

Table 5.2-4. Nutrient and Dissolved Oxygen Concentrations of Project Reservoir Surfaces, Hypolimnia, and Their Outlet Streams, 2015–2017

Lake	Layer	Date	NH ₄	NO ₃	PO ₄	DO
Ellery	surface	8/9/2015	< 0.002	0.02	< 0.009	6.75
		11/1/2015	< 0.002	< 0.01	< 0.009	8.4
		5/17/2016	0.006	0.22	< 0.009	10.3
		6/29/2016	0.009	0.18	0.038	9.6
		6/29/2016	< 0.002	1.41	0.046	9.49
		7/22/2016	0.016	< 0.01	< 0.009	9.23
		9/18/2016	0.010	0.03	< 0.009	8.6
		7/3/2017	0.003	0.16	< 0.009	9.6
		8/17/2017	0.036	0.06	0.030	8.1
		9/20/2017	0.006	0.04	0.019	8.16
	hypolimnion	5/17/2016	0.013	0.13	< 0.009	9.3
		7/22/2016	0.032	< 0.01	< 0.009	8.66
		8/19/2017	0.005	0.03	< 0.009	8.73
outlet stream	5/17/2016	< 0.002	0.26	< 0.009	10.2	
	7/3/2017	0.005	0.18	< 0.009	8.8	
	8/19/2017	< 0.002	0.27	0.027	8.2	
Saddlebag	surface	6/29/2016	< 0.002	0.11	< 0.009	9.4
		7/22/2016	< 0.002	0.08	< 0.009	8.74
		9/16/2016	0.005	0.02	< 0.009	7.3
		7/7/2017	0.005	0.25	< 0.009	9.2
		8/19/2017	0.003	0.13	< 0.009	9.2
		9/21/2017	< 0.002	0.02	< 0.009	10.42
	hypolimnion	6/29/2016	0.014	0.14	0.029	11.75
		9/16/2016	0.098	0.07	0.031	8.6
		8/20/2017	0.014	0.08	< 0.009	8.7
	outlet stream	6/29/2016	< 0.002	0.17	< 0.009	9.8
		9/16/2016	0.003	0.04	< 0.009	8.8
		10/23/2016	< 0.002	0.08	< 0.009	7.7
		7/7/2017	0.009	0.25	< 0.009	9.8
		7/18/2017	0.005	0.19	0.023	10.45
		9/21/2017	0.022	0.03	< 0.009	10.39

Lake	Layer	Date	NH ₄	NO ₃	PO ₄	DO
Tioga	surface	8/9/2015	< 0.002	0.25	< 0.009	6.9
		9/29/2015	0.008	0.09	< 0.009	7.05
		5/17/2016	0.025	0.24	< 0.009	10.1
		6/29/2016	0.010	0.15	0.023	9.4
		7/14/2016	< 0.002	0.07	0.023	7.62
		9/18/2016	0.021	0.21	0.016	8.5
		6/4/2017	0.012	0.05	< 0.009	10.3
		7/3/2017	< 0.002	0.21	< 0.009	7.1
		8/24/2017	0.009	0.14	< 0.009	8.18
		9/20/2017	0.004	0.11	0.020	7.62
	hypolimnion	8/9/2015	0.004	0.28	< 0.009	7.6
		9/29/2015	0.007	0.15	< 0.009	6.14
		5/17/2016	0.043	0.82	< 0.009	0.9
		6/29/2016	0.005	0.35	< 0.009	9.8
		7/14/2016	< 0.002	0.08	< 0.009	9.7
		9/18/2016	0.181	0.19	0.408	3.2
		6/4/2017	< 0.002	0.19	< 0.009	10.29
		8/24/2017	0.009	0.18	< 0.009	6.7
	outlet stream	8/9/2015	< 0.002	0.30	< 0.009	7.8
		11/1/2015	0.042	0.22	< 0.009	8.5
		5/17/2016	0.011	0.29	< 0.009	3.2
		6/29/2016	< 0.002	0.33	< 0.009	9.92
		7/28/2016	< 0.002	0.01	< 0.009	9.9
		9/18/2016	0.166	0.20	0.043	6.1
		7/3/2017	< 0.002	0.26	< 0.009	8.7
		8/9/2017	< 0.002	0.22	< 0.009	8.6
		9/20/2017	0.010	0.09	< 0.009	7.63

Source: Cohen, 2019

DO = dissolved oxygen; hypolimnion = region in reservoir below thermocline while stratified; mg/L = milligrams per liter; NH₄ = ammonium; NO₃ = nitrate; PO₄ = orthophosphate

Table 5.2-5. Fecal Coliform Counts from Water Samples Collected in Lee Vining Creek

CEDEN Source	Location	Sample Date	Fecal Coliform cfu/100 mL
Eastern Sierra Ambient Monitoring	Lee Vining Creek below Poole Plant	7/26/2012	< 1
		8/13/2012	< 1
		3/12/2013	< 1
		4/24/2013	< 1
		5/31/2013	< 1
		7/7/2013	1
		7/30/2013	2
		9/17/2013	2
		10/17/2013	2
RWB6 Lahontan Bacteria Sampling	Lee Vining Creek above LADWP Diversion	7/14/2011	10
		7/27/2011	1
		8/10/2011	2
		8/16/2011	6
		7/24/2012	18
		8/21/2012	2
		5/17/2014	1
		5/17/2014	1
		4/19/2015	< 1

Source: CEDEN, 2020

CEDEN = California Environmental Data Exchange Network; cfu/100 mL = colony forming unit per 100 milliliters; LADWP = Los Angeles Department of Water and Power; RWB6 = Surface Water Ambient Monitoring Program Bioassessment Monitoring