

Carmichael Coal Mine Project

Raw Laboratory Groundwater Quality data

August 2026

Sample Type:		REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Sample Date:		04/08/2026	04/08/2026	04/08/2026	04/08/2026	04/08/2026	04/08/2026	04/08/2026	04/08/2026	04/08/2026	04/08/2026	04/08/2026	04/08/2026	04/08/2026	04/08/2026
Client sample ID (1st):		C14011SP	C18001SP	C18009SP	C18010SP	C18011SP	C18012SP	C18013SP	C18014SP	C19014SP	C19015SP	C919016SPR	HD02	Joshua Spring	Duplicate A
Hydro-stratigraphic unit:		Clematis Sandstone	Clematis Sandstone	Weathered Tertiary	Spring Discharge Clematis SS†	Spring Discharge Clematis SS†	Spring Discharge Clematis SS†	Spring Discharge Clematis SS†	Spring Discharge Clematis SS†	Clematis Sandstone	Dunda Beds	Rewan Formation	Clematis Sandstone	Spring Discharge Clematis SS†	Duplicate B
Analyte grouping/Analyte	Unit														
pH Value	pH Unit	6.05	7.01	7.05	9.8	7.3	7.44	7.49	5.5	8.25	7.93	8.62	6.96	7.52	7.97
Electrical Conductivity @ 25°C	µS/cm	285	609	29000	746	580	360	359	514	596	660	711	118	500	668
Total Dissolved Solids @180°C	mg/L	159	306	22000	417	341	170	213	297	329	364	402	70	279	308
Total Alkalinity as CaCO3	mg/L	42	108	161	323	129	154	154	4	157	150	213	50	114	150
Sulfate as SO4 - Turbidimetric	mg/L	5	8	809	3	4	1	1	9	<1	<1	<1	<1	8	1
Chloride	mg/L	65	137	8800	63	122	31	41	165	112	135	123	11	122	143
Calcium	mg/L	13	4	1400	3	3	1	1	<1	2	2	4	6	10	2
Magnesium	mg/L	5	1	551	<1	<1	<1	<1	14	<1	<1	<1	<1	3	<1
Sodium	mg/L	34	116	3220	171	121	81	82	128	145	170	11	100	130	146
Potassium	mg/L	2	16	19	20	11	12	12	11	8	5	3	4	20	5
Aluminium	mg/L	<0.01	<0.01	<0.05	0.03	<0.01	0.02	<0.01	0.01	<0.01	<0.01	0.02	0.13	<0.01	<0.01
Arsenic	mg/L	<0.001	0.002	<0.005	0.003	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.006	<0.001	<0.001
Cadmium	mg/L	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	mg/L	<0.001	<0.001	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.002	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	0.009	<0.001	<0.001
Copper	mg/L	0.006	<0.001	0.015	0.016	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lead	mg/L	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	mg/L	0.012	0.016	<0.005	<0.001	0.008	0.019	0.011	0.013	0.02	0.043	0.028	0.81	0.07	0.042
Molybdenum	mg/L	<0.001	<0.001	0.011	0.002	<0.001	0.001	0.001	<0.001	<0.001	<0.001	0.008	<0.001	<0.001	<0.001
Nickel	mg/L	0.003	0.001	0.029	<0.001	<0.001	<0.001	<0.001	0.009	<0.001	<0.001	<0.001	0.002	<0.001	<0.001
Selenium	mg/L	<0.004	<0.004	<0.020	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Silver	mg/L	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	mg/L	<0.001	<0.001	0.038	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	mg/L	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.016	0.06	<0.025	<0.005	<0.005	<0.005	<0.005	0.037	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Boron	mg/L	0.1	0.13	1.58	0.1	0.14	0.1	0.1	0.13	0.1	0.11	0.05	<0.05	0.1	0.11
Iron	mg/L	<0.05	1.62	<0.05	0.09	0.35	0.1	0.1	<0.05	0.4	0.08	<0.05	3.71	<0.05	0.08
Mercury	mg/L	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fluoride	mg/L	<0.1	0.2	0.8	0.2	0.2	0.5	0.5	0.1	0.4	0.4	0.3	0.1	0.5	0.4
Ammonia as N	mg/L	<0.01	0.22	0.08	0.16	0.09	0.24	0.09	0.02	0.15	0.23	0.3	0.5	0.06	0.14
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	0.43	<0.01	0.31	0.07	0.05	<0.01	0.05	0.04	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Total Phosphorus as P	mg/L	<0.01	0.03	<0.02	0.11	1.33	0.7	0.11	<0.01	0.17	0.02	<0.01	0.09	<0.01	0.17
Sulfide as S2-	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.2	<0.10	<0.10	<0.10
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Sample Type:		REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Sample Date:		04/08/2026	04/08/2026	04/08/2026	04/08/2026	04/08/2026	05/08/2026	05/08/2026	05/08/2026	05/08/2026	05/08/2026	05/08/2026	05/08/2026	05/08/2026	05/08/2026
Client sample ID (1st):		C18002SP	C14013SP	C14012SP	C18003SP	C19022SP	C012P1	C012P2	C016P2	C018P2	C018P3	C024P3	C14002SP	C14020SP	C14033SP
Hydro-stratigraphic unit:		Clematis Sandstone	Clematis Sandstone	Clematis Sandstone	Moolayember	Weathered Tertiary	Joe Joe Group	Joe Joe Group	Bandanna Formation	Bandanna Formation	Colinlea Sandstone	Colinlea Sandstone	Joe Joe Group	Moolayember	Clematis Sandstone
Analyte grouping/Analyte	Unit														
pH Value	pH Unit	8.14	5.34	7.19	7.11	6.58	6.24	7.28	7.83	7.19	7.13	6.57	6.82	6.09	5.5
Electrical Conductivity @ 25°C	µS/cm	366	386	452	474	55700	1950	2610	2440	1950	952	1410	12600	1460	48800
Total Dissolved Solids @180°C	mg/L	211	228	190	267	38400	1070	1460	1440	1080	536	784	6960	822	33000
Total Alkalinity as CaCO3	mg/L	140	6	139	159	266	82	278	183	261	186	137	144	39	393
Sulfate as SO4 - Turbidimetric	mg/L	1	10	5	9	2470	45	42	18	11	13	17	346	48	1840
Chloride	mg/L	47	120	77	57	19600	542	635	620	497	192	364	3600	417	16900
Calcium	mg/L	2	1	3	3	2020	28	78	67	47	24	13	268	7	824
Magnesium	mg/L	<1	10	2	2	1190	32	28	10	33	6	25	100	40	1040
Sodium	mg/L	77	57	95	94	7870	306	388	371	293	160	209	1860	193	8710
Potassium	mg/L	12	7	8	16	24	11	14	17	18	9	9	27	23	124
Aluminium	mg/L	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Arsenic	mg/L	<0.001	<0.001	<0.001	0.002	0.011	<0.001	0.002	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0005
Chromium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Cobalt	mg/L	<0.001	0.005	<0.001	0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.001	0.005
Copper	mg/L	<0.001	0.011	<0.001	0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Manganese	mg/L	0.144	0.018	0.002	0.562	2.3	0.014	0.182	0.04	0.057	0.052	0.159	1.04	0.001	3.43
Molybdenum	mg/L	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Nickel	mg/L	<0.001	0.01	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.009	0.002	0.005	0.002
Selenium	mg/L	<0.004	<0.004	<0.004	<0.004	<0.020	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.020
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Uranium	mg/L	<0.001	<0.001	<0.001	<0.001	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.048
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Zinc	mg/L	<0.005	0.046	<0.005	0.008	<0.025	0.01	<0.005	<0.005	<0.005	0.01	0.01	<0.005	0.027	<0.025
Boron	mg/L	0.08	0.14	0.12	0.13	3.71	0.44	0.5	0.31	0.55	0.35	0.33	0.89	0.34	2.71
Iron	mg/L	<0.05	<0.05	<0.05	0.34	12.1	<0.05	0.36	0.08	0.34	0.73	13.5	1.98	<0.05	0.49
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005
Fluoride	mg/L	0.4	<0.1	0.5	0.6	0.3	0.3	0.4	0.2	0.5	1.3	0.5	0.2	0.2	<0.1
Ammonia as N	mg/L	0.09	0.01	0.03	0.23	0.03	<0.01	0.02	5.09	0.17	0.15	0.11	0.33	0.24	0.04
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	0.64	0.04	0.01	<0.01	0.04	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.62
Total Phosphorus as P	mg/L	0.18	<0.01	0.06	0.06	<0.02	0.01	0.07	0.02	0.11	0.03	0.18	0.75	0.02	<0.05
Sulfide as S2-	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	<100	<100	<100	210	<100	<100	<100	110	<100	<100
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Sample Type:		REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Sample Date:		05/08/2026	05/08/2026	05/08/2026	05/08/2026	05/08/2026	05/08/2026	06/08/2026	06/08/2026	06/08/2026	06/08/2026	06/08/2026	06/08/2026	06/08/2026	06/08/2026
Client sample ID (1st):		C555P1	C914001SPR	C953P1R	C975SP	Duplicate C	Duplicate D	C027P1	C027P2	C029P1	C029P2	C14027SP	C14031SP	C14032SP	C914108PTR
Hydro-stratigraphic unit:		Rewan Formation	Joe Joe Group	Rewan Formation	Colinlea Sandstone			Alluvium	Dunda Beds	Alluvium	Tertiary	Alluvium	Composite Bore (Tertiary / Joe Joe)	Joe Joe Group	Joe Joe Group
Analyte grouping/Analyte	Unit														
pH Value	pH Unit	7.24	6.46	6.21	6.09	7.27	5.58	7.03	6.36	7.2	6.8	6.53	6.3	6.02	6.35
Electrical Conductivity @ 25°C	µS/cm	761	25500	345	563	750	349	458	504	32300	11500	56100	6230	2080	745
Total Dissolved Solids @180°C	mg/L	421	16100	226	313	428	214	292	381	18200	6590	40100	3500	1220	439
Total Alkalinity as CaCO3	mg/L	139	281	53	41	139	9	42	51	1590	236	214	71	41	85
Sulfate as SO4 - Turbidimetric	mg/L	<1	1260	11	21	<1	4	18	6	843	230	2300	92	28	14
Chloride	mg/L	176	6800	78	136	165	92	113	134	8490	3260	20000	1720	613	189
Calcium	mg/L	6	764	<1	2	6	2	4	1	46	64	897	84	28	6
Magnesium	mg/L	7	387	6	6	7	9	5	3	289	85	1280	96	30	5
Sodium	mg/L	140	3160	60	98	137	43	85	96	6070	1960	10400	913	338	140
Potassium	mg/L	7	63	3	5	7	10	9	6	184	51	123	14	12	4
Aluminium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.11	0.1	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01
Arsenic	mg/L	0.003	<0.001	0.002	<0.001	0.002	<0.001	0.002	0.002	<0.005	0.007	<0.005	<0.001	<0.001	<0.001
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001
Chromium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001
Cobalt	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.005	<0.001	0.008	<0.001	0.003	<0.001
Copper	mg/L	<0.001	0.002	0.003	0.004	<0.001	0.004	0.005	<0.001	<0.005	<0.001	0.012	<0.001	<0.001	<0.001
Lead	mg/L	<0.001	<0.001	0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001
Manganese	mg/L	0.145	0.89	0.076	0.029	0.14	0.004	0.001	0.053	0.164	0.147	1.28	0.617	0.307	0.242
Molybdenum	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001
Nickel	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.002	<0.001	<0.005	<0.001	0.01	0.001	0.002	<0.001
Selenium	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.020	<0.004	<0.020	<0.004	<0.004	<0.004
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001
Uranium	mg/L	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.059	<0.001	<0.005	<0.001	<0.001	<0.001
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01
Zinc	mg/L	<0.005	0.023	0.039	0.024	<0.005	0.016	0.006	<0.005	<0.025	0.009	<0.025	<0.005	0.01	<0.005
Boron	mg/L	0.26	1.81	0.15	0.16	0.26	0.08	0.11	0.18	3.62	1.14	2.74	0.48	0.26	0.18
Iron	mg/L	1.99	2.68	1.23	<0.05	1.92	<0.05	0.35	2.26	0.41	1.37	3.03	6.09	2.77	11.6
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001
Fluoride	mg/L	0.6	0.3	0.2	0.3	0.6	<0.1	0.1	0.2	1.1	0.5	0.2	0.2	0.3	0.2
Ammonia as N	mg/L	0.09	0.23	0.25	<0.01	0.03	0.03	0.02	0.05	0.08	0.17	0.03	0.05	0.07	<0.01
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	<0.01	<0.01	0.06	<0.01	0.62	0.21	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Total Phosphorus as P	mg/L	0.07	<0.05	0.1	0.01	0.07	0.01	0.03	0.07	0.14	0.11	<0.05	0.01	0.03	0.02
Sulfide as S2-	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.54	<0.10	<0.10	<0.10	0.18	<0.10
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Sample Type:		REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Sample Date:		06/08/2026	06/08/2026	06/08/2026	06/08/2026	06/08/2026	08/08/2026	09/08/2026	08/08/2026	08/08/2026	08/08/2026	07/08/2026	07/08/2026	07/08/2026	07/08/2026	07/08/2026
Client sample ID (1st):		C180122SP	C9180124SPR	Mellaluka Spring	Duplicate E	Duplicate F	C008P1	C011P3	C014P2	C022P1	C032P2	C034P3	C035P1	C035P2	C14003SP	
Hydro-stratigraphic unit:		Composite Bore (Tertiary / Joe Joe)	Joe Joe Group	Spring Discharge Composite				Rewan Formation	Colinlea Sandstone	Bandanna Formation	Dunda Beds	Tertiary	Bandanna Formation	Colinlea Sandstone	Rewan Formation	Bandanna Formation Joe Joe Group
Analyte grouping/Analyte	Unit															
pH Value	pH Unit	5.74	5.97	6.34	6.43	6.16	6.73	7.56	8.27	5.65	6.86	8.17	6.69	7.01	6.89	5.88
Electrical Conductivity @ 25°C	µS/cm	8220	485	1040	529	2220	23800	900	2010	266	15700	1260	1700	3960	1500	53500
Total Dissolved Solids @180°C	mg/L	4550	278	582	325	1330	15900	556	1130	175	9020	716	946	2080	848	46300
Total Alkalinity as CaCO3	mg/L	14	17	18	47	42	320	224	333	14	424	358	100	161	117	58
Sulfate as SO4 - Turbidimetric	mg/L	79	7	15	14	28	237	<1	1	8	411	<1	22	50	20	36
Chloride	mg/L	2300	141	309	134	618	7620	163	463	70	4830	210	464	999	401	20700
Calcium	mg/L	108	2	8	6	29	441	21	14	1	123	10	20	15	10	2380
Magnesium	mg/L	112	3	13	4	31	380	5	4	3	121	4	10	14	7	1420
Sodium	mg/L	1160	83	180	88	341	3740	156	395	43	2800	253	279	674	264	8440
Potassium	mg/L	19	4	4	5	12	82	8	11	3	56	4	11	5	5	31
Aluminium	mg/L	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Arsenic	mg/L	<0.001	<0.001	<0.001	0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	0.002	<0.001	<0.005
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005
Chromium	mg/L	<0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Cobalt	mg/L	0.003	0.002	<0.001	<0.001	0.003	0.008	<0.001	<0.001	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	0.027
Copper	mg/L	<0.001	0.009	<0.001	<0.001	<0.001	0.047	<0.001	<0.001	0.003	0.004	<0.001	<0.001	<0.001	<0.001	<0.005
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Manganese	mg/L	0.262	0.005	0.034	0.238	0.316	1.89	0.031	0.007	0.005	1.43	0.028	0.23	0.109	0.1	2.87
Molybdenum	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Nickel	mg/L	0.003	0.003	0.001	<0.001	0.002	0.018	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
Selenium	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.020
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Uranium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Zinc	mg/L	0.013	0.04	<0.005	<0.005	0.01	0.03	<0.005	<0.005	0.018	0.017	<0.005	0.054	0.013	0.006	0.031
Boron	mg/L	0.51	0.09	0.16	0.15	0.18	1.57	0.47	0.35	0.14	1.53	0.38	0.22	0.69	0.28	3.29
Iron	mg/L	1.1	0.5	0.23	14.3	2.84	1.06	0.38	0.06	<0.05	5.86	0.13	3.07	0.21	0.34	23
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005
Fluoride	mg/L	<0.1	0.1	0.1	0.4	0.3	0.6	1.4	1.2	0.1	0.6	1.2	0.3	0.7	0.3	0.2
Ammonia as N	mg/L	0.08	<0.01	0.06	<0.01	0.15	0.36	0.26	0.98	0.03	0.3	0.41	0.09	0.1	0.05	0.12
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.11	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	0.14	0.01	<0.01	0.07	0.02	<0.01	<0.01	0.16	0.02	<0.01	0.01	0.02	<0.01	<0.01
Total Phosphorus as P	mg/L	<0.01	<0.01	0.2	0.02	0.03	<0.05	0.03	0.01	<0.01	0.1	0.04	<0.01	0.02	0.02	<0.05
Sulfide as S2-	mg/L	<0.10	<0.10	0.15	0.21	<0.10	<0.10	<0.10	0.65	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.35
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Sample Type:		REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Sample Date:		07/08/2026	07/08/2026	07/08/2026	07/08/2026	08/08/2026	07/08/2026	09/08/2026	09/08/2026	09/08/2026	07/08/2026	08/08/2026	07/08/2026	07/08/2026	09/08/2026
Client sample ID (1st):		C14004SP	C14008SP	C14015SP	C14016SP	C14017SP	C14029SP	C18004SP	C18005SP	C18006SP	C180120SP	C19001SP	C19003SP	C19004SP	C19011SP
Hydro-stratigraphic unit:		Joe Joe Group	Joe Joe Group	Joe Joe Group	Joe Joe Group	Joe Joe Group	Composite Bore (Tertiary / Joe Joe)	Weathered Tertiary	Weathered Tertiary	Weathered Tertiary	Composite Bore (Tertiary / Joe Joe)	Alluvium	Colinlea Sandstone	Colinlea Sandstone	Clematis Sandstone
Dunda Beds															
Analyte grouping/Analyte	Unit														
pH Value	pH Unit	7.06	6.26	7.16	7.39	7.27	6.19	6.68	6.55	6.69	5.64	7.53	7.98	8.06	8.39
Electrical Conductivity @ 25°C	µS/cm	55200	660	2540	3210	5980	10500	43000	55400	66400	9190	13700	3540	3250	783
Total Dissolved Solids @180°C	mg/L	37500	364	1320	1660	3290	6090	37000	41500	45600	5160	7710	1980	1870	431
Total Alkalinity as CaCO3	mg/L	204	31	128	176	249	57	202	162	233	9	704	190	258	149
Sulfate as SO4 - Turbidimetric	mg/L	2090	16	63	73	54	461	730	2570	3100	185	413	<1	<1	<1
Chloride	mg/L	21200	170	610	764	1570	3230	16800	20700	25200	2700	4110	856	776	155
Calcium	mg/L	2790	7	15	48	109	195	3180	2300	2300	89	95	66	48	3
Magnesium	mg/L	1230	6	13	16	55	142	1320	1220	1680	135	112	11	5	<1
Sodium	mg/L	8550	104	418	508	911	1640	4910	9320	12500	1330	2890	543	534	129
Potassium	mg/L	43	5	9	8	16	11	20	17	30	29	56	11	8	5
Aluminium	mg/L	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
Arsenic	mg/L	<0.005	<0.001	<0.001	0.007	0.002	<0.001	0.005	0.005	<0.005	<0.001	0.011	<0.001	<0.001	<0.001
Cadmium	mg/L	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	mg/L	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	0.299	<0.005	0.001	0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	<0.005	0.009	<0.001	<0.001	<0.001	0.004	<0.005	0.028	0.009	0.002	0.002	<0.001	<0.001	<0.001
Copper	mg/L	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	0.008	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Lead	mg/L	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	mg/L	8.28	0.056	0.07	0.242	0.713	0.058	0.484	2.94	1.73	0.009	0.174	0.099	0.091	0.047
Molybdenum	mg/L	<0.005	<0.001	<0.001	0.002	0.003	<0.001	<0.005	0.027	0.008	<0.001	0.011	<0.001	<0.001	0.003
Nickel	mg/L	<0.005	0.012	<0.001	<0.001	<0.001	0.009	0.009	1.14	0.028	0.005	0.004	<0.001	<0.001	<0.001
Selenium	mg/L	<0.020	<0.004	<0.004	<0.004	<0.004	<0.004	<0.020	<0.020	<0.020	<0.004	<0.004	<0.004	<0.004	<0.004
Silver	mg/L	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	mg/L	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.013	0.022	0.027	<0.001	0.045	<0.001	<0.001	<0.001
Vanadium	mg/L	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	<0.025	0.029	0.006	0.064	0.062	0.016	<0.025	<0.025	<0.025	0.035	<0.005	<0.005	<0.005	<0.005
Boron	mg/L	0.58	0.11	0.39	0.38	0.73	1.67	1.46	5.14	6.51	0.43	1.72	0.39	0.41	0.09
Iron	mg/L	2.75	1.3	0.67	0.28	0.42	0.79	1.42	7.91	3.01	1.47	0.09	2.04	1.68	0.07
Mercury	mg/L	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fluoride	mg/L	0.2	0.2	0.6	0.8	1.2	0.1	0.2	<0.1	0.1	0.1	0.8	2.7	3.6	0.4
Ammonia as N	mg/L	0.75	0.02	0.1	0.25	0.25	0.16	0.03	<0.01	0.02	0.03	0.17	0.33	0.41	0.2
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.07	0.8	0.21	<0.01	<0.01	<0.01	<0.01
Total Phosphorus as P	mg/L	<0.05	<0.01	0.04	0.04	0.02	0.05	<0.02	0.04	0.04	<0.01	0.07	<0.01	<0.01	0.18
Sulfide as S2-	mg/L	<0.10	<0.10	<0.10	----	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

[illegible]

Sample Type:		REG	REG	REG													
Sample Date:		10/08/2026	10/08/2026	10/08/2026													
Client sample ID (1st):		Field Blank	C14006SP	GW Field Blank													
Hydro-stratigraphic unit:			Joe Joe Group														
Analyte grouping/Analyte	Unit																
pH Value	pH Unit	5.78	6.94	5.94													
Electrical Conductivity @ 25°C	µS/cm	<1	9460	<1													
Total Dissolved Solids @180°C	mg/L	<10	5220	<10													
Total Alkalinity as CaCO3	mg/L	3	121	<1													
Sulfate as SO4 - Turbidimetric	mg/L	<1	222	<1													
Chloride	mg/L	<1	2780	<1													
Calcium	mg/L	<1	162	<1													
Magnesium	mg/L	<1	82	<1													
Sodium	mg/L	<1	1440	<1													
Potassium	mg/L	<1	22	<1													
Aluminium	mg/L	<0.01	<0.01	<0.01													
Arsenic	mg/L	<0.001	0.001	<0.001													
Cadmium	mg/L	<0.0001	<0.0001	<0.0001													
Chromium	mg/L	<0.001	<0.001	<0.001													
Cobalt	mg/L	<0.001	<0.001	<0.001													
Copper	mg/L	<0.001	<0.001	<0.001													
Lead	mg/L	<0.001	<0.001	<0.001													
Manganese	mg/L	<0.001	0.42	<0.001													
Molybdenum	mg/L	<0.001	<0.001	<0.001													
Nickel	mg/L	<0.001	<0.001	<0.001													
Selenium	mg/L	<0.004	<0.004	<0.004													
Silver	mg/L	<0.001	<0.001	<0.001													
Uranium	mg/L	<0.001	<0.001	<0.001													
Vanadium	mg/L	<0.01	<0.01	<0.01													
Zinc	mg/L	<0.005	0.013	<0.005													
Boron	mg/L	<0.05	0.42	<0.05													
Iron	mg/L	<0.05	7.73	<0.05													
Mercury	mg/L	<0.0001	<0.0001	<0.0001													
Fluoride	mg/L	<0.1	0.9	<0.1													
Ammonia as N	mg/L	0.21	0.46	<0.01													
Nitrite as N	mg/L	<0.01	<0.01	<0.01													
Nitrate as N	mg/L	0.06	<0.01	<0.01													
Total Phosphorus as P	mg/L	<0.01	<0.01	<0.01													
Sulfide as S2-	mg/L	<0.10	<0.10	<0.10													
C6 - C9 Fraction	µg/L	<20	<20	<20													
C6 - C10 Fraction	µg/L	<20	<20	<20													
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100													
Sum of BTEX	µg/L	<1	<1	<1													