

Table 2. Summary of measured constituents and properties for Alva B. Adams Tunnel at east portal, station 09013000  
[--, no data or not applicable; L, low; M, Medium; H, High; LRL Lab Reporting Level; \*, value is censored, see Definition of Terms for censored value replacement rules]

Constituent or property	Period (water years)	Number of samples	Number of censored values	Minimum	Median	Maximum	Date of Maximum	15th percentile	85th percentile	Standard or Chronic standard	Number of exceedences Chronic	Acute standard	Number of exceedences Acute	LRL	Level of concern
Instantaneous discharge, in cubic feet per second	2000-2008	111	0	0.40	457	570	06/19/06	96.8	551	--	--	--	--	--	--
Instantaneous discharge, in cubic feet per second	2009-2010	19	0	204	410	557	01/08/09	257	546	--	--	--	--	--	--
Turbidity, in NTRU	2005-2008	45	35	0 *	0 *	6.7	08/14/07	0 *	1.6	--	--	--	--	2	--
Turbidity, in NTRU	2009-2010	19	10	0 *	0 *	3.3	06/10/09	0 *	1.7	--	--	--	--	--	--
Dissolved oxygen, in milligrams per liter	2000-2008	110	0	6.9	8.4	11.6	05/04/01	7.6	9.3	6.0	0	--	--	--	L
Dissolved oxygen, in milligrams per liter	2009-2010	19	0	7.4	8.5	9.2	01/08/09	7.9	9.2	6.0	0	--	--	--	L
pH, in standard units	2000-2008	111	0	6.6	7.7	9.3	09/10/02	7.4	8.1	6.5	1	9.0	--	--	L
pH, in standard units	2009-2010	19	0	7.3	7.5	8.1	09/14/10	7.4	7.8	6.5	0	9.0	--	--	L
Specific conductance, in uS/cm	2000-2008	111	0	17.0	48.0	130	04/15/03	34.8	62.2	--	--	--	--	--	--
Specific conductance, in uS/cm	2009-2010	19	0	20.0	58.0	70.0	03/12/09	29.0	68.0	--	--	--	--	--	--
Temperature, Degrees C	2000-2008	111	0	1.0	6.0	19.0	07/23/02	2.5	16.1	17.0	9	--	--	--	L
Temperature, Degrees C	2009-2010	19	0	1.9	4.9	17.5	08/10/10	2.3	14.6	17.0	1	--	--	--	L
Calcium, in milligrams per liter	2000-2008	110	0	2.11	6.13	10.3	04/15/03	4.13	7.57	--	--	--	--	0.04	--
Calcium, in milligrams per liter	2009-2010	19	0	1.99	6.83	9.13	03/12/09	3.30	8.23	--	--	--	--	--	--
Magnesium, in milligrams per liter	2000-2008	110	0	0.34	1.16	1.99	04/15/03	0.81	1.43	--	--	--	--	0.02	--
Magnesium, in milligrams per liter	2009-2010	19	0	0.37	1.33	1.65	03/12/09	0.64	1.54	--	--	--	--	--	--
Potassium, in milligrams per liter	2000-2008	87	0	0.20	0.62	1.25	04/15/03	0.42	0.80	--	--	--	--	0.02	--
Potassium, in milligrams per liter	2009-2010	19	0	0.23	0.70	0.87	03/10/10	0.34	0.82	--	--	--	--	--	--
Sodium, in milligrams per liter	2000-2008	110	0	0.80	1.95	15.4	04/15/03	1.44	2.53	--	--	--	--	0.12	--
Sodium, in milligrams per liter	2009-2010	19	0	0.91	2.39	3.13	03/12/09	1.27	2.73	--	--	--	--	--	--
Alkalinity, in milligrams per liter	2002-2008	82	0	8.15	23.0	58.9	04/15/03	15.3	28.4	--	--	--	--	5	--
Alkalinity, in milligrams per liter	2009-2010	19	0	8.48	25.2	31.3	03/12/09	13.4	30.1	--	--	--	--	--	--
Chloride, in milligrams per liter	2000-2008	110	19	0 *	0.51	1.60	02/13/01	0 *	0.86	250	0	--	--	0.12	L
Chloride, in milligrams per liter	2009-2010	19	0	0.26	0.80	0.98	04/15/09	0.36	0.95	250	0	--	--	--	L
Fluoride in milligrams per liter	2000-2008	20	2	0 *	0.12	0.19	07/09/07	0.09	0.16	--	--	--	--	0.12	--
Silica, in milligrams per liter	2000-2008	21	0	4.17	5.72	10.2	07/09/07	4.76	6.78	--	--	--	--	0.018	--
Sulfate, in milligrams per liter	2000-2008	110	7	0 *	2.80	5.61	04/15/03	1.91	3.75	250	0	--	--	0.18	L
Sulfate, in milligrams per liter	2009-2010	19	0	1.23	3.48	4.01	03/10/10	1.76	3.85	250	0	--	--	--	L
Residue, in milligrams per liter	2000-2008	109	0	12.0	39.0	79.2	04/15/03	29.9	48.0	--	--	--	--	10	--
Residue, in milligrams per liter	2009-2010	19	0	12.8	43.6	55.5	03/10/10	23.4	54.6	--	--	--	--	--	--
Residue (total), in milligrams per liter	2006-2008	23	23	0 *	0 *	0 *	01/09/06	0 *	0 *	--	--	--	--	10	--
Residue (total), in milligrams per liter	2009-2010	14	14	0 *	0 *	0 *	01/08/09	0 *	0 *	--	--	--	--	--	--
Ammonia plus organic nitrogen in milligrams per liter	2000-2008	110	1	0 *	0.188	0.489	08/14/07	0.149	0.240	--	--	--	--	0.035	--
Ammonia plus organic nitrogen in milligrams per liter	2009-2010	19	0	0.144	0.191	0.310	09/15/09	0.153	0.229	--	--	--	--	--	--
Ammonia nitrogen, in milligrams per liter	2000-2008	110	75	0 *	0 *	0.027	09/11/01	0 *	0.005	3.32	0	9.97	0	0.001	L
Ammonia nitrogen, in milligrams per liter	2009-2010	19	0	0.001	0.003	0.015	10/08/09	0.001	0.005	4.06	0	12.5	0	--	L
Nitrite plus nitrate nitrogen, in milligrams per liter	2000-2008	110	33	0 *	0.027	0.108	12/13/05	0 *	0.068	10.0	0	--	--	0.001	L
Nitrite plus nitrate nitrogen, in milligrams per liter	2009-2010	19	0	0.001	0.030	0.062	12/10/08	0.002	0.043	10.0	0	--	--	--	L
Nitrite nitrogen, in milligrams per liter	2000-2000	5	5	0 *	0 *	0 *	12/06/99	0 *	0 *	0.05	0	--	--	--	L
Total nitrogen, in milligrams per liter	2006-2008	16	0	0.166	0.230	0.399	06/05/06	0.170	0.253	--	--	--	--	0.06	--
Total nitrogen (total), in milligrams per liter	2006-2008	16	0	0.116	0.235	0.519	08/14/07	0.203	0.283	--	--	--	--	0.06	--

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Orthophosphate, in milligrams per liter	2000-2008	110	84	0 *	0 *	0.012	04/16/02	0 *	0.003	--	--	--	--	0.001	--
Orthophosphate, in milligrams per liter	2009-2010	19	0	0.001	0.001	0.002	03/10/10	0.001	0.001	--	--	--	--	--	--
Phosphorus, in milligrams per liter	2000-2008	102	35	0 *	0.003	0.020	04/16/02	0 *	0.005	--	--	--	--	0.006	--
Phosphorus (total), in milligrams per liter	2000-2008	110	6	0 *	0.010	0.048	04/16/02	0.007	0.015	--	--	--	--	0.001	--
Phosphorus (total), in milligrams per liter	2009-2010	19	0	0.008	0.012	0.018	05/07/09	0.010	0.015	--	--	--	--	--	--
Organic carbon, in milligrams per liter	2006-2008	15	0	3.12	3.59	5.14	07/09/07	3.16	4.44	--	--	--	--	0.4	--
Organic carbon (total), in milligrams per liter	2000-2008	89	0	0.98	3.46	5.18	05/22/06	2.90	4.13	--	--	--	--	0.4	--
Organic carbon (total), in milligrams per liter	2009-2010	32	0	3.50	3.89	5.40	06/10/09	3.69	4.31	--	--	--	--	--	--
Arsenic, in micrograms per liter	2000-2008	105	27	0 *	0.17	0.77	04/15/03	0 *	0.23	--	--	--	--	0.06	--
Arsenic, in micrograms per liter	2009-2010	19	0	0.11	0.20	0.25	10/08/09	0.16	0.24	--	--	--	--	--	--
Arsenic (total), in micrograms per liter	2006-2008	16	1	0 *	0.25	0.36	04/10/06	0.12	0.29	--	--	50.0	0	0.6	--
Cadmium, in micrograms per liter	2000-2008	28	27	0 *	0 *	0.02	01/08/07	0 *	0 *	0.09	0	0.29	0	0.04	L
Cadmium, in micrograms per liter	2009-2010	14	12	0 *	0 *	0.01	11/18/09	0 *	0.01	0.09	0	0.29	0	--	L
Cadmium (total), in micrograms per liter	2006-2008	16	13	0 *	0 *	0.04	05/14/07	0 *	0.01	--	--	--	--	0.014	--
Cobalt, in micrograms per liter	2000-2005	6	6	0 *	0 *	0 *	12/06/99	0 *	0 *	--	--	--	--	0.04	--
Copper, in micrograms per liter	2000-2008	109	28	0 *	0.64	6.32	06/11/07	0 *	1.26	1.61	12	2.02	7	1	M
Copper, in micrograms per liter	2009-2010	19	1	0 *	0.89	5.02	05/04/10	0.60	1.62	1.61	3	2.02	1	--	H
Iron, in micrograms per liter	2000-2008	110	17	0 *	20.1	62.9	08/12/03	0 *	40.2	300	0	--	--	8	L
Iron, in micrograms per liter	2009-2010	19	0	16.5	25.0	43.9	06/10/09	17.6	39.2	300	0	--	--	--	L
Lead, in micrograms per liter	2000-2008	110	71	0 *	0 *	1.44	01/08/07	0 *	0.09	0.27	4	6.85	0	0.08	L
Lead, in micrograms per liter	2009-2010	19	15	0 *	0 *	0.05	06/10/09	0 *	0.02	0.27	0	6.85	0	--	L
Manganese, in micrograms per liter	2000-2008	110	28	0 *	0.58	59.8	04/15/03	0 *	1.81	844	0	1528	0	0.2	L
Manganese, in micrograms per liter	2009-2010	19	0	0.33	0.88	4.22	05/04/10	0.54	2.57	844	0	1528	0	--	L
Mercury, in nanograms per liter	2006-2008	8	0	0.30	1.45	2.86	06/09/08	0.45	2.77	10.0	0	--	--	0.04	L
Mercury, in nanograms per liter	2009-2010	5	0	1.10	2.03	2.96	06/10/09	1.10	2.96	10.0	0	--	--	--	L
Nickel, in micrograms per liter	2000-2008	110	29	0 *	0.21	22.9	04/10/06	0 *	0.46	9.49	1	85.5	0	0.2	L
Nickel, in micrograms per liter	2009-2010	19	0	0.14	0.25	0.45	01/11/10	0.17	0.38	9.49	0	85.5	0	--	L
Selenium, in micrograms per liter	2005-2008	19	1	0 *	0.06	0.28	03/12/07	0.05	0.08	4.60	0	18.4	0	0.04	L
Selenium, in micrograms per liter	2009-2010	2	0	0.09	0.09	0.09	06/10/09	0.09	0.09	4.60	0	18.4	0	--	L
Silver, in micrograms per liter	2000-2008	110	107	0 *	0 *	4.24	08/07/00	0 *	0 *	0.00	3	0.06	2	0.1	L
Silver, in micrograms per liter	2009-2010	19	18	0 *	0 *	0.03	11/18/09	0 *	0 *	0.00	1	0.06	0	--	L
Zinc, in micrograms per liter	2000-2008	29	6	0 *	2.06	13.2	01/08/07	0 *	8.30	22.4	0	25.8	0	1.8	L
Zinc, in micrograms per liter	2009-2010	14	10	0 *	0 *	3.72	05/04/10	0 *	2.14	22.4	0	25.8	0	--	L
Benzene (total), in micrograms per liter	2000-2008	95	92	0 *	0 *	0.79	07/08/03	0 *	0 *	2.20	0	--	--	0.4	L
Ethylbenzene (total), in micrograms per liter	2000-2008	93	91	0 *	0 *	0.78	07/08/03	0 *	0 *	530	0	--	--	0.4	L
m- + p-Xylene (total) in micrograms per liter	2000-2008	95	91	0 *	0 *	2.24	07/08/03	0 *	0 *	1400	0	--	--	0.4	L
o-Xylene (total), in micrograms per liter	2000-2008	95	93	0 *	0 *	1.15	07/08/03	0 *	0 *	1400	0	--	--	0.4	L
Toluene (total), in micrograms per liter	2000-2008	95	88	0 *	0 *	3.30	07/08/03	0 *	0 *	510	0	--	--	0.4	L