

NPDES 2006/2007 Water Quality Monitoring Event #1 (Wet), Dec 9-10, 2006 Summary

Sampling Duration = 24 Hours, 0.25" rainfall forecasted

Approximate Monitoring Duration = 12/9/06 21:00 to 12/10/06 21:00

Actual Sampling Duration(s):

ME-CC = 24 Hrs. ME-SCR = 24 Hrs. ME-VR2 = 24 Hrs.

A-1 = 24 Hrs. W-3 = 24 Hrs. W-4 = 24 Hrs.

Sampling Crew: David Thomas, Tommy Liddell

Weather Conditions: Raining, cold.

Field Calibration of Equipment: Beckman 255 pH meter calibrated on 12/05/06 (pH buffer standards: 4.0, 7.0, and 10.0.)

ME-CC Calleguas Creek (CSUCI Bridge)

(MS/MSD)

- 12/9/06 @ 13:30
4230: 1.388', 30 cfs, programmed for flow-paced sampling, trigger = 100,000 cf (VTS table = dry antecedent conditions, 18 L, .25" rain)
6712: Program => 1 pulse at start, 96 samples, 200 mL/sample, start date/time 12/9/06 @ 21:00.
- 12/9/06 @ 19:15
4230: 1.465', 47 cfs
6712: Adjust start time = 19:20, sample 1 volume = good.
- 12/9/06 @ 23:30
4230: 1.874', 190 cfs
6712: Sample 14 after 1 pulse
Grab samples: Taken at check dam @ 23:30, temp. = 14.5° C, field pH = 7.98
- 12/11/06 @ 11:30
4230: 1.368', 6 cfs @ 11:39
6712: "Program: Extended 1 in done", bottle is full, pump tubing = 794,764
Composite samples: Pulled @ 11:40, 20 L total volume.
Follow-up: none

ME-SCR Santa Clara River (Freeman Diversion)

- 12/9/06 @ 15:00
4210: -0.009', 0 cfs, NOTE: No flow over dam
6712: Programmed for time-paced sampling, 15 min. per sample, 4 bottles, 36 samples per bottle, 200 mL per sample, start date/time 12/9/06 @ 21:00
- 12/10/06 @ 00:15
4210: 0.031', 1 cfs, NOTE: Dam not spilling, roller gate is open, canal is not flowing.
Grab samples: Taken d/s roller gate on rock rip rap @ 00:15, temp. = 13.2° C, field pH = 8.19
- 12/11/06 @ 12:50
4210: 0.006', 01 cfs, @ 12:50
6712: "Program: Santa Clara is done; Warning, replace pump tubing; Errors have occurred during program" bottles #1= 9.5 L, #2 = 9 L, #3 = 8 L, #4 = 8 L.
Composite samples: Pulled @ 12:50

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Follow-up: None

ME-VR2 Ventura River (Ojai Valley Sanitation District)

MB-1 (Field Blanks)

- 12/9/06 @ 12:00
4230: 1.120', 2 cfs @ 12:15, programmed for flow-paced sampling, trigger = 15,000 cf (VTS table = dry antecedent conditions, 18 L, .25" rain)
6712: Program sampler, 1 pulse at start, 4 bottles, 24 samples per bottle, 200 mL/sample, start 12/9/06 @ 21:00, max. run time 24 hrs, pump tubing = 242,265 (NOTE: 200 mL is delivering approx. 330 mL).
- 12/9/06 @ 18:27
4230: 1.111', 1 cfs @ 18:35
6712: Adjust start time = 18:35, sample 1 volume = good.
- 12/10/06 @ 03:26
4230: 1.153', 4 cfs
6712: 13, 24 bottle #1 after 1 pulse, bottle #1 = 2-3 L (@ bottom of second band)
Grabs: Upstream intake line @ 03:30, temp. = 11.5° C, field pH = 8.2
- 12/11/06 @ 10:30
4230: 1.143', 4 cfs @ 10:30
6712: "Program: ME-VR2 is done", bottle #1 = 5 L, #2 = 2 L, #3 = 0.
MB-1 (Field Blanks) taken @ 10:30
Composite samples: Pulled at 10:30 = approx. 7 L total volume.
Follow-up: none

A-1 (Wood Road)

D-1 (Lab Duplicate)

- 12/9/06 @ 14:15
4250: 0.188', 1.18 cfs
6712: Programmed for time-paced sampling, 15 min., 4 bottles, 24 samples per bottle, 200 mL per sample, start date/time 12/9/06 @ 21:00
- 12/9/06 @ 19:46
4250: 1.143', 0.55 cfs
6712: Re-programmed start time 19:40, sample looks good, liquid detector failure
- 12/9/06 @ 22:30
Grabs: At ditch inlet @ 22:30, temp = 14.0° C, pH = 7.86
- 12/11/06 @ 11:09
4250: 0.155', 0.74 cfs
6712: "Program Wood Road is done", bottles #1 thru #4 = 2.5 L each
Composite samples: Pulled at 11:10, approx. 10 L total volume.
Follow-up: none

I-2 (Ortega)

- 12/10/06 @ 21:10
Toxicity grabs only @ 21:10

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R-1 (Swan)

- 12/10/06 @ 20:42
Toxicity grabs only @ 20:42

W-3 (La Vista Drain)

- 12/9/06 @ 14:36
4250: 0.022', 0 cfs
6712: Programmed for time-paced sampling, 15 min., 4 bottles, 36 samples per bottle, 200 mL per sample, start date/time 12/9/06 @ 21:00
- 12/9/06 @ 21:44
4250: 0.217', 1.3 cfs, 1.79**ft/s*, o/s = 0.4', adjust level = 0.4'
4250: 0.402', 2.5 cfs, 0.79**ft/s*
6712: 5, 36 bottle #1 in 00:13:00 @ 21:47, bottle #1 = approx. 1L (@ top of bottom ring)
Grabs: At end of wing wall @ 21:40, temp = NOT taken :\
12/11/06 @ xx:xx
4250: 0.182', 2 cfs @ no flow
6712: "Program: La Vista is done, errors have occurred during program", bottle #1 = 5L, #2 = 1L
Composite samples: Pulled at 12:30, approx. 6L total volume.

W-4 (Revolon Slough)

- 12/9/06 @ 14:09
4250: 1.107', 42 cfs
6712: Programmed for time-paced sampling, 15 min., 4 bottles, 36 samples per bottle, 200 mL per sample, start date/time 12/9/06 @ 21:00
- 12/9/06 @ 19:41
4250: 1.560', 132 cfs
6712: Re-programmed start time 19:41,
6712 ERROR: Distribution arm jammed, remove 6712 pump head, connection inside offset by 1 pin, corrected.
6712: Re-start program @ 20:00, sample volume = 2 L, stopped, clean liquid detect sensor, grab sample 200 mL = volume looks good, Re-start program @ 20:11
- 12/9/06 @ 23:00
Grabs: At middle of bridge @ 23:00, temp = 13.6° C, pH = 7.28

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W-4 (Revolon Slough) continued

- 12/11/06 @ 11:06
4250: 1.322', 77 cfs
6712: "Program: extended 1 is done", bottle #1 = very full, spilled, #2 = 8 L, #3 = 8 L, #4 = 7 L
Composite samples: Pulled @ 11:15, bottle #1 very thick w/ sediment.

Sample Tracking

- Bacteria samples to ABC on 12/10/06 @ 02:57 (6 hr hold time), and ME-VR2 @ 04:00 .
- Toxicity samples to ABC on 12/10/06 @ 03:00, and ME-VR2 @ 04:00
- Grab and composite samples to CRG on 12/11/06 @ 13:45, picked up by CRG staff (Charles Gossett) at Saticoy Operations Yard.

NPDES 2006/2007 Water Quality Monitoring Event #2 (Wet), Jan 27-29, 2007 Summary

Sampling Duration = 48 Hours, 0.25" rainfall forecasted

Approximate Monitoring Duration = 01/27/07 to 01/29/07

Actual Sampling Duration(s):

ME-CC = 19-3/4 Hrs. ME-SCR = 47 Hrs. ME-VR2 = 23 Hrs.

USCR = 36 Hrs.

Sampling Crew: David Thomas, Tommy Liddell

Weather Conditions: Raining, cold.

ME-CC Calleguas Creek (CSUCI Bridge)

MB-1 (Field Blanks)

- 01/27/07 @ 08:30
4230: 1.30', 16 cfs, programmed for flow-paced sampling, trigger = 100,000 cf (VTS table = dry antecedent conditions, 18 L, .25" rain)
6712: Program => 1 pulse at start, 96 samples, 200 mL/sample, start date/time 01/27/07 @ 08:30.
- 01/27/07 @ 18:40
4230: 1.719', 126 cfs
- 6712: Sample 16 after 1 pulses, bottle = 3-4 L
4230: 1.874', 190 cfs
6712: Sample 14 after 1 pulse
Grab samples: Taken at check dam @ 19:00, temp. = 14.9° C.
- 01/29/07
4230: 1.451, 44 cfs
6712: "Program is done", bottle is full, pump tubing = 1,060,034
Composite samples:
COMPOSITE BOTTLE DAMAGED: Composite bottle had a crack and sample volume was lost when pulled out of sampler for analysis.
NOTE: Composite field Blank samples NOT taken due to lost composite.
Follow-up: Double check all composite bottles in lab and prior to installation in sampler(s) for cracks.

ME-SCR Santa Clara River (Freeman Diversion)

(MS/MSD)

- 01/27/07 @ 11:05
4210: 0.0', 0 cfs, NOTE: No flow over dam or through roller gate, UWCD diverting all flow.
6712: Programmed for time-paced sampling, 30 min. per sample, 4 bottles, 24 samples per bottle, 200 mL per sample, start date/time 01/27/07 @ 11:15, Observed sample 1, volume looked good.
- 01/27/07 @ 19:30
4210: 0.055', 2 cfs.
6712: 18, 24 bottle 1 in 00:03:00, bottle 1 = 4L
Grab samples: Taken in canal @ 19:45, temp. = 13.3° C.
- 01/29/07 @ 10:30
4210:
6712: 24, 24 bottle 4 in 00:20:00, stop program @ 10:30, bottles #1= 4.5 L, #2 = 4 L, #3 = 4.5 L, #4 = 4.5 L.
Composite samples: Pulled 20 L @ 10:30
Follow-up: None

NPDES 2006/2007 Event #2 (Wet)

ME-VR2 Ventura River (Ojai Valley Sanitation District)

MD-1 (Field Duplicates)

- 01/27/07 @ 10:15
4230: 1.222, 9 cfs, programmed for flow-paced sampling, trigger = 15,000 cf (VTS table = dry antecedent conditions, 18 L, .25" rain)
6712: Program sampler, 1 pulse at start, 4 bottles, 24 samples per bottle, 200 mL/sample, start 01/27/07 @ 10:30, max. run time 48 hrs, pump tubing = 224,041 (NOTE: 200 mL is delivering approx. 330 mL).
- 01/27/07 @ 22:00
4230: 1.265, 12 cfs.
6712: 9, 24 bottle 2 after 1 pulses, bottle 1 = 5L, 2 = 2L
Grabs: Upstream intake line @ 22:00 temp. = 14.2° C.
- 01/29/07 @ 12:00 noon
4230: 1.240, 11 cfs @ 12:00
6712: "Program: ME-VR2 is done", bottle #1 thru 4= 5 L.
Composite samples: Pulled at 12:00 = approx. 20 L total volume.
Follow-up: none

Sample Tracking

- Bacteria samples to VCHCA on 01/27/07 @ 23:10.
- Toxicity samples to ABC on 01/28/07 @ 09:55.
- Grab and composite samples to CRG on 01/29/07 @ 12:30, picked up by CRG staff (Chuck) at Saticoy Operations Yard.

NPDES 2006/2007 Water Quality Monitoring Event #3 (Wet), Feb 22-23, 2007 Summary

Sampling Duration = 24 Hours, 0.50" - 0.75" rainfall forecasted
Approximate Monitoring Duration = 24 hours, 02/22/07 @ 12:00 noon to
02/23/07 @ 12:00 noon

Actual Sampling Duration(s):

ME-CC = 23.5 Hrs. ME-SCR = 24.25 Hrs. ME-VR2 = 22.5 Hrs.

USCR = 24 Hrs.

Actual Rain Amounts:

ME-CC = 0.31 ME-SCR = 0.35 ME-VR2 = 0.38

USCR = 0.36

Sampling Crew: David Thomas, Tommy Liddell

Weather Conditions: Raining, cold.

ME-CC Calleguas Creek (CSUCI Bridge)

MS/MSD

- 02/22/07 @ 09:30
4230: 1.439', 41 cfs, programmed for flow-paced sampling, trigger = 160,000 cf (VTS table = dry antecedent conditions, 18 L, .25"/.50" rain)
6712: Program => 1 pulse at start, 96 samples, 200 mL/sample, start date/time 02/22/07 @ 10:00.
- 02/22/07 @ 17:45
4230: 1.653', 102 cfs
6712: Sample 9 after 1 pulses, bottle = 2 L
Grab samples: Taken at check dam @ 18:00, temp = 16.3° C.
- 02/23/07
4230: 1.477', 50 cfs
6712: Sample 52 after 1 pulses, stop program @10:03, bottle = 11 L, pump tubing = 545,915
Composite samples: Pull composite @ 10:00
Follow-up: none

ME-SCR Santa Clara River (Freeman Diversion)

MB-1 (Field Blank)

- 02/21/07 @ 14:15
4210: 0.003', 0 cfs, NOTE: No flow over dam or through roller gate, UWCD diverting all flow.
6712: Programmed for time-paced sampling, 30 min. per sample, 4 bottles, 24 samples per bottle, 200 mL per sample, start date/time 02/22/07 @ 15:00
- 02/22/07
6712: Re-Program start time 02/22/07 @ 10:00
- 02/22/07 @ 16:55
4210: 0.026', 0 cfs
6712: 21, 24 bottle 1 in 00:05:00, bottle 1 = 4.5 L
Grab samples: Taken in canal @ 17:00, temp = 15.6° C.

NPDES 2006/2007 Event #3 (Wet)

ME-SCR continued

- 02/23/07 @ 11:25
4210: 0.008', 0 cfs
6712: 23, 24 bottle 4 in 00:04:00, "Errors have occurred during program", stop program @ 11:26, bottles #1= 5 L, #2 = 5 L, #3 = 4.5 L, #4 = 4.5 L
pump tubing = 812.000
Composite samples: Pulled 20 L @ 11:30
MB-1 (Field Blanks) collected @ 11:20
Follow-up: None

ME-VR2 Ventura River (Ojai Valley Sanitation District)

- 02/22/07
4230: 1.163', 5 cfs, programmed for flow-paced sampling, trigger = 20,000 cf (VTS table = dry antecedent conditions, 18 L, .25"/0.50" rain)
6712: Program sampler, 1 pulse at start, 4 bottles, 24 samples per bottle, 200 mL/sample, start 02/22/07 @ 10:00, max. run time 24 hrs (NOTE: 200 mL is delivering approx. 330 mL).
- 02/22/07 @ 14:45
4230: 1.239, 10 cfs.
6712: 7, 24 bottle 1 after 1 pulses, bottle 1 = 2 L
- 02/22/07
4230: 1.236', 10 cfs @ 15:45, Re-Program trigger = 18,000 (ref. 10 cfs, 600 cfm, 36,000 cfh = 18,000 cf 1/2h @ 10 cfs)
6712: 9, 24 bottle 1 after 1 pulse,
Grab samples: Upstream intake line @ 16:00, temp = 15° C.
- 02/23/07 @ 8:55
4230: 1.214', 9 cfs @ 8:55
6712: 18, 24 bottle 2 after 1 pulse, Stop program @ 08:58, bottle #1 = 6 L, #2 = 3 L.
pump tubing = 237,893
Composite samples: Pulled @ 9:00 = approx. 9 L total volume.
Follow-up: none

Sample Tracking

- Bacteria samples to VCHCA on 02/22/07 @ 20:18.
- Toxicity samples to ABC on 02/23/07 @ 08:30.
- Grab and composite samples to CRG on 02/23/07 @ 14:40, picked up by CRG staff (Chuck and Adam) at Saticoy Operations Yard.