

2011-2012 Permit Year

Ventura Countywide Stormwater Quality Management Program Annual Report **Attachment E:** Water Quality Monitoring Report Appendices A through E

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

December 15, 2012

Attachment E: Water Quality Monitoring Report Appendices

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Appendix A: Major Outfall Station Fact Sheets

Camarillo

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







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

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

Fillmore

Waterbody: North Fillmore Drain (tributary to Sespe Creek)

Location: 75 yds. southwest of Old Telegraph Rd. (34°24'16.51"N, 118°55'50.47"W) Pros: Some portion of vegetation could be cleared by City of Fillmore Cons: Potential for vandalism Outstanding Site Selection Tasks: None Other Potential Sites: C Street Drain and Central

Ave. Drain **Dry Season Flow Potential:** Likely intermittent year-round flow due to urban runoff







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

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

Meiners Oaks (Unincorporated)

Waterbody: Happy Valley Drain (tributary to Ventura River)

Location: Southwest of Lomita Rd. and Rice Rd. intersection (34°26'43.98"N, 119°17'25.18"W)

Pros: Good control, good access, existing stream flow gauge

Dry Season Flow Potential: Unknown at end of rainy season; unlikely later in summer







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

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

Moorpark

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







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

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

<u>Ojai</u>

Waterbody: Fox Canyon Barranca (tributary to San Antonio Creek)
Location: Concrete box channel upstream Ojai Valley Athletic Club and downstream pedestrian walkway (34°26'41.25"N, 119°14'28.43"W)
Pros: Numerous bridges to sample from, located behind VCWPD gate, likely well-defined rating table
Cons: Some potential for vandalism

Outstanding Site Selection Tasks: Work with VCWPD O&M to ensure enclosure doesn't interfere with maintenance activities

Other Potential Sites: Downstream where Stewart Canyon crosses beneath Ventura St. (bioassessment #8) **Dry Season Flow Potential:** Likely intermittent yearround flow due to urban runoff







Entire Watershed

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

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

Oxnard

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







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

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

Port Hueneme

Waterbody: Hueneme Drain (tributary to Pacific Ocean)

Location: Pump Station 300 yds. downstream Surfside Dr. (34°8'26.91"N, 119°11'17.58"W) Pros: Grass-covered sides fairly stable Cons: Lots of activity nearby, high potential for

vandalism, stagnant water

Outstanding Site Selection Tasks: Verify positive flow

Other Potential Sites: At Surfside Rd. at lower end of Bubbling Springs Park

Dry Season Flow Potential: Likely year-round flow due to urban runoff and groundwater contribution







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

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

Santa Paula

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







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

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

Simi Valley

Waterbody: Bus Canyon Drain (tributary to Arroyo Simi)

Location: North of intersection at 5th St. and Los Angeles Ave. (34°16'18.59"N, 118°47'1.51"W) Pros: Likely well-defined rating table, located behind VCWPD gate Cons: Pedestrian traffic on levee nearby Outstanding Site Selection Tasks: Assess impacts of large groundwater discharge upstream, move sampling location shown on watershed map Other Potential Sites: Upstream at 5th and Ventura Ave.

Dry Season Flow Potential: Likely year round flow due to urban runoff and groundwater discharge upstream







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

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

Thousand Oaks

Waterbody: North Fork Arroyo Conejo (tributary to Conejo Creek)

Location: Hill Canyon WWTP sampling location R-1(34°12'49.16"N, 118°55'16.24"W)

Pros: Very secure, helpful staff onsite, fairly welldefined channel, accessible via concrete stairs **Cons:** Late-night access to WWTP could present problem

Outstanding Site Selection Tasks: None Other Potential Sites: None

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







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

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

<u>Ventura</u>

Waterbody: Moon Ditch (tributary to Santa Clara River)

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







Land Use	A 2702	% of Total Watershad
	Acres	4 70/
Agriculture	007.0	4./%
Cemeteries	72.6	0.5%
Com_Indus. Mix	95.4	0.7%
Commercial	1402.9	10.0%
Extraction	39.2	0.3%
Facility	303.8	2.2%
Industrial_1	90.5	0.6%
Industrial_3	619.6	4.5%
Military_2	3.6	0.0%
No Info Given	285.7	2.1%
Recreation	516.3	3.7%
Res.1	361.1	2.6%
Res.2	924.0	6.6%
Res.3	5209.6	37.2%
Res.4	72.4	0.5%
Res.5	2.8	0.0%
Schools	495.8	3.6%
Transportation	570.0	4.1%
Under Construction	73.7	0.5%
Utilities	125.4	0.9%
Vacant Undifferentiated	2018.1	14.4%
Water	61.5	0.4%
Totals	14011.6	100.0%

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

Appendix B. Event Hydrographs











ME-SCR 2011/12 NPDES Event #1 (Wet)



ME-SCR 2011/12 NPDES Event #2 (Wet)



ME-SCR 2011/12 NPDES Event #3 (Wet)
















Fillmore-1 2011/12 NPDES Event #1 (Wet)



















Moorpark-1 2011/12 NPDES Event #1 (Wet)





















Port Hueneme-1 2011/12 NPDES Event #3 (Wet)
























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

<u>Land Use Data</u>

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.

		0303)
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	
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
-	· · · · · · · · · · · · · · · · · · ·	

Table 1 Land Uses In NPDES Database (Assess

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

	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

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

Ventura Watershed



Meiners Oaks Happy Valley Watershed



0 282.5 525 1,050 1,575 2,100 2,825 3,150 3,875 4,200 4,725 5,250

Figure 3

Ventura Countywide Stormwater Quality Management Program Annual Report 2011-2012

Ojai Fox Watershed



Camarillo Hills Drain Watershed



0 455 910 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

Figure 6

Ventura Countywide Stormwater Quality Management Program Annual Report 2011-2012 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

Figure 8

Ventura Countywide Stormwater Quality Management Program Annual Report 2011-2012

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



0 600 1,200 2,400 3,600 4,800 6,000 7,200 8,400 9,600 10,800 12,000

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

Forecasted Rainfall Amounts: 0.5" across the county

Actual Rainfall Amounts: ~ 0.5" to ~ 1.5" across the county

Sampling Durations (to nearest 0.5 hours):

ME-CC = 13.0 hrs.	ME-SCR = 23.0 hrs.	ME-VR2 = 25.0 hrs.
MO-CAM = 5.5 hrs.	MO-FIL = 23.0 hrs.	MO-HUE = 12.5 hrs.
MO-MEI = 5.5 hrs.	MO-MPK = 6.5 hrs.	MO-OJA = 2.0 hrs.
MO-OXN = 4.5 hrs.	MO-SIM = 7.0 hrs.	MO-SPA = 5.5 hrs.
MO-THO = 3.0 hrs.	MO-VEN = 4.0 hrs.	

Storm Control: Bill Carey

Sampling Crew (during storm):

Team One (VR2/OJA/MEI/VEN(&MD-1)): Kelly Hahs & Chris Stephens Team Two (CC/SCR/CAM/HUE/OXN): Arne Anselm & Pete Chartier (VRSD) Team Three (FIL/SPA/MPK/SIM/THO): David Thomas (VRSD) & Jason Siegert (VRSD)

Sampling Crew (post-storm sample pickup):

10/05/2011 (CAM/OXN/SPA/VEN): Kelly Hahs & Chris Stephens (VRSD) 10/06/2011 (VR2/FIL/MEI/OJA/OXN): Kelly Hahs & Jason Siegert (VRSD) 10/06/2011 (CC/SCR/MPK/SIM/THO): Bill Carey & David Thomas (VRSD)

NPDES ~ MASS EMISSION

ME-CC Calleguas Creek (CSUCI Bridge)

* 10/04/11 @ 11:10 a.m. PDT. [KH]

Forecast 0.5" rainfall \rightarrow 2105 set remotely to 600,000 cf pacing.

4230: 10:07 PST, 1.123', 1 cfs. Outside staff ~1.10'

<u>6712:</u> Fridge at 6° C, turned cooler. Flushed line with 2L distilled water. Pump tubing count 43,961.Program flow paced; pacing every 1 pulse, 24 hour max run time. Run program: "Program disabled". Installed one 18.5 L labeled bottle, lid off. Left grab bottles onsite.

* <u>10/05/11 @ 10:25 a.m. PDT. [AEA,PC]</u>

<u>4230:</u> 09:26 PST, 1.291', 11 cfs

6712: "Sample 6 after 1 pulse." Bottle 2-3" full. Fridge at 4° C.

Grab samples: Taken at check structure @ 10:30 a.m. PDT.

Field Measurements:	Temperature = 18.4° C	pH = 7.60
DO (%) = 71.0	Conductivity = 1170 uS	Salinity = 0.7 ppt
DO(mg/L) = 6.80	Specific Conductance = 1320 uS	

* 10/06/11 @ 09:55 a.m. PDT. [WBC,DT]

4230: 08:55 PST, 1.311', 13 cfs. Outside staff ~ 1.30'.

<u>6712:</u> "Program: Flow paced is done." Bottle full. Flushed line with 2 L distilled water. Pump tubing count 411,949. Turned fridge off, disconnected fuse, and left lid open. Viewed 6712 report, first 2 samples 4 minutes apart with no errors. [Later determined that 4230 level fluctuated around the enable threshold causing the sampler to repeatedly enable and disable and consequently pulled samples each time it was enabled. Changed the hysteresis to 0.03' to prevent future occurrences.] Composite samples: Pulled at 09:55 a.m. PDT.

ME-SCR Santa Clara River (Freeman Diversion)

* 10/04/11 @ 16:05 p.m. PDT. [KH]

Forecast 0.5" rainfall.

4210: 14:58 p.m. PST, -0.002', 0 cfs

<u>6712:</u> Warning message: "Replace internal battery before 21-Sept-11" will not affect sampling. Refrigerator at 2° C. Flushed line with 2L distilled water. Pump tubing count 41,346. Program time paced 24 hours. Run program: "Program disabled". Installed one 18.5 L labeled bottle, lid off. Left grab bottles onsite.

* 10/05/11 @ 12:10 p.m. PDT. [AEA,PC]

Grab samples: Bacteria samples taken at @ 12:10 p.m. PDT and delivered to the lab to meet the hold time for the earliest collected sample. The sampling crew then returned to the site to collect the toxicity and chemistry grab samples.

* 10/05/11 @ 13:15 p.m. PDT. [AEA,PC]

<u>6712:</u> "Sample 14 in 00:35:20. Errors have occurred during program." Bottle 5" full. Fridge at 0° C.

Grab samples: Toxicity and chemistry grabs taken at @ 13:00 p.m. PDT.

Field Measurements:	Temperature = 16.6° C	pH = 7.50
DO (%) = 65.0	Conductivity = 829 uS	Salinity = 0.5 ppt
DO(mg/L) = 6.40	Specific Conductance = 984 uS	

* 10/06/11 @ 11:00 a.m. PDT. [WBC,DT]

<u>4210:</u> 0.051'

<u>6712:</u> "Program: time paced is done. Errors have occurred during program." Bottle ¼ full due to UWCD turning out water away from diversion canal. Flush line with 2L distilled water. Pump tubing count 173,138.

Composite samples: Pulled at 11:00 a.m. PDT.

<u>Notes:</u> Priority list was initiated after discussion with Arne Anselm (WPD) and Hai Van Nguyen (Weck Laboratories, Inc.) due to limited composite volume.

ME-VR2 Ventura River (Ojai Valley Sanitary District)

* 10/04/11 @ 08:47 a.m. PDT. [DT]

Forecast 0.5" rainfall \rightarrow 40,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 07:48 PST, 2.208', 2 cfs. Outside staff 2.208'.

<u>6712:</u> Fridge at 1° C. Flushed line with 2L distilled water. Pump tubing count 40,921. Program flow paced; pacing every 40 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

* 10/04/11 @ 17:02 p.m. PDT. [WBC-remote]

2105: Set enable trigger to 2.35'.

* 10/05/11 @ 08:30 a.m. PDT. [WBC-remote]

2105: Set enable trigger to 2.25'.

* 10/05/11 @ 09:45 a.m. PDT. [KH,CS]

4230: 08:51 PST, 2.358', 4 cfs

<u>6712:</u> "Program: Flow paced is done" but only one sample was taken. Reran program but sampler went to "Sample 1 after 40 pulses" without taking a sample. Storm control remotely disabled and re-enabled sampler and set pacing to 20,000 cf by setting 2105 pacing to 500 cf. Sampler took first sample.

Grab samples: Taken in river near composite inlet at 10:05 a.m. PDT.

Field Measurements:Temperature = 16.5° CpH = 7.25DO (%) = 60.3Conductivity = 957 uSSalinity = 0.6 pptDO(mg/L) = 5.82Specific Conductance = 1164 uS

* 10/06/11 @ 10:05 a.m. PDT. [KH,JS]

<u>4230:</u> 09:03 PST, 2.355', 4 cfs. Outside staff ~ 2.32' <u>6712:</u> Fridge at 4° C. "Program: Flow paced is done". Bottle full ~ 16L. Flushed line with 2 L distilled water. Pump tubing count 247,991. Turned 6712 off. **Composite samples:** Pulled at 10:05 a.m. PDT.

NPDES ~ MAJOR OUTFALLS

MO-CAM Camarillo (Camarillo Hills Drain)

* 10/04/11 @ 12:07 p.m. PDT. [KH]

Forecast 0.5" rainfall \rightarrow 2105 set remotely to 10,000 cf pacing (should have been 1,000 cf).

4230: 11:08 PST, 0.031', 10 cfs

<u>6712:</u> Fridge at 2° C. Flushed line with 2L distilled water. Pump tubing count 18,335. Program flow paced; pacing every 30 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

* 10/05/11 @ 06:51 a.m. PDT. [WBC]

<u>2105:</u> Pacing was not functioning properly, determined that 2105 was set to 10,000 cf rather than 1,000 cf, repaired.

* 10/05/11 @ 7:45 a.m. PDT. [AEA,PC]

<u>4230:</u> 0.354', 53 cfs. Outside staff ~ 0.25' <u>6712:</u> "Sample 6 after 8 pulses." Bottle ~ 3" full. Fridge at 2.5° C. **Grab samples:** Taken at 07:45 a.m. PDT.

Field Measurements: Temperature = 17.1° C pH = 7.42

DO (%) = Not RecordedConductivity = 76.8 uSSalinity = Not RecordedDO(mg/L) = 9.10Specific Conductance = 90.4 uS

* 10/05/11 @ 12:20 p.m. PDT. [KH,CS]

<u>4230:</u> 11:20 PST, 0.417', 65 cfs

<u>6712:</u> "Program: Flow paced is done". Bottle full. Flushed line with 2 L distilled water. Pump tubing count 106,471. Turned 6712 off. **Composite samples:** Pulled 12:20 p.m. PDT.

MO-FIL Fillmore (North Fillmore Drain)

* <u>10/04/11 @ 12:05 p.m. PDT. [DT]</u>

Forecast 0.5" rainfall

4250: 11:03:35 PST, 2.910', 9.60 cfs, 0.22 ft/sec (velocity sensor is in error)

<u>6712:</u> Fridge at 7° C. Flushed line with 2L distilled water. Run 24 hour time-paced program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

* 10/05/11 @ 07:06 a.m. PDT. [DT,JS]

 $\underline{4250:}$ 06:04 PST, 3.487', 0.19 ft/sec, 9.94 cfs (rating is in error) $\underline{6712:}$ "Sample 2 in 00:16:13". Bottle 500 ml. Fridge at 3° C.**Grab samples:** Taken at 07:15 a.m. PDT.Field Measurements:
Conductivity = 783 uSpH = 7.2
Salinity = 0.4 pptDO (%) = 66.1Conductivity = 783 uSSalinity = 0.4 pptDO(mg/L) = 6.26Specific Conductance = 888 uSNotes:Sheen observed, fuel odor.

* 10/06/11 @ 08:00 a.m. PDT. [KH,JS]

<u>4250:</u> 06:51 PST, 3.015', 7.24 cfs (rating is in error) <u>6712:</u> "Program: time paced is done". Fridge at 4° C. Bottle full. Flushed line with 2 L distilled water. Pump tubing count 180,063.

Composite samples: Pulled at 08:00 a.m. PST.

MO-MEI Meiners Oaks (Happy Valley Drain)

* 10/04/11 @ 09:45 a.m. PDT. [DT]

Forecast 0.5" rainfall \rightarrow 3,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 08:41, 0.081', 1 cfs (no flow in channel)

<u>6712:</u> Fridge at 5° C. Flushed line with 2L distilled water. Pump tubing count 26,872. Program flow paced; pacing every 3 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

* 10/05/11 @ 07:40 a.m. PDT. [KH,CS]

<u>4230:</u> 06:38 PST, 0.191', 7 cfs. Outside staff ~ 0.19'

<u>6712:</u> Watched Sample 10, volume good. "Sample 11 after 3 pulses. Errors have occurred during program." Bottle ~ 2-3L.

<u>Notes:</u> Removed leaves from around intake strainer and ~ 10 meters upstream. **Grab samples:** Taken at 08:00 a.m. PDT.

Field Measurements:	Temperature = 16.0° C	pH = 8.03
DO (%) = 109.0	Conductivity = 174.5 uS	Salinity = 0.1 ppt
DO(mg/L) = 10.57	Specific Conductance = 209.0	uS

* 10/05/11 @ 10:50 a.m. PDT. [KH,CS]

4230: 09:49 PST, 0.161', 5 cfs.

6712: Program done but only took 32 samples. Several samples had no liquid detected so bottle ~ 11 L. Took manual 6712 grab sample and then reprogrammed for 6 more samples "Sample 1 after 3 pulses."

* 10/06/11 @ 09:30 a.m. PDT. [KH,JS]

4230: 08:21 PST, 0.081', 1 cfs

<u>6712:</u> "Program: Flow paced is done." Fridge at 4° C. Flushed line with 2 L distilled water. Pump tubing count 106,362. Raised fridge temp for non-sampling period. **Composite samples:** Pulled at 09:30 a.m. PDT.

<u>Notes:</u> Measured high water mark in stilling well, not easily measured but estimated at 0.4', later determined to have been insufficient flow to create a high water mark in the stilling well. Stilling well door was freshly painted – paint still tacky.

MO-MPK Moorpark (Gabbert Canyon Drain)

* <u>10/04/11 @ 09:20 a.m. PDT. [KH]</u>

Forecast 0.5" rainfall \rightarrow 3,000 cf pacing (2105 set remotely to 1,000 cf pacing).

4230: 08:21 PST, 0.075', 0.2 cfs

<u>6712:</u> Fridge at 3° C. Flushed line with 2L distilled water. Pump tubing count 21,832. Program flow paced; pacing every 3 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

<u>Notes:</u> Marked chalk line inside reinforced concrete pipe (RCP) upstream and on both sides of channel near sampling house.

* 10/05/11 @ 08:15 a.m. PDT. [DT,JS]

<u>4230:</u> 07:13 PST, 0.168', 2.2 cfs

6712: "Sample 5 after 1 pulse". Bottle volume good.

Grab samples: Taken at 08:30 a.m. PDT.

Field Measurements:Temperature = 17.0° CpH = 7.60DO (%) = 70.6Conductivity = 306.8 uSSalinity = 0.2 ppt

DO(mg/L) = 6.76 Specific Conductance = 352.3 uS

<u>Notes:</u> No flow from upper or lower RCP from Edison property to have analyzed for pentachlorophenol (EPA 515.3).

* 10/05/11 @ 13:00 p.m. PDT. [DT,JS]

Edison grab samples (for pentachlorophenol analysis):

Edison RC Pipe at MPK – Lower = 13:15 p.m. PDT Edison RC Pipe at MPK – Upper = 13:25 p.m. PDT MO-MPK Upstream at RR = 13:20 p.m. PDT

* 10/06/11 @ 07:50 a.m. PDT. [WBC,DT]

<u>4230:</u> 0.073', 0.2 cfs

6712: Fridge at 4° C. "Program disabled". Bottle is full. Flushed line with 2 L distilled water. Pump tubing count 123,129.

Composite samples: Pulled at 7:50 a.m. PDT.

MO-OJA Ojai (Fox Canyon Barranca)

* 10/04/11 @ 10:25 a.m. PDT. [DFT]

Forecast 0.5" rainfall \rightarrow 3,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 09:22 PST, -0.009', 0 cfs

<u>6712:</u> Fridge at 1° C. Flushed line with 2L distilled water. Pump tubing count 19,867. Program flow paced; pacing every 3 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

Notes: Prepared mud line under bridge for high water mark.

* 10/05/11 @ 08:30 a.m. PDT. [KH,CS]

<u>4230:</u> 07:30 PST, 0.069' \rightarrow 07:31 PST, 0.115', 6 cfs (removed palm fronds from channel that were preventing flow from reaching bubbler and intake).

<u>6712:</u> "Program disabled". One sample in bottle. Watched sample 2, volume good. "Sample 3 after 1 pulses."

Grab samples: Taken at 09:00 a.m. PDT.

Field Measurements:Temperature = 16.0° CpH = 7.48DO (%) = 98.4Conductivity = 84.3 uSSalinity = 0.1 pptDO(mg/L) = 10.60Specific Conductance = 102.9 uS

* 10/06/11 @ 08:55 a.m. PDT. [KH,JS]

<u>4230:</u> 07:51 PST, -0.008', 0 cfs

<u>6712:</u> Fridge at 3° C. "Program: Flow paced is done". Bottle ~ 12L. Flushed line with 2 L distilled water. Pump tubing count 70,982. Turned 6712 off.

Composite samples: Pulled at 08:55 a.m. PDT.

Notes: High water mark ~0.25' inside curve and 0.3' outside curve.

MO-OXN Oxnard (El Rio Drain)

* 10/04/11 @ 13:04 p.m. PDT. [DT]

Forecast 0.5" rainfall \rightarrow 14,000 cf pacing (2105 set remotely to 1,000 cf pacing). 4230: 12:03 PDT, 0.108', 0.2 cfs

<u>6712:</u> Fridge at 7° C. Flushed line with 2L distilled water. Program flow paced; pacing every 14 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

* 10/05/11 @ 06:55 a.m. PDT. [AEA,PC]

<u>4230:</u> 05:55 PST, 0.736' [o/s 0.8'], 13.2 cfs

6712: Fridge at 3° C. Bottle 2-3" full. "Sample 5 after 8 pulses."

Grab samples: Taken at 06:55 a.m. PDT.

Field Measurements:	Temperature = 17.8° C	pH = 7.13
DO (%) = 72.0	Conductivity = 242 uS	Salinity = Not recorded
DO(mg/L) = 6.98	Specific Conductance = Not reco	rded

* 10/05/11 @ 14:05 p.m. PDT. [KH,JS]

<u>4230:</u> 13:05 PST, 0.573', 8.4 cfs

<u>6712:</u> "Program: Flow paced is done". Bottle full. Flushed line with 2 L distilled water. Pump tubing count 110,376.

Composite samples: Pulled at 14:05 p.m. PDT.

MO-HUE Port Hueneme (Hueneme Drain)

* 10/04/11 @ 13:53 a.m. PDT. [DT]

Forecast 0.5" rainfall

<u>6712:</u> Fridge at 7° C. Flushed line with 2L distilled water. Pump tubing count 27,614. Run 24 hour time-paced program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

* 10/05/11 @ 09:15 a.m. PDT. [AEA,PC]

<u>6712:</u> Fridge at 4° C. "Sample 8 in 12:09:00". Bottle 3" full. **Grab samples:** Taken at 09:15 a.m. PDT.

Field Measurements:

DO (%) = 58.1 DO(mg/L) = 5.30 <u>Notes:</u> Pumps on. Temperature = 17.2° C p⊢ Conductivity = 1410 uS Sa Specific Conductance = 1678 uS

pH = 7.50 Salinity = Not recorded

* 10/06/11 @ 11:05 a.m. PDT. [KH,JS]

<u>6712:</u> Fridge at 2° C. "Program disabled." Stopped program. Bottle ~9L full. Flushed line with 2 L distilled water. Pump tubing count 113,466. Turned 6712 off. **Composite samples:** Pulled at 11:05 a.m. PDT.

MO-SIM Simi Valley (Bus Canyon Drain)

* 10/04/11 @ 08:40 a.m. PDT. [KH]

Forecast 0.5" rainfall \rightarrow 16,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 07:37 PST, 0.138', 2 cfs [outside staff is out of communication with water] <u>6712:</u> Fridge at 6° C, turned colder. Flushed line with 2L distilled water. Program flow paced; pacing every 16 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

Notes: Marked east wall under bridge with chalk for high water line.

* 10/05/11 @ 09:11 a.m. PDT. [DT,JS]

<u>4230:</u> 08:12 PST, 0.208', 5 cfs

<u>6712:</u> "Program: Flow paced is done." Bottle only 1.5-2". Reprogram 6712 per WBC instructions at 09:40 am PDT. Liquid detector error so stopped program, reset pump tube, and restarted program at 09:42 PDT. "Program disabled".

Grab samples: Taken at 09:15 a.m. PDT

Field Measurements:	Temperature = 16.7° C	pH = 6.90
DO (%) = 53.4	Conductivity = 800 uS	Salinity = 0.5 ppt
DO(mg/L) = 4.93	Specific Conductance = 939 uS	

* 10/06/11 @ 08:30 a.m. PDT. [WBC,DT]

<u>4230:</u> 0.139', 2 cfs

<u>6712:</u> Fridge at 4° C. "Program disabled. Errors have occurred during this program". No liquid detected at sample 1 and 28. Bottle full. Flushed line with 2 L distilled water. Pump tubing count 88,705.

Composite samples: Pulled at 08:30 a.m. PDT.

MO-SPA Santa Paula (11th Street Drain)

* <u>10/04/11 @ 11:24 a.m. PDT. [DT]</u>

Forecast 0.5" rainfall \rightarrow 4,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4250:</u> 10:22, 0.018', 0 cfs

<u>6712:</u> Fridge at -2° C, turned one click warmer. Flushed line with 2L distilled water. Pump tubing count 41,265. Program flow paced; pacing every 4 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

* 10/05/11 @ 06:14 a.m. PDT. [DT,JS]

<u>4250:</u> 0.400', 4.09 cfs, 6.38 ft/sec <u>6712:</u> "Sample 4 after 1 pulse." Bottle ~ 1" full. **Grab samples:** Taken at 06:15 a.m. PDT. Field Measurements:Temperature = 17.6° CpH = 7.30DO (%) = 76.3Conductivity = 288.5 uSSalinity = 0.1 pptDO(mg/L) = 7.42Specific Conductance = 332.5 uSNotes:Water is coke color with no odor. Foam at outfall.4250:05:39 PST, 0.508° , 5.59 cfs, 6.02 ft/sec6712:"Sample 6 after 1 pulse." Bottle ~ 1" full.

* 10/05/11 @ 13:20 p.m. PDT. [KH,CS]

4250: 12:14 PST, 0.672', 10.57 cfs

6712: Program is done. Bottle full. Flushed line with 2 L distilled water. Pump tubing count 197,391. Turned 6712 off.

Composite samples: Pulled at 13:20 p.m. PDT.

MO-THO Thousand Oaks (Hill Canyon WWTP)

* <u>10/04/11 @ 10:15 a.m. PDT. [KH]</u>

Forecast 0.5" rainfall \rightarrow 30,000 cf pacing through the 4230.

<u>4230:</u> 09:16 PST, 2.115', 1 cfs. No tape measure in truck to measure outside staff. Pacing set at 30,000 cf. Threshold for enable set to 2.50'.

<u>6712:</u> Fridge at 4° C. Flushed line with 2L distilled water. Pump tubing count 24,352. Program flow paced; pacing every 1 pulse. Run program: "Program disabled. Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite.

* 10/05/11 @ 10:25 a.m. PDT. [DT,JS]

4230: 09:23 PST, 2.329' [outside staff is 2.5'], 3 cfs

6712: "Program disabled." No samples in bottle. Called WBC. Enabled 4230, Sample 1 500 ml. Adjusted pacing to 15,000 cf at 09:32.

Grab samples: Taken at 10:30 a.m. PDT.

Field Measurements:	Temperature = 16.0° C	pH = 8.10
DO (%) = 73.6	Conductivity = 1573 uS	Salinity = 1.0 ppt
DO(mg/L) = 7.18	Specific Conductance = 1902 uS	

* <u>10/06/11 @ 09:22 a.m. PDT. [WBC,DT]</u>

<u>4230:</u> 2.125', 1 cfs

<u>6712:</u> Fridge at 4° C. "Program: Flow paced is done". Bottle full. Flushed line with 2 L distilled water. Pump tubing count 183,169.

Composite samples: Pulled at 09:22 a.m. PDT.

<u>Notes:</u> High water mark at $\sim 4.0^{\circ}$.

MO-VEN Ventura (Moon Ditch)

* 10/04/11 @ 08:45 a.m. PDT. [WBC]

Forecast 0.5" rainfall → 20,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 08:46 PST, 0.039', 0 cfs [no contact with outside staff] <u>6712:</u> Fridge at 1° C. Flushed line with 2L distilled water. Pump tubing count 23,953. Program flow paced; pacing every 20 pulses. Run program: "Program disabled." Installed one labeled 18.5 L bottle, lid off. Left grab bottles onsite. Notes: Installed fine mesh stainless steel screen on ISCO 674 rain gauge.

* <u>10/05/11 @ 06:10 a.m. PDT. [KH,CS]</u>

4230: 05:10 PST, 0.290' [o/s ~0.28' at 05:25 a.m. PST], 12 cfs

6712: Fridge at 3° C. "Sample 4 after 11 pulses". Bottle ~2L full.

Grab samples: Taken at 06:30 a.m. PST. Field duplicates (MD-1) taken at 06:30 a.m. PST.

Field Measurements:Temperature = 17.2° CpH = 7.84DO (%) = 88.2Conductivity = 320.4 uSSalinity = 0.2 pptDO(mg/L) = 8.50Specific Conductance = 376.0 uS

* 10/05/11 @ 13:50 p.m. PDT. [KH,CS]

<u>4230:</u> 12:49 PST, 0.218', 7 cfs

<u>6712:</u> "Program: Flow paced is done". Bottle full. Flushed line with 2 L distilled water. Pump tubing count 118,355. Turned 6712 off.

Composite samples: Pulled at 13:50 p.m. PDT.

Sample Tracking

Bacteria samples to VCHCA (Salvador Barragan):

10/05/11 @ 11:55 PDT (VR2/OJA/MEI/VEN(&MD-1)): Kelly Hahs & Chris Stephens 10/05/11 @ 12:40 PDT (CC/SCR/CAM/HUE/OXN): Arne Anselm & Pete Chartier 10/05/11 @ 11:30 PDT (FIL/SPA/MPK/SIM/THO): David Thomas & Jason Siegert

 Toxicity samples to Aquatic Bioassay & Consulting Laboratories, Inc.(Karin Patrick, Elizabeth Maturino):

10/05/11 @ 11:25 PDT (VR2/OJA/MEI/VEN(&MD-1)): Kelly Hahs & Chris Stephens 10/05/11 @ 14:29 PDT (CC/SCR/CAM/HUE/OXN): Arne Anselm & Pete Chartier 10/05/11 @ 12:25 PDT (FIL/SPA/MPK/SIM/THO): David Thomas & Jason Siegert

 Grab and composite samples to Weck Laboratories, Inc. by Weck courier (Allan Goldberg) from Saticoy Operations Yard:

10/05/11 @ 15:55 PDT: All grab samples and composites from CAM/SPA/OXN/VEN by Kelly Hahs

Remaining composite samples to Weck Laboratories, Inc. by Weck-provided courier (Ruben Sarabia from an unspecified courier service) from VC Government Center:

10/06/11 @ 15:13 PDT: CC/SCR/VR2/MEI/OJA/FIL/SIM/MPK/THO/HUE by Bill Carey

Forecasted Rainfall Amounts: 0.25"

Actual Rainfall Amounts: ~ 0.1" across the county

Sampling Durations (to nearest 0.5 hours):

ME- \dot{CC} = 13.0 hrs.	ME-SCR = 11.5 hrs.	ME-VR2 = 8.0 hrs. MO-HUE = 8.5 hrs
MO-MEI = 0.5 hrs.	MO-MPK = 1.5 hrs.	MO-OJA = 0.5 hrs.
MO-OXN = 4.0 nrs. MO-THO = 3.0 hrs.	MO-SIM = 3.0 hrs. MO-VEN = 3.5 hrs.	MO-SPA = 2.5 hrs.

Storm Control: Bill Carey

Sampling Crew (during storm):

Team One (VR2/OJA/MEI/VEN(&MD-1)): Kelly Hahs [KH] & Bram Sercu [BS] Team Two (CC/SCR/CAM/HUE/OXN): Arne Anselm [AA] & Chris Stephens [CS] (VRSD)

Team Three (FIL/SPA/MPK/SIM/THO): David Thomas [DT] (VRSD) & Pete Chartier [PC] (VRSD)

Sampling Crew (post-storm sample pickup):

10/05/2011 (MEI/OJA): Kelly Hahs & Bram Sercu

10/06/2011 (CC/SCR/VR2/FIL/MPK/SIM/THO/CAM/HUE): Kelly Hahs & David Thomas (VRSD)

10/06/2011 (SPA/OXN/VEN): Arne Anselm & Bram Sercu

NPDES ~ MASS EMISSION

ME-CC Calleguas Creek (CSUCI Bridge)

* 01/20/2012 @ 12:38 PST [KH]

Forecast 0.25" rainfall \rightarrow 2105 set remotely to 1,000 cf pacing.

4230: 12:34 PST, 1.147', 2 cfs.

<u>6712:</u> Fridge at 12° C, turned on to ³/₄ coldest setting. Flushed line with 2L distilled water. Pump tubing count 44,029.Program flow paced; pacing every 250 pulse, 96 hour max run time. Run program: "Program disabled". Composite lid off. Grab bottles onsite.

* 01/21/2012 @ 04:20 a.m. PST [AA,CS]

4230: 04:20 PST, 1.363', 17 cfs

6712: "Sample 4 after 228 pulses." Bottle 2" full. Fridge at 2° C.

Grab samples: Taken at check structure @ 04:30 a.m. PST.

Field Measurements:Temperature = 14.9° CpH = 7.90DO (%) = 86.4Conductivity = 1001 uSSalinity = 0.6 pptDO(mg/L) = 8.75Specific Conductance = 1235 uS

* 01/21/2012 @ 12:00 p.m. PST [KH,DT]

4230: 12:00 PST, 2.252', 180 cfs. Outside staff ~ 2.5'.

<u>6712:</u> "Sample 34 after 49 pulses." Stopped program at 12:04 PST. Bottle full. Flushed line with 2 L distilled water. Pump tubing count 338,258. Fridge at 0° C Turned fridge off. Turned 6712 off.

Composite samples: Pulled at 12:10 p.m. PST.

ME-SCR Santa Clara River (Freeman Diversion)

* 01/20/2012 @ 11:45 a.m. PST [KH]

Forecast 0.25" rainfall.

<u>4210:</u> 11:40 PST

<u>6712:</u> Refrigerator at -1° C, turned slightly warmer. Flushed line with 2L distilled water. Pump tubing count 223,987. Program time paced 12 hours, sample every 20 minutes. Run program: "Program disabled". Composite bottle lid off. Grab bottles onsite.

* 01/21/2012 @ 05:23 a.m. PST [AA,CS]

6712: Bottle 5" full. Fridge at 2° C.

Grab samples: Taken from diversion canal @ 05:30 PST.

Field Measurements:Temperature = 13.4° C

pH = 8.20 Salinity = 0.7 ppt

 DO (%) = 69.1
 Conductivity = 1116 uS

 DO(mg/L) = 7.19
 Specific Conductance = 1431 uS

* 01/21/2012 @ 14:00 PST [KH,DT]

<u>4210:</u> 0.013'

<u>6712:</u> "Program: time paced is done." Bottle full. Flush line with 2L distilled water. Pump tubing count 349,945. Fridge temp 0° C, turned warmer and turned 6712 off. **Composite samples:** Pulled at 14:00 p.m. PST.

ME-VR2 Ventura River (Ojai Valley Sanitary District)

* 01/20/2012 @ 06:55 a.m. PST [KH]

Forecast 0.25" rainfall \rightarrow 20,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 06:55 PST, 2.084', 2 cfs. Not in contact with water.

<u>6712:</u> Fridge at 4° C. Flushed line with 2L distilled water. Pump tubing count 262,778. Program flow paced; pacing every 20 pulses. Run program: "Program disabled". Composite bottle lid off. Grab bottles onsite.

* 01/21/2012 @ 05:27 a.m. PST [WBC-remote]

2105: Changed pacing to 5,000 cf by changing pacing in 2105 to 250 cf.

* 01/21/2012 @ 05:45 a.m. PST [KH,BS]

<u>4230:</u> 05:45 PST, 2.227', 2 cfs

<u>6712:</u> Pumping sample when arrived at site, sample volume good but sampler continued to collect samples without counting pulses (immediate succession) after receiving first pacing pulse. Stopped program, restarted for 26 samples. "Sample 1 after 20 pulses." Fridge at 2° C. Collected grabs and then watched sample 1, volume good "Sample 2 after 20 pulses

Grab samples: Taken in river near composite inlet at 06:00 a.m. PST.

Field Measurements:Temperature = 11.3° CpH = 7.14DO (%) = 44.1Conductivity = 952 uSSalinity = 0.6 pptDO(mg/L) = 4.95Specific Conductance = 1272 uS

* 01/21/2012 @ 13:00 p.m. PST [KH,DT]

<u>4230:</u> 2.194', 2 cfs.

<u>6712:</u> Fridge at 4° C, turned warmer. "Sample 13 after 5 pulses". Bottle half full ~ 10L. Collected composite sample 13. Flushed line with 2 L distilled water. Pump tubing count 461,925. Turned 6712 off.

Composite samples: Pulled at 13:00 p.m. PST.

NPDES ~ MAJOR OUTFALLS

MO-CAM Camarillo (Camarillo Hills Drain)

* 01/20/2012 @ 13:18 p.m. PST [KH]

Forecast 0.25" rainfall \rightarrow 2105 set remotely to 1,000 cf pacing.

<u>4230:</u> 13:15 PST, 0.029', 10 cfs

<u>6712:</u> Fridge at 2° C. Flushed line with 2L distilled water. Pump tubing count 114,862. Program flow paced; pacing every 10 pulses. Run program: "Program disabled". Composite bottle lid off. Grab bottles onsite.

* 01/21/2012 @ 01:21 a.m. PST [WBC-remote]

<u>2105:</u> Forecast increased to 0.30". Changed pacing to 15,000 cf by changing pacing in 2105 to 1,500 cf.

* 01/21/2012 @ 02:40 a.m. PST [AA,CS]

 $\underline{4230:}$ 02:39 PST, 0.255', 38 cfs. Outside staff ~ 0.2' $\underline{6712:}$ "Sample 5 after 4 pulses." Bottle ~ 2.5" full. Fridge at 4° C.**Grab samples:** Taken at 02:45 a.m. PST.Field Measurements:
Conductivity = 55.5 uSpH = 7.70
Salinity = 0.0 pptDO (%) = 81.8Conductivity = 55.5 uS
Specific Conductance = 72.7 uSSalinity = 0.0 ppt

* 01/21/2012 @ 12:28 p.m. PST [KH,DT]

4230: 0.031', 10 cfs

<u>6712:</u> "Program: Flow paced is done". Bottle full. Fridge at 4° C. Flushed line with 2 L distilled water. Pump tubing count 203,133. Turned 6712 off. **Composite samples:** Pulled 12:30 p.m. PST.

MO-FIL Fillmore (North Fillmore Drain)

* 01/20/2012 @ 09:31 a.m. PST [KH]

Forecast 0.25" rainfall

<u>4250:</u> 09:31 PST, 2.940', 2.21 cfs

<u>6712:</u> Fridge at 2° C. Flushed line with 2L distilled water. Pump count 191,173. Program 8 hour time-paced program, sample every 15 minutes, no delay to start. Run program "Program disabled". Composite bottle lid off. Grab bottles onsite.

* 01/21/2012 @ 02:32 a.m. PST [DT,PC]

 4250:
 02:32 PST, 3.525'

 6712:
 "Sample 4 in 00:01:20". Bottle 1.5L. Fridge at 2° C.

 Grab samples: Taken at 02:45 a.m. PST.

 Field Measurements:
 Temperature = 16.2° C

 DO (%) = 73.4
 Conductivity = 1150 uS

 DO(mg/L) = 7.20
 Specific Conductance = 1314 uS

01/21/2012 @ 09:45 a.m. PST [KH,DT]

4250: 3.529', 7.94 cfs (rating is in error), 0.15 ft/s

6712: "Sample 33 in 00:06:00". Bottle full to shoulder. Stopped program. Flushed line with 2 L distilled water. Pump tubing count 359,291. Turned fridge warmer and 6712 off. **Composite samples:** Pulled at 09:45 a.m. PST.

MO-MEI Meiners Oaks (Happy Valley Drain)

* 01/20/2012 @ 07:28 a.m. PST [KH]

Forecast 0.25" rainfall \rightarrow 1,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 07:21 PST, 0.081', 1 cfs (out of contact with low flow water)

<u>6712:</u> Fridge at 2° C. Flushed line with 2L distilled water. Pump tubing count 114,307. Program flow paced; pacing every 1 pulses. Run program: "Program disabled". Composite bottle lid off. Grab bottles onsite. Raked leaves from channel from ~ 15 meters upstream (near outside staff).

* 01/21/2012 @ 02:59 a.m. PST [WBC-remote]

<u>2105:</u> Changed pacing to 500 cf due to lack of response to rain amounts of around 0.20".

* 01/21/2012 @ 03:20 a.m. PST [KH,BS]

4230: 03:16 PST, 0.125', 3 cfs. Outside staff ~ 0.19'

6712: Program disabled 03:19:13. Fridge at 7° C, turned colder. Sampler enabled to "Sample 5 after 1 pulse" at 03:33 PST. Composite volume ~2L.

<u>Notes:</u> Removed leaves from around intake strainer and \sim 15 meters upstream. Field blanks were intended to be collected but the blank water did not make it to the site. Field duplicates were collected instead and field blanks will be collected in Event 3.

Grab samples: Taken at 03:50 a.m. PST. Field duplicates taken at 03:50 a.m. PST.

Field Measurements:	Temperature = 11.4° C	pH = 7.69

DO (%) = 90.0 Conductivity = 83.3 uS Salinity = 0.1 ppt

DO(mg/L) = 9.77 Specific Conductance = 112.4 uS

4230: 04:18 PST, 0.184', Outside staff ~ 0.15'

<u>6712:</u> "Program: Flow paced is done." Program finished while crew still on site. Bottle full to neck. Flushed line with 2 L distilled water. Pump tubing count 181,543. Raised fridge temp and turned 6712 off.

Composite samples: Pulled at 04:10 a.m. PST.

MO-MPK Moorpark (Gabbert Canyon Drain)

* 01/19/2012 @ 10:26 a.m. PST [WBC]

Forecast 0.25" rainfall \rightarrow 1,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 0.078', 0.2 cfs

<u>6712:</u> Fridge at 3° C. Flushed line with 2L distilled water. Program flow paced; pacing every 1 pulses. Run program: "Program disabled". Composite bottle lid off. Grab bottles onsite.

Notes: Marked chalk line inside reinforced concrete pipe (RCP) upstream.

* 01/21/2012 @ 03:34 a.m. PST [DT,PC]

4230: 03:34 PST, 0.159', 2.0 cfs

6712: "Sample 14 after 1 pulse". Bottle ~ 7L.

Grab samples: Taken at 03:45 a.m. PST.

Field Measurements: Temperature = 12.0° C

DO (%) = 114.5 C DO(mg/L) = 11.9 S

Conductivity = 195.2 uS

pH = 7.84Salinity = 0.1 ppt

Specific Conductance = 259.6 uS

<u>Notes:</u> No flow from upper or lower RCP from Edison property to have analyzed for pentachlorophenol (EPA 515.3).

* 01/21/2012 @ 10:20 a.m. PST [KH,DT]

<u>4230:</u> 0.125', 1.1 cfs

6712: Fridge at 0° C, turned warmer. "Program: Flow paced is done". Bottle full. Flushed line with 2 L distilled water. Pump tubing count 222,139.

Composite samples: Pulled at 10:30 a.m. PST.

Edison grab samples (for pentachlorophenol analysis):

Edison RC Pipe at MPK – Lower = 10:27 a.m. PST

Edison RC Pipe at MPK – Upper = 10:30 a.m. PST

MO-MPK Upstream at RR = 10:36 a.m. PST

MO-OJA Ojai (Fox Canyon Barranca)

* 01/20/2012 @ 08:10 a.m. PST [KH]

Forecast 0.25" rainfall \rightarrow 1,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 08:04 PST, -0.010', 0 cfs

<u>6712:</u> Fridge at 2° C. Flushed line with 2L distilled water. Pump tubing count 77,832. Program flow paced; pacing every 1 pulse. Run program: "Program disabled". Composite bottle lid off. Grab bottles onsite.

Notes: Prepared mud line under bridge for high water mark.

* 01/21/2012 @ 02:58 a.m. PST [WBC-remote]

<u>2105:</u> Changed pacing to 500 cf due to lack of response to rain amounts of around 0.20".

* 01/20/2012 @ 04:45 a.m. PST [KH,CS]

4230: 04:39 PST, 0.073', 4 cfs

6712: Program: Flow paced is done". Bottle full. Fridge at 4° C, turned warmer. Flushed line with 2 L distilled water. Pump tubing count 153,089. Turned 6712 off. **Grab samples:** Taken at 05:00 a.m. PST.

Composite samples: Pulled at 04:40 a.m. PST.

Field Measurements:	Temperature = 11.9° C	pH = 7.73
DO (%) = 96.5	Conductivity = 62.1 uS	Salinity = 0.0 ppt
DO(mg/L) = 10.33	Specific Conductance = 82.8 uS	

<u>Notes:</u> Too dark to read outside staff. High water mark was not measured as rain was still falling.

MO-OXN Oxnard (El Rio Drain)

* 01/19/2012 @ 14:12 p.m. PST [WBC]

Forecast 0.25" rainfall \rightarrow 5,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 0.110', 0.3 cfs <u>6712:</u> Fridge at 2° C. Flushed line with 2L distilled water. Program flow paced; pacing every 5 pulses. Run program: "Program disabled". Composite bottle lid off. Grab bottles onsite.

Notes: Chalked under bridge for high water mark.

* 01/21/2012 @ 02:58 a.m. PST [WBC-remote]

<u>2105:</u> Forecast increased to 0.40". Changed pacing to 7,500 cf by changing pacing in 2105 to 1,500 cf

* 1/21/2012 @ 01:40 a.m. PST [AA,CS]

4230: 01:40 PST, 0.482' [o/s 0.6'], 6.1 cfs

6712: Fridge at 4° C. "Sample 3 after 1 pulses. Error occurred during program". Bottle 1.5" full.

Grab samples: Taken at 01:50 a.m. PST.

Field Measurements:Temperature = 13.5° CpH = 7.30DO (%) = 68.0Conductivity = 223 uSSalinity = 0.1 pptDO(mg/L) = 7.05Specific Conductance = 281.5 uS

* 01/21/2012 @ 08:30 a.m. PST [AA,BS]

<u>6712:</u> "Program: Flow paced is done. Errors have occurred." Sample 1 error at 00:03 "no more liquid." Bottle full. Flushed line with 2 L distilled water. Pump tubing count 210,995.

Composite samples: Pulled at 08:30 a.m. PST.

* 01/25/2012 @ 11:15 a.m. PST [WBC]

<u>Notes:</u> High water mark +/- 1.85'. Unknown whether it was due to the storm on the 21st or the storm on the 22-23rd.

MO-HUE Port Hueneme (Hueneme Drain)

* 01/19/2012 @ 13:41 p.m. PST [WBC]

Forecast 0.25" rainfall. 2105c set to enable (latched) with 0.06" rain. 6712: Fridge at 2° C. Flushed line with 2L distilled water. Run 8 hour time-paced (15 minute pacing) program: "Program disabled". Composite bottle lid off. Grab bottles onsite.

* 01/20/2012 @ 23:54 p.m. PST [WBC-remote]

2105: Site did not enable after 0.06" rain, manually enabled via remote access.

* 01/21/2012 @ 03:25 a.m. PST [AA,CS]

6712: Fridge at 4° C. "Sample 16 in 00:10:12". Bottle 7" full.

Grab samples: Taken at 03:30 a.m. PST.

Field Measurements: Pumps OffTemperature = 15.4° CpH = 7.60DO (%) = 47.4Conductivity = 5630 uSSalinity = 3.8 pptDO(mg/L) = 4.47Specific Conductance = 6790 uSNotes:Pumps on.Field Measurements: Pumps On – StairsDO (%) = 49.1DO(mg/L) = 4.84Field Measurements: Pumps On – Pump OutfallDO(mg/L) = 9.25

* 01/21/2012 @ 08:45 a.m. PST [KH,DT]

<u>6712:</u> Fridge at 4° C, turned temp warmer. "Program time paced is done." Bottle full to shoulder. Flushed line with 2 L distilled water. Pump tubing count 274,917. Turned 6712 off.

Composite samples: Pulled at 08:45 a.m. PST.

MO-SIM Simi Valley (Bus Canyon Drain)

* 01/19/2012 @ 11:12 a.m. PST [WBC]

Forecast 0.25" rainfall \rightarrow 10,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 0.139', 2 cfs

<u>6712:</u> Fridge at -6° C, turned warmer. Flushed line with 2L distilled water. Program flow paced; pacing every 10 pulses. Run program: "Program disabled". Installed one labeled 18.5 L bottle, lid off. Grab bottles onsite.

Notes: Re-chalked for high water mark.

* 01/21/2012 @ 04:17 a.m. PST [DT,PC]

4230: 04:18 PST, 0.646', 51 cfs

6712: "Sample 7 after 10 pulses." Bottle ~ 5L. Fridge at 3° C.

Grab samples: Taken at 04:30 a.m. PST.

Field Measurements:	Temperature = 12.9° C	pH = 7.10
DO (%) = 83.5	Conductivity = 322.5 uS	Salinity = 0.2 ppt
DO(mg/L) = 8.69	Specific Conductance = 419.7 uS	

* 01/21/2012 @ 11:00 a.m. PST [KH,DT]

4230: 11:00 PST, 0.191', 4 cfs

<u>6712:</u> Fridge at 4° C, turned warmer. "Program flow paced is done." Bottle full to brim. Flushed line with 2 L distilled water. Pump tubing count 174,138. Turned 6712 off. **Composite samples:** Pulled at 11:00 a.m. PST.

MO-SPA Santa Paula (11th Street Drain)

* 01/20/2012 @ 09:55 a.m. PST [KH]

Forecast 0.25" rainfall \rightarrow 1,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4250:</u> 09:50 PST, -0.009', 0.00 cfs, 0.00 ft/s <u>6712:</u> Fridge at 3° C. Flushed line with 2L distilled water. Pump tubing count 224,729. Program flow paced; pacing every 1 pulses. Run program: "Program disabled". Composite bottle lid off. Grab bottles onsite.

* 01/21/2012 @ 01:37 a.m. PST [DT,PC]

 4250:
 01:37 PST, 0.180',0.35 cfs, 1.75 ft/sec

 6712:
 "Sample 2 after 1 pulse." Bottle ~ 500 ml. Fridge at 3° C.

 Grab samples: Taken at 01:45 a.m. PST.

 Field Measurements:
 Temperature = 14.1° C
 pH = 7.38

 DO (%) = 109.0
 Conductivity = 378.6 uS
 Salinity = 0.2 ppt

 DO(mg/L) = 11.20
 Specific Conductance = 478.6 uS

 ♦ 01/21/2012 @ 08:58 a.m. PST [AA,BS]

<u>6712:</u> "Program is done." Bottle full. Flushed line with 2 L distilled water. Pump tubing count not recorded. Turned 6712 off.

Composite samples: Pulled at 08:58 a.m. PST.

MO-THO Thousand Oaks (Hill Canyon WWTP)

* 01/19/2012 @ 11:52 a.m. PST [WBC]

Forecast 0.25" rainfall \rightarrow 20,000 cf pacing through the 4230.

<u>4230:</u> 11:52 PST, 2.189', 1 cfs. Pacing set at 20,000 cf. Threshold for enable set to 2.35'.

<u>6712:</u> Fridge at 2° C. Flushed line with 2L distilled water. Program flow paced; pacing every 1 pulse. Run program: "Program disabled". Composite bottle lid off. Grab bottles onsite.

* 01/21/2012 @ 05:00 a.m. PST [DT,PC]

<u>4230:</u> 05:01 PST, 3.862' [outside staff is \sim 4'], 87 cfs <u>6712:</u> "Sample 6 after 1 pulse." Bottle \sim 3L. Fridge at 6° C.

Grab samples: Taken at 05:00 a.m. PST.

Field Measurements:	Temperature = 12.4° C	pH = 8.22
DO (%) = 104.7	Conductivity = 848 uS	Salinity = 0.6 ppt
DO(mg/L) = 11.3	Specific Conductance = 1114 uS	

* 01/21/2012 @ 11:30 a.m. PST [KH,DT]

<u>4230:</u> 2.385', 5 cfs

<u>6712:</u> Fridge at 4° C, turned warmer. "Program: Flow paced is done". Bottle full. Flushed line with 2 L distilled water. Pump tubing count 359,953.

Composite samples: Pulled at 11:30 a.m. PST.

MO-VEN Ventura (Moon Ditch)

* 01/19/2012 @ 14:33 p.m. PST [WBC]

Forecast 0.25" rainfall \rightarrow 5,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 0.040', 1 cfs

6712: Fridge at 4° C. Flushed line with 2L distilled water. Program flow paced; pacing every 5 pulses. Run program: "Program disabled." Removed composite bottle lid. Grab bottles onsite.

* 01/21/2012 @ 02:58 a.m. PST [WBC-remote]

<u>2105:</u> Forecast increased to 0.40". Changed pacing to 10,000 cf by changing pacing in 2105 to 2,000 cf.

* 01/21/2012 @ 01:42 a.m. PST [KH,BS]

4230: 01:41 PST, 0.195, 6 cfs

<u>6712:</u> Fridge at 4° C, turned slightly colder."Sample 2 after 3 pulses. Errors have occurred." Bottle volume good.

Grab samples: Taken at 02:10 a.m. PST.

Field Measurements:	Temperature = 13.4° C	pH = 7.68
DO (%) = 92.6	Conductivity = 64.8 uS	Salinity = 0.1 ppt
DO(mg/L) = 9.47	Specific Conductance = 107.7	uS

4230: 02:34 PST, 0.293 [o/s ~0.28], 12 cfs

6712: "Sample 7 after 4 pulses. Errors have occurred." Bottle volume good.

* 01/21/2012 @ 08:15 a.m. PST [AA,BS]

<u>6712:</u> "Program: Flow paced is done. Errors have occurred." Sample 1 at 01:32 "no more liquid". Bottle full. Flushed line with 2 L distilled water. Pump tubing count 218,607. Turned 6712 off.

Composite samples: Pulled at 08:15 a.m. PST.

Sample Tracking

Bacteria samples to VCHCA (Susan Benavides):

1/21/12 @ 06:00 PST (CC/SCR/CAM/HUE/OXN): Arne Anselm & Chris Stephens 1/21/12 @ 06:00 PST (FIL/SPA/MPK/SIM/THO): David Thomas & Pete Chartier 1/21/12 @ 07:05 PST (VR2/OJA/MEI(&MD-1)/VEN): Kelly Hahs & Bram Sercu Grab and composite samples to Weck Laboratories, Inc. by Weck-provided courier:

1/21/12 @ 11:54 PST: Saticoy Operations Yard. All grab samples and composites from MEI/OJA/SPA/OXN/VEN/HUE relinquished by Bill Carey and received by Hector Sanchez from an unspecified courier service.

1/21/12 @ 15:00 PST: Saticoy Operations Yard. Remaining composite samples (CC/SCR/VR2/FIL/SIM/MPK/THO/CAM) relinquished by Bill Carey and received by Antonio (last name and courier service not recorded).
Forecasted Rainfall Amounts: 1" to 1.25"

Actual Rainfall Amounts: ~ ³/₄" plains to > 2" mountains

Sampling Durations (to nearest 0.5 hours):

ME-CC = 21.5 hrs.	ME-SCR = 24.0 hrs.	ME-VR2 = 24.5 hrs.
MO-CAM = 16.5 hrs.	MO-FIL = 12.0 hrs.	MO-HUE = 24.0 hrs.
MO-MEI = 5.0 hrs.	MO-MPK = 5.0 hrs.	MO-OJA = 4.0 hrs.
MO-OXN = 19.5 hrs.	MO-SIM = 17.5 hrs.	MO-SPA = 17.5 hrs.
MO-THO = 11.5 hrs.	MO-VEN = 18.0 hrs.	

Storm Control: Bill Carey

Sampling Crew (during storm):

Team One (VR2/OJA/MEI/VEN(&MB-1)): Kelly Hahs [KH] & Bram Sercu [BS] Team Two (CC/SCR/CAM/HUE/OXN): Arne Anselm [AA] & Nathan M [NM] (VRSD) Team Three (FIL/SPA/MPK/SIM/THO): David Thomas [DT] (VRSD) & Jason Siegert [JS] (VRSD)

Sampling Crew (post-storm sample pickup):

Team One (VR2/OJA/MEI/VEN): Kelly Hahs [KH] & Bram Sercu [BS] Team Two (CC/SCR/CAM/HUE/OXN): Arne Anselm [AA] & Nathan M [NM] (VRSD) Team Three (FIL/SPA/MPK/SIM/THO): Bill Carey [WBC] & Jason Siegert [JS] (VRSD)

NPDES ~ MASS EMISSION

ME-CC Calleguas Creek (CSUCI Bridge)

* 3/15/2012 @ 14:45 PDT [KH]

Forecast 1.0" rainfall \rightarrow 2105 set directly to 1,000 cf pacing, 1.25' trigger. <u>4230:</u> 13:49 PST, 1.163', 3 cfs.

<u>6712:</u> Fridge turned on (at 18° C). Flushed line with 2L distilled water. Program flow paced; pacing every 1100 pulses. Run program: "Program disabled 13:51 TH 15-MAR". Composite lid off. Grab bottles onsite.

* 3/17/2012 @ 08:25 a.m. PDT [AA,NM]

<u>4230:</u> 7:25 a.m. PST, 1.177', 4 cfs

<u>6712:</u> "Program disabled 7:21:45." Bottle empty. Fridge at 7° C, turned thermostat down.

Grab samples: Taken at check structure @ 08:30 a.m. PDT.

Field Measurements:	Temperature = 15.7° C	pH = 7.90
DO (%) = 69.7	Conductivity = 1223 uS	Salinity = 0.8 ppt
DO(mg/L) = 6.83	Specific Conductance = 1484 uS	

* 3/18/2012 @ 08:43 a.m. PDT [AA,NM]

4230: 07:42 PST, 1.515', 34 cfs. Outside staff ~ 1.5'.

6712: "Sample 29 after 160 pulses." Stopped program. Bottle 4/5 full. Flushed line with 2 L distilled water. Pump tubing count 313,886. Fridge at 4.5° C Turned fridge off. **Composite samples:** Pulled at 08:43 a.m. PDT.

ME-SCR Santa Clara River (Freeman Diversion)

* <u>3/16/2012 @ 13:50 p.m. PDT [KH,BS]</u>

Forecast 1.0" rainfall.

<u>4210:</u> 12:43 PST

<u>6712:</u> Refrigerator at 0° C. Flushed line with 2L distilled water (Replace Internal Battery warning message). Program time paced 24 hours, sample every 42 minutes. Run program: "Program disabled 12:54 FR 16-MAR". Composite bottle lid off. Grab bottles onsite.

* 3/17/2012 @ 9:43 a.m. PDT [AA,NM]

4210: 08:37 PST, 0.092', 3.11 E-06 cfs

6712: Bottle 3" full. "Sample 6 in 00:30:34." Fridge at 0.5° C.

Grab samples: Taken from diversion canal @ 09:30 PDT.

Field Measurements:Temperature = 13.8° CpH = 8.10DO (%) = 75.3Conductivity = 1364 uSSalinity = 0.9 pptDO(mg/L) = 7.69Specific Conductance = 1749 uS

* <u>3/17/2012 @ 09:53 PDT [AA,NM]</u>

4210: 08:48 PST

<u>6712:</u> "Program: time paced is done. Errors have occurred during program." Warning message to replace internal battery by September 21, 2011. Bottle 6". Flush line with 2L distilled water. Pump tubing count 492,844. Fridge temp 3° C.

Composite samples: Pulled at 09:53 a.m. PDT.

ME-VR2 Ventura River (Ojai Valley Sanitary District)

* <u>3/15/2012 @ 08:30 a.m. PDT [KH]</u>

Forecast 1.0" rainfall \rightarrow 75,000 cf pacing (2105 set directly to 1,000 cf pacing, enable at 2.25').

4230: 07:44 PST, 2.060', 2 cfs.

<u>6712:</u> Fridge at 4° C. Flushed line with 2L distilled water. Program flow paced; pacing every 75 pulses. Run program: "Program disabled 07:50 TG 15-MAR". Composite bottle lid off. Grab bottles onsite.

* 3/17/2012 @ 08:42 a.m. PDT [KH,BS]

4230: 07:39 PST, 2.568' [OSS 2.54'], 25 cfs

<u>6712:</u> "Sample 4 after 54 pulses. Errors have occurred during program." Fridge at 4° C. Bottle almost half full. Stopped program. Trouble shooting: removed tubing from liquid detector and repositioned with connections as tight as possible. Disconnected 6712 from 2105 so that calibration marks wouldn't be recorded by Flowlink. Took 500 ml grab sample, received 860 ml. Tried to calibrate three times with more volume delivered each time (>1 gallon during third attempt). Turned off liquid detector and calibrated based on line length, changed programming from 61' to 71' to 67' to deliver an appropriate volume. Swirled jar to mix sample and discarded all but approximately 1.5 L (500 ml for each of the three samples it had collected). Restarted program for 32 samples. "Sample 1 after 75 pulses."

Grab samples: Taken in river near composite inlet at 08:50 a.m. PDT.Field Measurements:Temperature = 14.0° CpH = 7.60

DO (%) = 73.1	Conductivity = 801 uS	Salinity = 0.5 ppt
DO(mg/L) = 7.52	Specific Conductance = 1008 uS	

* 3/17/2012 @ 14:30 p.m. PDT [KH,BS]

<u>4230:</u> 13:33 PST, 2.829' [OSS 2.54'], 47 cfs

6712: "Sample 7 after 7 pulses." Bottle volume good ~5L.

* 3/18/2012 @ 08:30 a.m. PDT [KH,BS]

4230: 07:30 PST, 2.35' [OSS 2.36'], 13 cfs.

<u>6712:</u> "Sample 25 after 24 pulses". Stopped program. Bottle ~ $\frac{3}{4}$ full. Flushed line with 2 L distilled water. Fridge at 4° C. Pump tubing count 504,376. Turned 6712 off. **Composite samples:** Pulled at 08:30 am PDT.

NPDES ~ MAJOR OUTFALLS

MO-CAM Camarillo (Camarillo Hills Drain)

* <u>3/15/2012 @ 14:45 p.m. PDT [KH]</u>

Forecast 1.0" rainfall \rightarrow 2105 direct connection to 1,000 cf pacing and enable at 0.08'. <u>4230:</u> 13:19 PST, 0.031', 10 cfs

<u>6712:</u> Fridge at 3° C. Flushed line with 2L distilled water. Program flow paced; pacing every 60 pulses. Run program: "Program disabled 13:30 TH 15-MAR". Composite bottle lid off. Grab bottles onsite.

* 3/15/2012 @ 05:49 a.m. PDT [AA,NM]

<u>4230:</u> 04:47 PST, 0.033', 10 cfs. Outside staff ~ 0.1' <u>6712:</u> Program disabled. Bottle empty. Fridge at 0.5° C. **Grab samples:** Taken at 02:45 a m. PST

Grab samples: Taken at 02:45 a.m. PST.

Field Measurements:Temperature = 14.1° CpH = 7.5DO (%) = 77.6Conductivity = 265.6 uSSalinity = 0.2 pptDO(mg/L) = 7.74Specific Conductance = 340.4 uS4230:06:50 PST, 0.98° , 12 cfs.6712:"Sample 2 after 25 pulses." Bottle ~ 0.4" full.

* <u>3/18/2012 @ 08:20 a.m. PDT [AA,NM]</u>

4230: 07:19 PST, 0.032', 10 cfs

<u>6712:</u> "Program disabled 07:24:58 18-MAR. Errors occurred during program". Bottle ³/₄ full. Fridge at 5° C. Flushed line with 2 L distilled water. Pump tubing count 270,845. **Composite samples:** Pulled 12:30 p.m. PST.

MO-FIL Fillmore (North Fillmore Drain)

* 3/15/2012 @ 11:40 a.m. PDT [KH]

Forecast 1.25" rainfall

4250: 10:35 PST, 2.792', 6.28 cfs

<u>2105:</u> Direct connect to set enable to trigger at 3.30', latch set to always.

<u>6712:</u> Fridge at 3° C. Flushed line with 2L distilled water. Program 12 hour time-paced program, sample every 21 minutes, no delay to start. Run program "Program disabled 10:52 TH 15-MAR". Composite bottle lid off. Grab bottles onsite.

* 3/17/2012 @ 06:18 a.m. PDT [DT,JS]

4250: 3.472', 7.29 cfs, 0.14 ft/s

<u>6712:</u> "Sample 3 in 00:13:20". Bottle volume good. Poor odor, hydrocarbon/diesel. **Grab samples:** Taken at 06:30 a.m. PDT.

Field Measurements:Temperature = 16.3° CpH = 7.6DO (%) = 46.0Conductivity = 965 uSSalinity = 0.6 pptDO(mg/L) = 4.50Specific Conductance = 1160 uS

* <u>3/18/2012 @ 08:10 a.m. PDT [WBC,JS]</u>

<u>4250:</u> 3.00'

<u>6712:</u> "Program is done." Bottle full. Flushed line with 2 L distilled water. Pump tubing count 485,783. Fridge at 0° C.

Composite samples: Pulled at 08:10 a.m. PDT.

MO-MEI Meiners Oaks (Happy Valley Drain)

* 3/15/2012 @ 09:25 a.m. PDT [KH]

Forecast 1.25" rainfall \rightarrow 8,000 cf pacing (2105 connected direct 500 cf pacing).

4230: 08:16 PST, 0.082', 1 cfs (out of contact with low flow water)

<u>2105:</u> Direct connect to set enable at 0.11', 500 cf pacing.

<u>6712:</u> Fridge at 7° C, turned colder. Flushed line with 2L distilled water. Program flow paced; pacing every 16 pulses. Run program: "Program disabled 8:25 TH 15-MAR". Composite bottle lid off. Grab bottles onsite.

* 3/17/2012 @ 06:05 a.m. PDT [KH,BS]

<u>4230:</u> 04:57 PST, 0.165', 5 cfs. [Outside staff checked at 06:10 PDT = \sim 0.26' but no meter read at same time]

<u>6712:</u> Fridge at 8° C, turned colder. "Sample 4 after 5 pulses". Composite volume ~1.5L.

Grab samples: Taken at 06:20 a.m. PDT. Field blanks at 06:20 a.m. PDT.

<u>Notes:</u> Dissolved oxygen meter would not calibrate and pH meter was reading temperatures that were far too high for the conditions, despite both meters having been calibrated and checked the previous day.

Field Measurements:	Temperature = 12.9° C	pH = 7.70 (temp 20.2°C)
DO (%) = Error	Conductivity = 110.3 uS	Salinity = 0.1 ppt
DO(mg/L) = Error	Specific Conductance = 143.2 uS	
_	_	

* 3/17/2012 @ 10:21 a.m. PDT [KH,BS]

<u>4230:</u> 09:21 PST, 0.216', 9 cfs.

6712: Program is done." Composite bottle is full.

<u>Notes:</u> Meters were taken back to the shop for maintenance after the 06:20 PDT read. Dissolved oxygen probe was cleaned and membrane was replaced. pH meter probe was replaced. Both meters were recalibrated and checked.

Field Measurements:	Temperature = 12.7° C	$pH = 7.69 (temp \ 12.6^{\circ}C)$
DO (%) = 89.3	Conductivity = 214.1 uS	Salinity = 0.1 ppt
DO(mg/L) = 9.49	Specific Conductance = 280.8 uS	

3/18/2012 @ 07:43 a.m. PDT [KH,BS]

4230: 06:48 PST, 0.081', 1cfs

<u>6712:</u> "Program: Flow paced is done." Bottle full. Fridge at 4° C. Flushed line with 2 L distilled water. Pump tubing count 286,139. Raised fridge temp and turned 6712 off. High water mark in stilling well hard to read, estimated at 0.65' (confirmed by WBC on a follow up visit).

Composite samples: Pulled at 07:55 a.m. PDT.

MO-MPK Moorpark (Gabbert Canyon Drain)

* <u>3/15/2012 @ 12:30 p.m. PDT [KH]</u>

Forecast 1.0" rainfall \rightarrow 8,000 cf pacing

<u>4230:</u> 0.078', 0.2 cfs

<u>2105:</u> Direct connect to set enable at 0.15', 1,000 cf pacing.

<u>6712:</u> Fridge at 5° C, turned colder. Flushed line with 2L distilled water. Program flow paced; pacing every 8 pulses. Run program: "Program disabled. 11:30 TH 15-MAR". Composite bottle lid off. Grab bottles onsite.

* 3/17/2012 @ 07:16 a.m. PDT [DT,JS]

<u>4230:</u> 0.107', 0.7 cfs

6712: "Program Disabled 06:15 SA 17-MAR". Slight flow mid channel, no communication at channel walls.

<u>Notes:</u> No flow from upper or lower RCP from Edison property to have analyzed for pentachlorophenol (EPA 515.3).

* 3/17/2012 @ 08:17 a.m. PDT [DT,JS]

<u>4230:</u> 0.455', 16.3 cfs

6712: "Sample 3 after 5 pulses. Errors have occurred during program". Bottle volume good.

Grab samples: Taken at 08:25 a.m. PDT.

Field Measurements:	Temperature = 13.0° C	pH = 8.20
DO (%) = 87.0	Conductivity = 133.7 uS	Salinity = 0.1 ppt
DO(mg/L) = 9.13	Specific Conductance = 171	9 uS

<u>Notes:</u> No flow from upper or lower RCP from Edison property to have analyzed for pentachlorophenol (EPA 515.3).

* 3/18/2012 @ 08:30 a.m. PDT [WBC,DT]

4230: 0.071', 0.1 cfs

6712: "Program: Flow paced is done". Bottle full. Fridge at 4° C. Flushed line with 2 L distilled water. Pump tubing count 314,282. High water mark ~0.8'.

Composite samples: Pulled at 08:30 a.m. PDT.

MO-OJA Ojai (Fox Canyon Barranca)

* 3/15/2012 @ 010:06 a.m. PDT [KH]

Forecast 1.25" rainfall \rightarrow 10,000 cf pacing (2105 set remotely to 1,000 cf pacing). <u>4230:</u> 09:01 PST, -0.009', 0 cfs

<u>2105:</u> Direct connect set enable at 0.02', 500 cf pacing.

<u>6712:</u> Fridge at 4° C. Flushed line with 2L distilled water. Program flow paced; pacing every 20 pulses. Run program: "Program disabled 09:09 TH 15-MAR". Composite bottle lid off. Grab bottles onsite.

* <u>3/17/2012 @ 05:25 a.m. PDT [KH,BS]</u>

<u>4230:</u> 04:18 PST, 0.13', 7 cfs

<u>6712:</u> Watched sample 3, volume good. "Sample 4 after 18 pulses". Fridge at 2° C. Bottle ~ 1 liter. Outside staff 0.11'.

Grab samples: Taken at 05:30 a.m. PDT.

Field Measurements:Temperature = 13.2° CDO (%) = ErrorConductivity = 110 uSDO(mg/L) = ErrorSpecific Conductance = 164 uS

pH = 7.72 (temp 29°C) Salinity = 0.1 ppt

<u>Notes:</u> Dissolved oxygen meter would not calibrate and pH meter was reading temperatures that were far too high for the conditions, despite both meters having been calibrated and checked the previous day. Meters were taken back to the shop for maintenance after the 05:25 PDT read. Dissolved oxygen probe was cleaned and membrane was replaced. pH meter probe was replaced. Both meters were recalibrated and checked.

* 3/17/2012 @ 10:48 a.m. PDT [KH,BS]

4230: 09:42 PST, -0.009', 0 cfs

6712: "Program Flow Pac	ed is done". Bottle full.	
Field Measurements:	Temperature = 12.9° C	pH = 7.96 (temp 12.9°C)
DO (%) = 96.5	Conductivity = 157.2 uS	Salinity = 0.1 ppt
DO(mg/L) = 10.19	Specific Conductance = 221.4 uS	

* 3/18/2012 @ 07:25 a.m. PDT [KH,BS]

<u>4230:</u> 06:23 PST, -0.009', 0 cfs.

6712: Program is done." Composite bottle is full. Fridge at 2° C. Flushed line with 2 L distilled water. Pump counts 264,634.

Composite samples: Pulled at 07:35 a.m. PDT. Turned off 6712.

<u>Notes:</u> High water mark outer curve ~0.6', inner wall ~0.55' from channel toe.

MO-OXN Oxnard (El Rio Drain)

* 3/16/2012 @ 13:10 p.m. PDT [KH,BS]

Forecast 1.0" rainfall \rightarrow 25,000 cf pacing.

<u>4230:</u> 12:10 PST, 0.109', 0.2 cfs

2105: Direct connect set enable at 0.17', 1,000 cf pacing.

<u>6712:</u> Fridge at -5° C, turned warmer. Flushed line with 2L distilled water. Program flow paced; pacing every 25 pulses. Run program: "Program disabled. 12:22 FR 16-MAR". Composite bottle lid off. Grab bottles onsite..

* 3/17/2012 @ 04:50 a.m. PDT [AA,NM]

<u>4230:</u> (03:50 PST, 0.108, 0.2 cfs) (04:03 PST, [OSS 0.2'],1.3 cfs) <u>6712:</u> Fridge at 0° C. Bottle empty. (Enabled while on site) "Sample 2 after 25 pulses". Bottle 1 cm full.

Grab samples: Taken at 05:00 a.m. PDT.

Field Measurements:	Temperature = 14.2° C	pH = 7.36
DO (%) = 73.5	Conductivity = 540 uS	Salinity = 0.3 ppt
DO(mg/L) = 6.85	Specific Conductance = 641 uS	

* 3/18/2012 @ 07:45 a.m. PDT [AA,NM]

4230: 06:45 PST, 0.110', 0.3 cfs

<u>6712:</u> "Program: Flow paced is done. Errors have occurred." Bottle full. Fridge at 4° C. High water mark 19 inches up wall. Flushed line with 2 L distilled water. Pump tubing count 307,893.

Composite samples: Pulled at 07:45 a.m. PDT.

MO-HUE Port Hueneme (Hueneme Drain)

* 3/15/2012 @ 15:25 p.m. PDT [KH]

Forecast 1.0" rainfall.

<u>2105:</u> Direct connect set enable to always (pacing = none).

<u>6712:</u> Fridge at 3° C. Flushed line with 2L distilled water. Run 24 hour time-paced (42 minute pacing) program starting at 03:00 PDT. "Start Time-Paced at 02:00 SA 17-MAR. 14:37 TH 15-MAR)". Composite bottle lid off. Grab bottles onsite.

* 3/17/2012 @ 7:25 a.m. PDT [AA,NM]

<u>6712:</u> Fridge at 2° C. Bottle full but "Sample 8 in 00:26:25. Errors have occurred during program". Paused program. Report shows no liquid detected. Adjusted tubing, pulled 500 ml sample into graduated cylinder. Dumped bottle (retained about 3" in bottom) and restarted program. "Sample 8 in 00:13:10"

Grab samples: Taken at 07:30 a.m. PDT.

Field Measurements: Pumps OffTemperature = 15.7° CpH = 7.7DO (%) = 50.3Conductivity = 3439 uSSalinity = 2.2 pptDO(mg/L) = 4.86Specific Conductance = 4185 uS

* 3/18/2012 @ 09:12 a.m. PDT [AA,NM]

<u>6712:</u> Fridge at 2° C. "Program time paced is done. Errors have occurred during program" Bottle full. Flushed line with 2 L distilled water. Pump tubing count 196,436. **Composite samples:** Pulled at 07:30 a.m. PDT.

MO-SIM Simi Valley (Bus Canyon Drain)

* 3/15/2012 @ 13:00 p.m. PDT [KH]

Forecast 1.0" rainfall \rightarrow 40,000 cf pacing

<u>4230:</u> 11:57 PST, 0.139', 2 cfs

<u>2105:</u> Direct connect set enable at 0.22', 1,000 cf pacing.

6712: Fridge at 0° C. Flushed line with 2L distilled water. Program flow paced; pacing every 40 pulses. Run program: "Program disabled". Bottle lid off. Grab bottles onsite. "Program disabled 12:00 TH 15-MAR".

* 3/17/2012 @ 07:50 a.m. PDT [DT,JS]

<u>4230:</u> 0.260', 8 cfs		
6712: "Sample 2 after 26	pulses." Bottle volume good.	
Grab samples: Taken at	07:50 a.m. PDT.	
Field Measurements:	Temperature = 14.2° C	pH = 7.6
DO (%) = 84.0	Conductivity = 154 uS	Salinity = 0.1 ppt
DO(mg/L) = 8.19	Specific Conductance = 200.6 uS	6
	n PDT [WBC .IS]	

<u>4230:</u> 0.139', 2 cfs

<u>6712:</u> Program disabled. Stopped program. Bottle full. Fridge at 4° C. Flushed line with 2 L distilled water. Pump tubing count 251,524. High water mark ~0.8'. **Composite samples:** Pulled at 09:16 a.m. PDT.

MO-SPA Santa Paula (11th Street Drain)

* <u>3/15/2012 @ 11:00 a.m. PDT [KH]</u>

Forecast 1.25" rainfall \rightarrow 10,000 cf pacing.

4250: 09:53 PST, 0.027', 0 cfs

<u>2105:</u> Direct connect set enable at 0.10', 1,000 cf pacing.

<u>6712:</u> Fridge at 0° C, turned warmer. Flushed line with 2L distilled water. Program flow paced; pacing every 10 pulses. Run program: "Program disabled. 10:13 TH 15-MAR". Composite bottle lid off. Grab bottles onsite.

* 3/17/2012 @ 04:45 a.m. PDT [DT,JS]

<u>4250:</u> 03:48 PST, 0.025',0 cfs,

6712: "Program disabled." Bottle empty. Fridge at 4° C.

Notes: No flow. Gate was locked without a WPD padlock. Walked in from K rails.

* 3/17/2012 @ 05:37 a.m. PDT [DT,JS]

4250: 04:37 PST, 0.305',2.04 cfs, 4.63 ft/s

6712: "Sample 2 after 9 pulses". Volume good. Poor odor, organic/septic.

Notes: Poor odor. White foam at outfall.

Grab samples: Taken at 05:50 a.m. PDT.

Field Measurements:Temperature = 14.6° CpH = 7.4DO (%) = 92.6Conductivity = 245.7 uSSalinity = 0.1 pptDO(mg/L) = 9.45Specific Conductance = 318.0 uS

* 3/18/2012 @ 07:42 a.m. PDT [WBC,JS]

<u>6712:</u> "Program disabled. Errors have occurred." Bottle full. Flushed line with 2 L distilled water. Pump tubing count 544,159.

Composite samples: Pulled at 07:42 a.m. PDT.

MO-THO Thousand Oaks (Hill Canyon WWTP)

* 3/15/2012 @ 13:35 p.m. PDT [KH]

Forecast 1.0" rainfall \rightarrow 60,000 cf pacing (set remotely through the 4230 by WBC with enable trigger set to 2.30').

4230: 12:35 PST, 2.142', 1 cfs.

<u>6712:</u> Fridge at 0° C. Flushed line with 2L distilled water. "Program flow paced; pacing every 1 pulse." Run program: "Program disabled 12:41 TH 15-MAR". Composite bottle lid off. Grab bottles onsite.

Notes: Warning flashing: Replace internal battery NOV 2011.

* 3/17/2012 @ 08:56 a.m. PDT [DT,JS]

<u>4230:</u> 07:56 PST, 3.889' [OSS 3.9'], 88 cfs

6712: "Sample 4 after 1 pulse." Bottle volume good. Fridge at 2° C.

Grab samples: Taken at 09:00 a.m. PDT.

Field Measurements:Temperature = 13.7° CpH = 8.3

DO (%) = 91.3	Conductivity = 1003 uS	Salinity = 0.6 ppt
DO(mg/L) = 9.51	Specific Conductance = 1260 uS	

* 3/18/2012 @ 09:52 a.m. PDT [WBC,JS]

4230: 2.148', 1 cfs

<u>6712:</u> Fridge at 4° C. "Program: Flow paced is done". Bottle full. Flushed line with 2 L distilled water. Pump tubing count 528,138.

Composite samples: Pulled at 9:52 a.m. PDT.

MO-VEN Ventura (Moon Ditch)

* 3/16/2012 @ 12:50 p.m. PDT [KH,BS]

Forecast 1.0" rainfall \rightarrow 30,000 cf pacing (trigger set remotely by WBC on 3/15/2012 to enable at 0.19' with 1,000 cf pacing)

4230: 11:49 PST, 0.042', 1 cfs

<u>6712:</u> Fridge at 3° C. Flushed line with 2L distilled water. Program flow paced; pacing every 30 pulses. Run program: "Program disabled. 11:59 FR 16-MAR." Removed composite bottle lid. Grab bottles onsite.

* 3/17/2012 @ 08:00 a.m. PDT [KH,BS]

4230: 06:57 PST, 0.397 [OSS 0.4'], 20 cfs

6712: Fridge at 4° C. "Sample 11 after 5 pulses." Bottle volume good.

<u>Notes:</u> Meters were taken back to the shop for maintenance prior to use at MO-VEN. Dissolved oxygen probe was cleaned and membrane was replaced. pH meter probe was replaced. Both meters were recalibrated and checked.

Grab samples: Taken at 08:10 a.m. PDT.

Field Measurements:
DO (%) = 91.1Temperature = 13.8° C
Conductivity = 89.9 uS
Specific Conductance = 114.6 uSpH = 7.70 (temp 13.7° C)
Salinity = 0.1 ppt

* <u>3/18/2012 @ 09:00 a.m. PDT [KH,BS]</u>

4230: 08:02 PST, 0.041, 1 cfs

<u>6712:</u> "Program disabled (collected 24 samples)." Stopped program. Bottle ³/₄ full. Flushed line with 2 L distilled water. Pump tubing count 294,651. Turned 6712 off. **Composite samples:** Pulled at 09:05 a.m. PDT.

Sample Tracking

Bacteria samples to VCHCA (Susan Benavides):

3/17/12 @ 10:30 PDT (CC/SCR/CAM/HUE/OXN): AA & NM

3/17/12 @ 10:44 PDT (VR2/VEN/OJA/MEI(&MD-1)/FIL/SPA/MPK/SIM/THO): DT & JSKelly Hahs & Bram Sercu

Grab and composite samples to Weck Laboratories, Inc. by Weck-provided courier: 3/18/12 @ 13:30 PDT: Saticoy Operations Yard. All grab and composite samples from all sites relinquished by Bill Carey and received by Rafael Acosta from Reliable Messenger Service. (note incorrect date of 10/18/12 was written on all COCs)

Sampling Durations (to nearest 0.5 hours):

ME-CC = 23.0 hrs.ME-SCR = 23.0 hrs.MO-CAM = 23.0 hrs.MO-FIL = 23.0 hrs.MO-MEI = 23.0 hrs.MO-MPK = DRY.MO-OXN = 23.0 hrs.MO-SIM = 23.0 hrs.MO-THO = 23.0 hrs.MO-VEN = 23.0 hrs.

ME-VR2 = 23.0 hrs. MO-HUE = 23.0 hrs. MO-OJA = 23.0 hrs. MO-SPA = DRY.

Sampling Crew (April 23-24):

23rd: Kelly Hahs, Bill Carey, Bram Sercu. 24th: Kelly Hahs, Bram Sercu

Sampling Crew (May 21-22): Bill Carey, Bram Sercu.

Sampling Crew (May 23-24): Bill Carey, Bram Sercu.

EVENT 4.1 Ventura River Watershed, April 23-24, 2012

Last rainfall > 0.1" occurred on April 13th, 2012.

NPDES ~ MASS EMISSION

ME-VR2 Ventura River (Ojai Valley Sanitary District)

* 04/23/12 @ 10:40 am PDT [KH,WBC,BS]

<u>4230:</u> 09:36 PST, 2.200' [OSS = 2.2'], 9 cfs

<u>6712:</u> Fridge at 4° C. Checked 6712 calibration for 500 ml sample (1) 400 ml, (2) 380 ml. Sufficient quantity for analyses so did not adjust calibration. Flushed line with 2 L distilled water. Installed labeled composite bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes (24 hour program). Run program "Program Disabled." Stopped program, unplugged communication line to 2105c. Restarted program @ 10:55 PDT, volume good. "Sample 2 in 00:37". Left grab bottles onsite. Will need to download information on-site. [Remote connection to 2105c when changing sampler enable to "Always" on 3/19/2012 was probably terminated prematurely.]

<u>04/24/12 @ 10:50 am PDT [KH,BS]</u>

<u>4230:</u> 09:48 PST, 2.196', 7 cfs

<u>6712:</u> "Program: Flow paced is done" (note: program was time paced but name of program was not changed). Bottle full. Fridge at 3° C. Flushed line with 2L distilled water. Pump count 752,095. Attempted to download 6712 event mark data to laptop, but laptop was recently serviced and was not connecting.

Grab samples: Taken in river at composite inlet at 10:55 am PDT.

Field Measurements:	Temperature = 17.5° C	pH = 7.55
DO (%) = 86.3	Conductivity = 968 uS	Salinity = 0.6 pp
DO(mg/L) = 8.23	Specific Conductance = 1128 uS	

Composite samples: Pulled at 10:55 am PDT.

* 04/24/2012 @ 12:00 pm PDT [WBC]

Notes: Downloaded 6712 event mark data to working laptop.

NPDES ~ MAJOR OUTFALLS

MO-MEI Meiners Oaks (Happy Valley Drain)

* 04/23/12 @ 09:40 am PDT [KH,WBC,BS]

<u>Notes:</u> Very little flow in channel. Laid weighted silicone line dam across channel and secured in place with sand bags (sand bags were downstream of silicone line and out of contact with water). Time taken for water to pond enough to cover intake line by ~ 1 inch = 20 minutes.

4230: 08:35, 0.081', 1 cfs (out of contact with water)

<u>6712:</u> Fridge @ 5° C, turned colder. Flushed line with 2L distilled water (prior to installing dam). Installed one labeled 18.5 L bottle, lid off. Checked calibration to ensure adequate volume of water available behind dam, delivered 450 ml. Program time-paced for 35 x 500ml samples, taken every 41 minutes (24 hour program). Run program. Sample 1 @ 10:15 am PDT, volume good. "Sample 2 in 00:39." Left grab bottles onsite.

✤ 04/24/12 @ 09:55 am PDT [KH,BS]

4230: 08:49 PST, 0.084', 1 cfs

<u>6712:</u> "Program: Flow paced is done" (note: program was time paced but name of program was not changed). Fridge at 1° C. Bottle full. Flushed line with 2L distilled water. Pump count 375,768.

Grab samples: Taken at 10:05 am PDT.

Field Measurements:	Temperature = 19.0° C	pH = 9.86
DO (%) = 190.5	Conductivity = 1188 uS	Salinity = 0.7 ppt
DO(mg/L) = 17.72	Specific Conductance = 1342 uS	

Composite samples: Pulled at 10:05 am PDT.

<u>Notes:</u> Thin white scum/foam layer on pooled water near intake, brown scum layer near dam at channel edge. Unable to fill 40ml VOAs without air bubbles. Noticeable difference in pH reading in deepest (~2") water near dam (pH=9.73) and and shallower (~1") water 6 inches upstream above the intake line (pH= 9.99). Average pH is reported.

MO-OJA Ojai (Fox Canyon Barranca)

* 04/23/12 @ 09:00 am PDT [KH,WBC,BS]

<u>Notes:</u> Scraped debris away from intake to allow representative collection, laid weighted silicone line dam across channel and secured in place with sand bags (sand bags were downstream of silicone line and out of contact with water).Water level pooled in channel but insufficient to be in contact with bubbler flow meter.

<u>4230:</u> 07:57 PST, -0.006', 0 cfs

<u>6712:</u> Fridge @ 4° C. Calibrated line (1) 500 ml → 500 ml. Flushed line with 2L distilled water. Installed one labeled 18.5 L bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes (24 hour program). Run program. Sample 1 @ 09:15 am PDT, volume good. "Sample 2 in 00:39." Left grab bottles onsite.

* 04/24/12 @ 09:00 am PDT [KH,BS]

4230: 07:53 PST, -0.009', 0 cfs

6712: "Program: Flow paced is done" (note: program was time paced but name of program was not changed). Fridge @ 2° C. Bottle full. Flushed line with 2L distilled water.

Grab samples: Taken at 09:10 am PDT.

Field Measurements:Temperature = 17.3° CpH = 8.00

 DO (%) = 146.0
 Conductivity = 1565 uS
 Salinity = 0.9 ppt

 DO(mg/L) = 14.05
 Specific Conductance = 1833 uS
 Salinity = 0.9 ppt

Composite samples: Pulled at 09:00 am PDT.

<u>Notes:</u> During sample collection on the 24th, it was learned that a VCWPD O&M (Operations and Maintenance) crew was working around and in the channel upstream of the site on the 23rd (above Ojai Avenue) and the 24th (below Ojai Avenue). They were clearing vegetation from around the channel, collecting it in the channel, and then removing it from the channel using a loader. The water in the composite bottle was very clear, but the water in the channel was very turbid when the grab samples were being taken. Future events will be coordinated with the O&M department to ensure that dry weather sampling is not conducted during channel maintenance activities. There was discharge from the Ojai Valley Athletic Club pipe directly upstream of the sample site during sampling.

EVENT 4.2 Santa Clara River Watershed, May 21-22, 2012

Last rainfall > 0.1" occurred on April 13th, 2012.

NPDES ~ MASS EMISSION

ME-SCR Santa Clara River (Freeman Diversion)

* 05/21/2012 @ 09:34 am PDT

<u>6712:</u> Calibrated sampler, delivering consistently >1L for 500 ml aliquot even when "Volume Delivered" program updated correctly so reprogrammed suction head as 8 feet. Calibration 1) 470 ml \rightarrow 470 ml, 2) 490 ml (good). Flushed line with 2L distilled water. Refrigerator temp good. Installed one 18.5 L labeled bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes, once enabled stay enabled, sample at enable, no delay to start. Run program. Sample 2 in 00:39:15.

* 05/22/2012 @ 09:35 am PDT

<u>6712:</u> "Program time-paced is done". Bottle full. Flushed line with 2L distilled water. Pump counts 166,228. Turned 6712 off.

Grab samples: Taken in diversion canal at @ 09:35 am PDT.

Field Measurements:Temperature = 17.2° CpH = 8.19DO (%) = 111.2Conductivity = 1314 uSSalinity = 0.8 pptDO(mg/L) = 10.12Specific Conductance = 1550 uSComposite samples: Pulled at 09:35 am PDT.

NPDES ~ MAJOR OUTFALLS

MO-FIL Fillmore (North Fillmore Drain)

* 05/21/2012 @ 08:26 am PDT

<u>4250:</u> 2.849'

<u>6712:</u> Fridge at 4° C. Flushed line with 2L distilled water. Installed one 18.5 L labeled bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes. Run program. "Sample 2 in 00:37:47." Left grab bottles onsite.

* 05/22/2012 @ 08:22 am PDT

<u>4250:</u> 2.89'

<u>6712:</u> "Program: time paced is done". Fridge at 4° C. Bottle full. Flushed line with 2 L distilled water. Pump counts 643,037.

Grab samples: Taken at 08:28 am PDT.

Field Measurements:Temperature = 18.8° CpH = 8.04DO (%) = 61.1Conductivity = 1310 uSSalinity = 0.8 pptDO(mg/L) = 6.21Specific Conductance = 1559 uSComposite samples: Pulled at 08:28 am PDT.

MO-OXN Oxnard (El Rio Drain)

* 05/21/2012 @ 11:04 am PDT

4230: 0.109', 0.2 cfs

<u>6712:</u> Refrigerator at 2° C. Flushed line with 2L distilled water. Installed one labeled 18.5 L bottle, lid off. Lay weighted silicone tubing dam in channel. Program time paced, every 41 minutes, 35 samples at 500 ml/sample. Run program. Sample 1 volume good. "Sample 2 in 00:38". Left grab bottles onsite. Solar panel covered with paint.

* 05/22/2012 @ 11:05 am PDT

<u>4230:</u> 0.110'

<u>6712:</u> Refrigerator at 2° C. "Program is done: Errors have occurred." Bottle ~ 7L. Flushed line 2L distilled water. Pump count = 426,606.

Grab samples: Taken at 11:05 am PDT.

Field Measurements:Temperature = 32.9° CpH = 8.87DO (%) = 193.2Conductivity = 1328 uSSalinity = 0.6 pptDO(mg/L) = 13.77Specific Conductance = 1150 uS

Composite samples: Pulled at 11:05 am PDT.

<u>Notes:</u> Sample volume was inadequate due to the position of the existing intake strainer and the poor seal between the silicon dam and the channel bottom. Future dry weather sampling events should use a separate intake line with the strainer directly on the bottom of the channel.

MO-SPA Santa Paula (11th Street Drain)

* 05/21/2012 @ 08:52 am PDT

<u>4250:</u> 0.076', 0 cfs

<u>6712:</u> Refrigerator at 0° C. Positioned clean silicone dam and sandbags in pipe. Flushed line with 2L distilled water. Installed one labeled 18.5 L bottle, lid off. Flow data was reviewed prior to programming to see if there was a pattern in flow. Unfortunately, this site had been mostly dry for several weeks, including the previous four days, so it was programmed based on time for a 24 hour composite, sampling every 41 minutes, in case there was flow. Run program. No liquid detected. "Sample 2 in 38:00:00 minutes. Errors have occurred during program". Left grab bottles onsite.

* 05/22/2012 @ 08:57 am PDT

<u>4250:</u> 0.086', 0 cfs

<u>6712:</u> "Program is done. Errors have occurred." Bottle is empty and dry. Pump count = 792,001.

Grab samples: Not taken. Field Measurements: Not taken. Composite samples: Bottle empty and dry.

MO-VEN Ventura (Moon Ditch)

* 05/21/2012 @ 10:38 am PDT

<u>4230:</u> 0.043', 1 cfs

<u>6712:</u> Refrigerator at 0° C. Switched to calibration line, flushed line with 2L distilled water. Placed silicone dam in channel. Installed one labeled 18.5 L bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes. Run program. Sample 2 in 00:39:00". Left grab bottles onsite.

* 05/22/2012 @ 10:25 am PDT

<u>4230:</u> 0.127'

6712: Refrigerator at 2° C. "Program: time-paced is done." Bottle full. Flushed line 2L distilled water, reconnected stainless steel line and communication line. Pump count 392,931.

Grab samples: Taken at 10:25 am PDT.

Field Measurements:Temperature = 28.6° CpH = 8.69DO (%) = 180.4Conductivity = 8.55 mSSalinity = 4.4 pptDO(mg/L) = 13.47Specific Conductance = 7.99 mSComposite samples: Pulled at 10:25 am PDT.

EVENT 4.3 Calleguas Creek and Coastal Watersheds, May 23-24, 2012

Last rainfall > 0.1" occurred on April 13th, 2012.

NPDES ~ MASS EMISSION

ME-CC Calleguas Creek (CSUCI Bridge)

* 05/23/2012 @ 11:25 am PDT

4230: 1.141', 2cfs

6712: Turned on fridge. Flushed line with 2L distilled water. Installed one 18.5 L labeled bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes. Run program. "Sample 2 in 00:36:00." Left grab bottles onsite.

* 05/24/2012 @ 11:40 am PDT

<u>4230:</u> 1.141', 2cfs

6712: Refrigerator at 4° C. "Program is done." Bottle overfilled and fridge full of water (below bottle opening). Flushed line with 2L distilled water. Turned fridge off to dry. **Grab samples:** Taken at check structure @ 11:45 am PDT.

Field Measurements:Temperature = 26.3° CpH = 8.24DO (%) = 115.8Conductivity = 1613 uSSalinity = 0.8 pptDO(mg/L) = 9.27Specific Conductance = 1573 uSComposite samples: Pulled at 11:45 am PDT.

NPDES ~ MAJOR OUTFALLS

MO-CAM Camarillo (Camarillo Hills Drain)

* 05/23/2012 @ 10:23 am PDT

4230: 0.032', 10 cfs

<u>6712:</u> Refrigerator at 5° C, turned colder. Connected calibration line and flushed line with 2L distilled water. Lay weighted silicone line in channel to dam flow. Installed one 18.5 L labeled bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes. Run program. "Sample 2 in 00:40:00."

* 05/24/2012 @ 10:57 am PDT

<u>4230:</u> 0.031', 10 cfs

6712: "Program is done. Errors have occurred." Bottle full. Flushed line with 2 L distilled water.

Grab samples: Taken at 11:00 am PDT.

Field Measurements:Temperature = 29.1° CpH = 9.85DO (%) = 226.5Conductivity = 2624 uSSalinity = 1.2 pptDO(mg/L) = 17.21Specific Conductance = 2425 uSComposite samples: Pulled at 11:00 am PDT.

MO-HUE Port Hueneme (Hueneme Drain)

* 05/23/2012 @ 12:56 pm PDT

<u>6712:</u> Fridge at 2° C. Flushed line with 2L distilled water. Installed one labeled 18.5 L bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes. Run program. "Sample 2 in 00:39:00". Left grab bottles onsite.

* 05/24/2012 @ 12:25 pm PDT

<u>6712:</u> Fridge at 3° C. "Program: Time paced is done". Bottle full. Flushed line 2L distilled water.

Grab samples: Taken at 12:30 pm PDT.

Field Measurements:	Temperature = 23.8° C	pH = 7.80
DO (%) = 86.3	Conductivity = 5.14 mS	Salinity = 3.2 ppt
DO(mg/L) = 7.31	Specific Conductance = 5.96 mS	
Composite samples: Pull	ed at 12:30 pm PDT.	

MO-MPK Moorpark (Gabbert Canyon Drain)

* 05/23/2012 @ 08:50 am PDT

<u>Notes:</u> No flow at site, concrete dry. Set up for event, including damming channel with weighted silicone line. Cannot trigger based on flow because dam will not hold enough water to back pool to bubbler.

4230: 0.072', 0.2 cfs

<u>6712:</u> Switched to calibration line and flushed line with 2L distilled water. Installed one 18.5 L labeled bottle, lid off. Program time-paced for 35 x 500ml samples, taken every 41 minutes. Run program (channel still dry). Left grab bottles onsite.

* 05/24/2012 @ 08:45 am PDT

Notes: Channel dry, no samples taken. Removed tubing and line from channel.

MO-SIM Simi Valley (Bus Canyon Drain)

* 05/23/2012 @ 09:20 am PDT

<u>4230:</u> 0.139', 2 cfs

<u>6712:</u> Refrigerator at 2° C. Flushed line with 2 L distilled water. Set up weighted silicone tubing dam in channel. Installed one labeled 18.5 L bottle, lid off. Program time-paced, 41 mins, 35 samples, 500ml samples. Run program. "Sample 2 in 00:39:00." Left grab bottles onsite.

* 05/24/2012 @ 09:03 am PDT

<u>4230:</u> 0.139', 2 cfs

6712: "Program is done. Errors have occurred." Composite bottle is full to 1-2" below shoulder (~14L). Flushed line 2 L distilled water, collected equipment from channel. **Grab samples:** Taken at 09:10 am PDT.

Field Measurements:Temperature = 19.6° CpH = 8.01DO (%) = 92.5Conductivity = 2607 uSSalinity = 1.5 pptDO(mg/L) = 8.39Specific Conductance = 2911 uSComposite samples: Pulled at 09:10 am PDT.

MO-THO Thousand Oaks (Hill Canyon WWTP)

* 05/23/2012 @ 10:05 am PDT

<u>4230:</u> 2.118', 1 cfs.

6712: Refrigerator at 2° C. Flushed line 2 L distilled water. Installed one labeled 18.5 L bottle, lid off. Program time-paced, 35 samples, 41 min/sample, 500 ml. Run program. "Sample 2 in 00:39:00." Left grab bottles onsite.

* 05/24/2012 @ 10:05 am PDT

<u>4230:</u> 2.118', 1 cfs <u>6712:</u> Refrigerator at 4° C. "Program is done. Errors have occurred." Bottle overflowed.

Flushed line 2 L distilled water.

Grab samples: Taken at 10:05 am PDT.

Field Measurements:Temperature = 17.5° CpH = 8.24DO (%) = 96.4Conductivity = 1660 uSSalinity = 1.0 pptDO(mg/L) = 9.2Specific Conductance = 1935 uSComposite samples: Pulled at 10:05 am PDT.

Sample Tracking

Event 4.1 (ME-VR2, MO-OJA, MO-MEI)

Sectoria samples to VCHCA (Salvador Barragan):

4/24/12 @ 11:50 PDT by Kelly Hahs & Bram Sercu

Grab and composite samples to Weck Laboratories, Inc. courier (Allan Goldberg):

4/24/12 @ 14:50 PDT by Bram Sercu.

Event 4.2 (ME-SCR, MO-FIL, MO-OXN, MO-VEN)

Bacteria samples to VCHCA (Susan Benavides):

5/22/12 @ 11:40 PDT by WB Carey & Bram Sercu

Grab and composite samples to Weck Laboratories, Inc. courier (Allan Goldberg):
 5/22/12 @ 14:10 PDT by Bram Sercu.

Event 4.3 (ME-CC, MO-CAM, MO-SIM, MO-THO, MO-HUE)

Bacteria samples to VCHCA (Salvador Barragan):

5/24/12 @ 13:06 PDT by WB Carey & Bram Sercu

Grab and composite samples to Weck Laboratories, Inc. courier (Allan Goldberg):
 5/24/12 @ 14:20 PDT by Bram Sercu.

Appendix E. Chain-of Custody Forms

ARAT AND PROT	COUNTY COUNTY	Chain Ventura Count NPDES Stor Project: NPI Pre-sea	of Custod y Watershed mwater Mon DES Stormw son - Weck J	ly Record Protection D nitoring Prog vater Wet Seas Laboratories	District ram 1H25042 son
Sampling Date:	8/25/11		Project Nurr	ber: PRESE	ASON 2011/12
Sampling Team:	K.HAHS +	W.B. CARE	Y		
			contents		Metals by200.8, Total: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg
SAMPLE ID	DATE/TIME COLLECTED	625-CTR* NO3+NO2 (353.2) Metals, total	Please dispose of c	Number of Bottles	NOTES
EB lines	825/11/0710	X X X		4	
EB composite	8/25/11/12:00	X X X 			
Relinquished	Printed Name KEL	LY HAH	5		
1	Signature Affiliation	VCWPD	Date/Time	8/25/11	1445
Received	Printed Name Signature Affiliation	CK LABS	Date/Time	8/25/11	1 1445 19°C
Other Notes:	Please use for MS/MSD an	nalysis when sample	Volume permits.	8/25/11	1710

Supresting Prote	CUNTY COUNTY	Cha Ventura Cou NPDES So Project: N Pre-so	in of Custod nty Watershed formwater Mor PDES Stormw eason - Weck I	ly Record Protection I nitoring Prog vater Wet Sea Laboratories	District gram II\3019 ason
Sampling Date:	- 8 9/13/11		Project Num	nber: 2010/11-P	re2
Sampling Team:	KIHAHS	, W.B. CARE	T		
SAMPLE ID Rinse 2L (Plastic) Arrowhead (old) Arrowhead (handle)	DATE/TIME COLLECTED 9/13/11/14:30 9/13/11/14:35 9/13/11/14:35	625-CTR*			NOTES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Relinquished	Printed Name Signature Affiliation	ELLY HAN	TS Date/Time	9/13/11/	ichhs
Received	Printed Name Signature Affiliation	LAN COL	Date/Time	9/13/11	1445
Other Notes:	* Please use for MS/MSD	analysis when sam	ple volume permits	9/13/1	(1720
Ventura Cou	Add ntywide Stormwater Quality	phanie &	on	9-13-11	17: 20 3 .1 [•] C Attachment E

Management Program Annual Report 2011-2012

Monitoring Report Appendix E

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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: Sampling Team:

Project Number: 2010/11-1 (Wet)

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)		Number of Bortles	NOTES
11 :W0001895R PW.R ME-CC	ME-CC	10/5/11 40:30	x	x	x	x	x		1	6.4
11 WOOD1896R PW.A ME-SCR	ME-SCR	10/5/11 12:10	x	x	х	x	x		1	6.6
() 1 A MPN EXP (WASTE)	ME_VR2		X	x	x	x	x		1	
11 W0001897R	MO-CANT MO-CAM	10/5/11 07:45	X	х		x	x		1	5.9
MPN EXP (WASTE)	MQ_QJX		x	x		x	x	s d E	1	1
ENURMNTNOTHER	MQ-MET		x	x		x	x		1	
	MQ_VEN		x	x		x	x		1	
	MDT		x	x		x	x		1	
							1			
lelinguished	Printed Name Signature Affiliation			Date	/Tin	ne _				
leceived	Printed Name -			_	_		_		_	
	Signature —					_	_			
	Affiliation		- I	Date,	/Tin	ne _			-	
thet Notes	Perform hacteriological	making mithin (1)	6	1						

Attachment E Monitoring Report Appendix E

Ventura Countywide Stormwater Quality Management Program Annual Report 2011-2012

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: 10 15/11 Project Number: 2010/11-1 (Wet) Sampling Team: AEA 17C Total Coliform (Tray Method - WQ IDEXX Enterococcus (Tray Method - WQ IDEXX) Total Coliform (25 Tube Method - MPNX Fecal Coliform (25 Tube Method - MPNX E. coli (Tray Method - WQ IDEXX) Number of Bottles 22.4 DATE/TIME LAB USE NOTES COLLECTED SAMPLE ID ONLY X X 1 X х MO-SPA Х Х Х х 1 MO-FIL Х Х 1 Х Х MO-SIM X х x 1 Х MQ-MPK Х Х х 1 Х MO-THO x X 1 Х х MO-OXN 10/5/11 01:55 Х X 1 X X MO-HUE 10/5/11 09:00 5 -ARNE. NSELMY Printed Name Relinquished Signature 10/5/11 Date/Time 12:30 Nr w?i Affiliation ALVADORNY, BARRAGAM Printed Name Received Signature 17,40 11 Date/Time Affiliation Perform bacteriological analyses within 6 hours of sample collection time Other Notes:

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ampling Date: ampling Team:	10-5-11 K HAHS	, C. STEPHE	N.	Proje 5	ect ľ	∛um	ber:	2010	0/11	1 (\	Wet)
LAB USE ONLY	ŠAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
UNLY	ME-CC		H X	X	X	X	X			1	NOTES
	ME-SCR		x	x	x	x	x		ī 1	1	
	ME-VR2	10-5-11 10:05	x	x	x	x	x	1		1	
	MO-CAM		x	x		x	x			1	1. B. M
	MO-OJA	10-5-11 9AM	x	x		x	x			1	
	MO-MEI	10.5.11 8AM	x	x		x	x			1	-
	MO-VEN	10-5-11 AM	x	x		x	x			1	
	MD-1	10-5-11 4:30	x	x		x	x			1	
linquished	Printed Name Signature Affiliation Printed Name Signature Affiliation	KELLY HA toluffers VCWPD SALUADOR PIHALAB		Dat Dat	e/T BA	ime Le ime	_le RA	60	hi 2 R	1	1155

1 -



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

Sampling Date: 10-05.11 Sampling Team:

t THOMAS

Project Number: 2010/11-1 (Wet)

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)		Number of Bottles	NOTES
	MO-SPA	10.05.11 05:15	x	x		x	X		1	
	MO-FIL	10-05-11 07:15	x	x		x	x		1	
	MO-SIM	10.05.11 09:15	x	x		x	x		1	
I	MO-MPK	10-05.11 08:30	x	x		x	x		1	
	MO-THO	10.05.11 10:30	x	x		x	x		1	-1-
	MO-OXN		X	x		x	x		1	
	MO-HUE		x	x		x	X		1	
Relinquished Received	Printed Name Signature Affiliation Printed Name Signature	DAXID THOMAS Daml JJ VRSD/VCWPD SALVAROR	lhr Se	Dat	m e/T B	ime AK	 	· DS ·	-11	11:25

Other Notes:

Perform bacteriological analyses within 6 hours of sample collection time

	()					Ducies	+ Nī1	L 20-	10/	11 1 (1)
7. 740	AAS .	1. 5	100	nT	-	Projec	t INUMI	ber: <u>20</u>	107.	11-1 (wet)
			1	10.	-	1	í –	1		
DATE	TIME	hronic toxicity - topsmelt (<i>Atherinops filinis</i>)	.hronic toxicity - inland silverside (<i>Menidia</i> <i>cryllina</i>)	.hronic toxicity - giant kelp (<i>Macrocystis</i> <i>yrifeta</i>)	Intonic toxicity - purple sea utchin Strongylocentrotus purpuratus)	hronic toxicity - fathead minnow Pimephales promelas)	.hronic toxicity - daphnid (<i>Ceriodaphnia</i> (<i>ubia</i>)	Intonic toxicity - green alga (<i>Raphidocelis ubcapitata</i>)	Iumber of 5-Gallon Buckets	NOTES
COLLE	ECTED	<u> </u>	D A	DQ	0 9	US V	9 C	C. SI	Z 2	Note 1 Note 2 Note 3
		-		-		Α	v	-	2	Note 1, Note 2, Note 3
	10:20						N V	_	2	Note 1, Note 2, Note 3
10.05.11	10:50			-	-	-		x	2	Note 1, Note 2, Note 3
10.05.11	00.50				_		x		2	Note 1, Note 2, Note 3
10.05.11	57.16			-		-	X	-	2	Note 1 Note 2 Note 3
10-05-()	01.12					v			2	Note 1, Note 2, Note 3
10.05.11	00:15			_		-14	-		4	14010 1, 14010 2, 14010 5
		_								
Printed Nam Signature Affiliation		1D amf VC WI	-THC 2 2 2 0	12	lios	Date/	Tin	10.0	05	12:15
Printed Nam Signature	e <u>E</u>	12AP	HITH	Mt	Tup	in				1
	1D-05. D. THOM DATE/COLLE 10.05.(1)	ID-05-11 D.THOMAS DATE/TIME COLLECTED I0-05.11 ID:30 I0-05.11 08:30 I0-05.11 08:30 I0-05.11 09:15 I0-05.11 08:30 I0-05.11 05:15 I0-05.11 05:15	1D-05-11 D.THOMAS J. S I. O.D.THOMAS J. S I. O.D.THOMAS J. S I. O.THOMAS J. S	1D-05-11 D.THOMAS J. SIER DATE/TIME DATE/TIME COLLECTED 10.05.11 08:30 10.05.11 08:30 10.05.11 08:30 10.05.11 09:15 10.05.11 09:15 10.05.11 09:15 10.05.11 09:15 10.05.11 09:15 10.05.11 09:15 10.05.11 09:15 10.05.11 09:15 10.05.11 09:15 10.05.11 00:05.11 00:05.11 00:05.11 00:05.15 10.05.11 00:05.11 00:05.15 10:05.11 00:05.11 00:05.11 00:05.11 00:05.11 01:05.11 02:05.15 03:05 04:05 05:05 05:05	1D-05-11 D. THOMAS J. SIERAT Image: Strain of the strain	1D-05-11 D.TLAOMAS J. SIERENT D.TLAOMAS J. SIERENT DATE/TIME DATE/TIME COLLECTED OB:00 IO-05-11 OB:00 IO-05-11 OB:00 DATE/TIME OB:00 IO-05-11 OB:00 IO-05-11 <thob:00< th=""></thob:00<>	1D-05-11 Project D.THOMAS J. SIFTERT D.THOMAS J. SIFTERT DATE/TIME Image: Construct of the set of the se	1D-05-11 Project Number D.TLHOMAS J. SIEGENT D.THOMAS J. SIEGENT DATE/TIME United in the set of the set	10-05-11 Droject Number: 200 D.THOMAS J.SITZENT D.THOMAS J.SITZENT DATE/TIME Image: constraints of the set of the s	10-05-11 D. THOMAS J. SIEGENT D.THOMAS J. SIEGENT Image: state of the

ANTURA C	CHOR DARA	Vent N P	tura C PDE roject	Chain Count S Stor S NPI Coxic	of C y Wat mwat DES S ity - A	Custo ershe er Mo Storm BC I	dy R d Pro onitor water .abor:	tecor tection ring F Wet atorie	d on 1 Prog Sea s	District gram ason
Sampling Date: Sampling Team:	10-5-11 K.HAHS,	<i>C</i> .	STE	PHDE	NS	Project	Numb	ber: 201	.0/1	1-1 (Wet)
	DATE/TIME	nronic toxicity - topsmelt (<i>Atherinops</i> <i>finis</i>)	ntonic toxicity - inland silverside (<i>Menidia</i> <i>syllina</i>)	nronic toxicity - giant kelp (<i>Macrocystis</i> rtifera)	hronic toxicity - purple sea urchin trongylocentrotus purpuratus)	nronic toxicity - fathcad minnow Vinephales promelas)	bronic toxicity - daphnid (<i>Ceriodaphnia</i> abia)	hronic toxicity - green alga (<i>Raphidocelis</i> <i>ibcapitata</i>)	umber of 5-Gallon Buckets	
SAMPLE ID	COLLECTED	CF CF	p CI	Dâ	C) (S)	55	P C	S. S.	Z 2	Note 1, Note 2, Note 3
					v				1	Note 1 Note 2 Note 3
	in in int	v					-		2	Note 1 Note 2. Note 3
ME-VR2	10-3-11 Am	Λ				V.	-	-	2	Note 1. Note 2. Note 3
MOOIA	C AM			1	1	X		1	2	Note 1, Note 2, Note 3
	(D-5-11)V			-		X			2	Note 1, Note 2, Note 3
MO-VEN MD -VE	10.5-11 6:30						X		2	Note 1, Note 2, Note 3
Relinquished	Printed Name Signature Affiliation	EL Ello	LY	HA	HS_	Date/.	Tin 1	R 10	>/	5/11 11:25 m
Received	Printed Name E Signature E Affiliation <u>ARM</u>	414	NO IT	H 1 jsp-1	UAT	Date/	Tin	10-5	71	1125
Other Notes:	Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%Note 2: Please execute TIE if mortality > 50%Note 3: Notify District within 24 hours if significant toxicity is observed.									

ANTURA	COUNTY COUNTY		Ven N F	(itura (IPDE Projec	Chain Count S Sto t: NP Toxic	n of (ty Wa rmwa DES eity - A	Custo tersho ter M Storm ABC J	ody I ed Pro lonito nwate Labor	Reco otecti oring l or Wet catoric	rd on Pro Se	District gram ason
Sampling Date: Sampling Team:	10-5- AEA 1	H PC			-	-	Projec	t Num	ber: <u>20</u>	10/	11-1 (Wet)
SAMPLE ID	DATE/7 COLLEC	TIME CTED	Chronic toxicity - topsmelt (<i>Atherinops</i> <i>affinis</i>)	Chronic toxicity - inland silverside (<i>Menidia betyllina</i>)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (<i>Pimephales promelas</i>)	Chronic toxicity - daphnid (<i>Ceriodaphnia</i> dubia)	Chronic toxicity - green alga (<i>Raphidocelis</i> subcapitata)	Number of 5-Gallon Buckets	NOTES
ME-CC	10-5-11	10:30	X							2	Note 1, Note 2, Note 3
ME-SCR	10.5.11	1300				X				1	Note 1, Note 2, Note 3
ME_VR2			X							2	Note 1, Note 2, Note 3
MO-CAM	10-5-11 0	1:45					Х			2	Note 1, Note 2, Note 3
МО-Ојл							Х			2	Note 1, Note 2, Note 3
MOMET							Х			2	Note 1, Note 2, Note 3
MO-VEN								X		2	Note 1, Note 2, Note 3
Relinquished	Printed Name Signature Affiliation Printed Name Signature Affiliation	A A CAR	Star 1 ST		NS CR	Ele tr.	Đạte/ L L Date/	Tinr)- 5-	-11	14:29
Other Notes:	Note 1: Dilutic Note 3: Notify	ons - 6.25% District w	6, 12.5% ithin 24	%, 25% hours	, 50%, if signi	100% ficant 1	oxicity	Note 2 is obse	2: Please erved.	e ex	ecute TIE if mortality > 50%



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

Project Number: 2010/11-1 (Wet)

Sampling Date:

Sampling Team:

SAMPLE ID	DATE/ COLLE	TIME CTED	Chronic toxicity - topsmelt (<i>Atherinops</i> <i>affinis</i>)	Chronic toxicity - inland silverside (Menidia hervilina)	Chronic toxicity - giant kelp (<i>Macrocystis</i> <i>pyrifera</i>)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (<i>Pimephales promelas</i>)	Chronic toxicity - daphnid (<i>Ceriodaphnia</i> dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES
MO-OXN	10-5-11	06:55					Х			2	Note 1, Note 2, Note 3
MO-HUE	10-5-11	09:15						X		2	Note 1, Note 2, Note 3
MOTHO								X		2	Note 1, Note 2, Note 3
MO-MPK		_						1	X	2	Note 1, Note 2, Note 3
MQ-SIM								X		2	Note 1, Note 2, Note 3
MO-FIL								X		2	Note 1, Note 2, Note 3
MQ-SPA							X			2	Note 1, Note 2, Note 3
Relinquished	Printed Name Signature Affiliation	2					Date/"	ſin:			
Received	Printed Name Signature Affiliation	e					Date /	Tim			<u>4</u>
Other Notes:	Note 1: Dilut	ons - 6.25%	o, 12.5%	%, 25%	%, 50%,	100%	~ utc / .	~ ***		-	
	Note 2: Please Note 3: Notif	e execute T y District w	E if m ithin 24	ortalit Hour	y > 50% s if sign	6 ificant 1	oxicity	is obse	etved.	_	

Contraction of the second seco	COUNTY			Ven N H	tur JPI Proj Gral	C a C DES ect: bs -	hai oun Sto NF We	n c ty v orm PDI ck	of Cus Waters water ES Sto Labor	sto shea Mo rmv ato:	dy d Pronite wate ries	Rec rote orin er W (SI	core ctio: g Pr Vet S DE	i n I rog Sea 1 c	District gram uson 1305137 of 2)
Sampling Date:	10/5/11		T	1			-		Project	Nur	nber	: 201	10/11	-1	(Wet) Grabs
Sampling Teath.	KIN DB	e note	3	/	_	1-00-		_				_	~	_	
	DATE,	/TIME	l & Grease; O&G-NP (EPA 1664A)	anide (EPA 335.4)	TBE & 2CLEVE (EPA 524.2)	avel Blanks (EPA 524.2)-only analyze if hit	PA 515.3			A Star				mber of Bottles 🐸 🗟 🖉	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
SAMPLE ID	COLLE	ECTED	Ōï	Š	Ę	Tra	1			-				'nZ	NOTES
ME-CC	10/5/11	1030	3	1	3	1								8	A. Anselm P. Shartiet
ME-SCR	10/5/11	1300	2	1	3	1		_					_	7	A. Anselm P Chartjel
ME-VR2	10/5/11	10:05	2	1	3	1	23		4	1				7	K. HAHS, C. STEPHENS
MO-CAM	10/5/11	0745	2	1	3	1								7	A. Anselm P. Chartiet
МО-ОЈА	10/5/11	9:00	2	1	3	1								7	K-HAHS, C. STEPHENS
MO-MEI	10/5/11	8:00	2	1	- 3	1					1			7	KHAHS CISTERTENS
MO-VEN	10/5/11	6:30	2	1	3	1								7	KHAHS, C. STEPHENS
MD-1	10/5/11	6:30	2	1	3	1		4						7	KHAHS C. STEPHENK
mo-MPK Upstre at RR	10/5/11	13:20			P		2		6 6131	1				2	Dittomen I Standt
Relinquished	Printed Nam Signature	e KE	年に	12	H	Η¥,	3		-				-1		
Received	Affiliation Printed Nam	· AM	A	N	(FO	DI	ser	Date/T	ime	_1	015	5/1	1	1555
CELINQ X Other Notes:	Signature Affiliation Please run 52	4.2 on travel	CI bla	K aks d) () Sinly	AC	15 Institu	Nuent	Date/T	me 2/5 ed in		O[inal a	5/1 18 analys	i H(1555 Atiphanio Horz

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And Protection	COUNTY COUNTY		•	Ven N P G	tur PD roj rał	C a C DES ect: DS -	hai oun Sto NI We	n c ty V orm 'DI ck	of Cu Wate wate ES St Labo	isto rsho r M orn rate	ody ed lon nwa orio	y R Pro iton aten es (tec tec ing W SII	or ctio g P (et) DE	d n I rog Sea 2 c	District fram son of 2)
Sampling Date: Sampling Team:	<u>10/5/</u>	in e Not	0	5			_	-	Projec	t N [.]	umt	oer:	201	0/1	1-1	(Wet) Grabs
SAMPLE ID	DATE/ COLLE	TIME CTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits	EPA515.3								Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
MO-SPA	10/5/11	0615	2	1	3	1					T				7	D. Thomas J Siscert
MO-FIL	10/5/11	2150	2	1	3	1							-		7	D. Thurson J. Sienalt
MO-SIM	10/5/11	0915	2	1	3	1									7	D. Thomas T. Siegert
МО-МРК	10/5/11	0830	2	1	3	1	1							- 1	7	D. Thomas, J. Stepper
MO-THO	10/5/11	1030	2	1	3	1				T		1			7	D Thomas T Signart
MO-OXN	10/5/11	0655	2	1	3	1									7	A Angle P charter
MO-HUE	10/5/11	0955	3	1	3	1					1	1	Ì		8	A Angeling P Chryster
Edison RC Pipe	= 10/5/11	13:15			1		2			T					2	Dithings TSegut
Edison RC Pipe	10/5/11	13:25					2				T			1	2	D. Thomas T Sierant
Relinquished	Printed Name Signature Affiliation	e							Date	Tim	/	1	/			
Received	Printed Name							/	/	6	5	1	/	/		
	Sionature	24				1	/	4	P	2	1	-	1	- 1		
	Affiliation		-	-	1	-	X	XX	Date	Tim	e	1.1	-	-	1	
Other Notes:	Please run 52	4.2 on trave	1 Jola	oks of		if co	7 Instit	hent	ts dete	cted	in (orgin	ual a	naly	vsis	

New York	A COUNTY		Ve: I Co	atu NP Pro	ra C DES ject	Cou 5 St : N es -	nty torn PD We	Wa nw2 ES eck	ters iter Sto Lal	she Mo rmy bor	d P nit wat ato	rote orir er V ries	ectiong I Net (SI	on I Prog Sea DE	District GAMPI tram PICK-U 1 of 2)
Sampling Date:	_10/5/11	-	-	-	-		-	Pro	oject	Nu	nbe	: 20	10/1	.1-1 ((Wet) Comps
Sampling Team:	K. HAIts, C	- 5	TE	PH	EV	25	-	-	_		_	-		-	
	DATE/TIME	rium, total	lorine Residual	03-N	tals, total & dissolved (+ Hardness) 🤝	94	D, COD, MBAS, TKN, Amnouia, TOC	03+NO2 (353.2), Cl, F (300.0), Phenolics	osphorus-P Total & Dissolved	5-CTR, 8270SIM-PAH, 8270SIM-Phenols *	.3-Herb 547-Glyphosate, 608-CTR	.2 Reg+507, 525-OPP-LL	K, CLO4, Tufb, TDS, TSS, VSS, Cond	mber of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods)
SAMPLE ID	COLLECTED	Ba	G	Z	Me	ů V	BC	Z	HA ?	62	515	525	AL	Nu	NOTES
ME-SCR		A V	A	-		v	TT.	v	V	v	x	v	X I		
ME-VR2					X	X	X	v	v	v					
MO-CAM	To/5/11 12:20				x	X	X	X	x	x	X	X	x	1	
MO-OJA					Y	X	X	Y	V	v	v	X	v	1	
MO-MEI					X	X	X	X	X	X	Y	X	Y	1	
MO-VEN	10/5/1. 13:50				x	x	x	x	X	x	x	x	X	1	
		+												1	
Ceceived	Printed Name K Signature Coll Affiliation V Printed Name MU Signature Coll Affiliation WE Eilter for discoluted match	NAN RATE	1 2 2 2 2 L	GAA	BS	HS - 3	3 Kept	Date Date		me	10	2/1	5/ /1	1) /	1555 1555

A STATE AND A STATE	COUNTY	Ver N I Con	ntura NPDE Projec nposi	Cha Cou S St t: N tes -	in (nty` orm PD) We	of C Wat wat ES S ck]	Cus ters Stor Lab	toc hed Mor mw	ly] Pro nito vate tori	Rec oteo oring er W	ctio g P /et (SII	d n I rog Sea DE	District 1505136 ram son 2 of 2)
Sampling Date:	SEE OTH	ER	SIDE	1	_	Proj	ject]	Nun	ber:	201	0/1	1-1 ((Wet) Comps
Sampling Team:				_		-	_		-	-	_	2100	
SAMPLE ID MO-SPA MO-FTE MO-STM MO-MPK MO-MPK MO-THO MO-OXN MO-LUFE	DATE/TIME COLLECTED 1015/11/13:20			$X \times X \times X \times X \times X$ We tails, total & dissolved (+ Hardness) $X \times X \times X \times X \times C_{r+6}$	K X K K X Z BOD, COD, MBAS, TKN, Ammonia, TOC	X X X X X X X NO3+NO2 (353.2), Cl, F (300.0), Phenolics	X X X X X V Drosphorus-P Total & Dissolved	X X X X X X X X 255-CTR, 8270SIM-PAH, 8270SIM-Phenols *	X X X X X X 215.3-Herb 547-Glyphosate, 608-CTR	X X X X X X X X 525.2 Reg+507, 525-OPP-LL	* × * * * A × ALK, CLO4, Turb, TDS, TSS, VSS, Cond	4 1 4 4 4 1 Number of Bottles	Metals by200.8, Total & Dissolved; Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods) NOTES
Relinquished	Printed Name	_					/	/	1		_	/	
й.	Signature			/	1	Ret	e/T	ime	X	/			
Received	Printed Name Signature Affiliation	10	6	5	The	Dat	/ re/T	ime	44	1		1	
Other Notes:	Filter for dissolved metal	ls and pe	erform	cond	uctivi	ty an	alys	es in	mee	liate	ly.		

Ast.

Attachment E Monitoring Report Appendix E

VENTURA	COUNTY		C	Com	roje ipos	ect: sites	1 NP 5 - 1	Wed	ck I	Lab	mw ora	tori	es ((SII	DE	1 of 2)
Sampling Date:	10-5	-11/10	-64	41		_	_		Proj	ect I	Jum	ber:	201	0/11	-1 (Wet) Comps
ampling Team:	WBC,	DFT	ŧ)	KH	_	_	_		_		_		-	_	_	
SAMPLE ID	DATE/ COLLE	TIME CTED	Barium, total	Chlorine Residual	NO3-N	Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (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	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods)
ME-CC	10/6/11	0955	X	X	X	X	Χ	X	X	X	X	Χ	X	X	1	
ME-SCR	10/6/11	1100	X		_	X	X	X	X	X	X	X	X	X	1	
Æ-VR2	10/6/11	10:05		_	-	X	X	X	X	X	X	X	X	X	1	
IO-CAM			-			X	X	X	X	X	X	X	X	X	1	
MO-OJA	10/6/11	0855	-	_	-	X	X	X	X	X	X	X	X	X	1	
MO-MEI	10/6/11	0930	-	_	-	X	X	X	X	X	X	X	X	X	1	
MO-VEN			-		-	X	X	X	X	X	X		X	X		
Relinquished	Printed Nam Signature Affiliation	ue w.B	J.B.		DE EV	r se	3- A-	- 2A	Dai	te/T	ïme		10.	16,	/.(15 12
Received	Printed Nam Signature	$\frac{R_{L}}{\Delta_{L}}$	b	20	ter	in	/	-	-	. /			./		1.	11-12

VENTION	S		N I	VPDE: Project	S St	orm PD	iwa ES l	ter : Stor	Mo rmv	nito vate	orin er W	g P 7et	rog Sea	ram son
- ORA	GUIDE		Cor	nposit	es -	We	ck .	Lab	ora	itor	ies	(SI	DE	2 of 2)
Sampling Date:	(10-5-	11/10-	6-11		-	-	Pro	ject l	Nun	nber	201	.0/1	1-1 (Wet) Comps
Sampling Team: SAMPLE ID MO-SPA MO-FIL	DATE/T COLLEC	IME TED		X X Metals, total & dissolved (+ Hardness)	X Ct+6	× × BOD, COD, MBAS, TKN, Ammonia, TOC	× × NO3+NO2 (353.2), Cl, F (300.0), Phenolics	× × Phosphorus-P Total & Dissolved	× 🗵 being the second s	× × 515.3-Herb 547-Glyphosate, 608-CTR	× × 525.2 Reg+507, 525-OPP-LL		1 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.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods) NOTES
MO-FIL	10/6/11	3800	_	X	X	Χ	X	X	X	Χ	X	X	1	
MO-SIM	10/6/11 0	0830	_	X	X	Χ	Χ	X	Χ	Χ	X	X	1	
IO-MPK	10/6/11 0	750		X	X	X	Χ	X	X	х	Χ	Х	1	
IO-THO	10/6/11 0	922		X	X	X	X	X	X	Χ	Χ	Х	1	
IO-OXN			-	X	X	Χ	Χ	Χ	Х	Х	Χ	X	1	
IO-HUE	10/6/11	11:05		X	X	X	Х	X	Χ	X	Χ	X	1	
elinquished eceived	Printed Name Signature Affiliation Printed Name		B. C CNP	REY			Date	e/Tin	me		0/0	5/1	l	1512
V 7.	Signature Affiliation	Au	bes	Jun	\sum	te	Date	·/Ti	me	16	0/	101	11	1573
		6									1	1		

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VENTUR	ACOUNT	Ventura County NPDES Storn Project: NPI Bacteriologica	, W mw DES 1 - 1	ate ate S St VC	rsho r M orn HC	ed H Ioni nwa A L	Prote tori ter V .ab (ection ng Pro Wet So (SIDE	Dis ogra easo 1 o	strict
mpling Date: mpling Team:	K.HAHS	1/21/12 B. SERCU		Proj	ect N	Jum	ber:	2010/11	1-2 (Wet)
LAB USE	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)		Number of Bottles	NOTES
ONLY	SAMPLE ID	COLLECTED	X	X	x	x	Y		1	
	MESCR	0	X	X	X	X	X	-	1	
	ME-VR2	1/21/12 0600	X	x	x	X	X		1	
	MO-CAM	15 de la companya de	¥	X		×	X		1	
	МО-ОЈА	1/21/12 0500	x	X		X	X	r	1	
	MO-MEI	1/21/12 0350	x	X		X	Х	in the	1	
	MO-VEN USN	1/2/12 02:10	x	x		X	X		1	
	MD-1	1/21/2 0350	X	X		X	X		1	
elinquished	Printed Name Signature Affiliation	KELLY H Idudti		ts Da	te/T	ime		1/21	112	
eceived	Printed Name	Sypan S.R.	E	el Da	U te/7	ime		1/21/	12	07.05
)ther Notes:	Perform bacteriologic	al analyses within 6 hours of	- of sa	mpl	e col	lecti	on ti	ne		* 1 * *

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											aw a
ampling Date:	01-21-12	•			Proj	ect N	Jum	ber:	2010/	11-2	(Wet)
impling Team:	DAVID T.	PETEC.	, A.A	JJE	Crr	, .	-5	IEI	TE		1
LAB USE ONLY	SAMPLE ID	DATE/ COLLE	TIME CTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			NOTES
ų	ME-CC -	01-21-12	04:30	x	x	х	х	x			AA, CS
	ME-SCR	01-21-12	05:30	x	x	x	х	x			AA, CS
	ME-VR2			x	x	x	x	х	-	-	1
	MO-CAM	01-21-12	02:45	x	x		x	х			AA, CS
	мо-ојл-			x	X		x	x		-	1
	MO-MEI			x	x		X	X	-	-	1-
	MO-VEN			X	X		x	x	-	-	1
	MD-1			X	X		x	X		-	1-
lelinquished	Printed Name Signature Affiliation Printed Name Signature Affiliation	DAVIE DAVIE VESD/V Suban Site DH L	F TH f 7 cwep Ben Mo	<u>om</u> <u>J</u>	Da Da	te/T	ime O		01-	21	- 12 .06:00

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Augure here Pro	COUNTY COUNTY	Chai Ventura Coun NPDES Sto Project: NF Bacteriologic	n o ty V ormv PDE cal -	f C Vate wate ES S VC	ust ersh er M torn	od ed Ion nwa CA I	y Rec Protec itorin ater W Lab (S	cord ction g Pro 7et S 5IDE	ogi eas 22	istrict cam son of 2)
Sampling Date	n:AVIO	PETE C. A AN	SEL	Pro	ject l	Num	iber: 20	NS	1-2	(Wet)
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)		Number of Bottles	NOTES
	MO-SPA	01-21-12	x	x		X	x		1	OT PC
	MO-FIL	01-21-12 02:45	x	X		x	X		1	DT, PC
	MO-SIM	01 21-12 04:30	x	X		x	X		1	DT, PC
	MO-MPK	01-21-12 03:45	X	X		x	x		1	DT, PC
	MO-THO	01-21-12 05:00	X	x		x	x		1	DT, PC
	MO-OXN	01-21-12 01:50	x	X		x	X		1	AA, CS
	MO-HUE	01-21-12 03:30	x	x		x	X		1	AA, (S
linquished	Printed Name Signature Affiliation	DAVID THOMAS David 77 VRSD/ VCWPD	ho	ma Date	ر /Tim	ne	01-2	.1 - 1	2	0600
ceived	Printed Name	Dusan 12		~	-	-	_	_		
	Signature	DIALAA		_	_				-	
	Affiliation .	por cals	I	Date,	/Tim	le	DI	21	12	- 0600

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Marshed Prote	ZAZIO)5 V	ent N Pr G	rojeo rabs	Chai Cour ES Sto et: NI - We	n o ity V ormv PDE ck l	f Cu Vater water ES Sto Labo	stor shec Mo ormv rator	dy R 1 Pro nitor water ties (ecor tection ting P Wet SIDE	d on D rogi Seas 2 o	istrict two- tam son f 2)
Sampling Date:	1/21/12	-			4.0	-	Projec	t Nur	nber:	2010/1	1-2.(Wet) Grabs
Sampling Team:	K. HAHS B.	ER	0	<i>a</i> ,	THO	MA	S,P.	SH	ARTI	EK,	A.,	ANSELM, C.STEPHENS
	DATE/TIME	& Grease; O&G-NP (EPA 1664A)	unide (EPA 335.4)	'BE & 2CLEVE (EPA 524.2)	vel Blanks (EPA 524.2)-only analyze if hit						mber of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
SAMPLE ID	COLLECTED	Oil	Cya	IW	Tra			-		_	Nu	SAMPNOTES
MO-SPA	1/21/12 0145	2	1	3	1			-			7	OT, PL
MO-FIL	1/21/12 0245	2	1	3	1			-	1	_	7	DT,PC
MO-SIM	1/21/12 0430	2	1	3	1						7	DR.PC
MO-MPK	1/21/12 0345	2	1	3	1			_		_	7	DTPC
MO-THO	1/21/12 0500	2	1	3	1						7	DTPC
MO-OXN	1/21/12 0150	2	1	3	1						7	AA (S
MO-HUE	1/21/12 0330	3	1	3	1						8	AR'LS
												1
Delinewished	Drinted Name	R	<u> </u>	.0.0	·v							
Kellilquisileu		LA		an	1.45						-	
	Affiliation	JC	NP	A.	F		Date/	'Time		V	21	12 1154
- 6 19	\overline{t}	1				-		1				
Received	Printed Name He	à	10	AA	, •	20	in	n	car		-	
	Signature	Y	HU1	IV	-			/				10
Other Notes:	Please run 524.2 on trave	el bla	nks	only i	f cons	tituer	Date/	ected	in org	inal ana	llysis	OURIE
5 Ventura Cour Management	ntywide \$tormwater Quality/ Program Annual Report 201	21/	/12	-	A:c	70	3	.0	°C		M	Attachment E Ionitoring Report Appendix E

VENTURA	COUNTY			G	rab	os - `	Weck	Lal	ora	torie	s (SI	DE	1 of	[2)
Sampling Date:	1/12/2	1/12	_		_	_		Pro	ect N	umb	er: 201	0/11	2(Wet) Grabs
Sampling Team:		iee ove	/		-			-		-	-		-	
	DATE	/TIME	& Grease; O&G-NP (EPA 1664A)	mide (EPA 335.4)	BE & 2CLEVE (EPA 524.2)	vel Blanks (EPA 524.2)-only analyze if hits							mber of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding trave blanks.
SAMPLE ID	COLLI	ECTED	Oil	Cya	ΤM	Trav				_			InN	NOTES
ME-CC-Mi-CC	1/21/12	0430	3	1	3	1							8	MA,CS
ME-SCR	1/21/12	0530	2	1	3	1							7	AA, CS
ME-VR2	1/21/12	0000	2	1	3	1							7	KH, BS
MO-CAM	1/21/12	0245	2	1	3	1							7	AA, CS
MO-OJA	1/21/12	0500	2	1	3	1							7	KH, BS
MO-MEI	1/21/12	0350	2	1	3	1							7	KH BS
MO-VEN	1/01/12	210	2	1	3	1							7	KH BS
MD-1	1/2/12	0210	2	1	3	1							7	KN 25
	10.11									1				1-11,00
Relinquished	Printed Nar Signature Affiliation	Re.						Dat	e/Tin	ne		g~		Albiei
Received	Printed Nar	ne			/	10	t	A	5			3k		VUTIE
	Signature	·			_	-	r	1	ER	81.			12	ICK IIC
	Affiliation			_		_		Dat	e/Ti	ne	E	(II)		
Other Notes	Please nin 5	24.2 on trave	1 bla	nks	only	ifco	nstitue	nts d	etecte	d in l	aroinal	anah	icie	

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Sample for Metals by 200.8, Total & Dissolved: Baseline: Baseline: Baseline: Baselin: <tr< th=""><th>Sampling Date:</th><th>J-ZI-IZ</th><th>Ven N P Con</th><th>C tura C IPDES Project nposite</th><th>hai oun Sto NI</th><th>in o ity V prm PDE Wee</th><th>of C Wat wat ES S ck I Proj</th><th>ersl er I itor Lab ect I</th><th>tod ned for mw ora Num</th><th>y F Pro nito vate tori iber:</th><th>Rec ptec ring r W es (201</th><th>ord g Pr et S SII</th><th>$\frac{1}{1-2}$</th><th>ZAZ-1008 vistrict ram Sonofi Vof Z) Wet) Composites</th></tr<>	Sampling Date:	J-ZI-IZ	Ven N P Con	C tura C IPDES Project nposite	hai oun Sto NI	in o ity V prm PDE Wee	of C Wat wat ES S ck I Proj	ersl er I itor Lab ect I	tod ned for mw ora Num	y F Pro nito vate tori iber:	Rec ptec ring r W es (201	ord g Pr et S SII	$\frac{1}{1-2}$	ZAZ-1008 vistrict ram Sonofi Vof Z) Wet) Composites
MO OXNINO - UN - 2n+12 X - 2n+12 X - 2n+12 X - X - X - X - X - X - X - X - X - X -	SAMPLE ID SAMPLE ID MOSTA MUSAA MOSTA MUSAA MOSTA MUSAA MOSTA MUSAA MOSTA MUSAA	DATE/TIME COLLECTED 1/21/12 8158 1/21/12 815 1/21/12 815 1/21/12 815 1/21/12 8150 1/21/12 04:40 1/21/12 04:10		X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X BOD, COD, MBAS, TKN, Ammonia, TOC	X X X X X NO3+NO2 (353.2), Cl, F (300.0), Phenolics	X X X X X Phosphorus-P Total & Dissolved	$ \times \times \times \times \times \times \times $ 625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	X X X X X 515.3-Herb 547-Glyphosate, 608-CTR	X X X X X 525.2 Reg+507, 525-OPP-LL	X X X X X X ALK, CLO4, Turb, TDS, TSS, VSS, Cond	1 1 1 1	Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods) Sampled By NOTES AA BS AA BS AA BS AA BS AA BS AA BS AA BS
MOLHUE 1-21-12 X <t< td=""><td>MO-OXNMO-ME</td><td>1-21/12 04:10 J-21-12 12:112-0845</td><td>-</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>A X</td><td>A X</td><td>A X</td><td>1</td><td>NH,BS</td></t<>	MO-OXNMO-ME	1-21/12 04:10 J-21-12 12:112-0845	-		X	X	X	X	X	A X	A X	A X	1	NH,BS
Relinquished Printed Name W.B. CAREY Signature W.B. CAREY Affiliation VCWAN Date/Time 1/21/12 Received Printed Name Herbor Sancher Signature Jate/Time Affiliation VCWAN Date/Time 1/21/12 Received Printed Name Herbor Sancher Signature Jate/Time Affiliation Date/Time Other Notes: Filter for dissolved metals and perform conductivity analyses immediately. Splitted Samples str Q.3.0 m Date/Duby	M <u>O-HUE</u>	1-21-12 3:30	10	x	X	X	X	X	X	X	X	X	1	
Relinquished Printed Name W.B. CAREY Signature N.B. CAREY Affiliation VCNAN Date/Time 1/21/12 Received Printed Name Heador Sourches Signature Affiliation VCNAN Date/Time Date/Time 1-21-12 Other Notes: Filter for dissolved metals and perform conductivity analyses immediately.														-
Other Notes: Filter for dissolved metals and perform conductivity analyses immediately. Splitfed Souples st	Relinquished Received	Printed Name W. Signature W-E Affiliation He Signature Affiliation	B. C icwp icwp	ARET Krey A	~ / /	50	Dat A	e/T	ime \6 ime	-	1/	21	112	1-12-
	Other Notes:	Filter for dissolved metal	s and pe	erform c	ondu	uctivi	ty ar	alys	es in	nmee	liate	ly.		Splitted samples sta 23pm 1/2/1/2

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VENTURA	COUNTY	Venti NF Pro	ora Co PDES oject: posite	Sto Sto NF s - V	ty V orm PDE Wee	Wat wat ES S ck J	ters ter l Stor Lab	hed Mor mw ora	nito vate	oteo orin, er W ies (g P /et s (SII	n D rog: Sea: DE	District ram son 2 of 2)
ampling Date:	1/21/12		10	-		Proj	ect l	Num	ber:	201	0/1:	1-2 (Wet) Composites
SAMPLE ID KO-SPA IO-FIL IO-SIM IO-MPK IO-THO IO-XN IO-SISH	DATE/TIME COLLECTED 1/21/12 0945 1/21/12 (1:00) 1/21/12 (1:00) 1/21/12 1130 1/21/12 1130		* × × * × × * × × * × ×	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 X X NO3+NO2 (353.2), CI, F (300.0), Phenolics	X X X X X Phosphorus-P Total & Dissolved	X X X X X X X 825-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 X 525.2 Reg+507, 525-OPP-LL	X X X X X X X X LK, CLO4, Turb, TDS, TSS, VSS, Cond	+ + 1 1 1 + Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods) NOTES
elinquished	Printed Name w-& Signature w-& Affiliation	· CA	REY			Dat	re/T	ime		./2		12	1500
eceived ther Notes:	Printed Name Signature Affiliation Filter for dissolved metals	se (27,7 and perfo	<u>ha</u>		T	Dat ty an	e/T:	ime es in		ah 1/ liate	\$ 21 ly.	1	2. 17:00

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Sampling Date.	12/1/2	1/12		Jom	ipos	site	s -	wee	ск I Proj	Lad ect l	ora Num	tori	201	0/11	JE 1-2 (Wet) Composites
SAMPLE ID ME-CC ME-SCR ME-VR2 MO-CAM MO-CAM MO-QIA MO-MEH MO-WEN	DATE/ COLLE 1/21/12 1/21/12 1/21/12	TIME CTED 1210 1310 1230	X X Barium, total	X Chlorine Residual		k k k k x x x x Metals, total & dissolved (+ Hardness)	X X X X X X X X X X X X X X X X X X X	X X X X X BOD, COD, MBAS, TKN, Ammonia, TOC	X X X X X NO3+NO2 (353.2), CI, F (300.0), Phenolics	X X X X X Phosphorus-P Total & Dissolved	X X X X X 625-CTR, 8270SIM-PAH, 8270SIM-Phencis *	X X X X X 315.3-Herb 547-Giphosate, 608-CTR	X X X X X 525.2 Reg+507, 525-OPP-LL		+ + + 1 I I 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.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods) NOTES NOTES
	Printed Nam	e <u>41.</u> <u>h</u>	B. 1-B	C	AR La	E			Dat		ime		1/-		12	1500
Relinquished	Affiliation	V.	こん							.C/ 1.	mic	_	11	241	12	

Management Program Annual Report 2011-2012

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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: 3-17-12 2011/12-3 Project Number: 2010/11=3 (Wet)

N. W. Peterson, J. S. F. J.

Sampling Team: D THOMAS

J. SIEGENT

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)		Number of Bottles	NOTES				
	MO-SPA	3-17-12 05:50	x	x		x	х		1	SL TO				
	MO-FIL	3-17-12 06:	X	х		Х	X		1					
	MO-SIM	3-17-12 97:50	X	X		X	x		1	•				
	MO-MPK	3-17-12 08:25	x	X		x	x		1					
	MO-THO	3-17-12 09:00	X	x		x	х		1	P.				
\$,	MO-OXN	1	x	x		x	X		1					
	MO-HUE		x	x		x	X		1					
Relinquished	hed Printed Name <u>DAVID F THOMAI</u> Signature <u>VCWPD UNSO</u> Date/Time <u>3.17.12</u> 10:44													
Received	Printed Name Signature Affiliation	Susan Ber S-B	ia.	_C Dat	e/Ti	ime		3	17/1	2:				

Other Notes:



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)

Project Number: 2010/11-3 (Wet)

Sampling Date: Sampling Team:

AA +NM

3.17-12

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LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	ME-CC	8:30 3.17.12	X	X	x	x	x			1	
T	ME-SCR	9130 3.17.12	x	x	x	x	х			1	
	ME-VR2		x	x	x	x	x			1	
	MO-CAM	6:00 3-17-12	x	x		x	x			1	
	-MO-OJA		x	x		x	x			1	
	MO MEI	-	x	x		x	x			1	
	-MO-VEN		x	x		x	x			1	
	- MB-1	-	x	x		x	x			1	
Relinquished	Printed Name Signature Affiliation	ARNE AN Arm Shu VCNPD	ISE A	Dat	1 	ime		5.	17.	12	10:30
Received	Printed Name Signature	Susan Ber B.B.	200	n	de	0	2	_			
	Affiliation	i		Dat	e/T	ime	3	117	//	2	. 1032
ler Notes:	Perform bacteriologi	cal analyses within 6 hours c	of sar	nple	coll	ectio	on tir	ne			



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:	3.17.12

Project Number: 2010/11-3 (Wet)

3

Date/Time

Sampling Team: AAINM

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			NOTES
	MO-SPA	-	X	X		х	x			1
	MO-FIL	-	X	x		x	х			1
	-MO-SIM	2	x	x		x	X			1
	MO-MPK		x	x		x	X			1
	MO-THO		X	x		x	x			1
	MO-OXN	5:00 8-17-17	X	x		x	X			1
	MO-HUE	7:30 38-17:12	X	X		X	x	-	:	1
Relinquished	Printed Name Signature Affiliation	ARNE ANS ARNE ANS NEWED	L	Date	e/Tin	me	5	3.17	.12	/0130
Received	Printed Name	Susan 3	eno		le	2		- 1		

Perform bacteriological analyses within 6 hours of sample collection time

Signature

Affiliation

Other Notes:

Sampling Date:	3/18/	12.		Ven N F Con	itur: JPD Proje apo	C a C DES ect: site	hai oun Sto NI :s -	n c aty V orm PDI We	of C Wat wat ES S ck]	Cus ers ter Stor Lat	toc hed Mo: rmv oora	ly] Pro nito vate tori	Rec oteo orin er W ies	core ctio g P /et (SII (SII	d n I rog Sea DE	2C[800] District gram son 1 of 2)
Sampling Date.			<u> </u>			·	0	-	Proj	ect.		Der:	<u></u>	- A	1-2 (Ιω	(Wet) Composites
		- D. 30	T <u>SC</u>	<u>ຍ</u>	<u> </u>			<u>)</u> T	1 1	<u>5</u> 	<u>, 1894</u> 	<u>\</u>	15	<u>, r</u>	J#V	
			otal	csidual compared to the second s		tal & dissolved (+ Hardness)		D, MBAS, TKN, Ammonia, TOC	2 (353.2), Cl, F (300.0), Phenolics	ss-P Total & Dissolved	8270SIM-PAH, 8270SIM-Phenols *	547-Glyphosate, 608-CTR	+507, 525-OPP-LL	14, Turb, TDS, TSS, VSS, Cond	f Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume
SAMPLE ID	(spother of 1) (spother of 2) (spother ot 2) (spoth															
ME-CC	3/18/12	08142	x	x	X	X	X	X	X	X	X	X	X	X	1	AA NM
ME-SCR	3/18/12	09:53	X	1		X	X	X	X	Х	x	Χ	Χ	Х	1	A A MAA LIMITED SAMPLE
ME-VR2	3/18/12	0830				X	Х	Χ	x	Х	x	Χ	Χ	X	1	KH. BS
MO-CAM	3/18/12	08:20				Χ	X	Χ	X	Х	x	Χ	Χ	X	1	AA.NM
MO-OJA	3/18/12	0735				Х	Χ	Χ	х	х	X	Х	Х	X	· 1	KH BS
MO-MEI	3/18/12	0755				Χ	Χ	X	X	Χ	x	X	X	Х	1	164,35
MO-VEN	3/18/12	0905				Х	Χ	X	Χ	X	Х	X	Χ	Х	1	KH, 35
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Relinquished	Printed Nan Signature	ne W.S	3. -B.	<u>c</u> . C	AR	EX			·				,			
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Other Notes:	Filter for dis	solved metal	s an	d pe	rforr	n co	nduc	tivit	y an	alyse	es im	med	iatel	<u>y.</u>		
Ventura (Countywide St	ormwater Qua	litv													Attachment E

Chain of Custody Record 22/8001 Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Composites - Weck Laboratories (SIDE 2 of 2) 20/1/1/2-3 Sampling Team: KH, 85, u36, 75, AA, N/M Metals by200.8, Total & Dissolved: Sh, 8, A, A, 8, B, CL, C, C, Fe, Ni, Pb, Se, Ti, Zn, Hg Metals by200.8, Total & Dissolved: Sh, 8, A, A, 8, B, CL, C, C, Fe, Ni, Pb, Se, Ti, Zn, Hg Wet use of the state of the st										•						
Contain of Custoly RecordVentura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Composites - Weck Laboratories (SDE2 of 2) 2011/2-3Sampling Date:3/18/12Project: NPDES Stormwater Wet Season Composites - Weck Laboratories (SDE2 of 2) 2011/2-3Sampling Team:KH, 35, ω 3C, T5, AA, μ MMMetals by 2008, Total & Dissolved: B, A, A, As, Be, Cd, Cr, C Fe, NI, Pb, Se, TI, Zr, He Metals by 2007, Total (or Ca, Mg (for Hardness ce 17 HL 17 HL 	a Prote		×			C	hai	n o	fC		tod	(₄₇]	200		-1	2018001
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Sampling Team: KH, 8S, ωBC; TS, AA, N/M Mo-SPA J/(8/12) OTH2 X	Sampling Date:	3/18/12	• •					_	Proj	ect l	Num	ber:	201	0/1 :	-3 (Wet) Composites
Momental Stample ID DATE/TIME Stample ID OD Stample ID OD Stample ID OD Stample ID Sta	Sampling Team:	KH, BS	S WBC,	5	A	A, K	JW	\		• •				•	• .	
MO-SPA $3/ 8/ 2$ 0.742 X <td>SAMPLE ID</td> <td>DATE/ COLLE</td> <td>TIME CTED</td> <td></td> <td></td> <td>{ Metals, total & dissolved (+ Hardness)</td> <td>{ Cr+6</td> <td>BOD, COD, MBAS, TKN, Ammonia, TOC</td> <td>; NO3+NO2 (353.2), Cl, F (300.0), Phenolics</td> <td>Phosphorus-P Total & Dissolved</td> <td>625-CTR, 8270SIM-PAH, 8270SIM-Phenols *</td> <td>515.3-Herb 547-Glyphosate, 608-CTR</td> <td>525.2 Reg+507, 525-OPP-LL</td> <td>ALK, CLO4, Turb, TDS, TSS, VSS, Cond</td> <td>Number of Bottles</td> <td>Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra(volume permits (all test methods)</td>	SAMPLE ID	DATE/ COLLE	TIME CTED			{ Metals, total & dissolved (+ Hardness)	{ Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	; NO3+NO2 (353.2), Cl, F (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	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra(volume permits (all test methods)
MO-FIL $3/8/12$ 0810 X X	MO-SPA	3/18/12	0742			X	X	X	X	X	۰X	X	Х	X.	_1	WBC, JS
MO-SIM $3/18/12$ 0916 X X	MO-FIL	3/18/12	0810			X	X	X	X	X	X	X	Х	Χ	1	WBC, JS
MO-MPK $31/8/12$ 0830 X <td>MO-SIM</td> <td>3/18/12</td> <td>0916</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>Χ</td> <td>X</td> <td>1</td> <td>WBC, JS</td>	MO-SIM	3/18/12	0916			X	X	X	X	X	X	X	Χ	X	1	WBC, JS
MO-THO $3 18 12$ 0952 X	MO-MPK	3/18/12	0830			X	X	X	X	Х	Χ	X	Χ	X.	1	WBC, JS
MO-OXN $318/12$ 07145 X	MO-THO	3/18/12	0952	•		X	X	X	X	X	X	Χ	Χ	Χ	1	WBC JS
$\frac{\text{MO-HUE}}{31812} \frac{31812}{912} \frac{318}{2} $	MO-OXN	3/18/12	07:45			X	X	X	X	Χ	X	Χ	X	Χ	1	AA, NM
	MO-HUE	3/18/12	09:12			X	X	X	X	X	X	Χ	Χ	X	1	AA, NM
								-	[•		:
Relinquished Printed Name W.B. CARY	Relinquished	Printed Name	· W.B	5- C	LAR	Y				,	•		. •	•		•
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Affiliation VCWPA Date/Time 10/19/1330		Affiliation	Ve -	NP	<u></u>	1			Dat	́ е/Ті	me		01	9.1	13	1330
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Affiliation Minerolane Date/Time 10/18/12 1330		Affiliation	1 Der	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	or A				Dat	e/Ti	те	10	/18	3/1	2	1330
	54 54 7		_ 		<u> </u>			5	200 100 100 100 100 100 100 100 100 100	-	x					
Other Notes: Filter for dissolved metals and perform conductivity analyses immediately.	Uther Notes:	Filter for disso	olved metal	s and	i perto	rm co	ndu	ctivit	ty an	alyse	S 1m	mec	uatel	у.		in an

Management Program Annual Report 2011-2012



3/17-18/2012

Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Equipment - Weck Laboratories 2011/[2-3

Project Number: 2010/11-3 (Wet) Equipment

Sampling Date:

Sampling Team:

EQUIPMENT	Clean with detergent and HNO3	No action required		NOTES
18.5 L carboy and lid	14			Please place tape or plastic bag over top
Blue cube cooler		14		
Black bags		14		

Relinquished	Printed Name	W.B. CAREY
	Signature	W-B. Carey
	Affiliation	VCWPD Date/Time 10/18/12 1330
Received	Printed Name	Phil Acosta ara gli da salla
	Signature	Appener Randa Am
	Affiliation	Rentularness Date/Time 10/18/12 1330 week labs
Other Notes:	* Please clean wi	th detergent, nitric acid, and deionized water per SOP.

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Sampling Date:	Sampling Date: 3/18/12 Chain of Custody Record 2018001 Ventura County Watershed Protection District NPDES Stormwater Monitoring Program NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Composites - Weck Laboratories (SIDE 1 of 2) 2011 //2 - 3 Project Number: 2010 //2 - 3 Project Number: 2010 //2 - 3																		
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		- D. 30	T <u>SC</u>	<u>ຍ</u>	<u> </u>			<u>)</u> T	1 1	<u>5</u> 	<u>, 1894</u> 	<u>\</u>	15	<u>, r</u>	J#V				
			otal	csidual compared to the second s		tal & dissolved (+ Hardness)		D, MBAS, TKN, Ammonia, TOC	2 (353.2), Cl, F (300.0), Phenolics	ss-P Total & Dissolved	8270SIM-PAH, 8270SIM-Phenols *	547-Glyphosate, 608-CTR	+507, 525-OPP-LL	14, Turb, TDS, TSS, VSS, Cond	f Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume			
SAMPLE ID	DATE	/TIME ECTED	Barium, to	Chlorine F	NO3-N	Metals, to	Cr+6	30D, CO	NO3+NO	hosphoru	625-CTR,	315.3-Herl	:25.2 Reg-	ALK, CLC	Vumber o	permits (all test methods)			
ME-CC	3/18/12	08142	x	x	X	X	X	X	X	X	X	Х	X	X	1	AA NM			
ME-SCR	3/18/12	09:53	X	1		X	X	X	X	Х	x	Χ	Χ	Х	1	A A MAA LIMITED SAMPLE			
ME-VR2	3/18/12	0830				X	Х	Χ	x	Х	x	Χ	Χ	X	1	KH. BS			
MO-CAM	3/18/12	08:20				Χ	X	Χ	X	Х	x	Х	Χ	X	1	AA.NM			
MO-OJA	3/18/12	0735				Х	Χ	Χ	х	х	X	Х	Χ	X	· 1	KH BS			
MO-MEI	3/18/12	0755				Χ	X	X	X	Χ	x	X	X	Х	1	164,35			
MO-VEN	3/18/12	0905				Х	Χ	Χ	Χ	X	Х	X	Χ	Х	1	KH, 35			
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Other Notes:	Filter for dis	solved metal	s an	d pe	rforr	n co	nduc	tivit	y an	alyse	es im	med	iatel	<u>y.</u>					
Ventura (Countywide St	ormwater Qua	litv													Attachment E			

Chain of Custody Record 22/8001 Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Composites - Weck Laboratories (SIDE 2 of 2) 20/1/1/2-3 Sampling Team: KH, 85, u36, 75, AA, N/M Metals by200.8, Total & Dissolved: Sh, 8, A, A, 8, B, CL, C, C, Fe, Ni, Pb, Se, Ti, Zn, Hg Metals by200.8, Total & Dissolved: Sh, 8, A, A, 8, B, CL, C, C, Fe, Ni, Pb, Se, Ti, Zn, Hg Wet use of the state of the st										•						
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Sampling Team: KH, 8S, ωBC; TS, AA, N/M Mo-SPA J/(8/12) OTH2 X	Sampling Date:	3/18/12	• •					_	Proj	ect l	Num	ber:	201	0/1 :	-3 (Wet) Composites
Momental Stample ID DATE/TIME Stample ID OD Stample ID OD Stample ID OD Stample ID Sta	Sampling Team:	KH, BS	S WBC,	5	A	A, K	JW	\		• •				•	• .	
MO-SPA $3/ 8/ 2$ 0.742 X <td>SAMPLE ID</td> <td>DATE/ COLLE</td> <td>TIME CTED</td> <td></td> <td></td> <td>{ Metals, total & dissolved (+ Hardness)</td> <td>{ Cr+6</td> <td>BOD, COD, MBAS, TKN, Ammonia, TOC</td> <td>; NO3+NO2 (353.2), Cl, F (300.0), Phenolics</td> <td>Phosphorus-P Total & Dissolved</td> <td>625-CTR, 8270SIM-PAH, 8270SIM-Phenols *</td> <td>515.3-Herb 547-Glyphosate, 608-CTR</td> <td>525.2 Reg+507, 525-OPP-LL</td> <td>ALK, CLO4, Turb, TDS, TSS, VSS, Cond</td> <td>Number of Bottles</td> <td>Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra(volume permits (all test methods)</td>	SAMPLE ID	DATE/ COLLE	TIME CTED			{ Metals, total & dissolved (+ Hardness)	{ Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	; NO3+NO2 (353.2), Cl, F (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	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra(volume permits (all test methods)
MO-FIL $3/8/12$ 0810 X X	MO-SPA	3/18/12	0742			X	X	X	X	X	۰X	X	Х	X.	_1	WBC, JS
MO-SIM $3/18/12$ 0916 X X	MO-FIL	3/18/12	0810			X	X	X	X	X	X	X	Х	Χ	1	WBC, JS
MO-MPK $31/8/12$ 0830 X <td>MO-SIM</td> <td>3/18/12</td> <td>0916</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>Χ</td> <td>X</td> <td>1</td> <td>WBC, JS</td>	MO-SIM	3/18/12	0916			X	X	X	X	X	X	X	Χ	X	1	WBC, JS
MO-THO $3 18 12$ 0952 X	MO-MPK	3/18/12	0830			X	X	X	X	Х	Χ	X	Χ	X.	1	WBC, JS
MO-OXN $318/12$ 07145 X	MO-THO	3/18/12	0952	•		X	X	X	X	X	X	Χ	Χ	Χ	1	WBC JS
$\frac{\text{MO-HUE}}{31812} \frac{31812}{912} \frac{318}{2} $	MO-OXN	3/18/12	07:45			X	X	X	X	Χ	X	Χ	X	Χ	1	AA, NM
	MO-HUE	3/18/12	09:12			X	X	X	X	X	X	Χ	Χ	X	1	AA, NM
	<u> </u>							-	[•		:
Relinquished Printed Name W.B. CARY	Relinquished	Printed Name	· W.B	5- C	LAR	Y				,	•		. •	•		•
Signature W.S. CAREY		Signature			CAC	εÝ	· .			,	2					<u></u>
Affiliation VCWPA Date/Time 10/19/1330		Affiliation	Ve -	NP	<u></u>	1			Dat	́ е/Ті	me		01	9.1	13	1330
Received Printed Name PARAPI Africes for	Received	Printed Name	2	AB	- 2 A B	212		her	اند مند هت ب	, ,_,	~		(· w 1	• •	
Signature All is not a		Signature	- F R	2	110	· · · · ·	2			Le	~					
Affiliation Minerolane Date/Time 10/18/12 1330		Affiliation 12 mar Date/Time 10/18/12 1330														
	54 54 7	- 10 - 20 - Serry														
Other Notes: Filter for dissolved metals and perform conductivity analyses immediately.	Uther Notes:	Filter for disso	olved metal	s and	i perto	rm co	ndu	ctivit	ty an	alyse	S 1m	mec	uatel	у.		in an

Management Program Annual Report 2011-2012



3/17-18/2012

Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Equipment - Weck Laboratories 2011/[2-3

Project Number: 2010/11-3 (Wet) Equipment

Sampling Date:

Sampling Team:

EQUIPMENT	Clean with detergent and HNO3	No action required		NOTES
18.5 L carboy and lid	14			Please place tape or plastic bag over top
Blue cube cooler		14		
Black bags		14		

Relinquished	Printed Name	W.B. CAREY
	Signature	W-B. Carey
	Affiliation	VCWPD Date/Time 10/18/12 1330
Received	Printed Name	Phil Acosta ara gli da salla
	Signature	Appener Randa Appen
	Affiliation	Rentularness Date/Time 10/18/12 1330 week labs
Other Notes:	* Please clean wi	th detergent, nitric acid, and deionized water per SOP.

2.40

1.1'C

Janorshod Vent	Protection Ogener	Chai Ventura Cour NPDES Sto Project: NI Bacteriologio	in o ity V ormv PDE cal -	f C Vate wate S S VC	ust ersh er N torn CHC	od led Ion nw CA	y R Pro niton aten Lab	lecc otect ring r We o (SII	ord ion Pro et Se DE	Dis ogra caso 1 o	strict m on f 2)
Sampling Date Sampling Team	4/24/12 K Habs	B. Sercy	-	Pro	ject :	Nun	nber	2011	1/12	-4 (I	Dry)
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	AB-65	1	Y	-X-	-Y-	x	v		-	4	
	MESER		v	v	v	ł	-		-	-	
-	ME-VR2	4/24/12 1055	x	x	X	x	X			1	
	210 CHN		-li-	H	_	-	X			-	
	MO-OJA	4/24/12 0910	x	X		X	x			1	
	MO-MEI	4/24/12 10:05	X	x		x	x		1	1	
	MO TEN		w	X		R	22		-	+	
			*	H	-	X	X	-	-	-	
elinquished	Printed Name Signature Affiliation	KELLY HA Kallyffels VEWPD	AHS	Date	:/Tir	me	4/:	24/1	2	1	150 POT
eceived	Printed Name	SALVADER	V.	B	AK	R	46	40	1		
	Signature Affiliation	P.H. LABT	K	Date	El /Tig	he	in	1.2	4-1	12	· · · · ·
her Notes:	Perform bacteriological analyses within 6 hours of sample collection time										



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:

5-22-12

2011/12-4 (Dry) Project Number: 2010/11_3 (Wet)

Sampling Team: W.B. CAREY & B. SEACJ

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
1	ME-CC		X	X	x	x	x	-		1	
	ME-SCR	5/22/12 9:35	x	x	x	x	x			1	
h	ME-VR2	1	x	x	x	x	x			1	
	MO-CAM		x	x		x	x			1	
	MO-OJA	÷	X	x		x	x			1	
	MO-MEI		X	X	(a) = 1	-X	x	-	-	ĩ	1
	MO-VEN	5/22/12 10:25	x	x		x	x			1	
	MB-1		x	x		x	x			1	
Relinquished Received	Printed Name Signature Affiliation Printed Name Signature Affiliation	BRAM BRAM S. Benn Supp		Date	e/Ti	me		5	122	· • • •	2 11:40





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:

5-24-12 WBC & BS Project Number: 2011/12-4 (Dry)

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)		Number of Bottles	NOTES
	ME-CC	5/24/12 1195	X	x	x	x	x		1	
	ME-SCR		X	X	x	х	X		1	
	ME-VR2		X	x	x	x	x		1	
	MO-CAM	5/21/12 1100	x	X		x	x		1	
	MO-OJA		X	X		X	X		1	
	MO-MEI		X	x		x	X		1	
	MO-VEN		x	x		x	x		1	
	MB-1		X	X		x	x		1	

Relinquished	Printed Name	BRAM SERCU
	Signature	
	Affiliation	<u>VC-WPD</u> Date/Time <u>5/24/2 0:06 pm</u>
Received	Printed Name	SALVADOR Y BARRAGAN
	Signature	Intoulog Au Banage
	Affiliation	PIHF-LAD / Date/Time 5.24.17 1306
Other Notes:	Perform bacteriolo	gical analyses within 6 hours of sample collection time



Chain of Custody Record 2D24087 Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Grabs - Weck Laboratories (SIDE 1 of 2)

Project Number: 2011/12-4 (Dry) Grabs

Sampling Date: Sampling Team: 4/24/2012 K. Hahs, B. Sercu

 FIDJECL	ivuilibei.	2011/	12-4	(DIY)	Gia

SAMPLE ID	DATE	E/TIME ECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-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-VR2	4/24/12	10:55	2	1	3	1									7	
MO-OJA	4/24/12	09:10	2	1	3	1									7	
MO-MEI	4/24/12	10:05	2	1	3	1									7	
																PICKEUP
Relinquished	Printed Na	me <u>β</u>	RAI	~		Sæ	RC		•		•					
	Signature															
	Affiliation	VC-h	- P.C)					Dat	e/Ti	ime	2	1/2	<u>4 i:</u>	2	1450
Received	Printed Na	me <u>All</u>	M	<u>ა</u>	6	OL	D:S	ER	24							
	Signature all															
	Affiliation	WE	СK	ι	-M	ذ ک			Dat	e/Ti	ime	ι 	17	24	112	1450
Other Notes:	Please run	1 524.2 on trave	l bla	nks	onlv	HL if co	UNA onsti	C- tuen	ts de	etect	Ч red in	2.1 1 019	1 / rinal	l Z_ anal	vsis	1700
	Received Attehanic Aren 4-24-12 17:00 1.4.C															
	Augentitue African - 1 1971 11:00 11															



Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Composites - Weck Laboratories (SIDE 1 of 1)

2024088

Sampling Date:

4/24/2012

Project Number: 2011/12-4 (Dry) Grabs

Sampling Team:	K. Hahs, B	. Sercu														······································
SAMPLE ID	DATE	, S/TIME ECTED	Barium, total	Chlorine Residual	NO3-N	Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (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	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods)
ME-VR2	4/24/12	10:55				X	X	X	X	Χ	Χ	Χ	Χ	Χ	1	
MO-OJA	4/24/12	0900				X	X	X	X	Χ	Χ	Χ	Χ	Χ	1	
MO-MEI	4/24/12	10:05				Χ	X	X	X	Χ	Χ	Χ	Χ	Х	1	
										-						
			<u> </u>													
			<u> </u>													
Relinquished	Printed Na	me	ßr	AM		SER	cυ									
•	Signature		-													
	Affiliation	VC-	νP	D					Dat	e/Ti	ime		4/2	4/1	٤	1450
Received	Printed Na	me Al	ln	N)	60	οų	⊃B ¢	en	L							

Received

Other Notes:

Ventura-Countywide Stormwater Management Program Annual F

Signature

Affiliation RELINQX

Filter for dissolved

Report 201 2012	11
C AMARY LIAA JOI	

metals and perform conductivity analyses immediately.

LARS

ECK

H24/12 1700 Monito IngReport Appendix E

Date/Time 4/24/12

Attachment E

1700

1450

h/24/12

Sampling Date:	Cl Ventura Co NPDES Project: Equ	hain o bunty V Storm NPDI hipmen	of Cus Waters water ES Stor nt - We Project	tody hed P Monit tmwat ck La Numbe	Record rotection District oring Program er Wet Season boratories r: 2011/12-4 (Dry) Equipment
EQUIPMENT 18.5 L carboy and lid Blue cube cooler Black bags	W Clean with detergent and HNO3	V V No action required			NOTES Please place tape or plastic bag over top
					SAMPLE PICKUP
Relinquished Printed Name 3 Signature Affiliation VC-C	RAN SE	RCC-	Date/T	[ime	4/24/12 1450
Received Printed Name <u>All</u> Signature <u>III</u> Affiliation <u>WER</u> RELINCX <u>AU</u> Other Notes: *Please clean with deterge	AN GUN CM LAB ent, nitric acid, a	S ALLA	Date/T	ter per S	1/24/12 1450 /24/12 1700 OP.

Management Program Annual Report 2011-2012

			Ţ	/en N	turz PD	Cł Ca ES	nain oun Sto	n o ty V orm	of C Wate wat	usi ersi er l	tod hed Mor	ly I Pro nito	Rec otec oring	core ctio g P	d n D rogi	2E22000 istrict ram
PRINTER IN			C	Com		site	s - 1	We	ck I	Lab	ora	tori	les ((SIJ	DE	1 of 2)
Sampling Date:	5/22/	(2			r				Proj	ect l	Num	ber:	201	1/12	2-4 (1	Dry) Composites
Sampling Team:	BS L	BC					-	•	,							
SAMPLE ID ME-CC	DATE	/TIME ECTED	X Barium, total	X Chlorine Residual	X NO3-N	× Metals, total & dissolved (+ Hardness)	X Cr+6	× BOD, COD, MBAS, TKN, Ammonia, TOC	× NO3+NO2 (353.2), Cl, F (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	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods) NOTES
ME-SCR	5/22/12	09:35	X			X	х	x	x	X	x	X	X	x	1	
ME-VR2						Х	х	x	X	X	х	Х	Х	Χ	1	
MO-CAM						х	х	x	х	х	х	X	х	х	1	SANDIE
МО-ОЈА						Χ	Х	X	X	Χ	Χ	X	X	X	1	
MO-MEI		•				X	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	1	FIGK-UP
MO-VEN	5/22/12	10:25				х	х	x	X	X	X	X	X	Χ	1	
Relinquished	$\frac{5/22/12}{\text{Signature}} \xrightarrow{\text{BRAM}} \xrightarrow{\text{SERCV}} \xrightarrow{\text{Date/Time}} \frac{5/22/12}{1410}$															
Received	Affiliation VC-WP) Date/Time 5/22/12 1410 Printed Name A-11AN GOLDBEACH Signature Affiliation MUGCK Date/Time 5/22/12 1410 AllAN OME															
KELINU.X Other Notes:	<u>Filter for dia</u>	ssolved meta	ls an	d pe	rfori	n co	ndu	ctivi	ty an	alyse	es in	mea	liate	57 ly.	221	12 1715
Ventura Manage	a G ountywide S ement Program	tormwater Qu Annual Repo	ality rt 201	11-20)12				Jo	WMU	(im	ગ		51	221 Mor	12 1715 210°C Attachment E

Sampling Date:	5/12/12	Ventu NF Pro Comp	Cl nra Co PDES Dject: Dosite	hain Sto NP s - V	n o ty W rmv PDE Wec	f C Vat wat ES S ck I Proj	ers ers er l Stor Lab	toc hed Mo mv ora	ly] Pr nito vate tor	Rec ote orin er W ies	cor ctio g P Vet (SII	d n I rog Sea DE	2622066 District gram ason 2 2 of 2) (Dry) Composites
Sampling Team:	135, was												arabitati - mar
SAMPLE ID	DATE/TIME COLLECTED		Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (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	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods)
MO-SPA			X	х	Χ	Х	Х	Х	Х	x	х	1	AUGUST AN AVEN AVEN AVEN
MO-FIL	5/22/12 8.28		X	х	X	Х	Х	X	X	Х	Х	1	SAMPLE
MO-\$IM			X	х	x	Х	х	X	X	X	Х	1	DICKIID
МО-МРК			X	x	X	x	Х	X	X	Х	X	1	
MO-THO			x	X	X	X	X	Χ	X	Χ	Χ	1	
MO-OXN	5/22/12 11:05		X	Х	X	Х	Χ	Χ	X	X	X	1	±7 L composite, use present
MO-HUE			X	X	X	Х	Χ	X	X	Χ	X	1	
Relinquished Received RELIN Q & X	Printed Name Signature Affiliation Printed Name Affiliation Affiliation KUAN Filter for dissolved meta	ECK	5 6 2 0 L D	Ben		Date	e/Ti e/Ti	me . me .	5 5 med	/22 5/2	$\frac{1}{2}$	12	1410 1410 1715



Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Grabs - Weck Laboratories (SIDE 1 of 2)

2E22068

Sampling Date: Sampling Team:

BS WOC

5/22/12

Project Number: 2011/12-4 (Dry) Grabs

SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hits			5					Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
ME-CC		3	1	3	1							·.	8	
ME-SCR	5/22/12 09:35	2	1	3	1								7	· · · · · · · · · · · · · · · · · · ·
ME-VR2		<u>,</u> 2	1	3	1								7	
MO-CAM		2	1	3	1								7	
мо-оја		2	1	3	1								7	, , , , , , , , , , , , , , , , , , ,
MO-MEI		2	1	3	1	-							7	· · · · · · · · · · · · · · · · · · ·
MO-VEN	5/22/12 10:25	2	1	3	1								7	SAMPLE
MO-OXN	5/22/12 11:05	2	1	3	1								7	PICKIE
MB-1		2	1	3	1								7	
Relinquished Received	Printed Name B Signature Affiliation Printed Name Signature	2AM To 6	20	5 FT		IS A	Enu	Dat	e/Ti	me	51	221	اك	1410

RELINQ X Other Notes:

> Ventura Countywide Stormwater Quality Management Program Annual Report 2011-2012

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filiation

ECK

Please run 524.2 on travel blanks only if constituents detected in orginal analysis

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Attachment E Monitoring Report Appendix E

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1410

SIZZIZ

7:15

Date/Time

22-12

Service Protection of		Vento NI Pr Gt	Chai ura Cour PDES Ste oject: NI rabs - We	in o nty V orm PDI eck i	of C Wat wat ES S Lat	Cus ersl ter l Stor	toc hed Mor mw	ly I Pro nito vate ies	Rec otec oring er W (SII	core ctio g P /et : DE	d n D rog Seas 2 o	Pistrict ram son f 2)
Sampling Date: $5($	nzliz			_	Proj	ject l	Num	ıber:	201	1/12	2-4 (1	Dry) Grabs
Sampling Team: 3	s, hbc						-					
		DATE	c/TIME	& Grease; O&G-NP (EPA 1664A)	mide (EPA 335.4)	BE & 2CLEVE (EPA 524.2)	vel Blanks (EPA 524.2)-only analyze if hits	A 515.3			mber of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
SAMPLE ID		COLL	ECTED	Oil	Cya	LΜ	Tra	EP/			ΠŊ	NOTES
MO-SPA		5/cette		2	1	3	1				7	
MO-FIL		5/21/12	8:28	2	1	3	1				7	
MO-SIM	- 			2	1	3	1				7	
MO-HUE				2	1	3	1				7	
MO-THO			•	2	1	3	1				7	
MO-MPK				2	1	3	1				7	
MO-MPK Upstream at RR								2			2	
Edison RC Pipe at MPK - Lo	ower							2			2	
Edison RC Pipe at MPK - U	pper		•					2			2	
Relinquished Printed Signatu Affiliati	Name Bla re de on VC-	CAM SET			Dat	e/Ti	me		5/:	22/1	ر	1410
Received Printed Signature	Name AL re Al	LINN	Gorde	ER	L							
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Chain of Custody Record Ventura County Watershed Protection District 2E24051 NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Composites - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	5-24	-17			-po		.0	we	Dec	iaat	Num	-b	. 201	1 /1	0 14	T O Z
Sampling Team:	W.B. C	AREY	Ś	8	. 3	ER	ون	_	FIU	Ject	INUII	iber		. 1 / 1	2-4 (Dry) Composites
SAMPLE ID	DATE/ COLLEO	LIME	Barium, total	Chlorine Residual	NO3-N	Metals, total & dissolved (+ Hardness)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F (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	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods)
	712-112	1195	X	x	x	X	X	X	Х	X	X	X	X	X.	1	
	aller	<u> </u>	X			X	X	X	Χ	X	X	Χ	Х	Χ	1	
ME-VK2	FALL					Χ	Χ	Χ	Χ	۰X	X	Χ	Х	Х	1	
MO-CAM	5124112	1100				Χ	Χ	Χ	Χ	Χ	X	Χ	Χ	Χ	1	
мо-оја						Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	Х	1	
MO-MEI						Χ	Х	Х	Χ	Χ	Х	Х	Х	X	1	
MO-VEN						Х	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	1	
																PICKUP
Relinquished	Printed Name Signature -	BR	2 Ar	1	5	BR	. C C									

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ana Management Program Annual Report 2011-2012

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ALIN G. ed metals and perform conductivity analyses immediately.

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Monitoring Report Appendix E

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5-24-12

Date/Time

Date/Time

			Ver N I Cor	itura C VPDES Project: nposite	oun Sto NI s -	nty V orm PDI We	Wat wat ES S ck l	ers ter 1 Stor Lab	hed Mo: mv ora	Pr nito vate	ote orin er W	ctio g P 7et (SII	n I rog Sea DE	District ram son 2 of 2)
Sampling Date:	5-24-1	2				-	Proj	ect]	Num	ber:	201	1/1	2-4 (Dry) Composites
Sampling Team:	W.B.CM	REY	ź.	B- SE	ER.C	J								····
SAMPLE ID MO-SPA MO-FIL MO-SIM MO-MPK MO-THO MO-OXN MO-OXN	DATE/TIM COLLECTE 5/24/12 09 5/24/12 10 5/24/12 12	E D 10 30		X X X X Metals, total & dissolved (+ Hardness)	X X X X X X X X X X X X X X X X X X X	X X X X X X X BOD, COD, MBAS, TKN, Ammonia, TOC	× × × × × × × × × NO3+NO2 (353.2), Cl, F (300.0), Phenolics	X X X X X X X X Phosphorus-P Total & Dissolved	X X X X X X X X 8 25-CTR, 8270SIM-PAH, 8270SIM-Phenols *	X X X X X X X X 215.3-Herb 547-Glyphosate, 608-CTR	X X X X X X X X 255.2 Reg+507, 525-OPP-LL	X X X X X X X X X X X LK, CLO4, Turb, TDS, TSS, VSS, Cond	1 1 1 1	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.) 608 include alpha- & gamma- chlordane * Same extraction with low- level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test methods) NOTES
Relinquished	Printed Name Signature Affiliation Printed Name	BRAI P e-~ AILA	n s PD	GREC GRA	RA		Date	=/Ti	me .		5/2	4/	12	1420
RELINCE X Other Notes:	Signature	Wh WH metals	CK And pe	LAVSS UAN rform co	- S.C. nduc	- <u>~</u>	Date y ana	e/Tir alyse	me s im	ک /ک	S/2 ZG	24 (, (i	112	1420 1755

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Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Grabs - Weck Laboratories (SIDE 1 of 2)

ZE24052

Sampling Date: 5-24-12

Project Number: 2011/12-4 (Dry) Grabs

Sampling Team: W.S. CAREY & B. SERCU

ß.	SEACU				

SAMPLE ID	DATE/ COLLEG	TIME CTED	Oil & Grease; O&G-NP (EPA 1664A)	Cyanide (EPA 335.4)	MTBE & 2CLEVE (EPA 524.2)	Travel Blanks (EPA 524.2)-only analyze if hit									Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
ME-CC	5(29/12	1145	3	1	3	1									8	
ME-SCR			2	1	3	1									7	
ME-VR2			2	1	3	1									7	· · · · · · · · · · · · · · · · · · ·
МО-САМ	5/24/12	1500	2	1	3	1									7	
МО-ОЈА			2	1	3	1									7	· · · · · · · · · · · · · · · · · · ·
MO-MEI			2	1	3	1									7	
MO-VEN		· .	2	1	3	1									7	
MQ-OXN			2	1	3	1									7	
MB-1			2	1	3	1									7	
Relinquished	Printed Name Signature	ß	RAN	2		58	RC							/		
Received	Affiliation Printed Name	AU	LAN 1	ະດ ບ (60	23	BE	irt	Dat	e/Ti	me		51	21	<u>/17</u>	1420
RUIN Q K Other Notes:	Affiliation Please run 524	LL WEC 2 On trave Tipl Cr.	K el bla	nks t	AP. AU Ja		J (onsti	G.	Dat its de	e/Ti	me ed in	5 5/~ 1 org	121 24 ginal	4] ([1 1 anal	Z ÿsis	1h2U 1755 7:55 1.5 C
Vonture	Countravido Stor	water Ou	olity			2	<u>,</u>									Attachmont E

Ventura Countywide Stormwater Quality Management Program Annual Report 2011-2012 Attachment E Monitoring Report Appendix E

Sampling Date:	<u>5 - 24 -</u>	12	Ventur NPI Pro Gra	Chai ca Cour DES Sta ject: N bs - We	in o nty` orm PDI eck	of C Wat iwa ES S Lat Proj	Cus ters Stor porz	toc hed Mo rmv ator	ly] Pr nite vate ies	Rec orin er W (SI	cor ctio g P Vet DE	d rog Sea 2 o 2-4 (District ram son f 2) Dry) Grabs
Sampling l'eam:	W.B.	CAREY	₽ ₿.	SERO									
SAMPLE ID		· · · ·	DATE/	TIME)il & Grease; O&G-NP (EPA 1664A)	yanide (EPA 335.4)	ATBE & 2CLEVE (EPA 524.2)	'ravel Blanks (EPA 524.2)-only analyze if hits	CPA 515.3			Jumber of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
MO-SPA			COLLE		2	1	<u>N</u> 3	<u>F</u> 1	E			Z 7	NOTES
MO-FIL					2	1	3	1				7	
MO-SIM	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • •	5/29/12	0910	2	1	3	1				7	
MO-HUE			5/24/12	1230	2	1	3	1				7	
MO-THO			5/29/12	1005	2	1	3	1				7	······
MO-MPK			- -		2	1	3	1				7	
MO-MPK Upstrea	m at RR								2			2	SANDIF
Edison RC Pipe at	MPK - Lower								2			2	
Edison RC Pipe at	MPK - Upper								2			2	IN IN COLUMN IN CA. UNCER IN
Relinquished Received RELINQX Other Notes:	Printed Name $\beta RAM S STRCC Signature MC - MPD Date/Time 5(24/12 - 1/420)Printed Name MUAN G G S(24/12 - 1/420)Signature MBCK Date/Time - 5/24/12 - 1/420MBCK Date/Time - 5/24/12 - 1/420MUAN G - 5/24/12 - 1/55$												

Sampling Date:	8/15/12	Major Outfall Dry Weather Monitoring Bacteriological - VCHCA Lab Sample Event: DRY 2012									
Sampling Team:	K.HAHS (A.B. CA	REY				-				
LAB USE		DATE	TIME	'otal Coliform (Tray Method - WQ IDEXX)	3. coli (Tray Method - WQ IDEXX)			Number of Bottles	NOTES		
ONLY	SAMPLE ID	COLLE	OLLECTED F					14	MO-CAM		
	Fillmore-1	glistia	09:15	1	X			1	MO-FIL		
	Meeroark-I	0115/12	01.13	$\hat{}$	1				MO-MPK		
	Ojai-1	8/15/12	07:50	×	×			1	MO-OJA		
	Oxnerd-1 MO-DXN	aluntio	1130	×	×			1	Month oxnard - 7		
	Port Hueneme-3	0/15/12	12:10	X	×			1	DRY-HUE3		
	Santa Paula-2	9/10/12	09:45	7	X			1	DRY-SPA2		
	Simi-Valley-1	5/10/1C			Í	15			MO-SIM		
	Thousand Oaks 1								MO-THO		
	Unincorporated-2-	1							DRY-UNI2		
	Ventura-1	8/15/12	10:30	×	×			1	MO-VEN		
Relinquished Printed Name KELLY HAHS Signature KELLY HAHS Affiliation VCUSPD Date/Time 8/15/12 Received Printed Name SUSAN Benardes Signature Affiliation Dthat Date/Time 9/15/12 1240											



Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Major Outfall Dry Weather Monitoring Bacteriological - VCHCA Lab

Sampling Date: Sampling Team:

KHAHS

Sample Event: DRY 2012

LAB USE ONLY	SAMPLE ID	DATE/TIME •©OLLECTED		E. coli (Tray Method - WQ IDEXX)		Number of Bottles	NOTES				
	Camarillo-1						MO-CAM				
	Fillmore-1.						MO-FIL				
	Moorpark-1-						MO-MPK				
	Ojai-1						МО-ОЈА				
	Oxnard-1						MO-OXN				
1	Port-I-ueneme-3,						DRY-HUE3				
	Santa-Paula-2,						DRY-SPA2				
	Sind Valley-1						MO-SIM				
	Thousand Oaks 1	A					МО-ТНО				
	Unincorporated-2	8/16/12 10:20	X	×			DRY-UNI2				
	Ventura-1-						MO-VEN				
Relinquished Received	Printed Name Signature Affiliation Printed Name Signature Affiliation	Kellyttels Glyttels Date/Time <u>8/16/12</u> 11:15 <u>SALVACK Y, BAKRATOTA</u> <u>P.H.L.+57</u> Date/Time <u>8/16/12</u> 1/15									
Other Notes:	4										

ampling Date:	August 16	Major Outfall Dry Weather Monitoring Bacteriological - VCHCA Lab Sample Event: DRY 2012									
ampling Team:	BS	WBC		_		_		-			
LAB USE		DATE/	ГІМЕ	otal Coliform (Tray Method - WQ IDEXX)	coli (Tray Method - WQ IDEXX)				umber of Bottles		
ONLY	SAMPLE ID	COLLE	CTED	Ĕ	E	-	-		Z	MO-CAM-	
		8110112	10.	-		+		inc'		MO-FIL	
	Filmore-1	Blillin	010	-		-		-	-	MO-MPK	
	Moorpark-1	\$1011C	σ	-				-		MO-OIA	
	Oyan-1					-	-	1		MO-OXN	
	Port Hueneme 3			-		-	-	-		DRY-HUE3	
	Santa Paula-2			-		+	-	1		DRY-SPA2	
	Simi Valley-1	x/16/17	855							M O-SIM	
	Thousand Oaks-1	8/16/12	940	-					1	MO-THO	
	Unincorporated-2					1				DRY-UNI2-	
	Ventura-1	1								MO-VEN	
(elinquished) (eceived)	Printed Name Signature Affiliation Printed Name Signature	BRAM VC-WP SAVAA	1 JET D Vor M	B	Date/	'Time <u>+64</u>	8 W	116	51	1055	

Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Major Outfall Dry Weather Monitoring Grabs - Weck Laboratories													
Sampling Date:	8/15/12	,+8/16/1	2	Sample Event: DRY 2012									
Sampling Team:	K. HAH	5 W.B (W.B. LAREY B. SERCU										
~.		DATE/7	TIME	tal Hardness	ç	isolved Metals by 200.8 ad, Zinc, Copper)		mber 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.)				
SAMPLE ID		COLLEC	TED	To	TC	(Le Di		Ž	NOTES				
Camarillo-1		8/16/12	1020				•	3	MO-CAM HEGGE TENE MIN	e.			
Fillmore-1		8/15/12	0915					3	MO-FIL lintescripte.	}			
Moorpark-1		8/16/12	09 10					3	MO-MPK Willing Sono				
Ojai-1		8/15/12	07:50					3	MO-OJA Othebolle is	wh			
Oxnard-1		8/15/12	11:30			1 		3	MO-OXN The marre	$\frac{1}{1}$			
Port Hueneme-3		8/15/12	12:10					3	DRY-HUE3 Nomber Crey				
Santa Paula-2		8/15/12	09:45					3	DRY-SPA2	-			
Simi Valley-1		8/16/12	0855					3	MO-SIM				
Thousand Oaks-1		8/16/17	940		<u> </u>			3	MO-THO	-			
Unicorporated-2		8/16/12	10:20					3	DRY-UNI2	-			
Ventura-1		8/15/12	10:30					3	MO-VENS AND				
Relinquished	Printed Name Signature	KELL	Y H	AHS						-			
	Affiliation		CWPP	<i>,</i> ,	Date/T	ime	8/16	<u>_lr</u>	2/13:55	-			
Received	Printed Name	ALMN CONSIGNL											
. ·	Signature	all	~/							_			
RECINQ	Affiliation	W/EC	il li	KS	Date/T	^{ime} 8 6/167	116/	12	1355	_			
Other Notes:	Contract	AE 12-0	01.	T.1	non ri L	NAM PA		11 0		-			
Ventura	C ountywide Storn	water Quality		JUN	<u>νηψ ()</u>	1. 10/	01	101		-			

Monitoring Report Appendix E