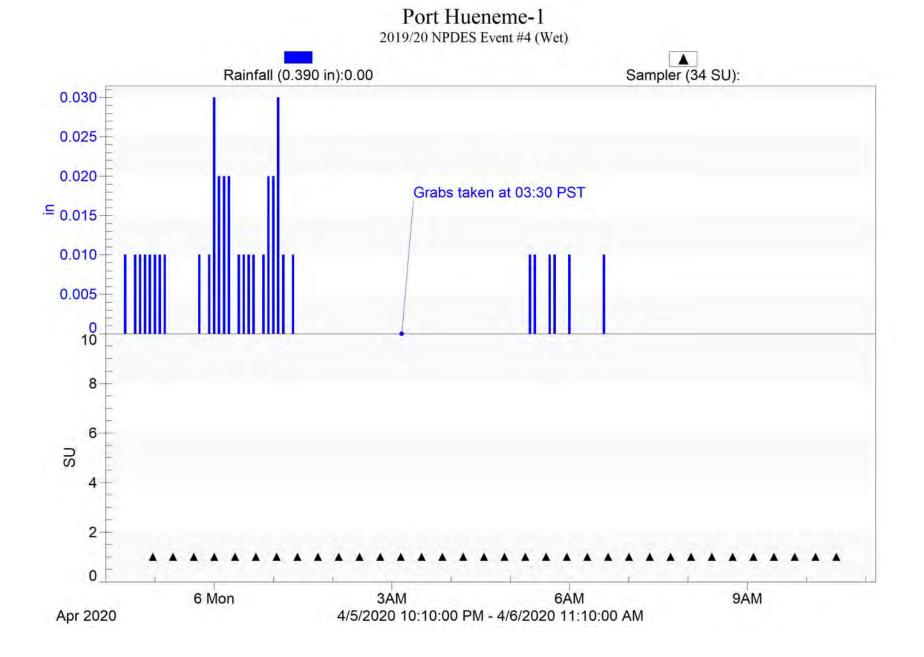
Oxnard-1



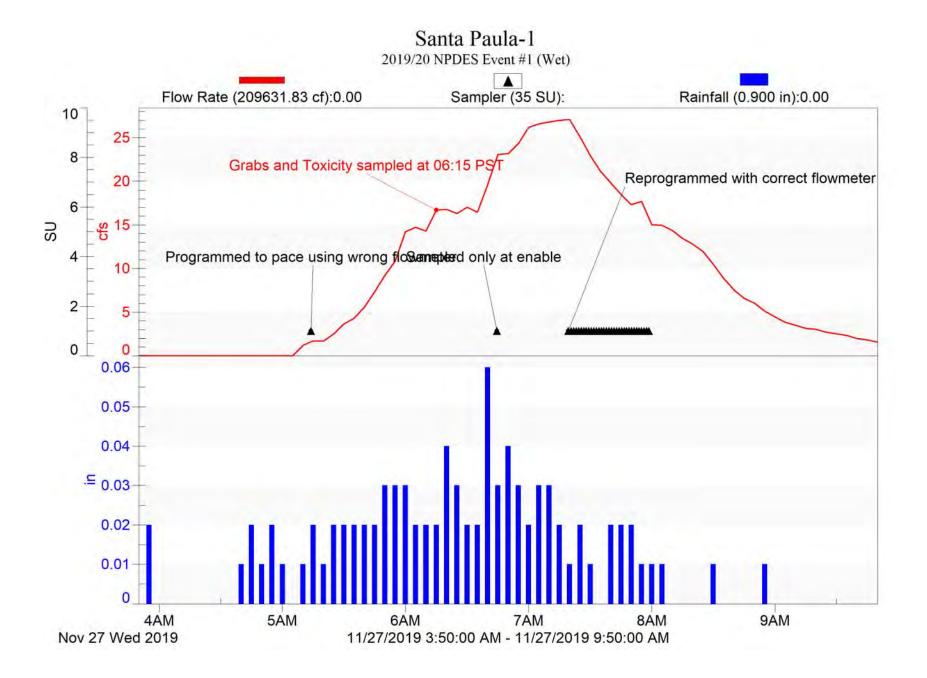
Oxnard-1

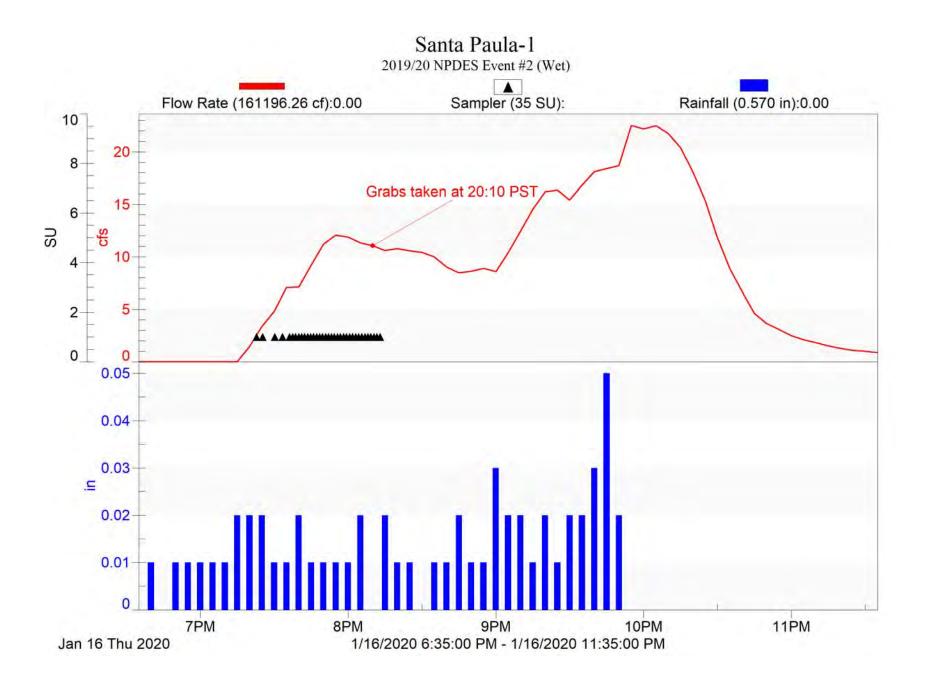


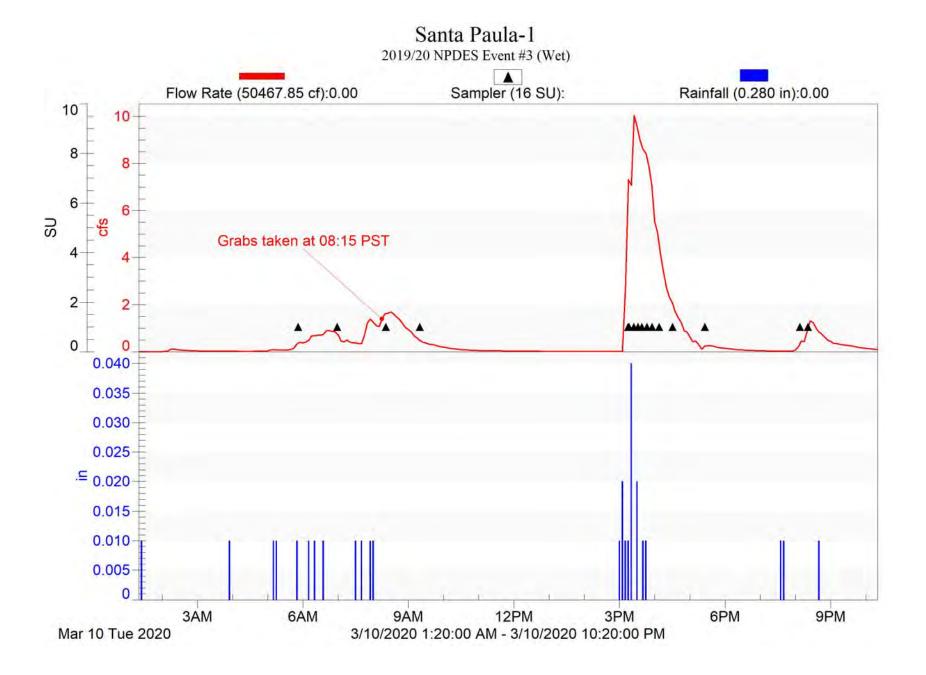


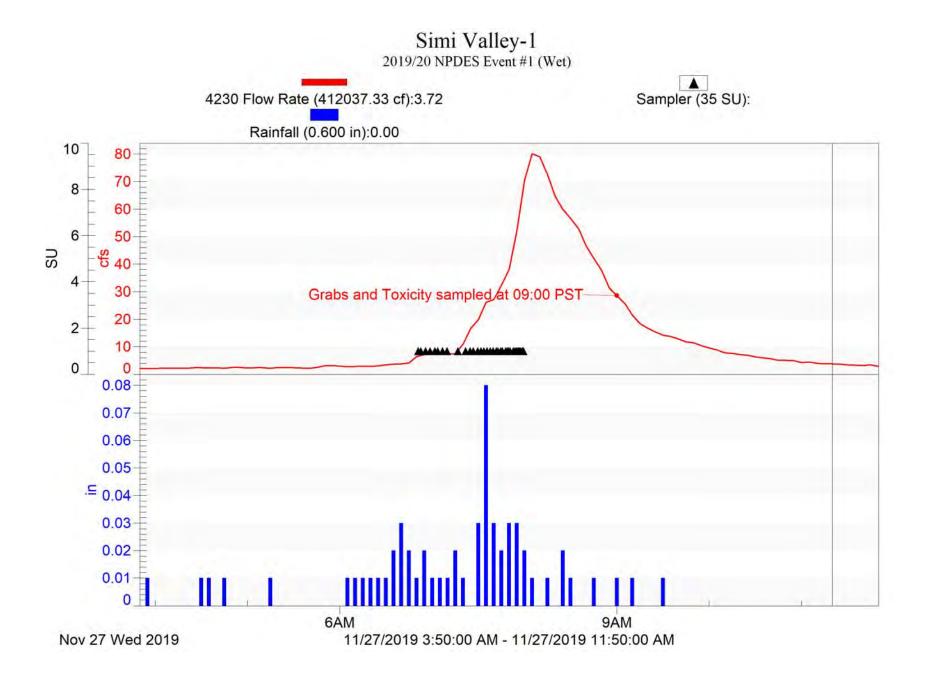


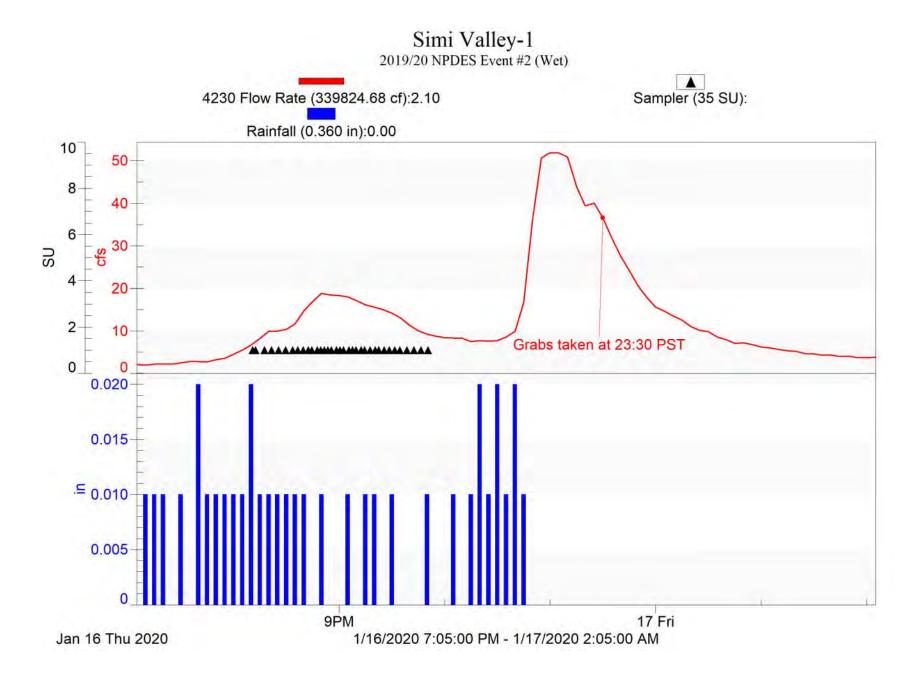
Ventura Countywide Stormwater Quality Management Program 2019/20 Annual Report

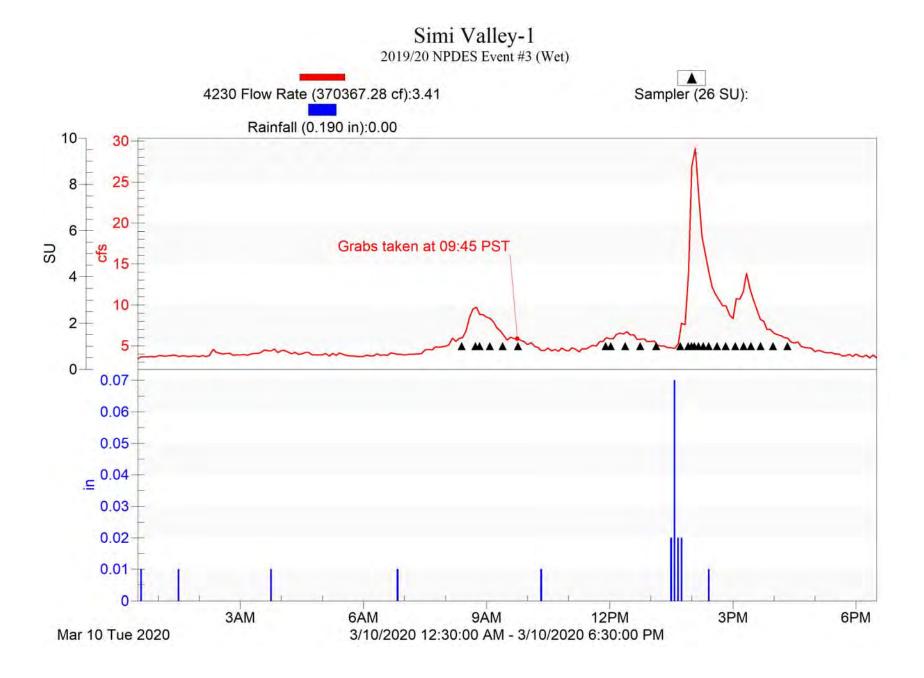


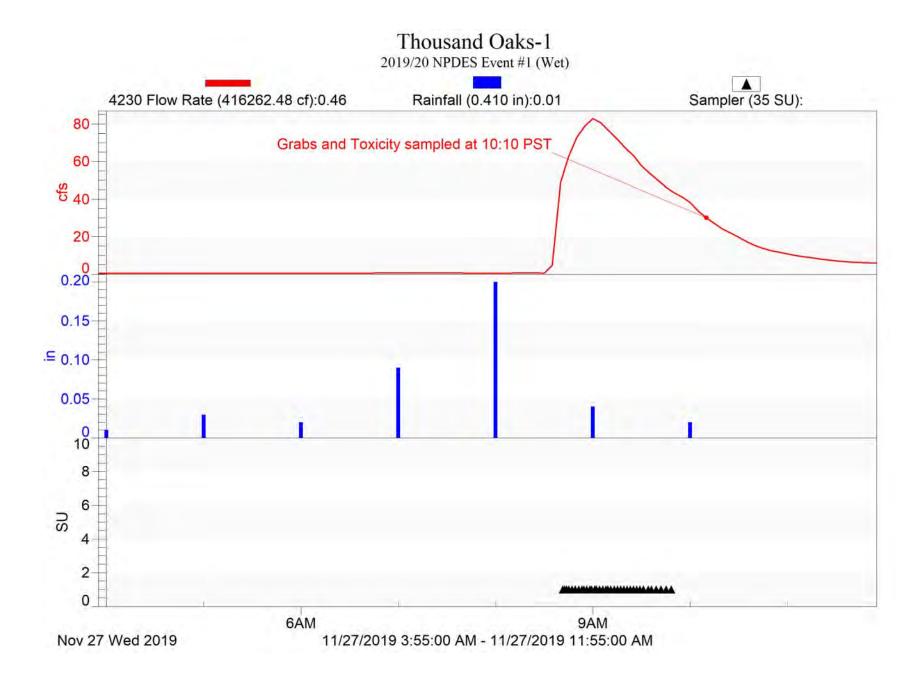


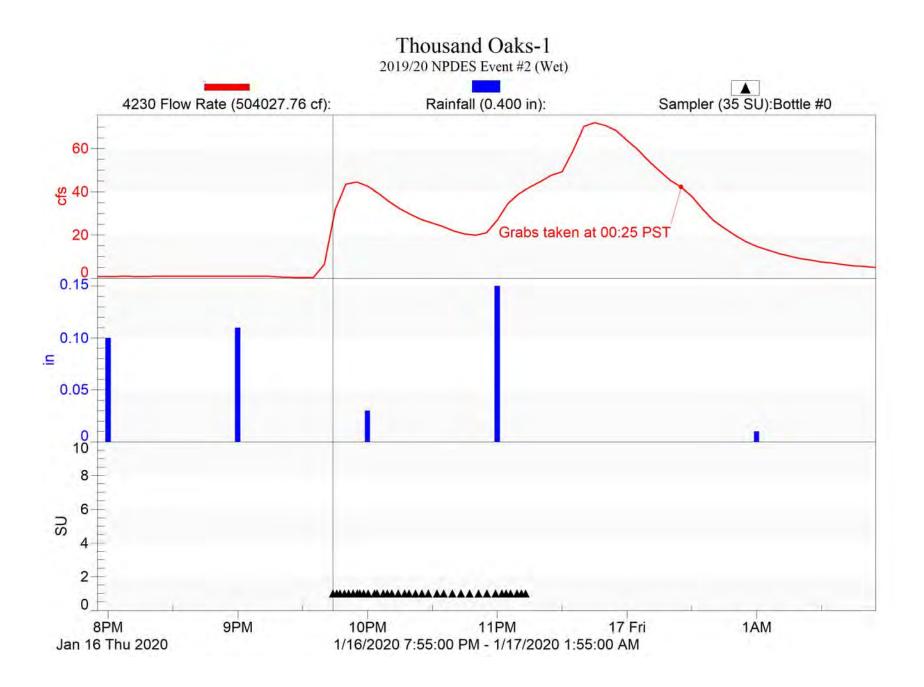


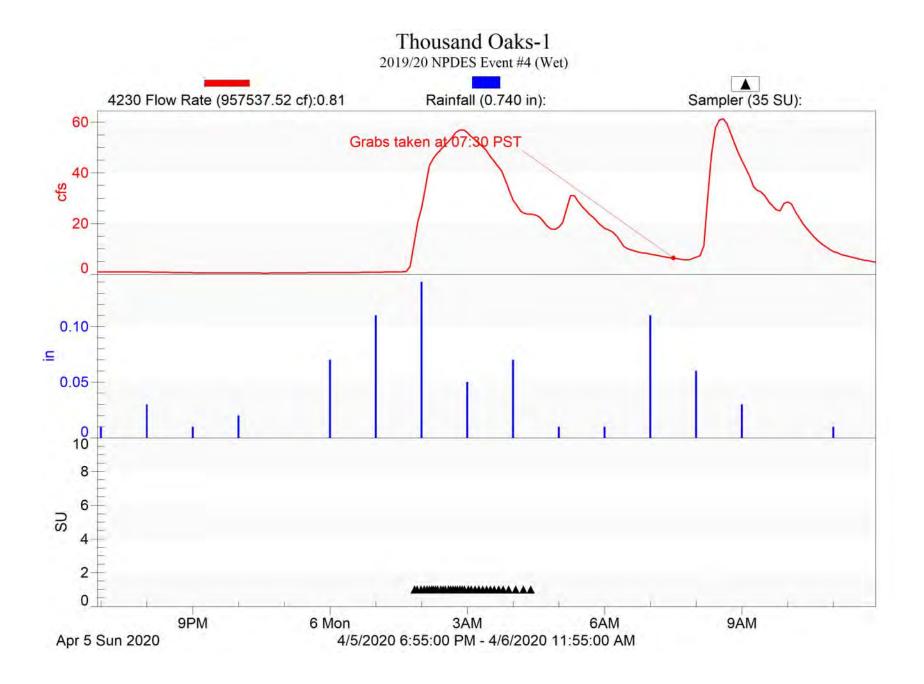


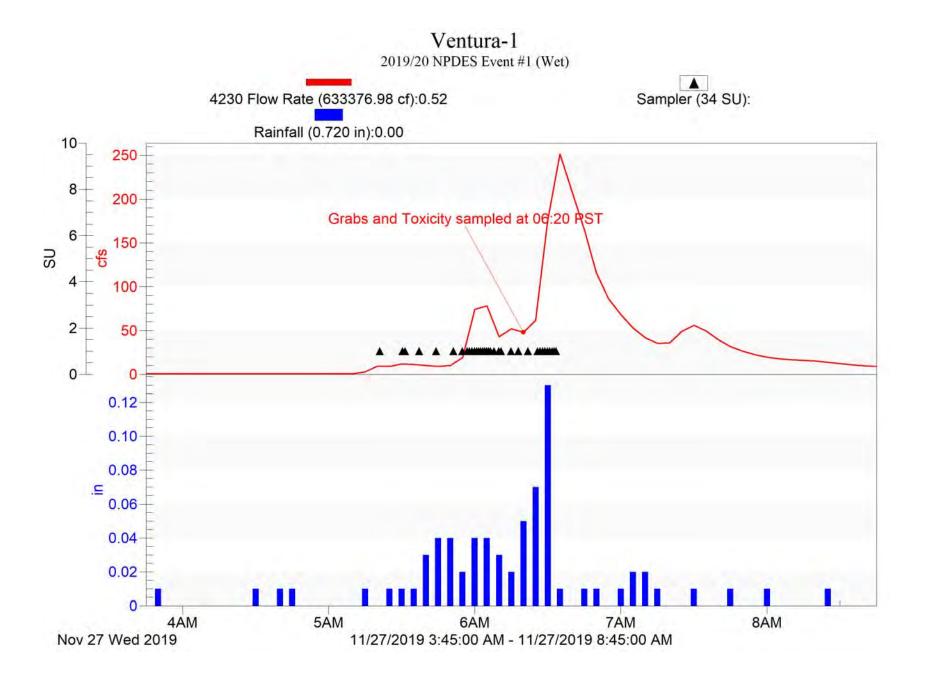


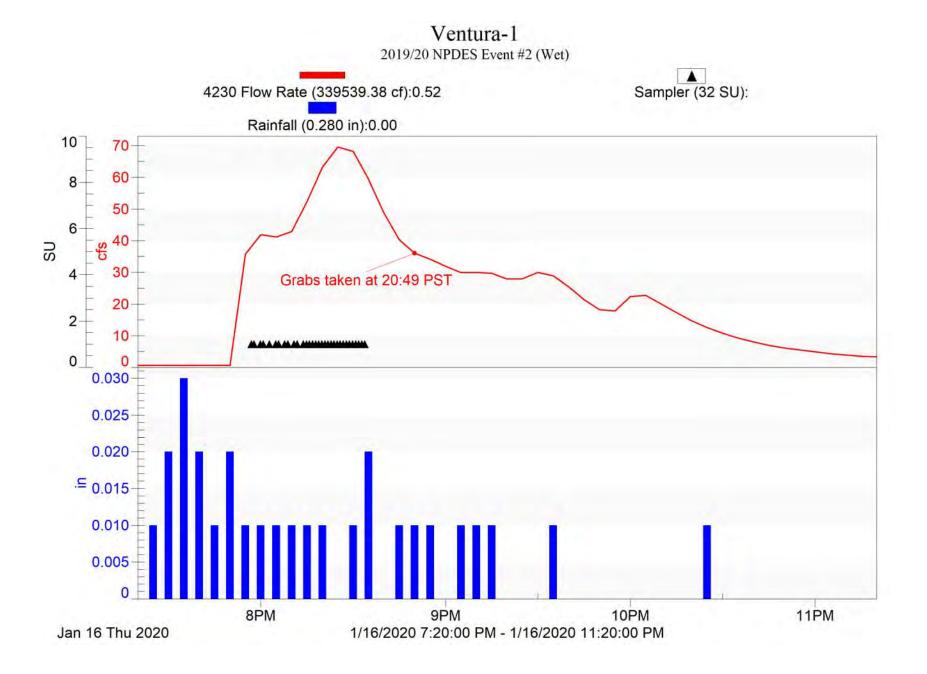


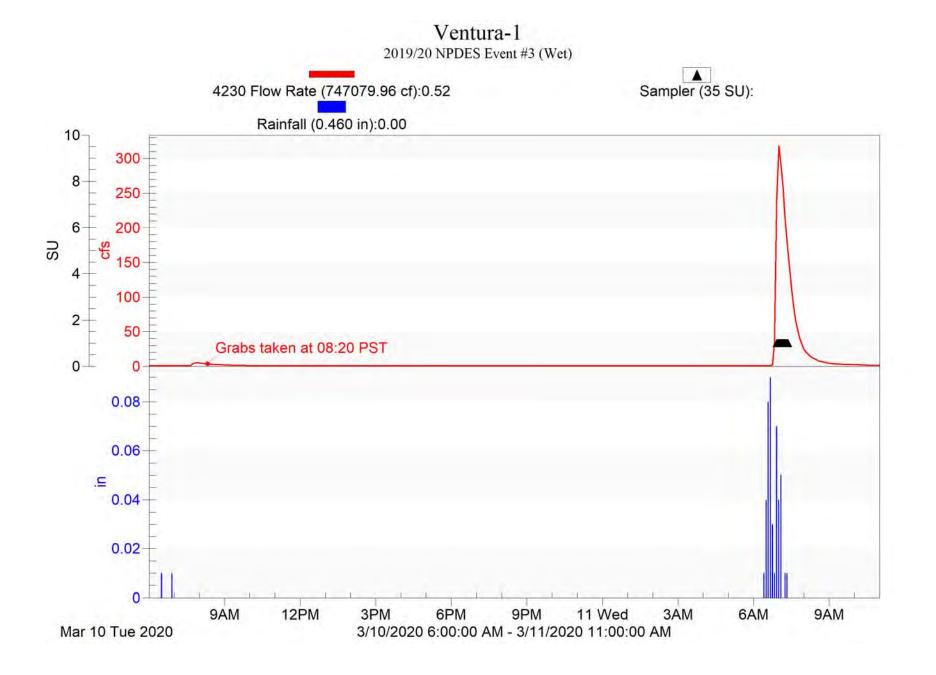












Appendix C. NRCS Curve Number Methodology Discussion



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 L	_and Uses In NPDES Database (Assessor's Land	l Uses)
KVM_CAT1	SHORT_	Name
Agriculture	Abandoned Orchards and Vineyards	Orchard
Agriculture	Horse Ranches	open
Agriculture	Nurseries	Orchard
Agriculture	Orchards and Vineyards	Orchard
Agriculture	Vacant With Limited Improvements	open
Com_Indus. Mix	Mixed Commercial and Industrial	Comm
Commer.	Commercial Recreation	Comm
Commer.	Commercial Storage	Comm
Commer.	Low- to Medium-Rise Major Office Use	comm
Commer.	Modern Strip Development	comm
	Retail Centers (Non-Strip with Contiguous Interconnected	
Commer.	Off-Street Parking)	comm
Extraction	WHOLESALING AND WAREHOUSING	indhigh
Facilitiy	Fire Stations**	indlow
Facilitiy	Government Offices	indlow
Facilitiy	Major Medical Health Care Facilities	comm
Facilitiy	Other Public Facilities	indlow
Facilitiy	Other Special Use Facilities	indlow
Facilitiy	Police and Sheriff Stations**	indlow
Facilitiy	Religious Facilities	indlow
Facilitiy	Special Care Facilities	indlow
Industrial 1	Open Storage	indlow
Industrial_1	Packing Houses and Grain Elevators	indlow
Industrial 3	Manufacturing, Assembly, and Industrial Services	indhigh
No Info Given		open
Recreation	Other Open Space and Recreation	open
Res.1	Low Density Single Family Residential	reslow
Res.1	Trailer Parks and Mobile Home Courts, High Density	reshigh
Res.2	Low-Rise Apartments, Condominiums, and Townhouses	reshigh
Res.2	Rural Residential Low Density	resrural
Res.3	High Density Single Family Residential	reshigh
	Duplexes, Triplexes, and 2- or 3-Unit Condominiums and	Ĭ
Res.4	Townhouses	reshigh
Res.4	Medium-Rise Apartments and Condominiums	reshigh
Res.4	Mixed Urban	comm
Schools	Elementary Schools**	indlow
Schools	Junior High Schools**	indlow
Schools	Senior High Schools**	indlow
Transportation	Freeways and Major Roads	paved
Transportation	Mixed Transportation	paved
Transportation	Truck Terminals	paved
Under Constructi	Under Construction	indlow
Utilities	Electrical Power Facilities	indlow
Vacant Undiffere	Vacant Undifferentiated (rural)	brushfair
Vacant Undiffere	Vacant Undifferentiated (city)	open
vaburit oriumore		

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

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.

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%

Table 2: Storm Yield Results- Weighted Average Curve Numbers

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

		J					
	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.

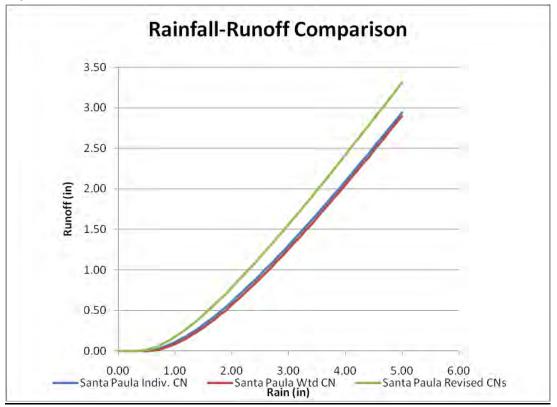


Figure 1

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

Description
Contains GIS files used in evaluation
Contains 2010 GIS files used in updated evaluation
Geodatabase with land uses clipped to watershed boundaries
provided by WQ section
shapefiles showing boundaries of monitoring watersheds
soils shapefiles clipped to watershed boundaries
Union of soils and land use data shapefile for watersheds
VCWPD soils shapefile showing numbers for hydrology calcs
9-09 CN data
8-10 updated analysis for 11 sites total
8-10 analysis using revised CNs
ArcMap project file for analysis

Ventura Watershed

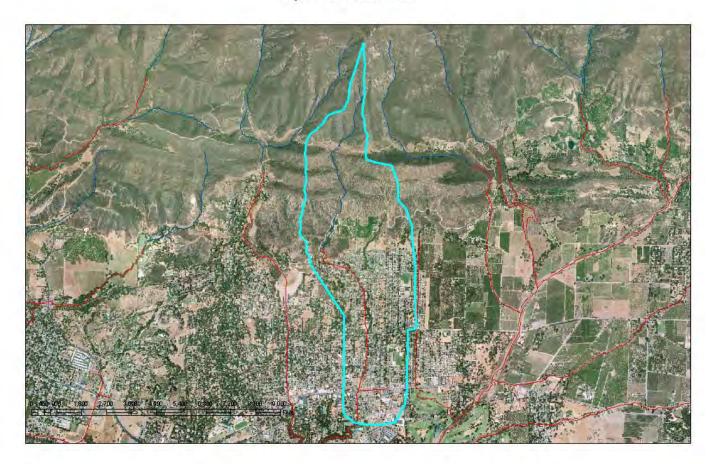


Meiners Oaks Happy Valley Watershed



0.3825.625 1.050 1.575 2.100 2.625 3.150 3.675 4.200 4.725 5.250

Ojai Fox Watershed

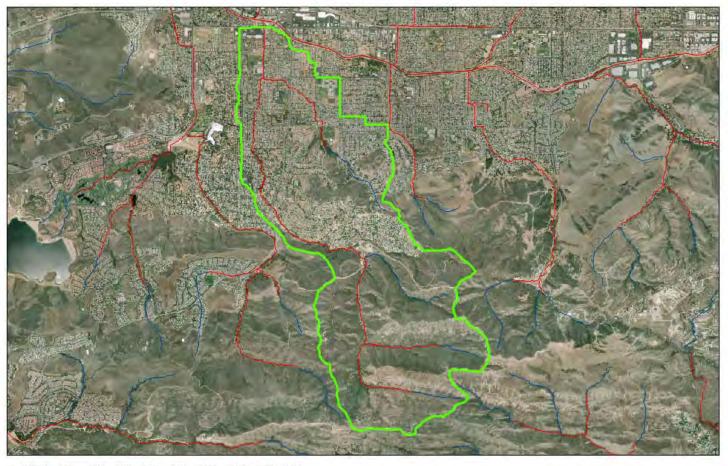


Camarillo Hills Drain Watershed



0 465 910 1,820 2,730 3,840 4,550 5,460 6,370 7,280 8,190 9,100

Simi Valley Watershed

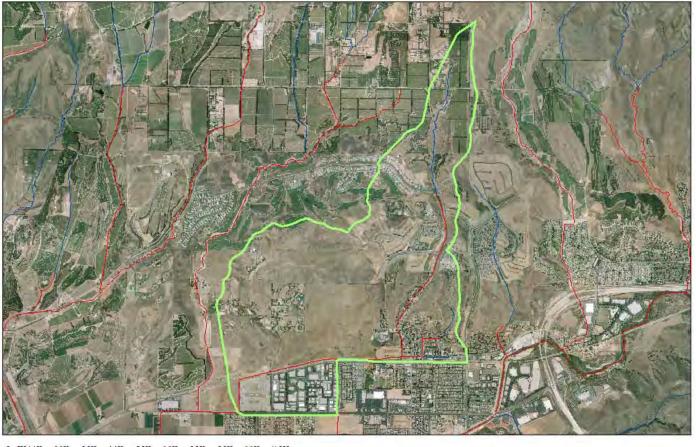


0 7501,500 3,000 4,500 6,000 7,500 9,000 10,500 12,000 13,500 15,000

Oxnard Watershed

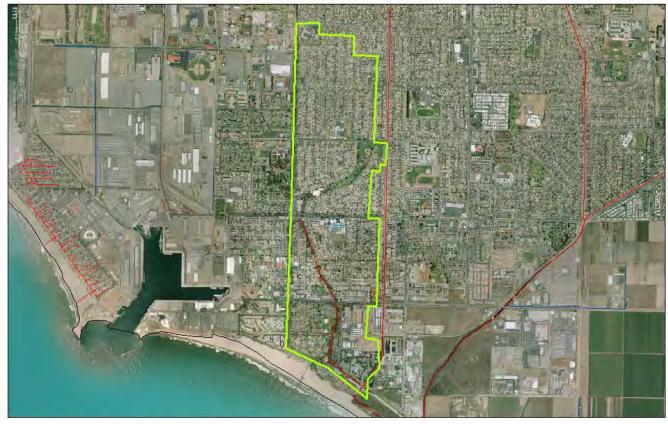


Moorpark Watershed



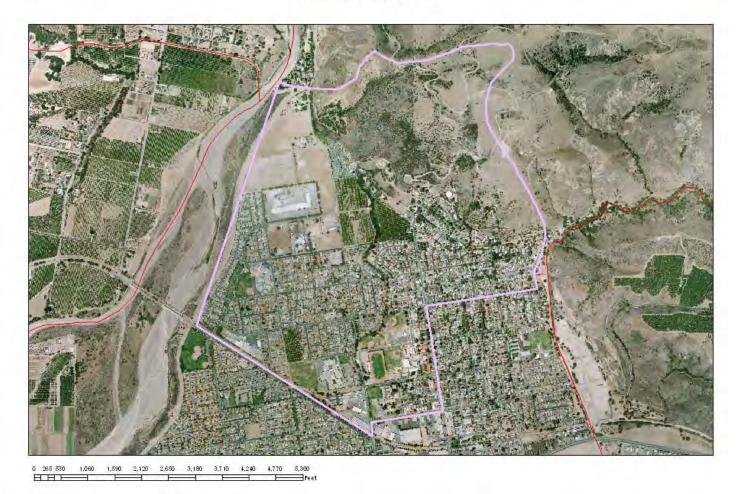
0 5501,100 2,200 3,300 4,400 5,500 6,600 7,700 8,800 9,900 11,000

Port Hueneme Watershed



0 387.5175 1.550 2.325 3.100 3.875 4.650 5.425 6.200 6.975 7.750

Fillmore Watershed



Thousand Oaks Watershed



Santa Paula Watershed



0 195 390 780 1,170 1,560 1,950 2,340 2,730 3,120 3,510 3,900

Appendix D. Event Summaries

														• • • • • •	<u>Comp</u>				
					۸ <i>س</i> ندم ا	рст/	Flowmeter	Flourenator	Outside	Fridaa T		Dumm		Comp bottle	Duration	Comp	Crah	Tovisity	
Site	Event	Visit	Staff	Date	<u>Arrival</u> Time		<u>Level</u> (feet)	<u>Flowmeter</u> Flow (cfs)	<u>Outside</u> Staff (ft)	<u>Fridge T</u> <u>°C</u>	Flush (L)	<u>Pump</u> Count	Program/6712 Display	<u>status/</u> Estimated Vol (L)	<u>(nearest</u> half hrs)		<u>Grab</u> Time	<u>Toxicity</u> Time	 Notes
<u></u>			<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	Turned	<u>- 10011 (-7</u>	<u></u>	Flow: 1 pulse/500mlx35, program		<u></u>	<u></u>	<u></u>	<u></u>	
ME-CC	1	1	LM	11/26/2019	15:39	PST	1.009	NA	NR	on	4L Distilled	46,177	disabled	bottle, lid off.					Desiccant bluish purple
ME-CC	1	2	DL,MC	11/27/2019	09:30	PST	2.341	NA	2.4	1			Sample 9 after 1 pulse	7L			09:45	09:45	
ME-CC	1	3	DL	11/27/2019	14:49	PST	2.405	NA	NR	2	2L Distilled	438,654	Program done	Full		14:50			Turned 6712 and fridge off
				/= = /= =									Time: 20 min/500mlx35, program						
ME-SCR	1	1	WBC	11/26/2019	10:45	PST	NR	NA	NA	3	4L Distilled		disabled	bottle					Recalibrated and restarted program for 10
																			min pacing, 24 samples due to shortened
																			storm forecast and incorrect calibration
ME-SCR	1	2	WBC,DW	11/27/2019	09:45	PST	NR	NA	NA	NR			8 samples taken	8L			09:45	09:45	
ME-SCR	1	3	WBC,DW	11/27/2019	13:50	PST	NR	NA	NA	4			Sample 22 after 1 pulse	20L		13:50			Turned off 6712
																			Secured swing arm to railing, turned 6712
ME-SCR	1	4	WBC	11/29/2019	12:50	PST	NR	NA	NA		2L Distilled	NR	NA	NA					off
ME-VR2	1	1	LM	11/20/2010	12.20	DCT	4.884	NA		-3	41 Distilled	21 000	Flow: 1 pulse/500mlx35, program disabled	Installed labeled bottle, lid off.					Desiccant purple/blue. Cleared vegetation/debris around intake/orifice.
IVIE-VKZ	T	T	LIVI	11/29/2019	15:50	P31	4.004	NA		-5	4L Distilled	21,900	Sample 32 after 1 pulse. Tubing	bottle, lid off.					vegetation/debits around intake/ornice.
													came loose and was outside the						
													bottle. Secured tubing and						
ME-VR2	1	2	LM,NN	11/27/2019	10:00	PST	4.982	NA					reprogrammed at 10:00 PST	1L			10:15	10:15	
													Program disabled (water level						
ME-VR2	1	3	KH,DL	11/27/2019	13:07	PST	4.912	NA		1	2L Distilled	465,542	below enable threshold).	8L		13:10			No noticeable high water mark
	1	1	1.5.4	11/20/2010	10.10	DCT	0.025	-10	<too< td=""><td>Turned</td><td></td><td>20 602</td><td>Flow: 1 pulse/500mlx35, program disabled</td><td></td><td></td><td></td><td></td><td></td><td>4230 desiccant pink</td></too<>	Turned		20 602	Flow: 1 pulse/500mlx35, program disabled						4230 desiccant pink
MO-CAM MO-CAM		2	LM PD,DF	11/26/2019 11/27/2019			0.035 0.806	<10 1.256	<toe 281</toe 	on 0	4L Distilled 2L Distilled	30,692 116,493	Program done	bottle 19L		06:30	06:30	06:30	Turned 6712 and fridge off
	-	2	10,01	11/2//2013	00.15	131	0.000	1.250		Turned	21 Distincu	110,400	Time: 21 min/500mlx35, program			00.00	00.50	00.50	Desiccant purple. Cleared strainer and
MO-FIL	1	1	WBC	11/26/2019	12:06	PST	0.129	NA		on	2L Distilled	62,667	disabled	bottle, lid off.					tightened bracket plate nuts.
													Sample 2 in 00:07. Changed						
MO-FIL	1	2	-	11/27/2019			1.516	NA		4			pacing to 10 min.				07:30	07:30	
MO-FIL	1	3	WBC,DW	11/27/2019	12:50	PST	0.197	NA			2L Distilled	207,000	T: 00 : /500 ! 05	12L		12:50			Turned off fridge
MO-HUE	1	1	1.5.4	11/26/2019	NR	PST	NA	NA		2	4L Distilled	34,419	Time: 20 min/500mlx35, program disabled	Installed labeled bottle, lid off.					
NO-HUE	T	T	LM	11/20/2019		P31	NA	NA		2	4L Distilleu	54,419	Sample 9 in 00:15.	bottle, lid off.					
													Reprogrammed for 10 min/27						
MO-HUE	1	2	DL,MC	11/27/2019	08:28	PST	NA	NA		2			samples.	4L			08:45	08:45	Field blanks also at 08:45 PST
MO-HUE	1	3	KH,DL	11/27/2019	13:50	PST	NA	NA		4	2L Distilled	192,375	Program done	20L		13:50			
										Turned			Flow: 1 pulse/500mlx35, program						
MO-MEI	1	1	LM	11/26/2019	12:40	PST	0.081	1	Dry	on	4L Distilled	15,925	disabled	bottle, lid off.					Desiccant pinkish purple
	1	r		11/27/2010	NR	рст	0.279	1.4	0.2	NR		110 100	Program done, errors have occurred	Overflowed		00.50	00.20	08.20	Turned 6712 and fridge off
MO-MEI	T	2	LM,NN	11/27/2019	INK	PST	0.279	14	0.2	INK		119,109	0-23, 26-35 samples "no more	Overnowed		08:50	08:30	08:30	Turned 6712 and mage on
MO-MEI	1	3	WBC	12/2/2019	10:30	PST							liquid". 24-25 samples ok.						
																			Desiccant purple. Cleared bubbler orifice tip
										Turned			Flow: 1 pulse/500mlx35, program	Installed labeled					and purged line. Repaired intake line from
MO-MPK		1	WBC	11/26/2019			0.072	<0.2	<toe< td=""><td>on</td><td>2L Distilled</td><td>48,817</td><td>disabled</td><td>bottle, lid off.</td><td></td><td></td><td></td><td></td><td>O&M scrape.</td></toe<>	on	2L Distilled	48,817	disabled	bottle, lid off.					O&M scrape.
MO-MPK	1	2	PD,DF	11/27/2019	07:30	PST	0.46	16.9	0.5	5	2L Distilled	185,113	Program done	17.5L		08:00	07:50	07:50	Turned 6712 and fridge off
MO-OJA	1	1	LM	11/26/2019	11.26	DCT	0.103	5		Л	4L Distilled	28,501	Flow: 1 pulse/500mlx35, program disabled	bottle, lid off.					Desiccant pink
ALO-OIA	Т	T		11/20/2019	11.20	r J I	0.105	C		4		20,301	นเวสมายน						Leak at wing wall connection sucked air and
													Errors have occurred. Leak at						no sample. Could not be repaired in time
MO-OJA	1	2	LM,NN	11/27/2019	06:42	PST	0.204	13	0.1	2			wing wall connection.	Empty		Error	07:00	07:00	for event
														_					Repaired intake line separation. Line was
MO-OJA	1	3	WBC	12/2/2019	NR	PST					2L Distilled			Recapped bottle					clogged and has been cleared.
	1	1		11/26/2010	15.25	пст	0.11	0.2	~+~~	Turned		20.020	Flow: 1 pulse/500mlx35, program						Deciscont numbe
MO-OXN	T	T	WBC,DL	11/26/2019	12:52	51	0.11	0.3	<toe< td=""><td>on</td><td>2L Distilled</td><td>30,828</td><td>disabled</td><td>bottle, lid off.</td><td></td><td></td><td></td><td></td><td>Desiccant purple Field duplicates also taken at 07:30 PST.</td></toe<>	on	2L Distilled	30,828	disabled	bottle, lid off.					Desiccant purple Field duplicates also taken at 07:30 PST.
MO-OXN	1	2	DL,MC	11/27/2019	07:18	PST	1.89	72.6	1.9	2	2L Distilled	162,920	Program done	18.5L		07:50	07:30	07:30	Turned 6712 and fridge off.
	_		,	, ,=•=•						Turned		- ,	Flow: 1 pulse/500mlx35, program						~
MO-SIM	1	1	WBC	11/26/2019			0.14	2		on	4L Distilled	18,570	disabled	bottle, lid off.					Desiccant purple
MO-SIM	1	2	PD,DF	11/27/2019	08:40	PST	0.571	41	0.4	0	2L Distilled	90,532	Program done	19L		09:00	09:00	09:00	Turned 6712 and fridge off

										Turned			Flow: 1 pulse/500mlx35, pro	gram Installed labeled			
MO-SPA	1	1	WBC	11/26/2019	11:30	PST	NA	NA	No flow	on	2L Distilled	23,300	disabled	bottle, lid off.			Inspected sensor and strainer.
MO-SPA	1	2	WBC,DW	11/27/2019	06:15	PST	NA	NA		4			Sample 2 after 1 pulse	0.5L	06:15	06:15	Cycled power 2105 06:45
MO-SPA	1	3	WBC,DW	11/27/2019	08:45	PST	NA	NA		2	2L Distilled	173,565	Program done	16L	08:45		Turned fridge off
													Flow: 1 pulse/500mlx35, pro	gram Uncapped labeled			
MO-THO	1	1	WBC	11/26/2019	14:25	PST	2.06	1		4	2L Distilled	NR	disabled	bottle			
MO-THO	1	2	PD,DF	11/27/2019	09:50	PST	3.023	42	3	3	2L Distilled	213,307	Program done	15L	10:10 10:10	10:10	High water mark 4'
										Turned			Flow: 1 pulse/500mlx35, pro	gram Installed labeled			
MO-VEN	1	1	LM	11/26/2019	17:17	PST	0.041	0		on	4L Distilled	32,935	disabled	bottle, lid off.			Desiccant pink
													Program done, errors have				
MO-VEN	1	2	DL,MC	11/27/2019	06:07	PST	0.625	43	1.1	1	2L Distilled	131,948	occurred	18.5	06:55 06:20	06:20	Turned 6712 and fridge off

NR: Not recorded All times are recorded here in PST Forecast Rain: (NWS) 1-2", Fox mostly <0.1" Actual Rainfall: 0.4-1" across the county Storm Control: Kelly Hahs

Sample Tracking:

Bacteria samples to VCHCA: 11/27/2019 @ 11:36 PST (VR2/MEI/OJA) by Lara Meeker 11/27/2019 @ 11:00 PST (CAM/SIM/MPK/THO) by Peter Doran 11/27/2019 @ 10:29 PST (OXN(+FD)/VEN/HUE(+FB)/CC) by David Laak 11/27/2019 @ 10:50 PST (SPA/FIL/SCR) by Dean Wilkinson

Toxicity samples to Aquatic Bioassay and Consulting Laboratories, Inc.: 11/27/2019 @ 11:04 PST (VR2/MEI/OJA) by Lara Meeker 11/27/2019 @ 11:36 PST (CAM/SIM/MPK/THO) by Peter Doran 11/27/2019 @ 10:57 PST (OXN(+FD)/VEN/HUE(+FB)/CC) by David Laak 11/27/2019 @ 11:18 PST (SPA/FIL/SCR) by Dean Wilkinson

Chemistry samples to Weck Laboratories, Inc. (via Weck-provided courier (Reliable Messenger Service)): 11/27/2019 @ 14:45 (All sampled grabs and composites) to Timothy Maestas by Kelly Hahs and Bill Carey

Meters:

CAM/MPK/SIM/THO (PD/DF): Beckman 410 # 130240875, YSI 85 #03D0379 OJA/MEI/VR2 (LM,NN): Beckman 255 # 2554, YSI 85 # 01G0625 OXN/VEN/HUE/CC (DL/MC): Beckman 255 # 2151, YSI 85 # 05E1126 SPA/FIL/SCR (WBC,DW): Beckman 410 # 110341139, YSI 85 # 05E1042

Beckman 255 # 2554, YSI 85 # 01G0625 Beckman 255 # 2151, YSI 85 # 05E1126 Beckman 410 # 130240875, YSI 85 #03D0379 Beckman 410 # 110341139, 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

							Flowmeter							Comp bottle	<u>Com</u> Durati				
<u>Site</u>	<u>Event</u>	<u>Visit</u>	<u>Staff</u>	Date	<u>Arrival</u> <u>Time</u>	<u>PST/</u> PDT	<u>Level</u> (feet)	<u>Flowmeter</u> <u>Flow (cfs)</u>	<u>Outside</u> Staff (ft)	<u>Fridge T</u> <u>°C</u>	<u>Flush (L)</u>	<u>Pump</u> <u>Count</u>	Program/6712 Display	<u>status/</u> Estimated Vol (L)	<u>(neare</u> half hr		<u>Grab</u> <u>Time</u>	<u>Toxicity</u> <u>Time</u>	Notes
										4 deg									
										but									
										propped open at			Flow: 1 pulse/500mlx35, program	Installed labeled					
ME-CC	2	1	WBC	1/16/2020	0955	PST	1.264	NA	NR	arrival	4L Distilled	456,910	disabled	bottle, lid off.					4230 desiccant blue. 6712 desiccant pink.
ME-CC	2	2	JM/CY	1/16/2020	2316	PST	1.74	NA	Photo	0			Pumping	3L			2325		
ME-CC	2	3	DL/LM	1/17/2020	0932	PST	1.928	NA	NR	1	2L Distilled	850,987	Program done	Full		0940			Turned off 6712.
													Time: 20 min/500mlx35, program	Installed labeled					Enabled liquid detector, calibrated to 500
ME-SCR	2	1	WBC	1/16/2020	1235	PST	7.289	NA	NA	4	2L Distilled	367,614	disabled	bottle, lid off.					ml. 6712 desiccant ok. Swing arm deployed
ME-SCR	2	2	JM/CL	1/16/2020	2203	PST	7.955	NA	NA	2	22 Distincu	507,014	Sample 9 in 00:11	2L			2210		
			·																Lifted swing arm and secured to rail.
ME-SCR	2	3	DL/LM	1/17/2020	1021	PST	6.862	NA	NA	-1	4L Distilled	631,030	Program done	17.5 L		1025			Outside light off.
										Faulty.									Replaced lower pump tubing, did not reset
	2			1/15/2020	1222	DCT	F 225		N1.0	Needs	41 Distilled	465 540	Flow: 1 pulse/500mlx35, program						counter. Calibrated to 500 ml. Intake and
ME-VR2 ME-VR2	2	1.1 1.2	WBC WBC/EL	1/15/2020 1/16/2020	1333 ~1800	PST PST	5.235	NA	NA	ice Iced	4L Distilled	465,542	disabled	bottle, lid off.					bubbler are secure. Added ice to blue cooler inside fridge.
ME-VR2	2	2	LM/EL	1/16/2020	2230		5.361	NA	NA	3			Program disabled	Empty			2245		Added ice to blue cooler inside mage.
	-	-	,	_, _0, _0_0	2200		0.001			-			Program done. Warning replace						
ME-VR2	2	3	KH/DW	1/17/2020	0915	PST	5.313	NA	NA	2	2L Distilled	813,442	tubing.	16L		0915			Turned off 6712.
										Turned			Flow: 1 pulse/500mlx35, program						Field blanks and field duplicate sample
MO-CAM	2	1	КН	1/15/2020	1355	PST	0.033	<0.1	<toe< td=""><td>on</td><td>4L Distilled</td><td>124,655</td><td>disabled</td><td>bottle, lid off.</td><td></td><td></td><td></td><td></td><td>bottles placed onsite. 4230 dessicant pink</td></toe<>	on	4L Distilled	124,655	disabled	bottle, lid off.					bottles placed onsite. 4230 dessicant pink
	2	2.4		1/10/2020	2045	DCT	0.442	66	0.2	2			Comple 24				2055		Field blanks and field duplicates sampled 20:55.
MO-CAM	2	2.1	PD/MC	1/16/2020	2045	PST	0.443	66	0.2	2			Sample 34				2055		Turned off 6712 and fridge and propped
MO-CAM	2	2.2	PD/MC	1/16/2020	2144	PST	0.337	50		2	2L Distilled	213,431	Program done	17L		2144			open.
			, -	, -,		_						-, -	Time: 10 min/500mlx35. Cycled						4230 desiccant pinkish purple. Removed
										Turned			power 2105 and program	Installed labeled					gravel around intake. Could not remotely
MO-FIL	2	1.1	LM	1/15/2020	1050	PST	0.186	NA	NA	on	4L Distilled	211,348	enabled. Stopped program.	bottle, lid off.					call site for program enabling.
																			Inability to call site likely due to Verizon
																			making changes for transition from 3G to
													Time: 10 min/500mlx35, program						LTE. Site could be called remotely so just needed program restarted onsite.
MO-FIL	2	1.2	кн	1/16/2020	1122	PST	0.206	NA	NA	0			disabled						Desiccant pink.
MO-FIL	2	2	DL/DW	1/16/2020	2052	PST	0.556	NA	NA	4			Sample 4 in 06:10				2105		
																			Turned off fridge and 6712, propped fridge
MO-FIL	2	3	KH/DW	1/17/2020	1005	PST	0.188	NA	NA	-4	2L Distilled	360,995	Program done	15.5L		1005			open.
													Time: 10 min/500mlx35, program						Replaced 2105 desiccant. 6712 desiccant
MO-HUE	2	1	WBC	1/16/2020	1040		NA	NA		4	4L Distilled	192,375	disabled	bottle, lid off.			2255		blue.
MO-HUE MO-HUE	2	2 3	DL/DW KH/DW	1/16/2020 1/17/2020	2248 0835	PST PST	NA NA	NA NA		2	2L Distilled	355,249	Sample 11 in 06:48 Program done	5L 18.5L		0835	2255		Turned off 6712.
	2	5		1/1//2020	0055	131				Turned	2L Distilled	555,245	Flow: 1 pulse/500mlx35, program			0855			Desiccant blue. Replaced one of two main
MO-MEI	2	1	WBC	1/15/2020	1255	PST	0.082	1	Dry	on	2L Distilled	140,197	disabled	bottle, lid off.					batteries with fully charged battery.
												·	Program disabled. Errors have						
MO-MEI	2	2	WBC/EL	1/16/2020	1840	PST	0.08	1	<oss< td=""><td>0</td><td></td><td></td><td>ocurred.</td><td>OL</td><td></td><td></td><td>1855</td><td></td><td></td></oss<>	0			ocurred.	OL			1855		
	_	_						-		2			Proram done. Errors have	4.61					Turned off fridge and 6712, propped fridge
MO-MEI	2	3	LM/EL	1/16/2020	2200	PST	0.158	5	2005	2	2L Distilled	223,462	ocurred.	16L		2202			open.
MO-MPK	2	1	КН	1/15/2020	1525	PST	0.074	0.2	<oss <0.1 cfs</oss 	Turned on	4L Distilled		Flow: 1 pulse/500mlx35, program disabled	bottle, lid off.					4230 desiccant blue.
	2	-		-,, 2020	NR	1.51	0.074	0.2		511									
MO-MPK	2	2.1	PD/MC	1/16/2020	~2220	PST	0.148	1.7	0.3	4			Sample 33, errors have ocurred.	18L			2230		4230 warning message for power failure.
																			Turned off 6712 and fridge and propped
MO-MPK	2	2.2	PD/MC	1/16/2020	2245	PST	0.261	5.4			2L Distilled		Program done	18L		2245			open.
														Uncapped					
														composite bottle. Placed spare					
													Flow: 1 pulse/500mlx35, program	•					
	2	1	WBC	1/15/2020	1055	PST	0.099	5		4	4L Distilled	181,570	disabled	in house.					Desiccant pink, changed.
MO-OJA												-							-

MO-OJA	2	3	LM/EL	1/16/2020	2125	PST	0.169	10		2	2L Distilled	266,220	Program done, errors have ocurred.	17.5L	213	n	Turned off 6712. Took picture of outside staff.
1110 05/1	2	5		1,10,2020	2123	131	0.105			Turned	22 Distinct	200,220	Flow: 1 pulse/500mlx35, program		215	<u> </u>	
MO-OXN	2	1	KH/LM	1/16/2020	0957	PST	0.11	0.3	Dry	on	4L Distilled	166,969	disabled	bottle, lid off.			4230 desiccant pink.
MO-OXN	2	2	DL/DW	1/16/2020	2156	PST	0.736	13.2	~0.8	-2		,	Sample 28 after 1 pulse	NR		2205	· ·
				, ,													Turned off 6712 and fridge and propped
MO-OXN	2	3	DL/DW	1/16/2020	2331	PST	0.272	2.1	0.3	0	2L Distilled	298,300	Program done	18L	233	5	open.
										Turned			Flow: 1 pulse/500mlx35, program	Installed labeled			
MO-SIM	2	1	КН	1/15/2020	1500	PST	0.15	2	< toe	on	4L Distilled	98,160	disabled	bottle, lid off.			4230 desiccant pink Turned off 6712 and fridge and propped
MO-SIM	2	2	PD/MC	1/16/2020	2315	PST	0.554	39	0.6	-2		172,190	Program done	19L	233	5 2330	
										Turned			Flow: 1 pulse/500mlx35, program	Installed labeled			
MO-SPA	2	1	KH/LM	1/16/2020	1040	PST	NA	NA	Outfall dry	on	4L Distilled	182,575	disabled	bottle, lid off.			
MO-SPA	2	2.1	DL/DW	1/16/2020	2000	PST	NA	NA	Flowing	2	2L Distilled	335,292	Pumping 500 ml; Program done.	13L; 16.5L	202	0 2010	Turned off 6712 and fridge, put rack in.
													Flow: 1 pulse/500mlx35, program	n Installed labeled			Cleared debris around intake and bubbler
MO-THO	2	1	КН	1/15/2020	1425	PST	1.937	0		2	4L Distilled	222,396	disabled	bottle, lid off.			and access steps.
MO-THO	2	2	PD/MC	1/17/2020	0013	PST	3.19	49	>3'	4	2L Distilled	389,230	Program done	>19L	003	0 0025	Turned 6712 off.
										Turned			Flow: 1 pulse/500mlx35, program				
MO-VEN	2	1	LM	1/15/2020	1355	PST	0.042	1	<toe< td=""><td>on</td><td>4L Distilled</td><td>135,993</td><td>disabled</td><td>bottle, lid off.</td><td></td><td></td><td>4230 desiccant pink.</td></toe<>	on	4L Distilled	135,993	disabled	bottle, lid off.			4230 desiccant pink.
													Program done, errors have				
													occurred. [2105 power cycled				
													prior to storm which caused 6712	2			
		-						20	0.5	4 5			to sample when channel was	4.01			Turned off 6712 and fridge and propped
MO-VEN	2	2	JM/CY	1/16/2020	2043	PST	0.589	39	0.5	1.5	2L Distilled	231,756	dry.]	18L	210	1 2049	open.
<u>Event Not</u> NR: Not re															Deg F Deg 29 -2	C Deg C -1.667	
All times a			ere in PST												30 -1		
				asts and valley	s and up	to 1.5"	mountains (mos	t rain in SLC) hills and mou	intains so	outh of Pt Conc	eption). Fo	0.08"-0.38" across county (mostly	<i>y</i> <0.20")	31 -1		
	-			im site gauges	•							eption,), i o,		(0120)	32 0	0	
Storm Con			-												33 1	0.556	
		,	-												34 1	1.111	
															35 2	1.667	
Sample Tr	acking:														36 2	2.222	
Bacteria sa			CA:												37 3	2.778	
	•			OJA) by Lara M	1eeker										38 3	3.333	
	_		• • •	FB)/SIM/MPK		y Miche	lle Carter								39 4	3.889	
				XN/HUE) by Da		-									40 4	4.444	
				CC) by Jaime N											41 5	5.000	
	-														42 6	5.556	1
Chemistry	sample	es to W	eck Laborato	ories, Inc. (via	Weck-pi	rovided	courier (Unspecif	ied)):							43 6	6.111	
							hnny Alvarez by								44 7	6.667	
															45 7	7.222	1

Meters:

CAM/MPK/SIM/THO (PD/MC): Beckman 410 # 110341139, YSI 85 #03D0379 OJA/MEI (WBC/EL): Beckman 255 # 2151, YSI 85 # 01G0625 VR2 (LM/EL): Beckman 255 # 2151, YSI 85 # 01G0625 VEN/SCR/CC (JM/CY): Beckman 255 # 2554, YSI 85 # 05E1042 SPA/FIL/OXN/HUE (DL/DW): Beckman 410 # 130240875, YSI 85 # 05E1126

Beckman 255 # 2151, YSI 85 # 05E1126 Beckman 255 # 2554, YSI 85 # 05E1042 Beckman 410 # 130240875, YSI 85 # 03D0379 Beckman 410 # 110341139, YSI 85 # 01G0625

															<u>Comp</u>				
							Flowmeter	-	• • • •			_		Comp bottle	Duration		. .		
C ¹ 4 -	F	\/!~!+	Chaff	Dete	Arrival		Level (feet)	Flowmeter	Outside	Fridge T	Fluck (I)	Pump Count		<u>status/</u>				Toxicity	
<u>Site</u>	Event	VISIT	<u>Staff</u>	<u>Date</u>	<u>Time</u>	<u>PDT</u>	<u>(feet)</u>	Flow (cfs)	<u>Staff (ft)</u>	<u>°C</u>	<u>Flush (L)</u>	<u>Count</u>	Program/6712 Display	Estimated Vol (L)	<u>half hrs)</u>	<u>Time</u>	Time	<u>Time</u>	<u>Notes</u>
										Turned			Flow: 1 pulse/500mlx35, program						
ME-CC	3	1	LM	3/9/2020	1400		1.067	NA	1.1	on	4L Distilled	856,277	disabled	bottle, lid off.					Grab bottles placed onsite
ME-CC	3	2	PD/CW	3/10/2020	1125	PDT	1.308	NA	1.3	0			Sample 6 after 1 pulse	5L			1135		
										-									Replace pump tubing. Turned off fridge and
ME-CC	3	3	PD/CW	3/11/2020	0840	PDT	1.539	NA	1.5	-2	2L Distilled	1,057,420	Sample 19 after 1 pulse	16L		0840			6712.
										Turned			Time: 41 min/500mlx35, program						Grab bottles placed onsite. Cleared
MO-FIL	3	1	КВ/МС	3/9/2020	1210	PDT	0.185	NA	NA	on	4L Distilled	366,115	disabled	bottle, lid off.					sediment at bubbler/sampler intake
													Sample 3 in 17 minutes.						
													Reprogrammed to 33 mins, 33						
MO-FIL	3	2	DL/DW	3/10/2020	0948	PDT	0.374	NA	NA	0			samples.	1L			1000		
MO-FIL	3	3	DL/DW	3/11/2020	0826	PDT	0.19	NA	NA	-1	2L Distilled	511,664	Program done	14.5L		0830			Turned off fridge and 6712.
										Turned			Flow: 1 pulse/500mlx35, program	n Installed labelled					
MO-OXN	3	1	КВ/МС	3/9/2020	1637	PDT	0.109	0.3	Dry	on	4L Distilled	303 <i>,</i> 539	disabled	bottle, lid off.					Grab bottles placed onsite.
									Flow to										
									edge of										
MO-OXN	3	2	DL/DW	3/10/2020	1055	PDT	0.109	0.2	channel	1			Program disabled	Empty			1105		
MO-OXN	3	3	DL/DW	3/11/2020	0945	PDT	0.46	5.6	0.5	-2	2L Distilled	434,951	Program done	18L		0955			Turned off fridge and 6712.
										Turned			Flow: 1 pulse/500mlx35, program	n Installed labelled					
MO-SIM	3	1	кв/мс	3/9/2020	1450	PDT	0.185	4	0.2	on	4L Distilled	177,046	disabled	bottle, lid off.					Grab bottles placed onsite.
MO-SIM	3	2	MC/CY	3/10/2020	1030	PDT	0.231	6	0.2	3			Sample 6 after 1 pulse	1L			1045		
													Program disabled. Errors have						
MO-SIM	3	3	MC/JB	3/11/2020	0831	PDT	0.172	3	NR	0	2L Distilled	238,105	occured.	17.5		0840			Turned off fridge and 6712.
										Turned			Flow: 1 pulse/500mlx35, program	n Installed labelled					Grab bottles placed onsite. Checked sensor
MO-SPA	3	1	КВ	3/9/2020	1130	PDT	NA	NA	NR	on	4L Distilled	255	disabled	bottle, lid off.					and intake.
MO-SPA	3	2	DL/DW	3/10/2020	0907	PDT	NA	NA	Flowing	0			Sample 3 after 1 pulse	1L			0915		
									Small										
MO-SPA	3	3	DL/DW	3/11/2020	0753	PDT	NA	NA	trickle	-3	2L Distilled	412,771	Program disabled	7L		0800			Turned off fridge and 6712.
									Flow only										
									in center of	Turned			Flow: 1 pulse/500mlx35, program	n Installed labelled					
MO-VEN	3	1	DL/DW	3/9/2020	1435	PDT	0.041	0	channel	on	4L Distilled	263,304	disabled	bottle, lid off.					Grab bottles placed onsite.
MO-VEN		2	, PD/CW	3/10/2020			0.146	4	0.1	-2		,	Program disabled	Empty			0920		
MO-VEN		3	PD/CW	3/11/2020			0.164		0.1	4	2L Distilled	329,668	Program done	19.5L		1000			Turned off fridge and 6712.
	5		. 2, 011	0, 11, 2020	2000		0.201					020,000	~			2000			U

NR: Not recorded All times are recorded here in PST Forecast Rain: (NWS) 1" Actual Rainfall: Much less. Eight sites did not qualify (<0.15") Storm Control: WB Carey

Sample Tracking:

Bacteria samples to VCHCA: 03/10/2020 @ 12:30 PDT (SIM) by Michelle Carter 03/10/2020 @ 12:15 PDT (CC/VEN) by Peter Doran 03/10/2020 @ 13:15 PDT (SPA/FIL/OXN) by David Laak HUE was sampled but was unable to be delivered to VCPHL before they closed for the day (after hours service unavailable due to COVID-19 outbreak testing) and then HUE did not qualify for rainfall.

Chemistry samples to Weck Laboratories, Inc. (via Weck-provided courier): 03/11/2020 @ 13:00 PDT to Jose Angulo DCS by WB Carey

Meters:

VEN/CC/HUE (PD/CW): YSI 85 #03D0379 OXN/SPA/FIL (DL/DW): Beckman 410 # 130240875, YSI 85 # 05E1126 SIM (MC/JB):

Beckman 255 # 2151, YSI 85 # 05E1126 Beckman 255 # 2554, YSI 85 # 05E1042 Beckman 410 # 130240875, YSI 85 # 03D0379

	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
nfall.	41	5	5.000
	42	6	5.556
	43	6	6.111
	44	7	6.667
	45	7	7.222

					Arrival	PST/	Flowmeter	Flowmeter	Outside	Fridge T		Dump		<u>Comp bottle</u> status/	<u>Comp</u> Duration (nearest	-	Grah	Toxicity	
Site	Event	Visit	Staff	Date	Time	PDT	<u>Level</u> (feet)	Flow (cfs)	Staff (ft)	°C	Flush (L)	<u>Pump</u> Count	Program/6712 Display	Estimated Vol (L)	half hrs)	Time		Time	Notes
ME-SCR	4	1	KH	4/4/2020	1300		8.641	NA	NA	0	4L Distilled	656,090	Time: 21 min/500mlx35, program disabled		<u></u>	<u></u>	<u></u>		Grab bottles placed onsite. Swing arm already lowered. Checked calibration - good. Turned on outside light.
										_			Sample 30 in 14:12. Stopped	- /- • •					Raised swing arm. Turned off 6712 and
ME-SCR	4	2	PD/MD	4/6/2020	0930	PDT	10.836	NA	NA	0	2L Distilled	874,232	program.	2/3 full		10:00	09:45		outside light.
ME-VR2	4	1	WBC	4/4/2020	115	PDT	5.536 (reamed tip> 5.428)	NA		4	4L Distilled	21,902	Flow: 1 pulse/500mlx35, program disabled	Removed comp bottle lid.					Desiccant blue. Intake line and bubbler secure. Tried calibrating, discovered auxiliary pump tubing was disconnected (box half full. Calibrated to 500ml but first sample was 1.75L. Recalibrated same issue.
ME-VR2	4	2	DL/EL	4/6/2020	0149	PDT	5.96	NA		1			Sample 13 after 1 pulse	Empty			02:10		Limited sample volume. Priority list. Turned 6712 off. Removed water from remote
ME-VR2	4	3	WBC	4/6/2020	0945	PDT	10.132	NA	10.10+	5	2L Distilled	372,905	Program done	6.5L		09:45			pump box. Grabs giving 50-100 ml.
		•		., 0, 2020	00.0		101101			Turned	22 21011104	0, 2,000	Flow: 1 pulse/500mlx35, program			00110			Grab bottles placed onsite. 4230 external
MO-CAM	4	1	КН	4/4/2020	1350	PDT	0.034	10	<0.1 cfs	on	4L Distilled	224,443	disabled	bottle lid.					desiccant 2/3 pink
MO-CAM	4	2	PD/MD	4/6/2020	0730		0.44	66	0.3	4	2L Distilled	312,807	Flow paced done	18L		07:35	07:45		Turned off fridge and 6712
													Time: 21 min/500mlx35, program	Installed labelled					
MO-HUE	4	1	WBC	4/4/2020	1230	PDT	NA	NA	NA	2	4L Distilled	510,941	disabled	bottle, lid off.					Grab bottles placed onsite
MO-HUE	4	2	DL/EL	4/6/2020	0400	PDT	NA	NA	NA	3			Sample 13 in 5:30	7L			04:10		
MO-HUE	4	3	WBC	4/6/2020	1130	PDT	NA	NA	NA	2	2L Distilled	663,195	Sample 35 in 00:21:00	18.5L		11:30			Turned 6712 off
MO-MEI	4	1	WBC	4/4/2020	1040	PDT	0.082	1	Dry	Turned on	2L Distilled	227,855	Flow: 1 pulse/500mlx35, program disabled	Removed comp bottle lid. Full. Homogenized,					4230 external desiccant pink
MO-MEI MO-MEI	4 4	2 3	DL/EL WBC	4/6/2020 4/6/2020	0049 0900		0.426 0.249	32 12	0.4	3 4	2L Distilled	306,085	Sample 17 after 1 pulse. Errors have occurred. Program done	poured off half, reprogrammed 6712 to 8 samples 16L		09:00	01:00		6712 pulling 1000ml instead of 500ml. No calibration kit in truck. Storm control changed pacing to double. Turned off fridge (left open) and 6712
										Turned			Flow: 1 pulse/500mlx35, program	Removed comp					Grab bottles placed onsite. 4230 external
MO-MPK		1	КН	4/4/2020	1500		0.075	0.2	<0.01 cfs	on	4L Distilled	351,341	disabled	bottle lid.		_	_		desiccant pink - replaced.
MO-MPK	4	2	PD/MD	4/6/2020	0630	PDT	0.204	3.4	0.2	3	2L Distilled	487,427	Program done	18.5L		06:50	06:40		Turned off fridge and 6712
MO-OJA MO-OJA	4 4	1 2	WBC DL/EL	4/4/2020 4/6/2020	1015 0011	PDT	0.103 0.646	5 70	Trickle 0.6	4 4	4L Distilled	270,384	Flow: 1 pulse/500mlx35, program disabled Sample 24 after 1 pulse	bottle, lid off. 12L			00:20		4230 external desiccant pink
MO-OJA	4	3	WBC	4/6/2020	0815	PDT	0.182	11	NR	4	2L Distilled	364,751	Program done	18L		08:15			Turned 6712 off
МО-ТНО МО-ТНО	4 4	1 2	KH PD/MD	4/4/2020 4/6/2020	1422 0824		2.029 2.452	0 6	2.05 <3'	2 2	4L Distilled 2L Distilled	400,371 560,848	Flow: 1 pulse/500mlx35, program disabled Program done	Removed comp bottle lid. 19L		08:40	08:30		Grab bottles placed onsite. Checked intake. 4230 external desiccant purple. Turned 6712 off

NR: Not recorded

All times are recorded here in PDT

Forecast Rain: 1" coasts and valleys and 2-3" south facing slopes

Actual Rainfall: ~0.4-2" at sampled stations. Up to 5.65" in the mountains.

Storm Control: Kelly Hahs

Sample Tracking:

Bacteria samples:

VCPHL Laboratory testing COVID-19 samples. Unable to accept/process other samples at time of event.

Chemistry samples to Weck Laboratories, Inc. (via Weck-provided courier): 04/06/2020 @ 14:10 PDT (All sampled grabs and composites) to Louie S. by Bill Carey

Meters:

CAM/MPK/THO/SCR (PD/MD): Beckman 410 # 130240875, YSI 85 #05E1126 OJA/MEI/VR2/HUE (DL/EL): Beckman 410 # 110341139, YSI 85 # 03D0379

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

															<u>Comp</u>				
					Arriva	I <u>PST/</u>	Flowmeter Level	Flowmeter	Outside	Fridge T		<u>Pump</u>		<u>Comp bottle</u> <u>status/</u>	Duration (nearest	Comn	Grah	Toxicity	
<u>Site</u>	Event	Visit	<u>Staff</u>	Date	Time		(feet)	Flow (cfs)	Staff (ft)	<u>°C</u>	<u>Flush (L)</u>	<u>Count</u>	Program/6712 Display	Estimated Vol (L)				Time	Notes
													Time: 40 min/500mlx35.						
ME-SCR	F	1		4/27/2020	0800	PDT	8.591	NA	NA	2	21 Distilled		Unplugged communication cable	Installed labelled bottle, lid off.					Lowered intake line. Calibration checked and good.
IVIE-SCR	5	T	KH,WBC	4/2//2020	0800	PDT	8.591	NA	NA	2	2L Distilled	889,500	from 2105ci (needs upgraded)	bottle, lid off.					good. Grabs taken at fish passage diversion. Raised and
ME-SCR	5	2	KH,WBC	4/28/2020	0950	PDT	8.592	NA	NA	2	2L Distilled	1,155,260	Program done	18.5L		10:05	10:00		secured intake. Turned off 6712.
	-	4		4/27/2020	0000	DDT	0.044			Turned		547 244		Installed labelled					Cleaned out area around intake, manual purge
MO-FIL	5	1	KH,WBC	4/27/2020	0900	PDT	0.241	NA	NA	on	4L Distilled	517,241	Time: 41 min/500mlx35	bottle, lid off.					4230 no change to depth.
MO-FIL	5	2	KH,WBC	4/28/2020	0845	PDT	0.197	NA	NA	0	2L Distilled	666,364	Program done	15	24	0850	0900		Turned off 6712. Turned fridge off/propped open.
																			Discharge occurring from ~300m upstream while
										Turned				Installed labelled					onsite. Channel dry above and below discharge. Dammed channel. Changed 4230 external
MO-OXN	5	1	KH,WBC	4/27/2020	1030	PDT	0.111	0.3	<toe< td=""><td>on</td><td>4L Distilled</td><td>441,671</td><td>Time: 3 min/500mlx35</td><td>bottle, lid off.</td><td></td><td></td><td></td><td></td><td>desiccant.</td></toe<>	on	4L Distilled	441,671	Time: 3 min/500mlx35	bottle, lid off.					desiccant.
													Program done. Reprogrammed to						
MO-OXN	5	2	KH,WBC	4/28/2020	1045	PDT	0.109	0.3	dry	1 Turned	2L Distilled	581,329	flow-paced. Time: 5 min/500mlx35, program	19 Installed labelled		1045	DRY		Turned off 6712. Turned fridge off/propped open.
MO-SPA	5	1	KH,WBC	4/27/2020	0940	PDT	NA	NA	dry	on	4L Distilled	418,997		bottle, lid off.					Cycled power on 2105ci.
			·						,			,							Grabs only bacteria and meters due to lack of
	-	2		4/20/2020	0005	DDT	N1 A		trickle/dam	4		572 240	Drogram dono	15		0020	0015		water. Turned off 6712. Turned fridge off/propped
MO-SPA	5	Z	KH,WBC	4/28/2020	0805	PDT	NA	NA	þ	4 Turned	2L Distilled	573,218	Program done	Installed labelled		0820	0815		open.
MO-VEN	5	1	KH,WBC	4/27/2020	1130	PDT	0.041	1	<toe< td=""><td>on</td><td>2L Distilled</td><td>333,096</td><td>Time: 40 min/500mlx35</td><td>bottle, lid off.</td><td></td><td></td><td></td><td></td><td>Connected calibration line. Cycled power 2105ci.</td></toe<>	on	2L Distilled	333,096	Time: 40 min/500mlx35	bottle, lid off.					Connected calibration line. Cycled power 2105ci.
	_									0			Program done. Reprogrammed to	10					
MO-VEN	5	2	KH,WBC	4/28/2020	1110	PDT	0.114	3	<toe< td=""><td>0 3710</td><td>2L Distilled</td><td>428,166</td><td>flow-paced.</td><td>19</td><td></td><td>1125</td><td>1120</td><td></td><td>Turned 6712 off. Reconnected main intake.</td></toe<>	0 3710	2L Distilled	428,166	flow-paced.	19		1125	1120		Turned 6712 off. Reconnected main intake.
										portable									
										sampler				Installed labelled					
ME-VR2	5	1	KH,WBC	4/30/2020	0900	PDT	5.597	NA	NR	with ice 3710	4L Distilled	New tube	Time: 40 min/500mlx35	bottle, lid off.			0930		Bacteria grab only. Auxiliary pump out for repair.
										portable									
										sampler	Flush in								
ME-VR2	5	2	KH,WBC	5/1/2020	0907	PDT	5.564	NA	NR	with ice	shop	NR	Program done	18		0920	0915		
																			Site dry. Photos taken. Changed 4230 external desiccant. Checked bubbler rate - 66 bubbles per
MO-MEI	5	1	KH,WBC	4/30/2020															minute
MO-MEI	5	2	KH,WBC	5/1/2020															Site dry. Photos taken
MO-OJA	F	1	KH,WBC	4/30/2020	0750	PDT	0.101	E	<toe ~0.1 cfs</toe 	0	4L Distilled	272 160	Time: 40 min/500mlx35	Installed labelled bottle, lid off.			0810		Bacteria grab only. Changed 4230 external desiccant. Connected calibration line.
MO-OJA	5	2	KH,WBC	4/30/2020 5/1/2020	0805		0.101	5	~0.2 cfs	2		•	Program done	18.5		0810	0810		Turned 6712 off.Reconnected main intake line.
													Time: 40 min/500mlx35.						
	-	1		4/20/2020	1010		NIA	NIA	NA	1		672 820	Unplugged communication cable from 2105ci (needs upgraded)	Installed labelled			1015		Bacteria grab only
MO-HUE	5	T	KH,WBC	4/30/2020	1010	PDT	NA	NA	NA	T	4L Distilled	072,839	nom 2105ci (neeus upgraded)	bottle, lid off.			1015		Turned 6712 off. Secured dome light cover to light
MO-HUE	5	2	KH,WBC	5/1/2020	1020	PDT	NA	NA	NA	2	2L Distilled	828,995	Program done	19.5		1020	1020		with zip ties.
																			4230 external desiccant purple. Changed tubing
										Turned			Time: 40 min/500mlx35. Unplugged communication cable	Installed labelled					6712, checked calibration (acceptable). Checked bubbler rate (0 bubbles per minute), adjusted to
ME-CC	5	1	KH,WBC	5/11/2020	1045	PDT	1.077	NA	NR	on	4L Distilled	0	from 2105ci (needs upgraded)	bottle, lid off.					62 bubbles per minute.
																			Turned off 6712. Turned fridge off/propped open.
ME-CC	5	2	KH,WBC	5/12/2020	1025	PDT	1.065	NA	NR	4	21 Distilled	110 7/10	Program done	Overflowed		1030	1030		Reconnected communication cable to 6712. Switched out new 2105ci
	J	۷	NI, WDC	5, 12, 2020	1023	וטי	1.005	11/4		•		71 J,/4Z	Time: 40 min/500mlx35.			1030	1030		
										Turned			Unplugged communication cable	Installed labelled					Changed 4230 external desiccant. Connected
MO-CAM	5	1	KH,WBC	5/11/2020	1140	PDT	0.034	10	<0.01 cfs	on	4L Distilled	318,646	from 2105ci (needs upgraded) Program done. Errors have	bottle, lid off.					calibration line.
													occurred (no more liquid samples 9						Turned off 6712. Turned fridge off/propped open.
													11 (16:28-17:48 PST), other						Reconnected main intake line. Reconnected
	-	~	VII. 14/5 0	F /4 2 /2022		00-	0.000	40	~0 05 -5-	2		440.000	samples good). Reprogrammed to	10 F		1400	1122		communication cable to 6712. Switched out new
MO-CAM	5	2	KH,WBC	5/12/2020	1110	PDI	0.033	10	~0.05 cfs	Z	2L Distilled	410,866	flow-paced.	19.5		1120	1120		2105ci

МО-МРК	5	1	KH,WBC	5/11/2020	0800	PDT	0.075	0.2	<0.01 cfs	Turned on	4L Distilled	493,195	Time: 10 min/500mlx35, delayed start to 0200 PDT to target likelier flow period. Program done. Errors have occurred (no more liquid samples 1 35 (01:00-06:40 PST), other samples good). Reprogrammed to	bottle, lid off.		Cycled power on 2105ci. Changed 4230 external desiccant. Connected calibration line. Dammed channel with silicone tube. Grabs only bacteria and pH, too dry for more. Ltd volume comp everything but 625/8270. Reconnected intake line. Turned off 6712. Turned
МО-МРК	5	2	KH,WBC	5/12/2020	0810	PDT	0.075	0.2	<0.01 cfs	2	2L Distilled	716,778	flow-paced.	9	0820 0815	fridge off/propped open.
MO-SIM	5	1	KH,WBC	5/11/2020	0845	PDT	0.169	3	<toe ~1 cfs</toe 	Turned on	4L Distilled	243,288	Time: 40 min/500mlx35	Installed labelled bottle, lid off.		Changed 4230 external desiccant. Connected calibration line.
MO-SIM	5	2	KH,WBC	5/12/2020	0848	PDT	0.159	3	~1 cfs	0			Program done. Errors have occurred (no more liquid samples 3 35 (09:17-06:37 PST), first two samples good). Ran program again		0900	Intake line kinked 90 degrees where it enters the house. Someone outside must have pulled on it after the first two samples were taken. Removed kinked section, patched line and reran program.
MO-SIM	5	3	WBC	5/13/2020	0800	PDT	0.177	3	<toe ~ 2 cfs</toe 	3	2L Distilled	437.207	"Sample 35 in 2 min". Stopped program.	19	0800	Turned off 6712. Turned fridge off/propped open. Reconnected main intake line.
мо-тно	5	1	KH,WBC	5/11/2020		PDT	2.096	1	~2	2	4L Distilled			Installed labelled bottle, lid off.		Switched out battery.
МО-ТНО	5	2	KH,WBC	5/12/2020	0944	PDT	2.101	1	NR	2	2L Distilled	730,175	flow-paced.	18.5	0950 0950	Turned 6712 off.

NR: Not recorded All times are recorded here in PDT

Forecast Rain: Not applicable

Sample Tracking:

Bacteria samples to VCHCA: 04/28/2020 @ 11:57 PDT (SCR/FIL/OXN/SPA/VEN) by Kelly Hahs 04/30/2020 @10:50 PDT (VR2/MEI/OJA/HUE) by Kelly Hahs 05/12/2020 @ 12:09 PDT (CC/CAM/SIM/MPK/THO) by Kelly Hahs

Chemistry grab and composite samples to Weck Laboratories, Inc. (via Weck-provided courier):

04/28/2020 @ 13:35 PDT (SCR/FIL/OXN/SPA/VEN) by W.B. Carey (no grabs at OXN/SPA (dry), no oil and grease at VEN (missed), limited volume (9L) OXN composite) 05/01/2020 @12:20 PDT (VR2/MEI/OJA/HUE) by W.B. Carey (MEI dry)

05/12/2020 @ 13:30 PDT (CC/CAM/MPK/SIM/THO) by W.B. Carey (no grabs at MPK (dry), no composite at MO-SIM (vandalism))

05/13/2020 @ 12:25 PDT (SIM) by W.B. Carey (composite only)

Meters:

SCR/FIL/OXN/SPA/VEN (WBC,KH): Beckman 410 # 110341139, YSI 85 # 03D0379 VR2/OJA/MEI/HUE (WBC,KH): Beckman 410 # 110341139, YSI 85 # 03D0379 CC/CAM/MPK/SIM/THO (WBC/KH): Beckman 410 # 110341139, YSI 85 # 03D0379

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

······												
· .												9421085
Protection Protec		Pre-se		P	NPD Proje	Count ES Stor ect: NP	y V mw DES	Vate vate S Ste	ersh er M orm	ied Ioni Wa	Pro itori ter	ecord Nection District ing Program Wet Season Contract No. AE17-001
Sampling Date:	slight	7 + 8/2										2019/20-PRE
Sampling Team:	4 1	HHS W.	•		RE	7	•			,		
SAMPLE ID	DATE/TIME			R	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	* Metals þy EPA 200.8, Total: Šb, Ág, Ál, Ás, Be, Cd, Čr, Ču, Fe, Ni, Pb, Še, Ťi, Zn
EB lines	8/19/19	1200	x	щ X	x			Ž	σ	Ы	8 7	NOTES See note #1
EB composite	8/21/19	1330	X	x	X	x					1	To be split in lab. See note #1
20 L carboy and lid Blue cube cooler						· ·		x	X		<u> </u>	Please place tape or plastic bag over top
Black bag				$\left \right $				x			1	
Waste Dilute HNO3	· · ·											
Relinquished	Printed Nam		<u>:</u> L			AHS						
	Signature Affiliation	VCWPD	<u> </u>	<u>+</u>	<u>هر</u>	>		Dat -	e/Ţį	me	ć	8/21/19/ 1335
Received	Printed Nam Signature	e	<u>}</u>	ИД	<u>e</u> _{	hale h.V	. 9	<u> </u>	1	a 		
Other Notes:	Affiliation <u>1. Please use</u> <u>2. Please clea</u>		Dar	-		/		e volu		bern	nits	
Ventura Count Management F	ywide Stormwar Program 2018/20	er Quality Annual Rep	ort	1	26	Page D	DE - 2	2				Attachment D Appendix ET-019Ly

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Hader Shind	Protection of the second secon	Cha Ventura Cour NPDES St Project: N Bacteriologi	nty W ormv PDE	Vate vate S St	er Monitori tormwater	ectior ng Pr Wet S	n Di ogra	am on
Sampling Date:	11:27:19		_	Proj	ect Number: 2	2019/2	0-1 (Wet)
Sampling Team	PD DE		-	_		_	_	
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		X	X			1	
	MO-CAM	11/27/19/0630	x	x			1	
	MO-OJA		x	X			1	
	MO-MEI		x	X			1	
	MO-VEN		x	X			1	
	FB-1		x	x			1	
		a.						
Relinquished Received	Printed Name Signature Affiliation Printed Name	PETER DORM <u> <u> </u> </u>	R	Date	e/Time <u>11-2</u> BARK	7.19/ A.G	(1< 4-H	9.J
	Signature Affiliation	letter LAD	7	Pate	Time 11	12-8	119	9 11:00
Other Notes:	Perform bacteriologi	cal analyses within 6 hours	of san	nple o	collection time	e		
	1:10 1:100, and 1:100	0 dilutions for E. coli	_					



Sampling Date:

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)

Project Number: 2019/20-1 (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	11/27/19/0900	X	x					1	
	MO-MPK	11/27/19/0750	x	x					1	
	MO-THO	11/27/19/ 1010	X	x					1	
	MO-OXN	0	X	x		1			1	
	MO-HUE		x	x					1	
	FD-1		x	x					1	
elinquished	Printed Name Signature Affiliation	PETER DORANJ A. C. VIA		Da	e/Tim	ie <u>11</u>	27:	19/	110	0
eceived	Printed Name Signature Affiliation			Da	e/Tim	10				
Other Notes:	Perform bacteriolog	ical analyses within 6 hours c 00 dilutions for E. coli	of sai				me			

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: Project Number: 2019/20-1 (Wet) Sampling Team: Total Coliform (Tray Method - WQ IDEXX E. coli (Tray Method - WQ IDEXX Number of Bottles LAB USE DATE/TIME ONLY SAMPLE ID COLLECTED NOTES Х Х ME-CC-1 ME-SCR Χ Χ 1 ME-VR2 1015 Х Х 11.27.19 1 Χ Х MO-CAM 1 Х X MO-OJA 11.27.19 1 700 MO-MEI 830 Х Х 11.27.19 1 MO-VEN X Х 1 FB-1-Х X 1 Relinquished Printed Name Signature 0 : 76 Affiliation Date/Time -EDDI'S ameron Received Printed Name Signature 3 Affiliation Date/Time Perform bacteriological analyses within 6 hours of sample collection time Other Notes: 1:10 1:100, and 1:1000 dilutions for E. coli

	RA COUNTY	Chai: Ventura Coun NPDES Sto Project: NF Bacteriologic	ty W ormv PDE	7ate vate S Si	ersh er M torn	ed Ion nwa	Pro iito: ate:	otec ring r W	tion g Pr et S	n D ogr beas	am son
	11/27/19	AR + MICHELL						: 201	19/2	0-1	(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
01121	MO-SPA		X				-	-	-	1	or ML
	MO-FIL		X	x	_	-	-	-		1	and the
	-MO-SIM		X	x		-	_	-	-	1	Me
	MO-MPK		x	X		-	-	-	-	-1	ML
	MO-THO		X	x		-				1	man Mi
	MO-OXN	11/27/14 / 0730	x	x				İ		1	
	MO-HUE	11/27/19/0845	X	x						1	
	FD-1	11/27/19/0730	X	x						1	7
elinquished	Printed Name Signature Affiliation		-	Dat	e/Ti	me		/2-	7/10	1	
eceived	Printed Name Signature Affiliation			Dat	e/Ti	me					
ther Notes:	Perform bacteriologi	cal analyses within 6 hours o 0 dilutions for E. coli									

		Ductorionogra	ai -	٧C	110		⊿aD	(51	DĽ	10	of 2)
ampling Date:	11/27/1		÷					201	9/20	-1 (Wet)
ampling Team:	DAVIOLAI	AK + MICHELLE	C	AI	2.TE	ER		-	-		
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	11/27/19/0945	x	X						1	
	ME-SCR		X	x	-	-	-		-	-1-	error AAC
	ME-VR2		x	X		-			_	_1_	- NE
	MO-CAM		x	x	-	-				1	MU
	мө-өјл		X	x		-	-		-	1	in MV
	MO-MEI		X	x	_		-		-	-1-	no phi
	MO-VEN	11/27/19/0620	X	x						1	
	FB-1	11/27/19/0845	X	X					×	1	
elinquished eceived	Printed Name Signature Affiliation Printed Name Signature	David La Venero Nadiu We PH- Lat	2	-					7/1		10:29
	Affiliation	IN LAN	-	Da	te/T	ime	-17	14	1/C	1	1029
ther Notes:	Perform bacteriologi	cal analyses within 6 hours	ofcor	mmle	coll	Actic	n ti	ne			



11-27-19

Sampling Date:

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)

Project Number: 2019/20-1 (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	11-27-19 0615	x	Х			1	
	MO-FIL	11-27-19 0730	х	X			1	
	-MO-SIM-		X	X			1	
	-MO-MPK,		x	X			1	
	-MO-THO-	1	x	X			1	
	-MO-OXN		x	X			1	
	MO-HUE-		Х	X	1		1	
	FD-1		x	X			1	
Relinquished	Printed Name Signature Affiliation Printed Name	DEAN Wilk Den U VCWPD	In	y -	Time _1	1-27-	.17	1050
	Signature							
	Affiliation			Date/1	l'ime			



11-27-19

Sampling Date:

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)

Pro	ject Number:	2019/	20-1	(Wet)	
	JOOL I TOMINO OF	=/		(

Sampling Team	WBC 2	Dw.	-	-	_		-	-	
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	11-27-19/0945	x	x				1	
	ME-VR2		X	x				1	
	MO-CAM-		X	X				1	
	мө-өј∧		X	x				1	
	-MO-MEI-		X	x				1	
	MO-VEN-		x	x		100		1	
	FB-1		X	x				1	
Relinquished	Printed Name Signature	DEAN Wilk Den Wi	ins	SOA)			-	
	Affiliation	Vewpo	-	Da	te/Time	11-2	27-1	19	1050
Received	Printed Name	Naca V	Lie	1	F=			_	
	Signature	00						~	
	Affiliation	PHLCD	_	Da	te/Time	11	271	19	653
Other Notes:	Perform bacteriologi	cal analyses within 6 hours	of sat	mple	collectio	on time			
	1:10 1:100, and 1:100	00 dilutions for E. coli	_						

Sampling Date:	Projec			Storm	ity - A	t Wet BC I	Sease Labor	on (C atorie	oni	gram tract AE20-007) 20-1 (Wet)
Sampling Team:	DAVID LAAK	. +	MICH	TELL						
SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (<i>Atherinops</i> affinis)	Chronic toxicity - inland silverside (<i>Menidia</i> beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (<i>Ceriodaphnia</i> dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES
ME-CC	11/27/19/0945	X			00		0 0	S	2	Note 1, Note 2, Note 3
ME-SCR					X				1	Note 1, Note 2, Note 3_ML
ME-VR2		X							2	Note 1, Note 2, Note 3_ MC
MO-CAM						-X-			2	Note 1, Note 2, Note 3 ML
MO-OJA		-				X			-2-	Note 1, Note 2, Note 3_ Nri
MO-MEI						X			2	Note 1, Note 2, Note 3 M L
MO-VEN	11/27/19/0620						X		2	Note 1, Note 2, Note 3
Relinquished Received	Signature Affiliation Printed Name	22 22 an	1-6	Lau	-	Date/7	Firr	11/2	71	19 10:57
	Signature Activ	11	1318	N actor	51	Date/7	rt i	1.75	2.	19 1057

Sampling Date:	Project	N	tura (IPDE DES	Count S Sto Storn	rmwa 1wate 2ity - A	tersho ter M r Wet ABC I le 2 of	ed Pro Conito Seas Labor 2	otection ring I on (C atorie	on Pro on es	District gram tract AE20-007) 20-1 (Wet)
Sampling Team:	DANID LAAM	< + I	MICH	Elle	E CA			. <u>20</u>	1771	201 (wey
	DATE/TIME	Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (<i>Menidia</i> beryllina)	Chronic toxicity - giant kelp (<i>Macrocystis</i> <i>pyrifera</i>)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (<i>Ceriodaphnia</i> dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	
SAMPLE ID MO-OXN	COLLECTED	af	P CI	Da	SC	X	di Ci	CI		NOTES
MO-HUE	11/27/19/0845						X		2	Note 1, Note 2, Note 3
MO-THO									3	Note 1, Note 2, Note 3,Note 4
MO-MPK		-		_			_X_		-	Note 1, Note 2, Note 3 Mi
MO-SIM							v	_X	-	Note 1, Note 2, Note 3 ML
MO-FIL							_X		-2-	Note 1, Note 2, Note 3 MC
MO-SPA							X	1	_2	Note 1, Note 2, Note 3 Mc
						X			2	Note 1, Note 2, Note 3 — M C
Relinquished Received	Printed Name Signature Affiliation Printed Name	avice	1 L	aa k Ze		Date/7	Fin:()	27	15	10:57
	SignatureAffiliation	ATIC	eller :	orciss	107	Date/7	[in:_]/	1.2:	7 -	19 10.57
Other Notes:	Note 1: Dilutions - 6.25% Note 3: Notify District w Note 4: If salinity >2 ppt	vithin 24	hours	if signi	ficant	oxicity	is obse	erved.		TIE if mortality > 50% mavailable, use <i>Hyalella</i>

Sampling Date: Sampling Team:	Project	N et: NP	itura IPDE DES	Count S Sto Storn Toxic	rmwa nwate sity - A Sic	tersho ter M r Wet ABC I de 1 of	ed Pro Ionito Seas Labor 2	ring I on (C atorie	on Pro on S	District gram tract AE20-007) 20-1 (Wet)
SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (<i>Atherinops</i> affinis)	Chronic toxicity - inland silverside (Menidia beryllina)	Chronic toxicity - giant kelp (<i>Macrocystis</i> <i>pyrifera</i>)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (<i>Ceriodaphnia</i> dubia)	Chronic toxicity - green alga (<i>Raphidocelis</i> subcapitata)	Number of 5-Gallon Buckets	NOTES
ME-CC		X	0 4		03	0.0	0.0	U s	2	NOTES Note 1, Note 2, Note 3
ME-SCR					X	-	1		1	Note 1, Note 2, Note 3
ME-VR2	11-27-19 10:15	X							2	Note 1, Note 2, Note 3
MO-CAM						X			2	Note 1, Note 2, Note 3
МО-ОЈА	11-27-19 7:00			21		X			2	Note 1, Note 2, Note 3
MO-MEI	11-27-19 8:30					X			2	Note 1, Note 2, Note 3
MO-VEN							X		2	Note 1, Note 2, Note 3
Relinquished Received	Signature Affiliation Printed Name Signature	APD M Tic	N	ter M NNN NNN		Date/" Date/		1-2		9 11:04
Other Notes:	Note 1: Dilutions - 6.25%				_		-		6	TIE if mortality > 50%

Note 3: Notify District within 24 hours if significant toxicity is observed.



Chain of Custody Record 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: 11/27-/19

Project Number: 2019/20-1 (Wet)

252

Sampling Team:

PD, DF

		-	 -

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (<i>Menidia</i> beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrtifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus).	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (<i>Ceriodaphnia</i> dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES
MO-OXN						X			2	Note 1, Note 2, Note 3
MO-HUE							Х		3	Note 1, Note 2, Note 3,Note 4
MO-THO	W/27/19/1010						Х		2	Note 1, Note 2, Note 3
MO-MPK	11/21/19/0750							Х	2	Note 1, Note 2, Note 3
MO-SIM	11/27/19/0900						X		2	Note 1, Note 2, Note 3
MO-FIL							X		2	Note 1, Note 2, Note 3
MO-SPA						X			2	Note 1, Note 2, Note 3
Relinquished Received	Printed Name <u>Peter DOFAN</u> Signature <u>NTA Rhan</u> Date/Tim <u>N/27/19</u> / <u>1136</u> Printed Name <u>ENTABERH</u> MARGENO									
	Signature Chr Affiliation MUMA		110795	SAY		Date/T	fin <u>l</u>	117	-14	9 1136
Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality > 5 Note 3: Notify District within 24 hours if significant toxicity is observed.							TIE if mortality > 50%			



Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season (Contract AE20-007) Toxicity - ABC Laboratories

Side 1 of 2

11/27/19

Project Number: 2019/20-1 (Wet)

Sampling Date: Sampling Team:

PD DF

,	-	_	_	1	_
	100				

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (<i>Atherinops</i> <i>affinis</i>)	Chronic toxicity - inland silverside (<i>Menidia</i> beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (<i>Ceriodaphnia</i> dubia)	Chronic toxicity - green alga (<i>Raphidocelis</i> subcapitata)	Number of 5-Gallon Buckets	NOTES
ME-CC		X							2	Note 1, Note 2, Note 3
ME-SCR					Х				1	Note 1, Note 2, Note 3
ME-VR2		X		-					2	Note 1, Note 2, Note 3
MO-CAM	11/27/19/0630					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
MO-VEN							x		2	Note 1, Note 2, Note 3
							12			
Relinquished Received	Printed Name <u>Peter Dorzun</u> Signature <u>VTA / Rincas</u> Date/Tin <u>U124/19 / 1136</u> Printed Name <u>ALABERT MARMAN</u> Signature <u>Charter MOASSAM</u> Date/Tin <u>U127 19 / 1134</u>									

Other Notes:

Ventura Countywide Stormwater Quality Management Program 2019/20 Annual Report

Note 3: Notify District within 24 hours if significant toxicity is observed.

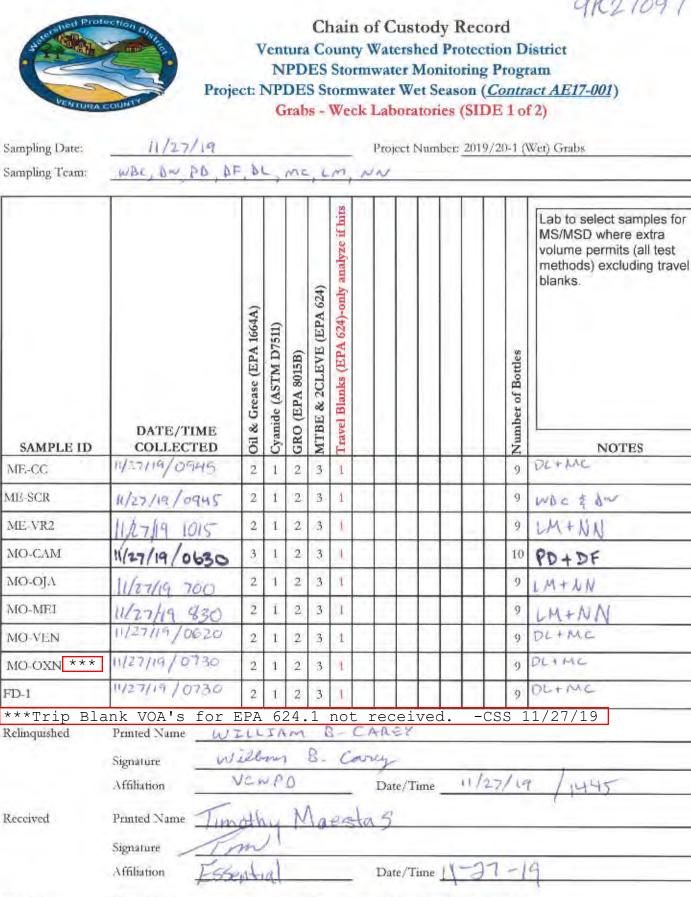
Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality > 50%

Attachment D Appendix E

Sampling Date:	<u>-11-27-1</u>	9		DES	Storn	ity - A Sic	r Wet ABC] le 1 of	: Seas Labor 2	atorie	on	gram tract AE20-007) 20 ¹ 1 (Wet)
Sampling Team:	WBC 4	DW						-		35	· · · · · · ·
SAMPLE ID	DATE/T COLLEC		Chronic toxicity - topsmelt (<i>Atherinops affinis</i>)	Chronic toxicity - inland silverside (<i>Menidia</i> <i>beryllina</i>)	Chronic toxicity - giant kelp (<i>Macrocystis</i> <i>pytifera</i>)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (<i>Ceriodaphnia</i> dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES
ME-CC			X			•••	••	00		2	Note 1, Note 2, Note 3
ME-SCR	11-27-19	0945				X				1	Note 1, Note 2, Note 3
ME-VR2			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-		*					Х			2	Note 1, Note 2, Note 3
MO-VEN								X		2	Note 1, Note 2, Note 3
Relinquished Received	Printed Name Signature Affiliation Printed Name	Der D Vew, Not	103 M		Kin Un 12A			rin <u> </u> 1 A T	1-27 uph A	- 1: の	-1 050 - 1118
Received Other Notes:	Affiliation	Nod Br Avu, ns - 6.25%	PD	B10 6, 25%	12A ASSA , 50%,) 100%	Date/" Date/" Note	l'in: 2: Plea	II L	7.	19 118 TIE if mortality > 50%

11-27-19 WBC \$ DW	- topsmelt (<i>Atherinops</i>	silverside (<i>Menidia</i>	ocystis		e 2 of 2 Project	Numb		.9/2	20-1 (Wet)					
	smelt (<i>Atherinops</i>	rside (<i>Menidia</i>	ocystis		,	7.11		.12						
	smelt (Atherinops	rside (<i>Menidia</i>	ocystis			~	is							
	smelt (<i>Ath</i>	ISIC	ICI I	hin	w	odaphnis	phidocel							
DATE/TIME COLLECTED	Chronic toxicity - top: affinis)	Chronic toxicity - inland silver beryllina)	Chronic toxicity - giant kelp (<i>Macrocystis</i> <i>pyrifera</i>)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (<i>Ceriodaphnia</i> dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES					
					Х			2	Note 1, Note 2, Note 3					
X 2 Note 1, Note 2, Note 3 X 3 Note 1, Note 2, Note 3, Note 4														
						X		2	Note 1, Note 2, Note 3					
							X	2	Note 1, Note 2, Note 3					
						X		2	Note 1, Note 2, Note 3					
11-27-19 0730						Х		2	Note 1, Note 2, Note 3					
11-27-19 0615					X			2	Note 1, Note 2, Note 3					
			Vin											
Printed Name DEAN WITKINJON Signature Den WitkinJon Affiliation VCWPP Date/Tin: 11-27-19 1056 //18														
Printed Name <u>ELIZABETH MATUHIN</u> Signature <u>IN du</u> Affiliation <u>ADNATIC BURASSAN</u> Date/Tinr 11-27-19 1118														
Note 1: Dilutions - 6.25%	/0, 12.5	%, 25%	% <u>, 50%</u> ,	100%	Note	e <u>2: Pl</u> e	ase exe	cute	e TIE if mortality > 50%					
Note 3: Notify District w	vithin 2	4 hour	s if sign	ificant	toxicity	y is obs	erved.							
	COLLECTED	DATE/TIME COLLECTED DATE/TIME COLLECTED 1-27-19 0730 1-27-19 0615 Drinted Name Affiliation Printed Name $E \downarrow 12A$ Signature Affiliation $E \downarrow 12A$ Move 1: Dilutions - 6.25%, 12.5	DATE/TIME COLLECTED DATE/TIME COLLECTED DATE/TIME COLLECTED DI DI DI DI DI DI DI DI DI DI DI DI DI	DATE/TIME COLLECTED DATE/TIME COLLECTED DI-27-19 0730 DI-27-19 0615 DEAN Wilking Dinted Name DEAN Wilking Display Finted Name DEAN Wilking Display Dis	DATE/TIME COLLECTED	DATE/TIME COLLECTED	DATE/TIME COLLECTED DATE/TIME COLLECTED DATE/TOUL DATE/TIME COLLECTED DATE/TIME DATE/TIME DATE/TIME COLLECTED DATE/TIME DATE/T	DATE/TIME COLLECTED UNITED DATE/TIME COLLECTED UNITED DATE/TIME UNITED DATE/TIME DATE/TIME COLLECTED UNITED DATE/TIME UNITED DATE/TIME UNITED DATE/TIME DATE	DATE/TIME COLLECTED COLLEC					

9K27097



Other Notes: Travel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE) EPA 624 has replaced EPA 524.2 for MTBE and 2-Cleve

	- COM			n an	15 -	we	CK L	anor	ator	ics ((SID	620	of 2)	
Sampling Date:	11-27-19	E		-					Num	iber:	2019,	/20-1 ((Wet) Grabs	
Sampling Team:	NBC, DW, PD, b		DL,	ma		LM	, NI	·			_			
	DATE/TIME	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-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 MO-SPA ***	COLLECTED	2	-	2	.W 3	J.	-	+	-	\square	-	Ž 9	NOTES	
MO-FIL. *	11/27/19/0615	2	1	2	3	4		+	+		-	9	WBC \$ DW	
MO-SIM	W27/19 / 0900	2	1	4	3	1	-	-	+	\vdash	-	9	WBC & OW PD+ DF	
MO-HUE	11/27/19/0845	2	1	2	3	1		-	+			9	DLA MC	
MO-THO	11/27/19/1010	2	1	2	3	1	+	+	+		-	9		
MO-MPK	11/27/M/07:50	2	1	2	3	4		+	+	\vdash		9	07:50 not 09:00.	
FB-1	11/27/19/0845	2	1	2	3	4		+	+		-	0	Recorded incorrectly of COC by sample team	
		-	-	4	-	1		+	+		-	-		
			-	-		-		+	+		-	+		
***Trip Bla	ank VOA's not m				l f	or	EPA	67	24.1		-C	99.1	1/27/19	
Relinquished	Printed Name				B	-		RE		•				
	Signature W	lu	ing		2		Ca	ney	-	_		_		
	Affiliation	in	PB	-	_		1	Date/	l'ime	11	12	1/19	11445	
Received	Printed Name	not	the	1	M	ap	st	15						
	Signature	-	1				3.10							
	Affiliation Ferry	Tr	1		_		1	Date/	l'ime	11-	-27	-1	9 230 ~	
Other March	1	T	1		10								un p	
Other Notes:		ravel blanks are only to be analyzed if samples have hits of MTBE or 2-CLEVE) PA 624 has replaced EPA 524.2 for MTBE and 2-Cleve												

cas intertion

Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season (Contract AE17-001) Composites - Weck Laboratories (SIDE 1 of 2) 11/27/19 Project Number: 2019/20-1 (Wet) Composites Sampling Date: PD DF DL. MC. NIN Sampling Team: UBL. DW. Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Metals, total & dissolved (+ Hardness), & Barium (total only) Dissolved Inorganic Carbon and Dissolved Organic Carbon Se, TI, Zn, Hg Subsample for imazapyr and NID as CTAS (see V-11 COC) Metals by 200.7, Total (only): Ca, Mg (for NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics Hardness calc.), AND Na, K 625-CTR, 8270SIM-PAH, 8270SIM-Phenols BOD, COD, MBAS, TKN, Ammonia, TOC Cond 608 include alpha- & 515.3-Herb 547-Glyphosate, 608-CTR gamma-chlordane VSS. * Same extraction with Phosphorus-P Total & Dissolved NO3-N, Total Chlorine Residual low-level spike for 3 TSS. 525.2 Reg+507, 525-OPP-LL methods: 625CTR, DRO/ORO (EPA 8015B) CLO4, Turb, TDS, 8270SIM-PAH, & 8270SIM-PHENOLS Number of Bottles Lab to select samples for MS/MSD where extra volume permits (all test 14:50 ALK, DATE/TIME Cr+6 COLLECTED SAMPLE ID NOTES 11/27/19 X PL+MC /GP ME-CC X X X X X X X X X х X 1 ME SCR X X X X X X X X X X X 11/27/19 1 WBC & DW ME-VR2 X X X X X X X X X X X X 11/27/19 1310 1 KH & 1 L MO-CAM 11/27/19 0050 X X X X X X X X X X X POTDE 1 X X X X X X X X X MO-OJA X X 1 MO-MEI 850 X X X X X X X X X X X LA+UN 1/27/19 1 11/27/19/0620 DL+ MC X MO-VEN X X X X X X X X X X ĩ HAH KELLY Relinquished Printed Name Signature KWPD Affiliation Date/Time 10 44

Received

Signature

Printed Name

Date/Time

 Other Notes:
 1) Filter for dissolved metals and perform conductivity analyses immediately.
 /

 2) Please do not dilute limited volume samples when enacting priority list (low reporting limits are important).
 //

 3) Imazapyr (IPA 538) and NID as CTAS (SM 5540D) are to be processed under a separate COC



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Attachment D Appendix E

T-023# 17-17

States Prote	Proje	Nect: NI	PDI	a C DES	our S Stor	nty '	wa	ters ter r W	heo Mo et !	l Pr nite Seas	ote orin son	ctio g P (<u>C</u>	rog	ran rac	trict n t <u>AE17-001</u>) of 2)
Sampling Date:	11/27/19				_	-		Proj	ect 2	Vur	ber:	201	9/20	11	Wet) Composites
Sampling Team:	WBR, DW, AD	DF.	DK	, 1	AC	. 4	107	in	W.	_	_			_	
SAMPLE ID	DATE/TIME COLLECTED		Dissolved Inorganic Carbon and Dissolved Organic Carbon	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cc+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	DRO/ORO (EPA 8015B)	ALK, CLO4, Turh, 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.), AND Na, K 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test
MO-SPA	11/27/19/0845		х	Χ	х	X	X	X	x	х	X	Х	Х	1	WBC + bw
MO-FIL	11/27/14/1250	111	х	X	X	Х	х	Х	X	Χ	Х	Х	Х	1	WELSOW
MO-SIM	11/27/14/0900		X	Χ	Х	X	Х	X	X	X	X	X	х	1	POTOF
MO-MPK	1/27/19/0750	94	x	X	X	Х	X	X	X	X	X	\mathbf{X}	X	1	PD+DF
AO-THO	11/27/19/ 1010		X	X	X	x	X	X	X	X	X	x	X	1	PD+DF
10-OXN	11/27/19/0730		X	X	X	X	X	X	X	X	X	X	X	1	DL+MC
MO-HUE	11/27/19/08-15		X	X	X	X	X	x	X	X	x	X	X	1	PL+ NAC KH
Relinquished Received	Printed Name Signature Affiliation Printed Name														
W-97592	Signature Date/Time														
Other Notes: 2) Please do not dil	1) Hilter for dissolved a lute limited volume samp													mp	orrant).

Sampling Date:	1/27/19		1	Project Nur	uber: 2019/20-1 (Wet) Cleaning
	DW PD, DF DL	me, L			
		1	1 1		1
EQUIPM	ENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
18.5 L wide neck carboy and l	id	Jr IZ			Please place tape or plastic hag over top and note on wrap if hottle was cleaned with methanol.
20 L narrow neck carboy and silicone stopper	id (1 assembly) or	H 12			
Blue cube cooler		1			
Frey bucket		1			Please place tape or plastic hag over top and note on wrap if bottle was cleaned with methanol.
black bottle bag		1011			
Bottle harness		1			
Relinquished Printed N	lame WILLE	A-M 1	B. CI	TREY	
Signature	willi	AN S	· C	arey	
Affiliatio	VEWP8	1		Date/Time	11/27/19/1445
eceived Printed N	Iame Timet	y M	laest	45	
Signature	Jun	1			
Affiliatio		al		Date/Time	11-27-19 2:300
ther Notes:					
			_		

Page DE - 2 17

And Shares	PARCOUNTY	Chai Ventura Coun NPDES Sto Project: NF Bacteriologic	ty W ormv DE	⁷ ate vate S S1	rshe r Mo orm	d l oni wa	Prot itori iter	ection ng H Wet	on I Prog Sea	gram Ison					
		- 1/17/20 ARTER + PETE			ect N RAN		ber:	2019,	/20-2	2 (Wet)					
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)					Number of Router	NOTES					
ONLI	ME-CC	COLLECTED	X	X				1		1					
	ME-SCR		x	x					1	1					
	ME-VR2		x	x					1	1					
	MO-CAM	1/16/20 2.055	x	x				1	1	1					
	МО-ОЈА		x	x					1	1					
_	MO-MEI		x	х					1	1					
	MO-VEN		X	X					1	1					
	FB-1	1/16/20 2055	x	X					1	1 (mo-cAm)					
elinquished eceived	Printed Name Signature Affiliation Printed Name	Printed Name <u>MICheice Carter</u> Signature <u>MADE</u> Affiliation <u>RINCON CONSULTANTS</u> Date/Time <u>1/17/20 1-25</u>													
	Signature Affiliation	PHL	~	V Date	e/Tim	ne	11	17	1/2	0 123					
her Notes:	Perform bacteriologi	cal analyses within 6 hours o	of san	nple	collec	tion	n tim	e							
	1:10 1:100, and 1:100	0 dilutions for E. coli													

RACOUNTY	Bacteriologic		VCI	HCA	Lab) (SII)E 2	of 2)					
		- 6 t f					/20-2	(Wet)					
MILITELLE				10									
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	1/16/20 2330	X	X				1						
MO-MPK	1/16/20 2230	X	X				1						
MO-THO	1/17/20 0025	X	X				1						
MO-OXN	1	X	x				1						
MO-HUE		X	x				1						
FD-1	1/16/20 2055	x	x				1	(mo-cAm)					
Printed Name Signature Affiliation Printed Name	RINCON CONSULT HINTS Date/Time 1/17/20 1:25												
Affiliation	and o	V		/Time	_	12	-	1/5/					
	I/IG/20 - IMICHELLE MICHELLE SAMPLE ID MO-SPA MO-FIL MO-SIM MO-MPK MO-IHO MO-OXN MO-HUE FD-1 Printed Name Signature Affiliation	Bacteriologia 1/16/20 1/17/20 MICHELLE CARTER + Pl MICHELLE CARTER + Pl SAMPLE ID DATE/TIME COLLECTED MO-SPA DATE/TIME MO-FIL III6/20 2330 MO-FIL III6/20 2230 MO-MPK I/16/20 2230 MO-MPK I/16/20 2230 MO-MPK I/16/20 2055 MO-OXN III III6/20 2055 Po-1 I/16/20 2055 Printed Name MICHELLE III6/20 2055 Printed Name MICHELLE III6/20 2055 Printed Name MICHELLE III6/20 III6/20 Printed Name III6/20 III6/20 III6/20 Modelee III6/20 II6/20 <thii6 <="" td=""><td>Bacteriological - I/IG/20 - I/I7/20 MICHELLE CARTER + PETE MICHELLE CARTER + PETE SAMPLE ID DATE/TIME COLLECTED MO-SPA X MO-FIL X MO-SIM I/I6/20 2330 X MO-FIL X MO-MPK I/I6/20 2230 X MO-MPK I/I6/20 2055 X Printed Name MICHELECA Modeledee Modeledee Modeledee X Mo-HUE X Modeledee X Printed Name MICHELECA Modeledee Modeledee Modeledee X</td><td>Bacteriological - VCH 1/16/20 1/17/20 Proje MICHELLE CARTER PETER No.SPA X X MO-SPA X X MO-FIL 1/16/20 2330 X MO-FIL X X MO-SIM 1/16/20 2330 X MO-FIL X X MO-SIM 1/16/20 2330 X X MO-FIL X X X MO-SIM 1/16/20 2330 X X MO-HPK 1/16/20 2055 X X MO-THO 1/17/20 0025 X X MO-HUE X X X X Printed Name MICHELLE CARTER X X MD-HUE X X X X Printed Name MICHELLE CARTER X X MD-THO 1/16/120 2055 X X X Printed Name MICHELLE CARTER MD-Conter X<</td><td>Bacteriological - VCHCA 1/16/20 1/17/20 Project Nu MICHELLE CARTER + PETER POD XX And Check PETER POD XX Date/Time XX And Check MO-SPA X X And Check And Check MO-SIM 1/16/20 2330 X X And Check MO-SIM 1/16/20 2035 X X And Check And Check MO-HUE Inclusion MICH-ELLE CARACTER X And Check FD-1 1/16/120 2055 X X Inclus Inclusion</td><td>Bacteriological - VCHCA Latter 1/16/20 - 1/17/20 Project Number 1/16/20 CARTER + PETER DOKAL MICHELLE CARTER + PETER DOKAL SAMPLE ID DATE/TIME COLLECTED MO-SPA X X MO-FIL X X I MO-FIL I/16/20 2330 X X I MO-FIL I/16/20 2330 X X I MO-FIL I/16/20 2330 X X I MO-FIL I/16/20 2035 X X I MO-HUE I/16/20 2055 X X I Printed Name MICHELE CARTER Date/Time Printed Name Chronoliterthirts Date/Time Printed Name Chronoliterthirts Date/Time Printed Name Chronoliterthirts Date/Time Moder Chronoliterthirts Date/Time</td><td>Bacteriological - VCHCA Lab (SIT 1/16/20 - 1/17/20 Project Number: 2019, MICHELLE CARTER + PETER DORMO MICHELLE CARTER + PETER DORMO XX Image: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" SAMPLE ID DATE/TIME ColleCTED Vitile Point Vitile Point Vitile Point MO-SPA X X Image: Collected Vitile Point Vitile Point Vitile Point Vitile Point MO-SIM 1/16/20 2330 X Image: Point <thimage: point<="" th=""> Image: Point Image: Poin</thimage:></td><td>Distribution of the second se</td></thii6>	Bacteriological - I/IG/20 - I/I7/20 MICHELLE CARTER + PETE MICHELLE CARTER + PETE SAMPLE ID DATE/TIME COLLECTED MO-SPA X MO-FIL X MO-SIM I/I6/20 2330 X MO-FIL X MO-MPK I/I6/20 2230 X MO-MPK I/I6/20 2055 X Printed Name MICHELECA Modeledee Modeledee Modeledee X Mo-HUE X Modeledee X Printed Name MICHELECA Modeledee Modeledee Modeledee X	Bacteriological - VCH 1/16/20 1/17/20 Proje MICHELLE CARTER PETER No.SPA X X MO-SPA X X MO-FIL 1/16/20 2330 X MO-FIL X X MO-SIM 1/16/20 2330 X MO-FIL X X MO-SIM 1/16/20 2330 X X MO-FIL X X X MO-SIM 1/16/20 2330 X X MO-HPK 1/16/20 2055 X X MO-THO 1/17/20 0025 X X MO-HUE X X X X Printed Name MICHELLE CARTER X X MD-HUE X X X X Printed Name MICHELLE CARTER X X MD-THO 1/16/120 2055 X X X Printed Name MICHELLE CARTER MD-Conter X<	Bacteriological - VCHCA 1/16/20 1/17/20 Project Nu MICHELLE CARTER + PETER POD XX And Check PETER POD XX Date/Time XX And Check MO-SPA X X And Check And Check MO-SIM 1/16/20 2330 X X And Check MO-SIM 1/16/20 2035 X X And Check And Check MO-HUE Inclusion MICH-ELLE CARACTER X And Check FD-1 1/16/120 2055 X X Inclus Inclusion	Bacteriological - VCHCA Latter 1/16/20 - 1/17/20 Project Number 1/16/20 CARTER + PETER DOKAL MICHELLE CARTER + PETER DOKAL SAMPLE ID DATE/TIME COLLECTED MO-SPA X X MO-FIL X X I MO-FIL I/16/20 2330 X X I MO-FIL I/16/20 2330 X X I MO-FIL I/16/20 2330 X X I MO-FIL I/16/20 2035 X X I MO-HUE I/16/20 2055 X X I Printed Name MICHELE CARTER Date/Time Printed Name Chronoliterthirts Date/Time Printed Name Chronoliterthirts Date/Time Printed Name Chronoliterthirts Date/Time Moder Chronoliterthirts Date/Time	Bacteriological - VCHCA Lab (SIT 1/16/20 - 1/17/20 Project Number: 2019, MICHELLE CARTER + PETER DORMO MICHELLE CARTER + PETER DORMO XX Image: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" SAMPLE ID DATE/TIME ColleCTED Vitile Point Vitile Point Vitile Point MO-SPA X X Image: Collected Vitile Point Vitile Point Vitile Point Vitile Point MO-SIM 1/16/20 2330 X Image: Point Image: Point <thimage: point<="" th=""> Image: Point Image: Poin</thimage:>	Distribution of the second se					

		Bacteriologic	al -	VCH	ICA Lab	(SIDI	E 1 o	of 2)						
ampling Date: ampling Team:	JM, CY		-	Projec	t Number:	2019/2	0-2 (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						
<	ME-CC	1110/20/23:25	X	X			1							
	ME-SCR	1/10/20/22:10	x	x			1							
	ME-VR2		X	x			1							
	MO-CAM		X	X			1							
	MO-OJA		X	x			1							
	MO-MEI	20:49	X	x			1							
_	MO-VEN	1/10/20 /17:47	X	x			1							
	FB-1		X	x			1							
elinquished	Printed Name Signature Affiliation	Jaime Mad Just Rincon			"Time 1/	14/2	.0	/23:59						
eceived	Printed Name	cameron (che	in f	er	1								
	Signature	con charl												
		PH1 Date/Time 1200 1/17/20												

	RA COUNTY	Chai Ventura Coun NPDES Sto Project: NE Bacteriologio	ty W ormv PDE	Vate vate S St	rshe r Ma	d Pi onit wat	rote orin er W	ctio g Pi 7et S	n Di rogr Seas	am on
Sampling Date: Sampling Team	1/16/20 Dave Lag	t + Dean Willa			ect N [.]	umb	er: <u>2(</u>	019/2	20-2 (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	1/16/20:10	X	x					1	
1	MO-FIL	1/16/20 21:05	X	X					1	1
1	MO-SIM		X	X		-		-	1	and with the second particular standard strand the second second second second second second second second second
	MO-MPK		X	X			-	1	1	
	MO-THO		x	X		-	-	-	1	
	MO-OXN	1/16/20 22:05	X	X			T		1	
	MO-HUE	1/14/20 22:55	x	X				T	1	
	FD-1		X	X		-		-	1	
Relinquished	Printed Name Signature Affiliation Printed Name	David Lage Jewen Cameron C	k 2 high	Date	e/Tim	ne _	Vrz	/2	0	00:06
	Signature Affiliation	PHL	~	Date	e/Tim	ne	1/1	7/	20	1300
Other Notes:	Perform bacteriologic 1:10 1:100, and 1:100	cal analyses within 6 hours o 0 dilutions for E. coli	of san	nple	collec	tion	time			

AND CONTROL OF	Protection Distance	Chain Ventura Count NPDES Stor Project: NP Bacteriologica	y W mv DE	Vate vate S S1	rshe er Mo torm	d F oni wa	Prot tori ter	ecti ing I Wet	on I Prog Sea	ram son
Sampling Date:	1-16-2020			Pro	ect N	um	ber:	2019	/20-2	2 (Wet)
Sampling Team:	LMEEL	4 WBC	_	_						
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)					Minuther of Bottlee	NOTES
	ME-CC		x	x					1	
	ME-SCR -		x	x					1	
	ME-VR2	1-16-2020 22:45	x	x	13				1	LMEEL
	MO-CAM		x	X					1	
	МО-ОЈА	1-16-2020 1945	x	x					1	WBCZEL
	MO-MEI	1-16-2020 1855	x	x					1	WBCEEL
	MO-VEN		x	x					1	
	FB-1		x	X		-		-	1	
Relinquished Received	Printed Name Signature Affiliation Printed Name Signature Affiliation	Lara Meeker Jammu WPD Cameron Cameron Cameron PHL		1	e/Tin 2 e/Tin	19				0 23:35
Other Notes:	Perform bacteriologi	cal analyses within 6 hours o	fear				1 tim	ne .		
- 110100.	1:10 1:100, and 1:100		. 5al	mpie	COHEL		. uu			

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Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season (<u>Contract AE17-001</u>) Grabs - Weck Laboratories (SIDE 1 of 2)

Sampling Date:

1-16-2020

Project Number: 2019/20-2 (Wet) Grabs

Sampling Team:

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-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	1-14-2020 23:25	2	1	2	3	1								9	JMECY
ME-SCR	-11-2020 22:10	2	1	2	3	1								9	JMłcy
ME-VR2	1-16-2020 22:45	2	1	2	3	1								9	LALEL
МО-САМ	1-16-2020 2055	3	1	2	3	1								10	MCEPD
MO-OJA	1-16-2020 19:45	2	1	2	3	1								9	WBC 4EL
MÖ-MEI	1-16-2020 (8:55	2	1	2	3	1								9	GRC & EL
MO-VEN	1-14-2020 17:49	2 BC	1	2	3	1								9	JMECY change per
MO-OXN	1/16/20 22:05	2	1	2	3	1			Ì					9	DLIDL/K. Hahs. BG
FD-1	1-16-20 2055	2	1	2	3	1								9	Mc+PD 1/22/2020
Relinquished	Printed Name Da Signature			La	a k			Dat	te/T	ime			7/>	0	13:20
Received	Printed Name Joh. Signature	ν 2 	7	_A	1.vc	<u></u>	<u>د</u> ک	<u></u>	te/T	لمدر	·	/r		 20	13:20
Other Notes:	Travel blanks are only to EPA 624 has replaced E							ve h	its o		1	~	[EVI	



Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season (<u>Contract AE17-001</u>) Grabs - Weck Laboratories (SIDE 2 of 2)

Sampling Date: <u>-16-WW</u> Sampling Team:

Project Number: 2019/20-2 (Wet) Grabs

Travel Blanks (EPA 624)-only analyze if hits Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks. MTBE & 2CLEVE (EPA 624) Oil & Grease (EPA 1664A) Cyanide (ASTM D7511) GRO (EPA 8015B) Number of Bottles DATE/TIME SAMPLE ID COLLECTED NOTES MO-SPA 2 1 2 3 1 9 20 20:10 DL+DW MO-FIL 2 1 2 3 20 21:05 1 9 DL+DW MO-SIM 1-16-2020 2330 2 1 2 3-1 9 MC + PD MO-HUE 2 1 2 3 1 ۵ 22:55 9 PLADW MO-THO 2 1 2 ż 1 -17-2020 0025 9 MC + PD MO-MPK 1-16-2020 2230 2 2 1 3 1 9 MC +PD FB-1 V16/2020 20:55 2 2 3 1 1 9 MCTPD David Relinquished Printed Name n ci Signature Affiliation Date/Time 7/20 13:20 Received Printed Name Signature Wec Affiliation Date/Time 20 20 Other Notes: Travel blanks are only to be analyzed if samples have hits of MIBE or 2-CLEVE) EPA 624 has replaced EPA 524.2 for MTBE and 2-Cleve 70j:Ю 1117 (imilym 2.20 10777

Attachment D Appendix E

0A17061



1-16-2020

Chain of Custody Record 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:

Sampling Team:

Project Number: 2019/20-2 (Wet) Composites

SAMPLE ID	DATE/TIME COLLECTED	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 (+ 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-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	DRO/ORO (EPA 8015B)	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.), 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
ME-CC	1/17/20 09:40	S	x	X	X	x	X	X		x	ы Х	ы Х	X	V X	1	DL+Lm
ME-SCR	1/17/20 10:25		x		x	x	x	x		x	x	х	х	x	1	DLYLM
ME-VR2	1/17/20 09:15	x	x		x	x	x	x	x	x	х	X	x	x	1	KH+DW
MO-CAM 21:44			x		х	x	х	х	x	x	x	x	x	х	1	MC+PD
MO-OJA	1-16-2020 21:30		x		x	x	x	x	x	x	х	X	х	x	1	IMEEL
MO-MEI	1-16-20:0 22:02		x		x	х	х	X	х	x	X	х	x	x	1	LMGEL
MO-VEN	1-14-2070 10:01	B	¢х		x	x	x	х	х	х	х	х	х	X	1	Jonfey
	21:01	*	Sa	щΡ	le	ti	me	C	har	ige	р	er	Ke	211	У	Hahs. BG 1/22/2020
Relinquished	Signature		id vi	4	La	al d	570	1	Dat	e/T	ime	25	* 17:	7/2	à	13:20
Received	Printed Name	Wv	11	Ý.	A	lve	\underline{x}	<u>د</u> کر	-							·
	Signature Affiliation	- 2 0	ĸ				<u> </u>	~	Bat	e/T	ime		/[1/	20) 13:20
Other Notes:	1) Filter for dissolved															
	te limited volume same							_				_			mpo	rtant).
5) Imazapyr (EPA 5	38) and NID as CTAS	SM	554():):	are t	o be	proc	cesse	ed ur	ıder	a se	para	te C	OC		Janufran 1/17/10/10:10
Ventura Co	ountywide Stormwater Qu	ality					Page	e DE	- 29							Attachnien DApparaile

Contraction of the second seco	Proje	I ct: NI	NPI PDE	a C DES ES S	ou 5 St 5tor	Offi MM	Wa 1wa vate	iter iter iter	shee Mo 7et S	d Pi onit Sea	rote o r in son	ectiong H Ing H Ing (<u>C</u>	on I Prog	grai <u>tac</u>	OA]700) trict m <u><i>t AE17-001</i></u>) of 2)
Sampling Date:	1-16-2020)		_			-	Proj	ect l	Nun	iher:	201	.9/2	0-2 (Wet) Composites
Sampling Team:										•					
SAMPLE ID MO-SPA MO-FIL MO-SIM MO-MPK MO-THO MO-OXN MO-HUE	DATE/TIME COLLECTED V16/20 20:20 1117/20 10:05 1/16/20 2335 1/16/20 2335 1/16/20 2335 1/16/20 23:35 1/16/20 08:35		X X X X X X Z Z Dissolved Inorganic Carbon and Dissolved Organic Carbon	\times \times \times \times \times \times \times \times 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	📈 🖂 🖂 🖂 🖂 🖂 NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	X X X X X X Phosphorus-P Total & Dissolved	X X X X X X 2 X X 25-CTR, 8270SIM-PAH, 8270SIM-Phenols *	X X X X X X X 515.3-Herb 547-Glyphosate, 608-CTR	X X X X X X 25.2 Reg+507, 525-OPP-LL	X X X X X DRO/ORO (EPA 8015B)	X X X X X X X ALK, CLO4, Turb, TDS, TSS, VSS, Cond	I I I I I I I I I	Metais 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-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test NOTES $DL \neq DW$ Kt + DW Kt + DW
Relinquished Received	Signature Affiliation VCL Printed Name JOM Signature	vid NPE .nn ect			2		P	Dati				17	120)	13:20
Other Notes: 2) Please do not dilu	1) Filter for dissolved m te limited volume sample	etals an	id pei en20	rforn rting	n cc prio	ondu ority	ctivi	ty ar	alys	es in	nme g lin	diate	ly. ure in		
	· · · · ·													<u> </u>	Junium 1/17/20 1/0/10
	ywide Stormwater Quality Program 2019/20 Annual Re	eport			Pag	je DE	E - 30	0							Attachment D Appendix +

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Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season (<u>Contract AE17-001</u>) Equipment - Weck Laboratories

OARO

Sampling Date: 1-15-2020

Project Number: 2019/20-2 (Wet) Cleaning

Sampling Team:

					
· · ·	EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	
18.5 L wide neck		-		<u>F</u>	NOTES Please place tape or plastic bag over top and note on w
20 L narrow neck silicone stopper	carboy and lid (+assembly) or	13			if bottle was cleaned with methanol.
Blue cube cooler		468		13	
Grey bucket		4			Please place tape or plastic bag over top and note on w
Black bottle bag	- <u>-</u> <u>.</u> .	- G		 []	if bottle was cleaned with methanol.
Bottle hamess				3	
			_	_	
Relinquished	Printed Name	id Logt	<u> </u>		
	Signature	h al	1Z	-	
	Affiliation VCUT	5		Date/Ti	ime 1/17/20 13:20
Received	Printed Name John.	my A	slvar.	e 7_	· · · ·
	Signature	<u> </u>	<u></u>		
	Affiliation Vec	<		Date/Ti	$ime \frac{1}{17/20} 13.20$
Other Notes:	· · · · · · · · · · · · · · · · · · ·				

	TA COUNTY	Chair Ventura Count NPDES Stor Project: NP Bacteriologic	ty W rmw DE	'ate vate S S	ershed er Mon tormw	Pro nitor vater	tectioning 1 Wet	on Dist Program Season	a 1
ampling Date: ampling Team:	3/10/2020 Dave L.	Dean W.	-	Pro	ect Nu	mber	2019	/20 3 (We	et)
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	A		+			
	ME-SCR	3/10/20 12:20	X	x			1.	1	
	ME-VR2	-//	v	v					
	MO-CAM		X	X	++-	-			
	MO-OIA		X	X	\vdash	+			
	MOMEL		x	v				1	
	MOVEN		v	v				1	
	TD-P		*	H				*	
Relinquished	Printed Name Signature			tE		- 6	51	DĒ	-
Received	Affiliation Printed Name Signature	SEEO	<i>, ,</i>						
	Affiliation		-	Da	ite/Tim	.e			
Other Notes:	-	ical analyses within 6 hours 00 dilutions for E. coli	of sa				ime		

Januar Shud F	RA COUNTY	Chain Ventura Count NPDES Stor Project: NPI Bacteriologica	y W mv DE al -	Vate vate S Si VC	ershe er Mo torm HC/	ed Pr onito wate A La	otec oring er W b (S)	tion g Pro et So IDE	Di ogra easo 2 o	am on of 2)
Sampling Date: Sampling Team	Dave Las 3/10/20	k + Dean Wil	k	i Pro	son ject N	umbe	er: <u>20</u> :	19/20	30	Wet)
LAB USE ONLY	SAMPLE ID MO-SPA MO-FIL MO-SIM MO-MDV MO-THO MO-THO MO-OXN	DATE/TIME COLLECTED 3/10/20 09:15 3/10/20 10:00	X X X X X X Oliform (Tray Method - WQ IDEXX)	X X X X X X E. coli (Tray Method - WQ IDEXX)					1 1 1 1 1 Number of Bottles	NOTES
	MOLHUE		X	v	10				1	
	FD-A		*	x		-	-		-	
Relinquished	Printed Name Signature Affiliation	David Gaa	K	ل Dat	e/Țin	ne _	3/1	0/2	02	0 13:13
Received	Printed Name Signature	Salvadod y	in the	B.	AR,		GA			
	Affiliation	P.H.Lab /1	4	Dat	e/Tiŋ	ne	3/	10/	20	18:15
Other Notes:	Perform bacteriologic 1:10 1:100, and 1:1000	al analyses within 6 hours of dilutions for E. coli	f san		1	/ _	time			

And Contract	Protection of the of th	Cha Ventura Cour NPDES St Project: N Bacteriologi	nty W ormv PDE	Vate vate S St	rshec r Mo ormv	l Pro nito vate	otect ring r We	tion I Prog t Sea	gram ason
Sampling Date:	3.10.2020 PD, CW		-	Proj	ect Nu	umbe	r: <u>201</u>	9/20-	(Wet)
ampling Team	ro, cro				-		-		
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)					NOTES
-	ME-CC	3.10.20/1135	X	X					1 PD/00
	ME-SCR		X	X		-			1
	ME-VR2		x	X				-	1
_	MO-CAM	_	X	X					1
	MO-OJA		X	х					1
_	MO-MEI		x	x	-	-			1
	MO-VEN	3.10.20/0920	x	X					1 PD/CN
			-	X		1		-	
								-	
elinquished	Printed Name Signature Affiliation	18ton Turan Parta Vugw		Date	/Time	-	3.10	120	/ 1220
eceived	Printed Name	SALVADOR Y	-	B	9RK	46	AG	1	
	Signature	_ Allanta	5 2	L	D	m	an	de	
	Affiliation	Pett. LAB	-1	Date	/Time	-9	3/10	0/2	0 12:15
ner Notes:	Perform bacteriologi	cal analyses within 6 hours	of san	ple c	ollecti	on th	me		
		0 dilutions for E. coli		2.4					



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:	3/10/20	Project Number: 2019/20-3 (Wet)
Sampling Team:	MICHELLE CARTER + CALER	3 YAKEL

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	-mc
	MO FIL		x	x				-1-	mc
4	MO-SIM	3/10/20 /1045	x	X				1	
	MO-MPK	3/10/20 /0930	x	X				1	
	MO-THO	3/10/20 / 1140	x	X				1	
	MO.OXN		X	X	-	-	-	-1	- MC
	MO.HUE		x	X	_	-	-	-	- INC
	Real		¥.	x				-	

Relinquished	Printed Name	MICHELLE CARTER
	Signature	OLLARSTO
	Affiliation	RINCON Date/Time 3/10/20 / 12.32
Received	Printed Name	SALUADOR Y BARRAGAN
	Signature	Bali Ge Barrada
	Affiliation	P.H. LAD Date/Time 3/10/20 13:30
Other Notes:	Perform bacteriolo	gical analyses within 6 hours of sample collection time
	1:10 1:100, and 1:1	000 dilutions for E. coli

r r							1. A.							and a second
-shed Prot	2010				Cl	nai	n of (Cus	tod	ly R	ecor	d		OC11074
		I			a Co	oun	ty Wat	ters	hed	Prot	tectio	n D		
		-					mwa				~	-		
VENTORA	Proje	ct: J					nwate: ck Lal							<u>(<i>E17-001</i></u>)
	- -								4001	ico (i		. 1 0	- <i>-</i>	
Sampling Date:	3/10/2020 PD+CW, DL+C		:				Pro	ject	Nun	iber: 2	2019/2	0-3 (Wet) (Grabs
Sampling Team:	PD+KLJ, DL+C	<u>)in</u>	, D	1(.	۴C	<u> </u>								
					Γ	te te								
						analyze if hits								to select samples for MSD where extra
						lyze							vol	ume permits (all test
													bla	thods) excluding travel
		2			624	only								
		664A	E)		EPA	624)								
		PA 1	D75	B)	VE (PA.						es		
		e (E	(ASTM D7511)	8015	CLE	53 (F						of Bottles		1 1 2
		reas	(AS	PA.	& 2C	lan								
	DATE/TIME	Oil & Grease (EPA 1664A)	Cyanide (GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-only						Number	L	· .
SAMPLE ID	COLLECTED	Öil	Cya	GR	LΜ	Tra			·			n Z		NOTES
ME-CC	3/10/20 1135	2	1	2	3	44						9	P	+ CW
M E-SCR	3/10/20 12/20	2	-1-	-2	-3-			-					Ð	Hoto OL
ME-VR2		-2-	-:1	-2-	-3-	<u>-</u>						-9		04
MO-CAM	3/10/20 1625-	3	1	2	3	1						10	\$	too PD
МО-ОЈА		2	_1_	2	3	_1_						0		DL
MO_MEI		2	1	2	3	1		<u> </u>	<u> </u>			_ 2		<u> </u>
MO-VEN	3/10/20 0920	2	1	2	3	1						9	Pt	÷+ cw
MO-OXN	3/10/20 11:05	2	1	2	3	1						9	C	Ltow
FD-1		2	1	2	3	1						9		
Relinquished	Printed Name W-B	. /	~ A	<u>.</u>	~					<u></u>				
remiquismed								•						
		ן, נע			JUL, J	\sim				<u>-</u>			1.	
	Affiliation <u>VC</u>					ī					- (i -	20,	/ 13	
Received	Printed Name	<u>SE</u>		M	<u>G</u> V	A a]	<u>)(</u>	5	<u>) </u>				
	Signature	(+	~	~					_					
	Affiliation //we	de.					Da	te/T	ime	3-	-11-2	01	130	•
Other Notes:	Travel blanks are only to	be a	nalv	zed	if sa	nple								
- -	EPA 624 has replaced E									_~~ 0	s.	1		Zipo 14'SZ
							<u> </u>				U	<u>~.4</u> [1.	1007 - 2 - 1001
	huvida Starmustar Quality				D -	ac 🗖	E - 36						A	

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Sampling Date: Sampling Team:	2107 Project <u>3/10/20</u> <u>РО 2 СШ РІ 2</u>	ct: l	N NPI G	PD DE: rab	i Co ES S St s - '	Sto torn Wee	ty W rmv nwa ck I	wate iter Labo	ersh er M We ora	ied Aon t Se tori	Pro uiton easo es (tec ring on (SIT	tion Pr <u>Co</u> DE	n Di ogr <u>ntra</u> 2 of	act Al	<u>E17-001</u>)
SAMPLE ID MO-SPA MO-FIL MO-SIM MO-HUE MO-HUE MO-MPK FB-1	DATE/TIME COLLECTED 3/10/20 09:15 3/10/20 10:00 3/10/20 10:45 3/10/20 1440 3/10/20 1440 3/10/20 1440 3/10/20 1440	D D	1 1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>		E L E MTBE & 2CLEVE (EPA 624)	analyze if hits								6 6 6 6 Number of Bottles	MS/I volui meti bian Di Di Di Di Di C	to select samples for VISD where extra me permits (all test hods) excluding travel ks. NOTES SDU SDU SDU CY CY CY MC
Relinquished	Printed Name W- Signature W. Affiliation NC	<u>}</u>		ARI	EY						,					· · · · · · · · · · · · · · · · · · ·
Received		¥ ¥	A				_ _ ľ	50	^ e	Ŝ					130	
Other Notes:	Travel blanks are only to EPA 624 has replaced E					-				f M.	ΓBΕ	-		EVF		1.120 14:52 1.9°C TOZZL

Vere		-	NF		ES S	ton	mw	ate	r W	et S	Seas	on	(<u>C</u>	onti	tact	AE1	<u>7-001</u>)
- NIURA	COUR		Cor	npo	osite	28 -	We	ck	Lat)0 f 2	itor	ies	(SI	DE	10	f 2)	
Sampling Date:	3/11/2020					~			Proj	ect l	Vum	b er :	201	9/20)-3 (Wet) C	omposites
Sampling Team:	PÓtcw, DL	.+Di	10 j	m.C.	<u>(</u> †)	B											,
SAMPLE-ID ME-CC	DATE/TIME COLLECTED 3/11/20 0840		× Dissolved Inorganic Carbon and Dissolved Organic Carbon	× NO3-N, Total Chlorine Residual	x	X Cr+6	🔀 BOD, COD, MBAS, TKN, Ammonia, TOC	× NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	× Phosphorus-P Total & Dissolved	× 625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	× 515.3-Herb 547-Glyphosate, 608-CTR	📈 525.2 Reg+507, 525-OPP-LL		⊨ ALK, CLO4, Turb, TDS, TSS, VSS, Cond	► Number of Bottles	Disso Be, C Se, T Meta (only Harc Na, 608 gam * Sau low- meti 827C 827C Lab f MS/ volu	als by200.8, Total olved: Sb, Ag, Al, J Cd, Cr, Cu, Fe, Ni, F 1, Zn, Hg als by 200.7, Total y): Ca, Mg (for dness calc.), ANE K include alpha- & ma-chlordane me extraction with level spike for 3 hods: 62SCTR, DSIM-PAH, & DSIM-PHENOLS to select samples MSD where extra me permits (all te NOTES
ME-SCR	7.100 00010		x		x	x	x	x	x	x	x	x	x	x	1	860	
ME-VR2		!	x		x	x	x	x	x	x	x	Х	.X	X	1		
MO-CAM			X		X	x	х	X	x	x	x	Х	Х	x	1		· · ·
МО-ОЈА			x		x	x	x	х	x	x	x	x	Х	x	1		
MO-MEI		ļ	х		Х	X	X	Х	х	x	x	х	х	x	1		-
MO-VEN	3/11/20 1000	 	x		x	x	x	x	x	x	x	x	x	X,	1	20	400
Relinquished		N-8 N-8 N-8	» (Ċ	vre		 		Dat	re/T	ime		<u> </u>		20	/ (3)	00
Received	Printed Name	55 1.4	Ę	Y	Jne	j	ι ^ι ()	D	<u>c</u>	5						
	Affiliation Z	พ่อด	2					-	Dat	e/T	ime	3	-()	-2	.0 /	1300	>
Other Notes:	1) Filter for dissolv lute limited volume sa																

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Sampling Term PD \$ CW PL \$ DW MC \$ 30 Image: Sampling Term PD \$ CW PL \$ DW Metals by 200.8, Total & Bisolvet: 5b, & g, A, A, A, K,	Sampling Date:	3/11/2	070		, ara ĝo,	031		- 97 (CUR					•			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					و و	mr	ģ	: T	- R	FIO	jeur	INUI	JDer		19/2	.0-5	(wer) composites
Image: Mo-MPK X	SAMPLE ID 10-SPA 10-FIL	DATE/TIN COLLECTI 3/11/20 04	IE 2D 3:200 8:30		☆ Dissolved Inorganic Carbon and Dissolved Organic Carbon	🔀 🖂 Metals, total & dissolved (+ Hardness), & Barium (total only)	X Cr+6	🖂 BOD, COD, MBAS, TKN, Ammonia, TOC	🖂 NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	x	🖗 625-CTR, 8270SIM-PAH, 8270SIM-Phenols	х	х	х	⊨ ALK, CLO4, Turb, TDS, TSS, VSS,	1	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-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test NOTES
IO-MPK X </td <td>IO-SIM</td> <td>3/11/20/09</td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	IO-SIM	3/11/20/09				_		<u> </u>									
O-THO X <td>O-MPK</td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td>_ </td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td>	O-MPK				<u> </u>					_					_		
O-OXN $3/11/20$ $09:55$ X <td>O-THO</td> <td></td>	O-THO																
O-HUE $3/11/200920$ X X X X X X X X X X X X X X X X X X X	0-OXN	3/4/0 05	22		+												N. 1 N. 1
elinquished Printed Name <u>W-B-Cavey</u> Signature <u>W-B-CAPEY</u> Affiliation <u>VCWPD</u> Date/Time <u>3-11-20/1306</u> Signature <u>MSE AngulO DCS</u> Signature <u>MSE Date/Time 3-11-20/1300</u>	O-HUE		1		1 1												
Signature <u>W-B-CAREY</u> Affiliation <u>VCWAD</u> Date/Time <u>3-11-20/1306</u> Signature <u>WECZ</u> Date/Time <u>3-11-20/1300</u>																	<u>15, 100</u>
Signature Affiliation Wiecz Date/Time_3 - 11 - 20/1300	-	Signature Affiliation	wr	8 -	<u>ر م</u> م م	FRI				Date	 :/Ti			I		20	1 1300 .
		Signature	UN. WE	ez.		<u>, , , , , , , , , , , , , , , , , , , </u>	<u></u>			4 Date	/Tir	 ne	3	- 11	- 2	0/	1300
ther Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately.	ther Notes:	1) Filter for disso	lved me	tals an	ld pei	fom	n co	nduc	tivit	y 20-	alvse	s im	med	iatel	<u>v</u> .		

n a Marian Artan

Sampling Date: Sampling Team:	3/11/202 WBC	Ν	tura C IPDES DES S	ounty V Stormy tormwa uipmen	Vaters water 1 uter W ut - We	hed Pr Monito et Seas ck Lal	Record OCNOF) rotection District oring Program son (<i>Contract AE17-001</i>) boratories = 2019/20-3 (Wet) Cleaning
	EQUIPMENT		Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES
18.5 L wide neck							Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
	carboy and lid (+as	sembly) or	7				
silicone stopper Blue cube cooler	<u></u>	· · · · · · · · · · · · · · · · · · ·				<u> </u>	
			•	 		<u> </u>	Please place tape or plastic bag over top and note on wrap
Grey bucket	<u>".</u>					<u> </u>	if bottle was cleaned with methanol.
Black bottle bag					6	<u> </u>	
Bottle hamess					l		·
		· · · · · · · · · · · · · · · · · · ·					
Relinquished	Printed Name _ Signature _ Affiliation _	W-B.C U-B.C VCWPD	arey				3-11-20/1300
Received	Printed Name	JOSE P	ngiv	10	DC	5	
	Signature	Us At	~~~~				
	Affiliation 4	WECZ			Date/T	ime	3-11+20/1300
Other Notes:							T,
							Janglim 3/11/20 14:52
		1					

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VENTURA		ect: IN				ories (SID	E 1 of	a <u>ct AE17-001)</u> ⓐ ●) ●t) Grabs (KH 4/21/2020)
Sampling Date:	4-6-2020				Project N	umber: 2019,	/20-3_(\	Wet) Grabs
Sampling Team:	PD, MD EL	\$ DL		_				
		& Grease (EPA 1664A)	Cyanide (ASI M D/511)				uber of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
SAMPLE ID	DATE/TIME COLLECTED	Oil 8	Cyan				Number	NOTES
MO-HUE	4/10/20 0410		1				2	DL/EL
ME-SCR	4620 0945	1	1				2	PDIMD
ME-VR2	4/0/20 0210		1				2	DL/EL
МО-САМ	4620 0745	2	1				2	PDIMD
MO-OJA	4/10/20 0020		1			-	2	PL/EL
MO-MEI	4/6/20 0100		1				2	PL/EL
Mo The			1				2	PD/MD
	PK 4/6/20 0640		1				2	PD/MD
D-1							- 90	
Relinquished		B					-	
		B. wp		uy_	D. (T)	ne_Ч-е	5-30	2/14/0
	,				Date/11		- 20	
Received	Printed Name	sie						
	Signature Affiliation	<u>~</u>	3		Date/Ti	me_4-6	,-20	1410
Other Notes:	Tener bilanke as mile	to be an	alwood	if somplor	have hitent	Winter	on Main and	I B

0008057 Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season (Contract AE17-001) Composites - Weck Laboratories (SIDE 1 of 2019/20-4 (Wet) cleaning (KH 4/21/2020) 4-6-2020 Sampling Date: Project Number: 2019/20-3 (Wet) Composites MD & WBC AD Sampling Team: Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Barium (total only) Be, Cd, Cr, Cu, Fe, Ni, Pb, **Dissolved Inorganic Carbon and Dissolved Organic Carbon** Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics Hardness calc.), AND Na, K 625-CTR, 8270SIM-PAH, 8270SIM-Phenols COD, MBAS, TKN, Ammonia, TOC 8 Cond 608 include alpha- & total & dissolved (+ Hardness), 515.3-Herb 547-Glyphosate, 608-CTR gamma-chlordane TSS, VSS, * Same extraction with Phosphorus-P Total & Dissolved low-level spike for 3 525.2 Reg+507, 525-OPP-LL methods: 625CTR, DRO/ORO (EPA 8015B) CLO4, Turb, TDS, 8270SIM-PAH, & 8270SIM-PHENOLS Number of Bottles Lab to select samples for MS/MSD where extra volume permits (all test Metals, BOD, ALK, DATE/TIME Cr+6 SAMPLE ID COLLECTED NOTES MO-HLE 4/6/20 X X X X X X X X X X X 1130 1 WBC ME-SCR 416120 1000 X X X X X X X X X X X 1 PDIMD ME-VR2 120 0945 X X X X X Х X Х X X X 1 WBC MO-CAM X X X Χ Х X X X X X X 1 PDIMD 20 0735 MO-OJA X X X X X X X X X X 6/20 0815 X 1 WBC MO-MEI X X X X X X X X X X 416/20 0900 X WEC 1 X MO-MPK 41 X X X X X X 6/20 0650 X Х X X 1 POMI × × MO-THO 4620 0840 × PDIME × W.B. CARET Relinquished Printed Name W.B. Carey Signature UCWPD Affiliation 416/20 1410 Date/Time Received Printed Name Signature 4-6-20/1410 Affiliation Date/Time Other Notes: 1) Filter for dissolved metals and perform conductivity analyses immediately. 2) Please do not dilute limited volume samples when enacting priority list (low reporting limits are important). Attachment D Appendix Ventura Countywide Stormwater Quality Page DE - 42 4/6/20 Management Program 2019/20 Annual Report 16:02

VENTUR	RACOUNTY	Eq	uipmen			boratories 0-4 (Wet) cleaning (KH 4/21/2020)					
Sampling Date:	4-6-2020		1			: <u>2019/20-3 (Wet) Cleaning</u>					
Sampling Team:	DL, EL, PD, MD \$	WBC		_	_						
	EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES					
18.5 L wide necl			1 1			Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.					
20 L narrow necl silicone stopper	c carboy and lid (+assembly) or	8		i2 i							
Blue cube cooler		-		7							
Grey bucket				1		Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.					
Black bottle bag				6							
Bottle harness				2							
			-								
Relinquished	Printed Name W-B.	CARE	ť								
	Signature W.B.	carey	-								
	Affiliation UCW	v		Date/Ti	me	4/6/20 - 1410					
Received	Printed Name Louie	S									
	Signature Free	2 5				-)					
	Affiliation DeS			Date/Ti	me	4/6/20 -1410					
Other Notes:											

Sampling Date	e:4/28/2020	Bacteriologic	cal - '		Lab (S	IDE :	l of ∰
Sampling Tea		EY K. HAHS	-	Project Nur	nber:		2019/20-5(Dy) S
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	otal	E. coli (Tray Method - WQ IDEXX)		Number of Rottlas	NOTES
	ME-SCR	4/28/2020 10:00	x	x		1	P
	MO-FIL	09:00		X		1	
	MO-SA	08:15	X	X		1	
	Contra and	N	71 ·				•
	MO-VEN	4/28/2020 11:20	X	X			- DRY
		1/co/200 11.20					
			<u>(</u>)				
Relinquished	Printed Name	KELLY HAHS	-				
	Signature Affiliation	Veripo		ate/Time	4120	1/202	0/12100 PDT
Received	Printed Name	SA/Valle y	1	RARR.	1120	100	
	- Signature	Balacuder	20	2 B	ANA	her.	
	·	Sigle Care and and	1000	1 41 100	111 Alley	nu	

Sampling Date Sampling Team		20 REY K. HAHS	-	Project Ni	umber: 🧲		2019/20-5 (Ory)
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)		Number of Bottles	NOTES
	N						
	ME-VR2	4/30/20 09:30	x	X	~	1	
	MO-OJA	4/30/20 08:10	X	X			a.
	M O -MEI			x			DRY
	MO-HUE	4/30/20 10:15	X	X		1	
Relinquished	Printed Name Signature Affiliation	KELLY HAN Kelly HAN Kelly HAN		Date/Time		30/20	20/10:47
leceived	Printed Name	SALAADE 1	BA	REAC	AN		
	Signature	CALLIN AND					
	Signature Affiliation	P.H. LAD T	1	Date/Time	4.3	0.20	10:50

Sampling Date:		0	Bacteriologic	cal -						1 of 1) 5 (Dry)	CCW
Sampling Team	W.B. CA	REY ,	IC. HATS		_	-	-				
LAB USE ONLY	SAMPLE ID		E/TIME LECTED	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)					Number of Bottles	NOTES
	ME-CC		2/2020 10:30	X	X				f		NOTES
	MO-CAM		11:20	X	X					1	
	MO-MPK	1.11	08.15	Х	X						
	MO-SIM		09:00	X	X				1		
	МО-ТНО		09:50	X	x				1		
linquished	Printed Name	KEL	LY HAH	5				_			
	Signature	16	14th								
	Affiliation	yeu	des -]	Date/	Time	5	/12	120	20/	12:06
eived	Printed Name	SAW	Ador N.	1	BA	ERA	164	EN	1	1	
	Signature		Salvad	ing	. 2	les	B	an	In	these	
	Affiliation	P.HMI	46 1	1	Dale	Time	15	Tin	12	2 1.	2:09

VENTURA	COUNTY		CI						La	bora	tor	ies	(SII			. ▼
Sampling Date: Sampling Team:	_4/28/20 			<u> </u>	H٨	M	J		Pro	ject	Num	iber:				2019/20-5 (Dry
SAMPLE ID	DATE/T COLLEC		Dil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	Section 2015 (Section 2015) Section 2015 (Section 2015) Section 2015 (Section 2015) Section 2015 (Section 2015) Section 2015) Section 2015) Section 2015 (Section 2015) Section 2015) Section 2015) Section 2015 (Section 2015) Section 20150										Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
ME-SCR	4/28/2020	10:00	2	1	2										5	,
Mo nta - Fil Mo nta - Spa		09:00		1	2											DRY
MQ-OXN				1												- 0 > (
	4/28/2020	11:20		1	2											BRY 3 (no oil taxase)
Relinquished	Printed Name	WIU			ß		<u> </u>	RE	¥	L			<u>I</u>			
	Signature Affiliation	Vile VC	lli nl				<u>_</u>	<u>~~~</u>	1	te/Ti	me .	Ч	-24	8-2	01	1335
leceived	Printed Name Signature Affiliation	_sbsi Wec.	ne m2, K		14	54 7- 5	<u>ue</u> 9	2	Dat	te/Ti	me	વ	-28	§ = 2		1335
Other Notes:														CT-T		·

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Jan States	tion District	Decia		NPI	a C DES	oui S Ste	nty` orm	Wat wa	ters ter]	hec Mo	l Pr nite	ote otin	g P	n I rog	ran	
VENTURA CO	UNTY	rioje		ompo									•	DE	10	<u>AE17-001)</u>
Sampling Date:	4/28/20			•									2019		-5	(OM) Composites SCRW
Sampling Team:	W.B.CA		ŧ	k.	H	ال ا	\$	•	,						<u> </u>	
SAMPLE ID MO-SPA MO-FIL		ме ед об: 5:50		X X Dissolved Inorganic Carbon and Dissolved Organic Carbon	🛛 🖂 🖂 Metals, total & dissolved (+ Hardness), & Barium (total only)	X Cr+6	🛛 🕅 🕅 BOD, COD, MBAS, TKN, Ammonia, TOC	t 📘 🖂 🖂 NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	a 🛛 🛪 🛪 Phosphorus-P Total & Dissolved	t 🖂 🖂 🖂 625-CTR, 8270SIM-PAH, 8270SIM-Pbenols *	t 🔛 🖂 🖂 515.3-Herb 547-Glyphosate, 608-CTR	1 🛛 🖂 🖂 525.2 Reg+507, 525-OPP-LL	t 🛛 🖂 🖂 DRO/ORO (EPA 8015B)	t 🛃 🖂 🖂 ALK, CLO4, Turb, TDS, TSS, VSS, Cond	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.), AND Na, K 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test
ME-SCR	4/28/2020	10:0	5	X	x	x	x	х	х	х	X	х	Х	х	1	
MO- VEN	n:	25		X	x	x	x	х	х	х	х	х	X	х	1	
MO-OXN	1 10	.45		X	X	X	X	х	x	х	х	х	x	х	1	- · · ·
)										
	-															
Relinquished Received	Printed Name Signature Affiliation Printed Name	<u> </u>	eli cn	m 1	8	- (Ca		v	e/Ti	me	પ	-2	8-	20	/1335
Other Notes:	Signature Affiliation 1) Filter for diss	Solved n	netals			mc	y		ity aı	nalys		nme	diate	ely.		1335
2) Please do not dilu															mpo	rtant).
														<u>T</u>	L int	num 4/28/20 15:11
	tywide Stormwate Program 2019/20			t		Pa	age D	DE - 4	48						•	3Attachment D Approvix E

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Sampling Date: Sampling Team:	<u>4-28-2</u> w.8-CM	Project: N	NPDES PDES S Equ	Stormv tormwa upmen	water Mo iter Wet S	d Protection District onitoring Program Season (<u>Contract AE17-001</u>) Laboratories 2019/20 - 5(Dy) Cleaning 50 mber:
	EQUIPMENT		Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
18.5 L-wide-neck					, ,	Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
20 L natrow neck silicone stopper	carboy and lid (+a	ssembly) or	5			
Blue cube cooler	, <u> </u>		5			
Grey bucke t						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	HILLIA	~ <u>B.</u>	CAR	<u> </u>	
	Signature Affiliation	Willin VCWPO	n Br	- and		4-28 -20/1335

Received

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	Signature	Willim B. Ca	ug_		
	Affiliation	VCWPD	Date/Time	4-28-20/1335	
red	Printed Name	Jorne Velasquez			
	Signature	- and whappy			
	Affiliation	Weelclubs	Date/Time	4-28-20/1335	
Notor					

Other Notes:

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VENTURA C	DUNTY			G	rab	s - V	₩ec	k L	abo	rato	ries	5 (SI	DE	1 of	1)
ampling Date:	5/1/2 W.B.	<u>92</u> 0			<u>.</u>			P	tojec	t Ñш	mbe	r: <u>201</u>	9/20	-5 (I	Dry) Grabs VRW + HUE
ampling Team:	<u> </u>	CARE	(_	ķ	<u>. H</u>	<u> </u>	łs							<u></u>	
			& Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (EPA 8015B)									ber of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
SAMPLE ID	DATE/3 COLLEC		Oil &	Cyani	GRO									Number	NOTES
ME-VR2	5/1/20		2	1	2									5	· · · · · · · · · · · · · · · · · · ·
			1	.1.	.2						_			4	DRY
MO-OJA	5/1/20	08'19	1	1	2					+				4	
MO-HUE		10:23		1	2						_			4	
				1							1				
												\top	-		
<u></u>			$\left \right $									+-	┼		
	<u> </u>				•	 V		1	<u>. </u>					<u> </u>	J
lelinquished	Printed Name														
	Signature	<u>w.</u>		<u> </u>		in rates	149 1	فو		·		F _1	- 7 /		220
	Affiliation	11	_~~	• .6 (» 		-		,	:/ 1111	^{1e} –	<u>ا ۳ او</u>			1
Received	Printed Name	1-12	ر بر لو	X-c	<u> </u>	<u>~</u>	- U	na	Ac	<u>n</u>					<u></u>
	Signature		. A	$\frac{\gamma}{2}$	2	\sim					-				
	Affiliation	<u>104</u>	C	¥	A	<u>+}}'</u>	>		Date	e/Tin	ne _	5-	-2	e /	1220
Other Notes:															

All states of Protection	Projec	ct: NI	NPI PDI	ta C DES ES S	Cou S Si Stor	nty torr mw	Wa nwa vate	ater r D	she Ma fy ^V	d P onit Wea	rote tori athe	ecti ng] x (<u>(</u>	on Pro <i>Cor</i>	gra Itra	<u>ct AE17-001)</u>
	Elila -	LC	тр	0511	tes ·	- w						•			of 1)
Sampling Date:	5/1/2020 W.B. CARE	<u></u>	1	٢.	112		•	Proj	ect I	Num	ber:	201	9/20)-5 (.	Dry) Composites VRW+HUE
Sampling Team: SAMPLE ID ME-VR2 MO-MEL MO-OJA MO-HUE	DATE/TIME COLLECTED 5/1/2009:20 5/1/2009:20		X X X Dissolved Inorganic Carbon and Dissolved Organic Carbon		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 NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolice	X X X Dissolved	X X X K X 625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	\times \times \times 515.3-Herb 547-Glyphosate, 608-CTR	× × × × 525.2 Reg+507, 525-OPP-LL	x x x	X X X X X ALK, CLO4, Turb, TDS, TSS, VSS, Cond	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.), 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
Relinquished Received Other Notes: 2) Please do not dilu		CCF netals a			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ondu		Dat ity a	e/T	ime ses i	S	- I	ely.	.0 /	122* * 122¢
140	-1-20 / 13:5				~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-						· · · · · · · · · · · · · · · · · · ·

Sampling Date: Sampling Team:	• N	itura C IPDES DES Si Equ	ounty W Stormy tormwa uipmen	Vatersh water N ter Dry t - Wee	tody Record ned Protection District Monitoring Program y Weather (Contract AE ck Laboratories Number: 2019/20-5 (Dry) Clea	
	EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		IOTES
18.5 L wide neck						bag over top and note on wrap
	carboy and lid (+assembly) or	2			Please place tape or plastic	: bag over top and note on wrap
silicone stopper Silicone stoppers		3			if bottle was cleaned with 1	methanol
Blue cube cooler		З				
Grey bucket		3				
Black bottle bag		3				
Bottle harness						
	i					
Relinquished	Printed Name W.B. Cr Signature W.B. Cr Affiliation Vc		· · · · · · · · · · · · · · · · · · ·	Date/T	ime <u>5-1-20/1220</u>	••••••••••••••••••••••••••••••••••••••
Received	Printed Name Heerb	50	nel	107	/	
	Signature D			-		
	Affiliation Weell	AP	<u>、</u> 、 、 、 、	Date/T	ime 5-1-20/1220	\$
Other Notes:	* Allow to air dry (don't rinse) a	after met	hanol step) to avoi	d organics contamination).	
	Record the bottles cleaned with	methano	l			
Ventura Manager	Countywide Stormwater Quality ment Program 2019/20 Annual Report	chr 55	Page DE	E - 52	Atta	achment D Appendix E

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States Annual States	COUNTY] ct: NH	NPI PDE Gral	a Cou DES S S Sto bs - V	unty Storm rmw Veck	water	shed Mo: ry W	Prot nitori 'eathe	ectio ng P er (<u>C</u>	n D rogi <u>onti</u>	ract AE17-001)
Sampling Date:	5/12/2020 W.B. CARE					Project	t Nun	ber: <u>2</u>	019/20	D-5 (I	Dry) Grabs CCW
Sampling Team:	W.B. CARE	۲_	K.	HAF	<u>ts</u>						
		1664A) 511)									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)	GRO (EPA 8015B)							Number of Bottles	NOTES
ME-CC	5/12/2020 10:30						+			5	HOIE5
МО-САМ	11:20	r 1 ·1	2							4	
MO-MRK						-				-4-0	DRY
MO-SIM	09:00	1 1	2				1			4	
MO-THO	09:50	1 1	2							4	
Relinquished		<u>8.</u> 			and the second second	Date/	Time		(2		20 / 1330
Received	Printed Name					Date/			-12-		/ 1330
Other Notes:				· <u>/</u>		f	N		- [2·2		1(5:30 2.1° Fozez

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ALCONTONNO PICTOR	Setion District	Project		IPD DE	a Co ES S St	oui Ste	nty orm nw:	Wa wa atei	ter Di	bec Mo y W	d Pr nite Vea	ote orin the	ctic ig P t (<u>C</u>	on I Prog	gran t <i>rac</i>	n <u><i>rt AE17-001</i>)</u>
Sampling Date:	5/12/20:	20		-					Proj	ect l	Num	ber;	201	9/20)-5 (.	Dry) Composites CCW
Sampling Team:	W.B.		/ Y	⊂. ŀ	1A	HS			,							
SAMPLE ID ME-CC MO-CAM MO-MPK MO-SIM MO-THO	DATE/TIL COLLECT 5/12/1020	ME ED 10'.30 .20 .20	X X X X Dissolved Inorganic Carbon and Dissolved Organic Carbon	X NO3-N, Total Chlorine Residual	X X X only)	X X Cr+6	🔀 🎋 🖂 🖂 BOD, COD, MBAS, TKN, Ammonia, TOC	× × × × NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	× × × × Phosphorus-P Total & Dissolved	🖂 🔻 🖂 🖂 625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	\times \times \times \times 515.3-Herb 547-Glyphosate, 608-CTR	X X X X 525.2 Reg+507, 525-OPP-LL	× × × × × DRO/ORO (EPA 8015B)	× × × × × ALK, CLO4, Turb, TDS, TSS, VSS, Cond	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.), AND Na, K 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test
	5/12/2020 (<u>1:50</u>		\dashv	<u>_</u>	<u></u>		~	Δ	-11		<u>_</u>		<u></u>	1	
			+	+	\dashv			_								
Relinquished Received	Printed Name Signature Affiliation Printed Name	hr. B W-! Voshe	ew	<u>94</u>)				Date	 e/Ti	me			12	-2	\$ / 1330
Other Notes: 2) Please do not dilu	Signature Affiliation 1) Filter for diss	<u>Oisen</u> Wikk olved met	als and	line I per	25 15	n co	ondu	ctivi	ty ar	alys	es in	nme	diate	ly.		
											<u>J</u>	Įm	łm	ne)	S112 70 15:30 3.7°C TOZZZ

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Chain of Custody Record OE1205) Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Dry Weather (Contract AE17-001) Equipment - Weck Laboratories

Sampling Date:

5/12/2020

Project Number: 2019/20-5 (Dry) Cleaning CCW

Sampling Team:

	EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES
18.5 L wide nec	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 nec silicone stopper	k carboy and lid (+assembly) or	4				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Silicone stoppers	3 '					
Blue cube cooler	t	14		4		
Grey bucket	n de la constante de la constan					
Black bottle bag		2		2		
Bottle harness		B		2		
Relinquished	Printed Name L. R.	CARE	Y			
	Printed Name 66.8. Signature 6 8	Cong	-			
	Affiliation VCWP			Date/Ti	me	5-12-20/1330
Received	Printed Name	Jalasy	u2			
	Signature Tom	Morro				
	Affiliation Wheele	Labs	*	Date/Ti	me	5-12-20/1330
Other Notes:	* Allow to air dry (don't rinse)	after meth	nanol step	to avoid	l organic	s contamination).
	Record the bottles cleaned with				<u> </u>	Tempon 5/12/20 15:30
Ventur	a Countywide Stormwater Quality		Page DI	= - 55		ر 10771 کېږ کې

Date received OEI205	ble Rec -2 5-1	2-20		Time	<u> 3:30</u>	V Kit ID#	
Work Order # OE	12052		# of	Samples:	4	Initals: 4	CA
	A		Statu		~	,	
Number of Bottles in COC:	Answer	Yes	No No	N/A	Commer	<u> </u>	
Number of Bottles Received:					Verify that I	the number of conta	iners
					and ID mate	ch COC and Bottles	
ID COC and Bottles Matching							
COC Present		1					
COC properly completed?		174					
Samples received on Ice		<u> </u>		<u> </u>			
Type of Ice (Blue/Wet)	Wet						
Sample Volume sufficient?		N					
Temperature (Below 6°C)	2.1			<u> </u>			
Free Chlorine Tested?	1993	M					
H verification		Ý					
Preservation verification		\times				······································	
/OC Sample Headspace?			\aleph				
Enough holding time for all tests?		Ø					
Discrepancies and Notifications							
escription of problem:			\$	31			
	·m					·····	
Rerson Notified:		Dhogo					
Instructions from client/resolution:						ite/time:	
			<u></u>				
escription of problem:					·		
······································		<u> </u>					
		·					
Person Notified: Instructions from client/resolution:						e/time:	
	- <u> </u>					······································	
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	DUNTY	ject: 🛙		IPD DE	a Ca DES S St	oun Sto om	nty V Orm nwa	Wat wat ater ck	ter l Dr Lat	hed Mor y W	Pr nito 7eat ator	oteo orin her ies	ctio g P (<u>C</u> (SII	n I tog <u>ont</u> DE	ган <i>tасі</i> 1 о	n <u><i>t AE17-001</i>)</u> f 1)
Sampling Date: Sampling Team:	<u>5-13-20</u> W-B-CARE	¥	· · · ·	- <u></u>	<u></u>				Proj	ect f	4um	ber	201	<i>¥</i> /20	5 (J	Dry) Composites CCW Part 2
SAMPLE ID MO-SIM	DATE/TIME COLLECTED 3-i3-20/08		M Dissolved Inorganic Carbon and Dissolved Organic Carbon	M Dissolved Inorganic Carbon and Dissolved Organic Carbon	► Metals, total & dissolved (+ Hardness), & Barium (total only)	× Cr+6		⋈ NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	🛛 🖂 Phosphorus-P Total & Dissolved	× 625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	🛛 🖂 515.3-Herb 547-Glyphosate, 608-CTR	× 525,2 Reg+507, 525-OPP-LL	🔰 🛛 🖂 DRO/ORO (EPA 8015B)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	I 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.), AND Na, K 608 include alpha- & gamma-chiordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods)
		+						-				<u> </u>	-			
Relinquished Received	•	U-B W-B Uci		Co	AE rel S		un S		<u>~</u>	e/T.		5		3 -	20	/1225
Other Notes:	1) Filter for dissolve															· · · · · · · · · · · · · · · · · · ·
2) Please do not dilu	te limited volume sa	nples v	vhen	епас	ting	pric	ority	list	low	repo	ortin	g lin	uts a	te it	ក្រកា	rtant).

Hacksach 5-13-20

5/11/20 Page DE-57 T-0222

Ventusa Control Ventus Stormwater Quality Management Program 2019/20 Annual Report

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and Prov	ST. D				•	Record OE13047
AN CAR			-			rotection District oring Program
						ther (Contract AE17-001)
VENTURA	COUNTY	Equ	uipmen	t - We	ck La	boratories
Sampling Date:	5-13-20			Project]	Number	r: 2019/20-5 (Dry) Cleaning CCW Part 2
Sampling Team:	W.B. CAREY				<u></u>	
	·····				1	
		Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		
		an v	Clean with methanol*	acti		
	EQUIPMENT	Cle	Clea	°N N		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 natrow neck silicone stopper	carboy and lid (+assembly) or	ł				Piezse place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Silicone stoppers						
Blue cube cooler		*		1	[
Grey bucket						· · · · · · · · · · · · · · · · · · ·
Black bottle bag		3		1	1	
Bottle harness		<u></u>				
					<u> </u>	
· · · · · · · · · · · · · · · · · · ·					<u>†</u>	
Relinquished	Printed Name _ &- &- C.	AREY	.d	·	L	
	Signature W.B. (arey				
	Affiliation Vew	69		Date/T	ime	5-13-20/1225
Received	Printed Name	45	aut	<u>.</u>		
	Signature		· · · · · · · · · · · · · · · · · · ·			
	Affiliation Weck	LAB	5	Date/T	ime	5-13-20/12:25
Other Notes:	* Allow to zit dry (don't rinse)	after metl	nanol step	to avoi	d organ	ics contamination).
	Record the bottles cleaned with					· · · · · · · · · · · · · · · · · · ·
Į.	Joert Jarch 5-13-20					
Vonture Origit	5-13-20	'n	age DE - 4	58		Attachment D Appendix F

VENI	URACOUNTY	NPDES Sto Major Out	fall	Dry V	Weath	er Mo	nitori	
Sampling Date		Bacter	1010	-	l - VCI ole Even			
Sampling Tear			-	F			1 2020	
	1		T	TT	TT	-		
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	l. coli (Tray Method - WQ IDEXX)			Number of Bottles	
ONLI	Gamarile-1	COLLECTED	H	E.		-	Z	NOTES
1	Fillmore-1	al las Was		-	++		-	MO-FIL
	Moorpark-1	8/10/2000 11:00	×	4	+		-	MO-FIL
	Ojai-6	8/10/2020 12:15			++	+		
	Oxnard-2	8/10/2020 (2.1)		7		+	+	DRY-OXN2
	Port Hueneme-3	8/10/2020 1410		×			+	DRY-HUE3
	Santa Paula-2-	5/0/222 1910	×	4	+	+	+	DRY-SPA2
	Simi Valley-1	1				++	-	MO_SIM
	Thousand Oaks 1	1	-	-		1	-	MO-THO
	Linincorporated-4		-	-		++	-	DRY-UNIA-
	Ventura-L	8/10/2020 1320					+	MEVEN DRY-VENS
			1.1	1		11	11	Diey - VEIU
elinquished ي	Printed Name	KELLY HA	H	5		_	_	
,	Signature	10/14/ds		_	_		-	
	Affiliation	VOOPD //	1	Date/7	Гіте	8/15	20	20 14:52
Received	Printed Name	SALVAROR YO	1	SAR	RAG	the		
	Signature	Balada	26	R	AD	ain	intia	æ
	Affiliation	Bitt-LAB /	TA	Date//	ime	5	8/	120@14:52

ampling Date: ampling Team		10	tmw fall]	vater Dry V ogical	Monitori	ng Pro Aonito A Lab	gr rir	am
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	Camarillo-1	8/11/2020 0,200		×			-	MO-CAM
-	Fellmore I	distance of are						MO-FIL
	Moorpark-2	8/11/2020 0845	×	×			1	HO-MPHE DRY - MPICZ
	Ojai-1		_	_				MO-OJA-
	Oxnard 1			_	##	++		MO-OXN
	Port Hoeneme-3			_			1	DRY HUE3
	Santa Paula-2	A	-	_		+	1	DRY SPA2-
	Simi Valley-1	8/11/2020 0920	×	×			1	MO-SIM
	Thousand Oaks-1	10:35	x	×			<u> </u>	MO-THO
	Unincorporated-4	V 10:00		×			-	DRY-UNI4
	Ventura-1		-				_	MO VEN
inquished	Printed Name	KELL	1	U	AHS	- <u> </u>		
1	Signature	+11. 160	r				-	
	Affiliation	154100	1	Date /*	Fime 8	11/20	, >	0/11:41
		Selicit d	2	Dait		MICO/	2	
eived	Printed Name	SAWAAGK J	4	90	State	HU	-	-
	Signature	- Salwadog	2	1:	2U	Me	4	low
	Affiliation	_Pettistp	11	Dage/	ime	E H	P	

Sampling Date: 9 18/2020 Sample Event: DRY 2020 Sampling Team: W.B. CAREY, K.HAHS Image: Constraint of the second	
TAB rise Date/Lime Number of Bottles Number of Bottles	
	NOTES
	-SPA2
elinquished Printed Name KELLY HAHS Signature Collected	
Affiliation VEWPD Date/Time 8/18/2020	10:06
ceived Printed Name SALVA der Y. BARRA 64	
Signature Adurados Achariados	
	0 10:06
her Notes: 1:10. 1:100. and 1:1000 dilutions	

Ventura Countywide Stormwater Quality Management Program 2019/20 Annual Report

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Sampling Date: Sampling Team:		Ventura Co NPDES Major (Storm Storm Outfall Grabs - ract No	water I Dry W Weck o. AE1' Sample	ned Pro Monito Veather Labora 7-001 N	otectio ring P Moni atories Iod. N	n D rog tori Io. 4	ram ng
SAMI	PLE ID	DATE/TIME COLLECTED	Total Hardness	TOC	Dissolved Metals by 200.8 (Lead, Zinc, Copper)		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.)
Fillmore-1			A	X	X		ø	
Mariphila			X	X				
Diainterror								
Lord Perchances			X	_X	N			
Santa Paula- La		8/18/2020 0805	X	X	X		4	
Thousance Oaks-1							\square	
Linnarponnee			Å	X	THE STREET			
denomina 1				X				
Relinquished	Printed Name	W.B. CAREY						
					-			
	Signature Affiliation	N.B. Carey VCWPD	- 	Date/'1'i		2 10.		142
	Animation			1)alle/ 11	ine <u> </u>	2		
Received	Printed Name	- Carlo	z A	LA J	NV/	\mathcal{O}_{-}		
	Signature	Caro		<u>e_</u>	<u> </u>		¢	<u> </u>
	Affiliation	WECK		Date/Ti	me 8	1-19	-21	1 148
Other Notes:	$-\omega$	e Ce		~	,	8/	1 19	120-353
	ountywide Stormwa ent Program 2019/2		Page	DE - 62	^`~)	8/19 To	7/2 72	Attachment D Appendix E