



Colorado River Basin Regional Water Quality Control Board

Salton Sea Water Quality Monitoring Data – November 5 and 12, 2024

Site Characteristics

Site	Lat/Long	Time	Water Temp (°C)	pH	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm)
USGS02	33.23333/ -115.75	1130	21	8.37	7.65	94356
USGS03	33.23333/ -115.63333	1200	20	8.49	10.77	81760
USGS05	33.149308/ -115.727745	1030	17	8.47	9.97	86350
USGS10	33.485561/ -116.020828	1125	19	8.46	13.88	93152

Water Chemistry Results

Bacteria

Analyte	Method	Method Detection Limit	Reporting Limit	USGS02	USGS03	USGS05
Enterococcus (MPN/100 mL)	Enteroalert	--	10	<18	1.8	5

Nutrients

Analyte	Method	Method Detection Limit	USGS02	USGS03	USGS05	USGS10
Total Phosphorous (mg/L)	SM 4500P B E	0.02	0.17	0.25	0.24	0.19
Orthophosphate Phosphorus (mg/L)	SM 4500P B E	0.016	ND	ND	ND	ND
Nitrate/Nitrate as N (mg/L)	EPA 300.0	0.0038	0.096	1.1	0.74	0.24
Ammonia as N (mg/L)	SM 4500NH3 H G	0.005	0.6	0.2	0.2	0.2
Total Kjeldahl Nitrogen (mg/L)	EPA 351.2	0.5	7.5	7.3	6.6	7.9
Sulfate (mg/L)	EPA 300.0	72	20000	15000	20000	19000
Sulfide (mg/L)	SM 4500S2 D	0.10	ND	ND	ND	ND

ND = non detect

Metals/Salts/Solids

Analyte	Method	Method Detection Limit	USGS02	USGS03	USGS05	USGS10
Chloride (mg/L)	EPA 300.0	61	34000	27000	32000	34000
Total Dissolved Solids (mg/L)	SM 2540C	1000	86000	68000	75000	82000
Suspended Sediment Concentration (mg/L)	ASTM D3977-97	0.1	10	26	43	11
Total Suspended Solids (mg/L)	SM 2540D	1	120	120	130	15
Arsenic (µg/L)	EPA 200.8	1.8	55	8.3	26	56
Manganese (µg/L)	EPA 200.8	33	ND	4.3	17	28
Silver (µg/L)	EPA 200.8	23	ND	ND	ND	ND
Aluminum (µg/L)	EPA 200.7	840	ND	ND	330	ND
Cadmium (µg/L)	EPA 200.8	2.5	ND	ND	ND	ND
Total Chromium (µg/L)	EPA 200.8	40	ND	ND	ND	ND
Copper (µg/L)	EPA 200.8	33	ND	ND	ND	ND
Nickel (µg/L)	EPA 200.8	33	ND	ND	ND	ND
Lead (µg/L)	EPA 200.8	33	ND	ND	ND	ND
Zinc (µg/L)	EPA 200.8	50	ND	ND	ND	ND

ND = non detect

Selected Pesticides

Analyte	Method	Method Detection Limit	USGS02	USGS03	USGS05	USGS10
4,4' DDD (µg/L)	EPA 8081A	0.0090	--	--	--	ND
4,4' DDE (µg/L)	EPA 8081A	0.0063	--	--	--	ND
4,4' DDT (µg/L)	EPA 8081A	0.0053	--	--	--	ND
Aldrin (µg/L)	EPA 8081A	0.0088	--	--	--	ND
Chlordane (µg/L)	EPA 8081A	0.045	--	--	--	ND
Dieldrin (µg/L)	EPA 8081A	0.0082	--	--	--	ND
Endosulfan I (µg/L)	EPA 8081A	0.0076	--	--	--	ND
Endosulfan II (µg/L)	EPA 8081A	0.0080	--	--	--	ND
Endosulfan Sulfate (µg/L)	EPA 8081A	0.0068	--	--	--	ND
Endrin (µg/L)	EPA 8081A	0.0078	--	--	--	ND
Endrin Aldehyde (µg/L)	EPA 8081A	0.0076	--	--	--	ND
Heptachlor (µg/L)	EPA 8081A	0.0068	--	--	--	ND
Heptachlor Epoxide (µg/L)	EPA 8081A	0.0057	--	--	--	ND
Lindane (µg/L)	EPA 8081A	0.0033	--	--	--	ND
Methoxychlor (µg/L)	EPA 8081A	0.029	--	--	--	ND
Toxaphene (µg/L)	EPA 8081A	0.83	--	--	--	ND
Atrazine (µg/L)	EPA 8270C	0.045	0.092	ND	0.063	0.11
Chlorpyrifos (µg/L)	EPA 8270C	0.045	ND	ND	ND	ND
Chlorpyrifos Methyl (µg/L)	EPA 8270C	0.045	ND	ND	ND	ND
Diazinon (µg/L)	EPA 8270C	0.045	ND	ND	ND	ND
Dimethoate (µg/L)	EPA 8270C	0.045	0.12	ND	ND	ND
Disulfoton (µg/L)	EPA 8270C	0.045	ND	ND	ND	ND
Malathion (µg/L)	EPA 8270C	0.045	ND	ND	ND	ND
Phosmet (µg/L)	EPA 8270C	0.045	ND	ND	ND	ND
Thionazin (µg/L)	EPA 8270C	0.045	ND	ND	ND	ND
Bifenthrin (ng/L)	EPA 8270M	5.4	ND	ND	ND	ND
Cyfluthrin (ng/L)	EPA 8270M	6.7	ND	ND	ND	ND
Cypermethrin (ng/L)	EPA 8270M	6.3	ND	ND	ND	ND
L-Cyhalothrin (ng/L)	EPA 8270M	5.6	ND	ND	ND	ND
Permethrin (ng/L)	EPA 8270M	7.2	ND	ND	ND	ND

ND = non detect

