

QUALIFYING RAIN EVENT SAMPLING AND ANALYSIS PLAN—LAKE TAHOE HYDROLOGIC UNIT

CEM-2049T (NEW 03/2012)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
CONTRACTOR NAME AND ADDRESS	Project resides in the Lake Tahoe Hydrologic Unit and is regulated under order no. R6T-2011-0019, NPDES no. CAG616002
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)	DATE

Qualifying Rain Event Sampling and Analysis Plan

Weather Forecast Information

Attach forecasted precipitation information printout from the NOAA website.

Weather Forecast at _____ (time) _____ (date)

24-Hour Forecast	48-Hour Forecast	72-Hour Forecast
DATE	DATE	DATE
Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %
Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches

Forecasted amount of Precipitation

What is the forecasted cumulative amount of precipitation for storm event? _____ inches	Is the forecasted cumulative amount of precipitation for storm event anticipated to cause runoff? <input type="checkbox"/> YES <input type="checkbox"/> NO
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Sampling Schedule

Based on the weather forecast, stormwater discharge sampling is required to begin on _____ (date) at approximately _____ (time).

Stormwater discharge sampling is required every 24 hours during an extended storm event. Based on the predicted duration of the storm event, storm water discharge sampling is required on the following dates:

The order in which stormwater discharge sample location will be sampled:

- Numeric order by location number
- Reverse numeric order by location number
- The following specified order _____

Reason for specified sampling order _____

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Qualifying Rain Event Sampling and Analysis Plan

Complete "Qualifying Rain Event Sampling and Analysis Worksheet" to determine sampling locations for storm event.

Non-Visible Pollutant Sampling Locations

Complete worksheet to determine non-visible pollutant sampling locations.

- No sampling locations for non-visible pollutants exist for this storm event.
 Table 1 shows sampling locations for non-visible pollutants for this storm event.

Table 1: Rain Event Non-Visible Pollutant Sampling Locations

Location Number	Uncontaminated Location Number	Location	Sample Type	Water Quality Indicator Constituent	Analysis

Stormwater Discharge Sampling Locations

- No sampling locations for turbidity and pH exist for this storm event.
 Table 2 shows sampling locations for required turbidity and pH analysis, optional SSC analysis, and other analysis for this storm event.

Table 2: Storm Event Sampling Locations for Turbidity and pH

Location Number	Location	Required Analysis	Optional Analysis
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other

Other Analyses Required _____

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Project Site Run-on Sampling Locations

- No project site run-on locations to be sampled exist for this storm event.
 Table 3 shows sampling locations for project site run-on for this storm event.

Table 3: Qualifying Event Sampling Locations

Location Number	Location	Required Analysis	Optional Analysis
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other

Other Analyses Required _____

Project Site Receiving Water Sampling Locations

- No receiving water locations to be sampled exist for this storm event.
 Table 3 shows receiving water sampling locations for this storm event.

Table 4: Receiving Water Sampling Locations

Location Number	Location	Required Analysis	Optional Analysis
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> Other

Other Analyses Required _____

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Table 5: Sampling Locations for Rain Event Listed in Numeric Order

Number	Location Number	QCQA									
1			11			21			31		
2			12			22			32		
3			13			23			33		
4			14			24			34		
5			15			25			35		
6			16			26			36		
7			17			27			37		
8			18			28			38		
9			19			29			39		
10			20			30			40		

Qualifying Rain Event Sampling and Analysis Plan Certification

I certify under penalty of law that this Qualifying Rain Event Sampling and Analysis Plan was prepared by me or under my direction or supervision. The information contained in the summary was gathered and evaluated by qualified personnel before submittal. Based on my review of the information and inquiry of those who gathered and evaluated the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that Section 309 (c)(4) of the Clean Water Act (CWA) provides for significant penalties, including fines and imprisonment, for knowingly submitting false material statement, representation, or certification.

Water pollution control manager name	Date
Water pollution control manager signature	

Qualifying Rain Event Sampling and Analysis Plan Review

Reviewed by resident engineer (name)	Date
Resident engineer signature	

Instructions

FORM

Contract Number/Co/Rte/PM

For local agency encroachment permit projects write the encroachment permit number in the Contract Number field.

Project Identifier Number

Caltrans projects starting July 1, 2010, will have a project identifier number. For projects without a PID, write N/A in the field.

WDID Number

For projects with Water Pollution Control Program, enter "WPCP" in this field.

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Qualifying Rain Event Sampling and Analysis Plan Worksheets

Determining Non-visible Pollutant Sampling Locations

Instructions: Enter the potential non-visible pollutant sampling locations from SWPPP Attachment EE. From pre-storm site visual monitoring inspection, determine if the pollutant source is present and check the appropriate box. For each potential non-visible sampling location, determine from the pre-storm site visual monitoring inspection if any of the five criteria for triggering sampling and analysis for non-visible pollutant are met and check the appropriate box in "Pre-storm site inspection identified trigger for sampling?" column.

The five triggers for sampling non-visible pollutant sampling locations are:

1. Materials or waste containing non-visible pollutants are not stored under watertight conditions.
2. Materials or waste containing non-visible pollutants are stored under watertight conditions, but (1) a breach, malfunction, leakage, or spill is observed, (2) the leak or spill is not cleaned up before the storm event, and (3) a potential exists for discharge of non-visible pollutants.
3. A construction activity with potential to contribute non-visible pollutants (1) was occurring within 24 hours before the storm event; (2) applicable BMPs were observed to be breached, malfunctioning, or improperly implemented; and (3) a potential exists for discharge of non-visible pollutants.
4. Soil amendments have been applied and the potential exist for a discharge of non-visible pollutants.
5. Stormwater runoff from an area contaminated by historic site use has the potential to combine with stormwater runoff from the site and potential exists for a discharge of non-visible pollutants.

Non-visible Pollutant Sampling Required?

- No—If no pollutant sources are present, sampling stormwater discharges for non-visible pollutants is not required.
- No—If pre-storm site visual monitoring inspection identified no triggers that require sampling for non-visible pollutants, sampling stormwater discharges for non-visible pollutants is not required.
- Yes—If the pollutant source is present and the answer to any trigger question above is "yes," check the box in the "Storm Event Sample Locations" column.

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Qualifying Rain Event Sampling and Analysis Plan Worksheets, continued

Table A: Potential Project Site Non-Visible Pollutant Sampling Locations

Location Number	Untamated Location Number	Location	Pollutant Source	Active Pollutant Source		Pre-storm inspection identified trigger for sampling?		Storm Event Sample Location
				Yes	No	Yes	No	

Enter into Table 1 on CEM-2049, "Qualifying Rain Event Sampling and Analysis Plan," all locations checked in the "Storm Event Sample Location" column of the Table A worksheet. Refer to SWPPP Attachment EE to determine pollutant and water quality indicator constituent and SWPPP Section 700.X.X for information to complete Table 1.

**Worksheet for Determining Non-Visible Rain Event Sampling and Analysis Plan for
 Locations Identified by Pre-Storm Site Monitoring Inspections Not Shown on SWPPP Attachment EE**

Instructions: List in Table B any project site non-visible sampling location identified by pre-storm site visual monitoring not identified in SWPPP Attachment EE Table, "Potential Sampling Locations for Non-visible Pollutants." Determine pollutant source, pollutant, and water quality indicator constituent and enter the information into Table B.

Table B: Non-Visible Pollutant Sampling Locations Identified by Pre-Storm Site Inspection

Location Number	Untamated Location Number	Location	Pollutant Source	Pollutant	Water Quality Indicator Constituent

Enter the information from worksheet Table B into Table 1 on CEM-2049, "Qualifying Rain Event Sampling and Analysis Plan."

