APPENDIX G: ANALYTICAL METHODS

Analyte	Project Action Limit (units, wet or dry weight)	Project Reporting Limit (units, wet or dry weight)	Analytical Method		Achievable Laboratory Limits	
			Analytical Method/ SOP	Modified for Method yes/no	MDLs (1)	Method (1)
Central Valley Regional Board						
Dissolved Oxygen	NA	NA	360.1	No	NA	NA
Specific Conductivity	NA	NA	b/120.1	No	NA	NA
pH	NA	NA	a/150.1	No	NA	NA
Temperature	NA	NA	Temperature	No	NA	NA
Turbidity	NA	NA	*SM 2130B / EPA 180.1	No	NA	NA
ExcelChem Environmental Labs						
Boron	NA	50.0 µg/L	ICP or MS	No	0.8 µg/L	EPA 200.7
Sodium	NA	200 µg/L	ICP or MS	No	120 µg/L	EPA 200.7
Aluminum	NA	50.0 µg/L	ICP or MS	No	24.5 µg/L	EPA 200.7
Arsenic	NA	10.0 µg/L	ICP or MS	No	1.0 µg/L	EPA 200.7
Iron	NA	20.0 µg/L	ICP or MS	No	11.5 µg/L	EPA 200.7
Manganese	NA	10.0 µg/L	ICP or MS	No	0.6 µg/L	EPA 200.7
Chloroform	NA	0.5 µg/L	GC/MS	No	0.1µg/L	EPA 8260B
Bromodichloromethane	NA	0.5 µg/L	GC/MS	No	0.1 µg/L	EPA 8260B
Dibromochloromethane	NA	0.5 µg/L	GC/MS	No	0.08 µg/L	EPA 8260B
Bromoform	NA	0.5 µg/L	GC/MS	No	0.1 µg/L	EPA 8260B
MBAs	NA	0.100 mg/L	Wet Chemistry	No	0.0600 mg/L	SM5540C
Nitrate as Nitrogen	NA	0.11 mg/L	Ion Chromatography	No	0.02 mg/L	EPA 300.0
Nitrite as Nitrogen	NA	0.15 mg/L	Ion Chromatography	No	0.02 mg/L	EPA 300.0

Analyte	Project Action Limit (units, wet or dry weight)	Project Reporting Limit (units, wet or dry weight)	Analytical Method		Achievable Laboratory Limits	
			Analytical Method/ SOP	Modified for Method yes/no	MDLs (1)	Method (1)
Moore Twining Associates						
Boron	NA		ICP or MS	No	50 µg/L	EPA 200.7
Sodium	NA		ICP or MS	No	1000 µg/L	EPA 200.7
Total Dissolved Solids	NA		Dried at 180°C	No	10000 µg/L	EPA 2540
Ammonia as Nitrogen	NA		Ion Chromatography	No	1 µg/L	EPA 350.2
Hardness	NA		ICP or MS	No	660 µg/L	EPA 200.7
Sulfate	NA		Ion Chromatography	No	2000 µg/L	EPA 300
Chloride	NA		Ion Chromatography	No	2000 µg/L	EPA 300
Fluoride	NA		Ion Chromatography	No	100 µg/L	EPA 300
Barium	NA		ICP or MS	No	10 µg/L	EPA 200.7
Lead	NA		ICP or MS	No	2 µg/L	EPA 200.9
Antimony	NA		ICP or MS	No	5 µg/L	EPA 200.7
Beryllium	NA		ICP or MS	No	1 µg/L	EPA 200.7
Cadmium	NA		ICP or MS	No	1 µg/L	EPA 200.7
Chromium	NA		ICP or MS	No	5 µg/L	EPA 200.7
Nickel	NA		ICP or MS	No	5 µg/L	EPA 200.7
Thallium	NA		ICP or MS	No	1 µg/L	EPA 200.9
Copper	NA		ICP or MS	No	5 µg/L	EPA 200.7
Silver	NA		ICP or MS	No	5 µg/L	EPA 200.7
Zinc	NA		ICP or MS	No	5 µg/L	EPA 200.7
Selenium	NA		ICP or MS	No	1 µg/L	EPA 200.7
Aluminum	NA		ICP or MS	No	50 µg/L	EPA 200.7
Arsenic	NA		ICP or MS	No	2 µg/L	EPA 206.3
Iron	NA		ICP or MS	No	100 µg/L	EPA 200.7
Manganese	NA		ICP or MS	No	5 µg/L	EPA 200.7
Chloroform	NA		GC/MS	No	0.1µg/L	EPA 8260B
Bromodichloromethane	NA		GC/MS	No	0.1 µg/L	EPA 8260B
Dibromochloromethane	NA		GC/MS	No	0.1 µg/L	EPA 8260B
Bromoform	NA		GC/MS	No	0.1 µg/L	EPA 8260B
Chlorinated Herbicide	NA		GC	No		EPA 8151A
Organo-phosphorus Pesticide	NA		GC	No		EPA 8141A
PCB's	NA		GC	No	0.5 µg/L	EPA 8082A
Dioxin/Furan	NA		HRMS	No		EPA 8290
Carbamate Pesticide	NA		HPLC	No		EPA 8318
Organo-chlorine Pesticides	NA		GC	No		EPA 8081A
Semi-volatiles	NA		GC/MS	No	5 µg/L	EPA 8270C