

**ATTACHMENT II  
Monitoring Constituent List**

Constituent	Analytical Method	Reporting Limit <sup>1</sup>	Units	Congested Hwy Runoff	Freeflowing Hwy Runoff	Inspection and Weigh Stations	Park and Ride Lots	Roadside Rest Areas	Toll Plazas	Maintenance Yards	Treatment Control Sites <sup>2</sup>	
												WATER COLUMN CHEMISTRY
<b>Conventional Pollutants</b>												
Conductivity	Calibrated Field Instrument	1	umhos/cm	x	x	x	x	x	x	x	-	
Hardness as CaCO <sub>3</sub>	SM 2340 B or C	5	mg/L	x	x	x	x	x	x	x	-	
pH	Calibrated Field Instrument	6.5-8.0	pH Units	x	x	x	x	x	x	x	-	
Temperature	Calibrated Field Instrument		°C +/-	x	x	x	x			x	-	
Flow rate	Calibrated Field Instrument	0.01	ft <sup>3</sup> /s	x	x	x	x	x	x	x	-	
Total Dissolved Solids	EPA 160.1	1	mg/L	x	x	x	x	x	x	x	-	
Total Suspended Solids	EPA 160.2	1	mg/L	x	x	x	x	x	x	x	-	
Organic Carbon (Total)	EPA 415.1	0.5	mg/L	x	x	x	x	x	x	x	-	
<b>Hydrocarbons</b>												
Ethylene Glycol (antifreeze)	EPA 8015B	Unk	mg/L	x	x	x	x	x	x	x	-	
Propylene Glycol (antifreeze)			mg/L	x	x	x	x	x	x	x	-	
Oil & Grease	EPA 1664B	1.4	mg/L	x	x	x	x	x	x	x	-	
TPH (Diesel)	EPA 8015B Full Range	50	ug/l	x	x	x	x	x	x	x	-	
TPH (Gasoline)	EPA 8015B Full Range	50	ug/l	x	x	x	x	x	x	x	-	
TPH (Heavy Oil)	EPA 8015B Full Range	50	ug/l	x	x	x	x	x	x	x	-	
Polynuclear Aromatic Hydrocarbons (Total) <sup>3</sup>	SM 8310	0.05	ug/l	x	x	x	x	x	x	x	-	
<b>Nutrients</b>												
Ammonia as Nitrogen (NH <sub>3</sub> -N)	EPA 350.2	100	ug/l	x	x	x	x	x	x	x	-	
Nitrate as Nitrogen (NO <sub>3</sub> -N)	EPA 300.0	100	ug/l	x	x	x	x	x	x	x	-	
Nitrite as Nitrogen	EPA 300.0	100	ug/l	x	x	x	x	x	x	x	-	
Total Kjeldahl Nitrogen (TKN)	EPA 351.3	100	ug/l	x	x	x	x	x	x	x	-	
Nitrogen (Total)	Calculate	100	ug/l	x	x	x	x	x	x	x	-	
Phosphorus (Total)	EPA 365.2	30	ug/l	x	x	x	x	x	x	x	-	
Ortho-Phosphate (Total & Dissolved)	EPA 365.3	10	ug/l	x	x	x	x	x	x	x	-	
<b>Metals</b>												
Aluminum (Total)	EPA 200.8	25	ug/l	x	x						-	
Arsenic (Total)	EPA 200.8	1	ug/l	x	x	x	x	x	x	x	-	
Barium (Total)	EPA 200.8	1	ug/l	x	x	x					-	
Cadmium (Total)	EPA 200.8	0.2	ug/l	x	x	x	x	x	x	x	-	
Chromium (Total)	EPA 200.8	1	ug/l	x	x	x	x	x	x	x	-	
Copper (Total)	EPA 200.8	1	ug/l	x	x	x	x	x	x	x	-	
Iron (Total)	EPA 200.8	1	ug/l	x	x					x	-	
Lead (Total)	EPA 200.8	1	ug/l	x	x	x	x	x	x	x	-	
Mercury (Total) <sup>4</sup>	EPA 245.7	0.2	ug/l	x	x	x	x		x	x	-	
Nickel (Total)	EPA 200.8	2	ug/l	x	x	x	x	x	x	x	-	
Platinum (Total)	EPA 255.2	20	ug/l	x	x						-	
Selenium (Total) <sup>5</sup>	EPA 200.8	1	ug/l	x	x	x					-	
Silver (Total)	EPA 200.8	1	ug/l	x	x						-	
Zinc (Total)	EPA 200.8	5	ug/l	x	x	x	x	x	x	x	-	
<b>Pesticides &amp; Herbicides</b>												
Clpyralid	USGS 0-2060-01	1	ug/l	x	x		x	x		x	-	
Bromacil	EPA 507	1	ug/l	x	x		x	x		x	-	
Diuron	EPA 632	0.1	ug/l	x	x		x	x		x	-	
Glyphosate	EPA 547	5	ug/l	x	x		x	x		x	-	
Isoxaben	EPA 8141	1	ug/l	x	x		x	x		x	-	
Oryzalin	EPA 638	0.5	ug/l	x	x		x	x		x	-	
Other <sup>6</sup>				x	x		x	x		x	-	
<b>Micro Biological</b>												
Fecal Coliform	SM 9221 C E	2	MPN/100mL	x	x		x	x			-	
Total Coliform	SM 9221B	2	MPN/100mL	x	x		x	x			-	
<b>WATER COLUMN TOXICITY</b>												
Acute	EPA 821-R-02-012	1	TUa	x	x	x	x	x	x	x	-	
Chronic	EPA 821-R-02-013	0	TUc	x	x	x	x	x	x	x	-	

**NOTES:**  
X - Required monitoring

<sup>1</sup> Reporting limits should be sufficient enough to detect the presence of a constituent based on the applicable Regional Water Board Basin Plan. If no limit is specified in the Basin Plan, the reporting limit specified in this table will be used. If no limit is specified in this table, then the Regional Boards shall be consulted.

<sup>2</sup> Site Specific - Constituents analyzed shall be the same as specified for the highway or facility type at each control-site location.

<sup>3</sup> Applicable only to sites where pavement sealants have been used within one year

<sup>4</sup> On case-by-case basis, Method 1631 (RL 0.5 ng/l) can be used if greater sensitivity is needed.

<sup>5</sup> Required only where deicers are used.

<sup>6</sup> Pesticides and Herbicides shall be analyzed based on the specific chemicals used at each location