Central Petroleum

Monitoring Event:		May-2021	Field	Mereenie					Dingo/Surprise			Palm Valley					
		ANZECC (2000) Livestock	Location	RN004620	RN018955	RN017898	RN013861	RN017657	RN011831	RN002943	RN018851	RN006503	RN012024	Palm Creek Lower Oasis	Palm Valley Area Spring No 8	Palm Valley Area Spring No 9	Pimelia Spring
			Date	22/5/2021	22/5/2021	22/5/2021	22/5/2021	22/5/2021	19/5/2021	18/5/2021	20/5/2021	19/5/2021	19/5/2021	19/5/2021	19/5/2021	19/5/2021	19/5/2021
Field Parameters	**Units**		LOR														
Electrical conductivity	µS/cm	-	1	1390	440	475	3480	951	1518	No Pump	1413	1647	1167	3100	1209	3360	3290
pH	pH Unit	-	0.01	6.98	6.61	7.32	6.65	7.21	7.04	No Pump	6.79	7.78	7.06	7.85	9.01	8.66	8.84
Temperature	°C	-	0.1	27	23.1	28.1	25.5	28.1	26.3	No Pump	27.5	25.5	27.1	22.3	20.7	20.6	23.2
General Parameters																	
pH (laboratory)	pH Unit	-	0.01	7.8	7.52	7.52	7.9	7.78	8	-	7.93	7.98	8.06	-	-	-	-
Electrical conductivity (laboratory)	µS/cm	-	1	1230	352	434	3210	900	1390	-	1330	1400	1060	-	-	-	-
Total dissolved solids[1]	mg/L	4000	1	800	229	282	2090	585	904	-	864	910	689	-	-	-	-
Total suspended solids	mg/L	-	1	<LOR	2	<LOR	<LOR	<LOR	<LOR	-	2	39	<LOR	-	-	-	-
Gross alpha	Bq/L	0.5	0.05	0.26	0.32	0.23	**1.3**	0.37	**0.78**	-	0.41	**0.62**	0.26	-	-	-	-
Gross beta	Bq/L	-	0.1	0.92	1.07	0.98	0.53	1.18	1.49	-	1.56	0.6	1.09	-	-	-	-
Gross beta activity - 40K	Bq/L	-	0.1	0.29	0.77	0.61	0.31	0.7	1.09	-	0.74	0.34	0.93	-	-	-	-
Gross beta (excluding k-40)	Bq/L	0.5	0.1	**0.63**	0.3	0.37	0.22	0.48	0.4	-	**0.82**	0.26	0.16	-	-	-	-
Major Anions and Cations																	
Bicarbonate	mg/L	-	1	116	46	56	208	96	274	-	190	233	310	-	-	-	-
Carbonate	mg/L	-	1	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Chloride	mg/L	-	1	246	53	66	151	174	243	-	235	196	137	-	-	-	-
Sulphate	mg/L	-	1	154	37	42	1650	91	124	-	118	253	69	-	-	-	-
Nitrate	mg/L	-	0.01	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Nitrite	mg/L	-	0.01	1.51	0.54	1.66	<LOR	1.55	0.55	-	11	<LOR	2.42	-	-	-	-
Fluoride	mg/L	2	0.1	0.5	0.5	0.6	0.8	0.5	1.1	-	1.1	<LOR	0.6	-	-	-	-
Sodium	mg/L	-	1	123	40	49	141	88	130	-	128	133	78	-	-	-	-
Potassium	mg/L	-	1	23	11	13	8	18	15	-	31	10	6	-	-	-	-
Calcium	mg/L	1000	1	59	10	12	535	39	73	-	70	108	69	-	-	-	-
Magnesium	mg/L	-	1	37	8	11	108	27	53	-	38	46	50	-	-	-	-
Iron	mg/L	-	0.05	0.2	<LOR	<LOR	0.39	<LOR	<LOR	-	0.07	1.83	<LOR	-	-	-	-
Hydrocarbons																	
TRH: C6-C10	µg/L	-	20	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
TRH: >C10-C40	µg/L	-	100	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Benzene	µg/L	-	1	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Toluene	µg/L	-	2	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Ethylbenzene	µg/L	-	2	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Total Xylenes	µg/L	-	2	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Naphthalene	µg/L	-	5	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
PAH Suite	µg/L	-	0.5	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Dissolved Gases																	
Methane	µg/L	-	10	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Ethane	µg/L	-	10	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Propane	µg/L	-	10	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Dissolved Metals/metalloids																	
Chromium	mg/L	1	0.001	0.003	0.006	<LOR	<LOR	0.004	<LOR	-	0.002	<LOR	<LOR	-	-	-	-
Copper[3]	mg/L	1	0.001	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	0.002	-	-	-	-
Lead	mg/L	0.1	0.001	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Manganese	mg/L	-	0.001	0.013	0.007	0.014	0.101	0.004	0.008	-	0.015	0.053	<LOR	-	-	-	-
Mercury	mg/L	0.002	0.0001	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Silver	mg/L	-	0.001	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Arsenic	mg/L	0.5	0.001	<LOR	<LOR	<LOR	0.003	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Barium	mg/L	-	0.001	0.035	0.031	0.117	0.023	0.083	0.073	-	0.045	0.052	0.063	-	-	-	-
Boron	mg/L	5	0.05	0.25	0.21	0.26	0.43	0.22	0.26	-	0.5	0.09	0.19	-	-	-	-
Cadmium	mg/L	0.01	0.0001	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Lithium	mg/L	-	0.001	0.011	<LOR	<LOR	0.07	0.003	0.012	-	0.008	0.048	0.02	-	-	-	-
Selenium	mg/L	0.02	0.01	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	-	<LOR	<LOR	<LOR	-	-	-	-
Silica	mg/L	-	0.05	16.3	14	13.9	23.1	15.7	16.8	-	49.3	20.3	29.6	-	-	-	-
Strontium	mg/L	-	0.001	0.529	0.13	0.156	6.25	0.332	0.742	-	0.761	0.91	0.327	-	-	-	-
Zinc	mg/L	20	0.005	0.015	0.008	0.027	<LOR	0.046	0.105	-	0.012	0.012	<LOR	-	-	-	-

1, 2 - guideline value for beef cattle

0.5 Guideline value exceeded

\- Not analysed

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