



LEADERS IN ENVIRONMENTAL MONITORING



Kelvin Power Station Quarterly Water Quality Report

June 2025

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Kelvin Power Station
Quarterly Groundwater Assessment Report

June 2025

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Kelvin Power Station
Quarter 2 Groundwater Assessment Report
June 2025

The logo consists of a purple oval with the text "Groundwater Complete" in white. The oval is surrounded by two light blue, hand-drawn style loops.

Groundwater Complete

KELVIN POWER STATION

**REPORT ON GROUNDWATER
MONITORING RESULTS FOR
QUARTER 2 OF 2025**

JULY 2025

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KELVIN POWER STATION: REPORT ON GROUNDWATER MONITORING RESULTS FOR QUARTER 2 OF 2025, JULY 2025

1 INTRODUCTION

Kelvin Power Station (Kelvin) is a coal-fired power station situated in Kempton Park, Gauteng Province. Kelvin has **two coal stockpiles**, a **clinker dump** and **two ash dams** as potential sources of groundwater contamination on site. The main purpose of the monitoring program is to monitor and evaluate any potential negative impact/s that the operation may potentially have on the groundwater regime, both in terms of groundwater quality and quantity.

The quarterly evaluation by Groundwater Complete focused on monitoring data from the Aquatico sampling run that was conducted in June 2025, but also referred back to and correlated with earlier data for trend analysis (provided by Kelvin Power) and the assessment of seasonal variations. A sampling register for the last quarterly sampling run is provided in Table 1-1. A total of 22 monitoring boreholes are listed in the sampling register, three of which are new to the monitoring program (i.e. KPS-NBH01 – KPS-NBH03) and were drilled in June 2025. The positions of all monitoring boreholes listed in the groundwater sampling register are indicated in Figure 1-1.

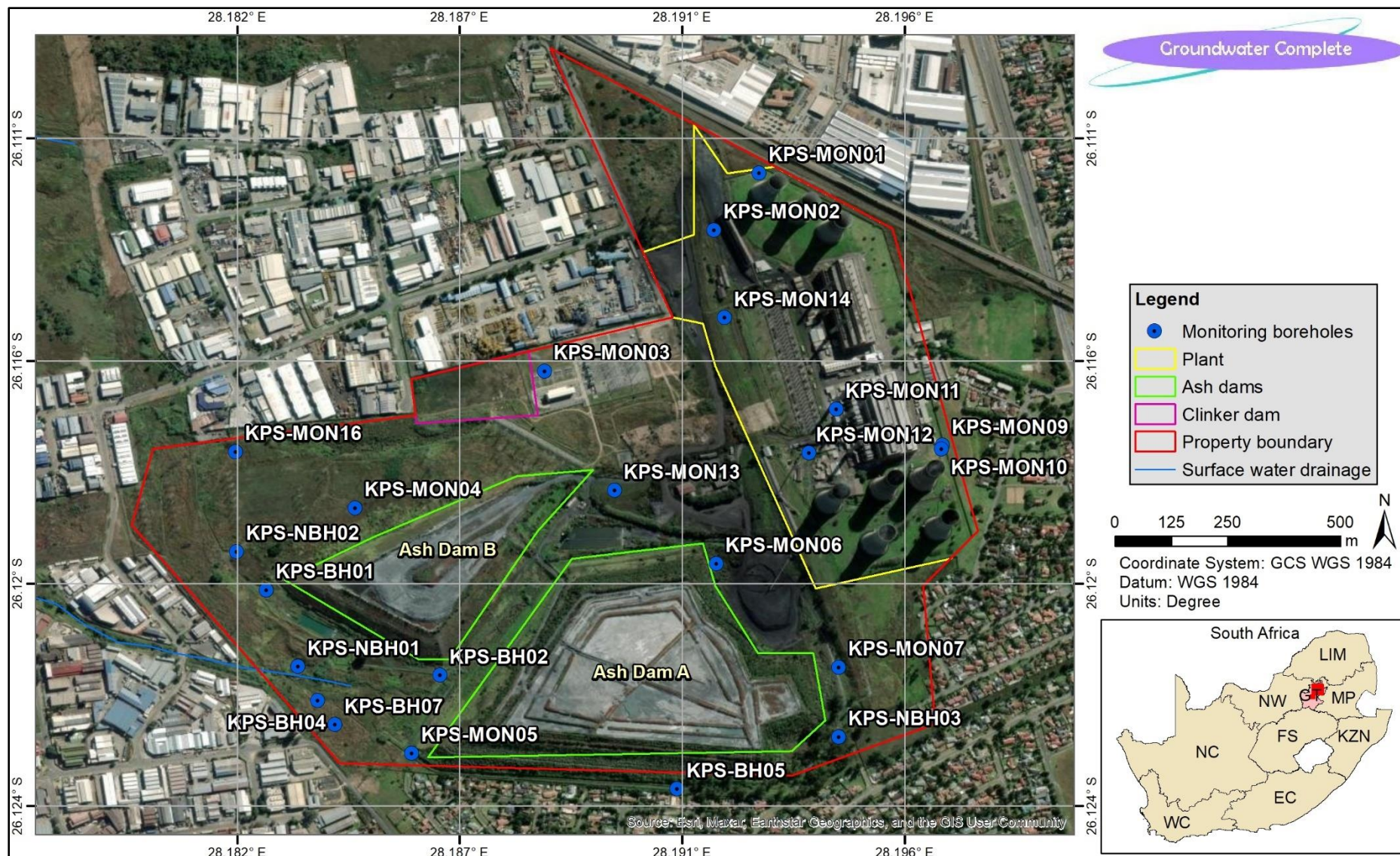


Figure 1-1: Map of the Kelvin Power Station area with distribution of groundwater monitoring points

Table 1-1: Groundwater sampling register for quarter 2 of 2025

BH	Description	Coordinates (WGS 84)		Sampled	Water level (mbs)	Comment
		South	East			
KPS-BH01	Western perimeter - toe of Ash Dam B	-26.1201	28.1828	Yes	3.1	Clear, no lid
KPS-BH02	Southern toe of Ash Dam B	-26.1218	28.1862	Yes	1.3	Clear
KPS-BH04	Western perimeter	-26.1224	28.1840	Yes	1.1	Clear
KPS-BH05	Southern perimeter - south of Ash Dam A	-26.1241	28.1910	Yes	2.9	Clear
KPS-BH07	South-western perimeter	-26.1228	28.1843	Yes	3.3	Clear
KPS-MON01	Northern perimeter next to Coal Stockpile	-26.1118	28.1927	Yes	8.9	Clear, no lid
KPS-MON02	Northern perimeter south of Coal Stockpile	-26.1130	28.1917	Yes	6.2	Clear
KPS-MON03	North of Ash Dump – north-western perimeter	-26.1157	28.1884	Yes	5.7	Clear
KPS-MON04	Western perimeter between the Ash Dump and Ash Dam B	-26.1185	28.1846	Yes	2.9	Slightly turbid
KPS-MON05	Southern perimeter on southern toe of Ash Dam A	-26.1234	28.1857	Yes	2.3	Slightly turbid
KPS-MON06	Between Ash Dam A and Southern Coal Stockpile	-26.1196	28.1918	Yes	2.1	Clear
KPS-MON07	South-east of Southern Coal Stockpile	-26.1216	28.1942	Yes	2.3	Turbid
KPS-MON09	Background deep	-26.1173	28.1964	Yes	5.1	Clear
KPS-MON10	Background shallow	-26.1173	28.1963	Yes	4.6	Clear
KPS-MON11	Fuel storage	-26.1153	28.1942	Yes	4.8	Slightly turbid
KPS-MON12	HFO storage	-26.1173	28.1937	Yes	6.6	Clear
KPS-MON13	Brick Yard (Footprint)	-26.1182	28.1898	Yes	4.8	Clear
KPS-MON14	Switch Yard	-26.1147	28.1920	Yes	5.7	Clear
KPS-MON16	Clinker Dump (replace KPS-MON03)	-26.1174	28.1822	Yes	3.8	Clear
KPS-NBH01	Newly drilled borehole	-26.1217	28.1834	Yes	1.8	Slightly turbid
KPS-NBH02	Newly drilled borehole	-26.1194	28.1822	Yes	1.9	Slightly turbid
KPS-NBH03	Newly drilled borehole	-26.1242	28.1933	Yes	3.6	Slightly turbid

2 INTERPRETATION OF MONITORING DATA

Groundwater level information is used to determine the local groundwater flow directions which, due to the forces of gravity, are from higher to lower hydraulic elevations. Prior to discussing the groundwater qualities, a good understanding of groundwater flow directions will help to explain the groundwater quality distribution and anomalies if encountered.

2.1 GROUNDWATER LEVELS

Groundwater level measurements were taken at all monitoring boreholes listed in the groundwater sampling register for June 2025 (Table 1-1). Contour maps of the June 2025 groundwater level depths and elevations are provided in Figure 2-1 and Figure 2-2 respectively. The blue circles indicated on the two abovementioned figures represent the positions of the monitoring boreholes, while the sizes of the circles are proportional to the groundwater level depth/elevation (i.e. the largest circle represents the deepest water level and highest elevation). Groundwater level elevations were calculated by subtracting the measured water level depth from the surface elevation measured at the position of each borehole. Note that elevations were obtained from the Chief Surveyor-General, which are considered accurate enough for this level of assessment.

The following observations are made from the water level data:

- Groundwater level depths varied between 1.1 and 8.9 meters below surface (mbs), while the elevations were estimated to have varied between 1 619 and 1 666 meters above mean sea level (mamsl).
- The shallow water level depths measured directly downgradient from the two ash dams are most probably a result of artificial aquifer recharge in the form of seepage from the dams. The deepest water level was measured in KPS-MON01, which is situated north of the Plant.
- Significant water level variations are observed in some boreholes (e.g. KPS-MON01, KPS-MON02, KPS-MON03 and KPS-MON14) when considering the entire data record, which seem to be mostly seasonally driven. Water levels rise during the wet summer rainfall months and drop again during the dry winter months.
- Furthermore, boreholes KPS-MON01, KPS-MON02 and KPS-MON03 display long-term decreasing water level trends when considering the entire data record – the exact cause/s of which is unclear at this time.
- Groundwater flow from the ash dams is towards the west/south-west in the direction of a tributary of the Jukskei River. Flow from the plant area is predominantly towards the west, but may also occur towards the north-east as it is located on a local groundwater divide.

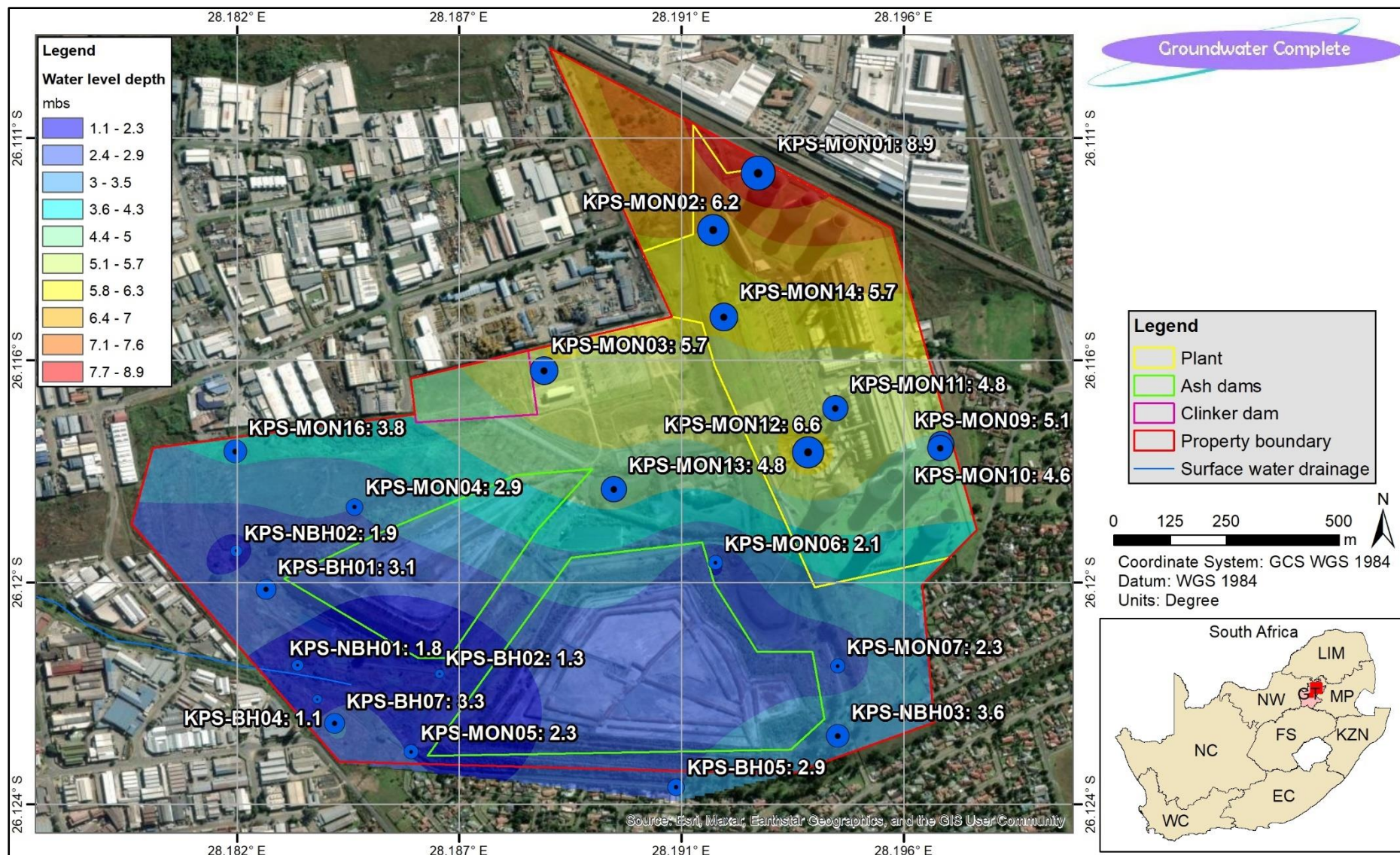


Figure 2-1: Contour map of the June 2025 groundwater level depths

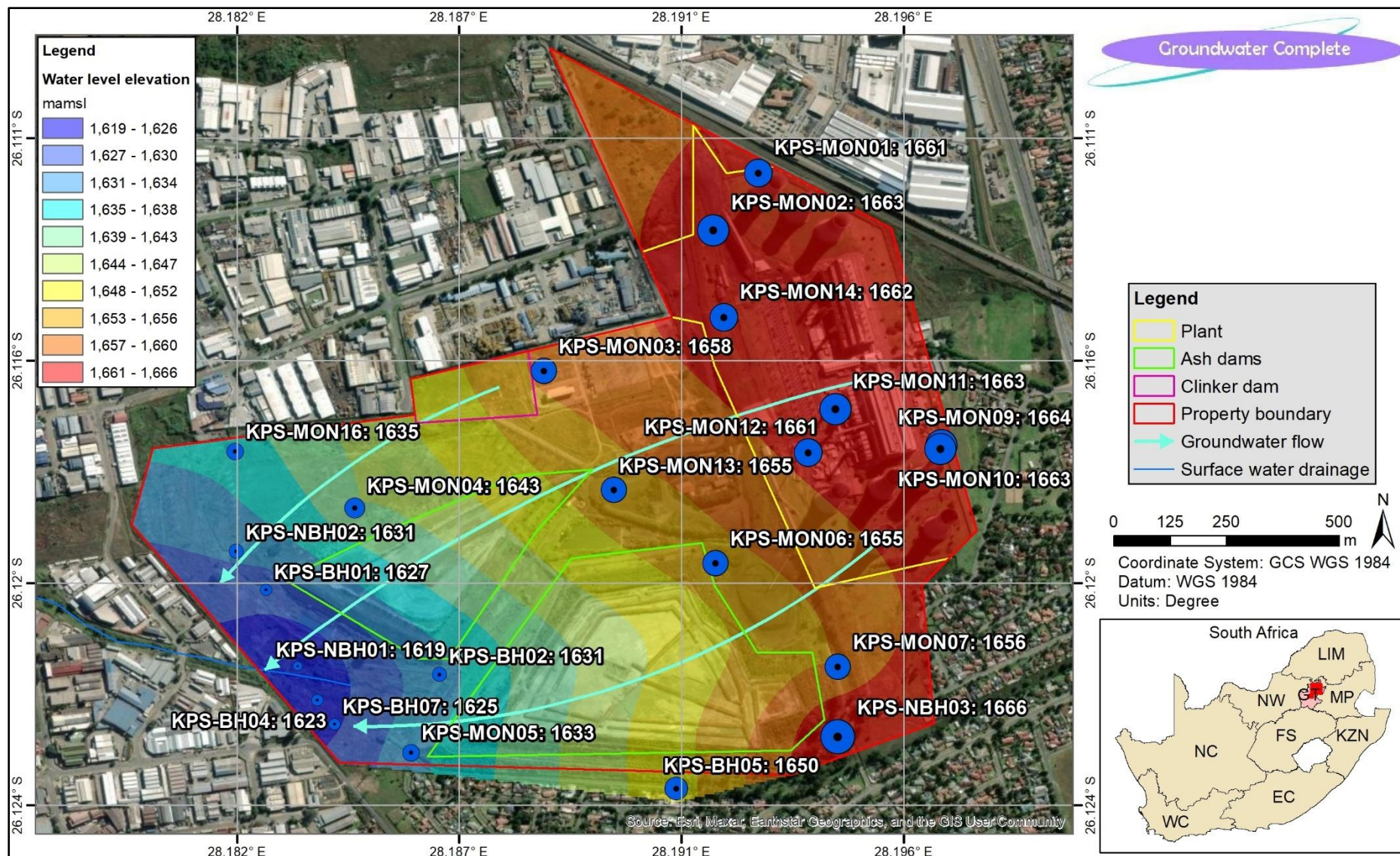


Figure 2-2: Contour map of the June 2025 groundwater level elevations

2.2 HYDROGEOCHEMISTRY

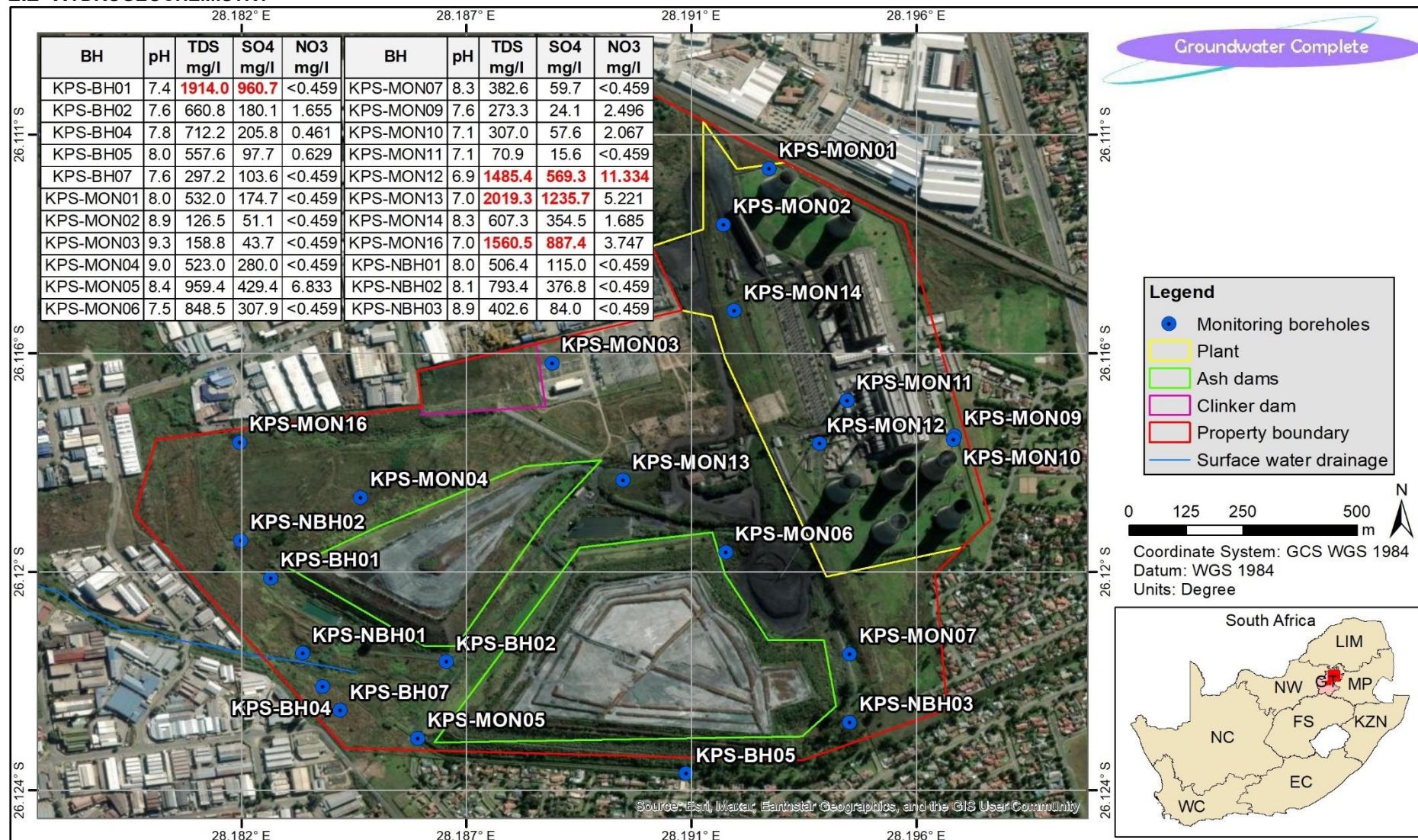


Figure 2-3: Positions of monitoring boreholes and concentrations of indicator parameters for June 2025

Table 2-1: Exceedances of the SANS 241:2015 limits for June 2025

BH	pH	TDS	SO ₄	NO ₃	Other	Probable Source
KPS-BH01					EC, B	Ash Dam B
KPS-BH02					T. coli	Unknown source of bacteria
KPS-BH04					Cd	Unknown source of bacteria
KPS-BH05					T. coli	Unknown source of bacteria
KPS-MON01					T. coli	Diffuse sources at plant
KPS-MON03					T. coli	Unknown source of bacteria
KPS-MON06					Na	Ash Dam A/Coal stockpile
KPS-MON12					EC, NH ₄ , Pb	Diffuse sources at plant
KPS-MON13					EC, Ni	Brick yard footprint
KPS-MON14					T. coli	Unknown source of bacteria
KPS-MON16					EC	Clinker dump
KPS-NBH03					NH ₄	Ash Dam A

A total of 22 monitoring boreholes are listed in the groundwater sampling register for June 2025 (Table 1-1), all of which were sampled for monitoring purposes. Borehole positions are indicated on Figure 2-3, together with the concentrations of the four chosen physical and chemical indicator parameters. These indicator parameters include pH, total dissolved solids (TDS), sulphate (SO₄) and nitrate (NO₃), however, all inorganic parameters will be assessed, and anomalies will be analysed and discussed if necessary.

The groundwater quality data was evaluated with the aid of diagnostic chemical diagrams and by comparing the inorganic concentrations with the *South African National Standards* for drinking water (Table 2-2). Exceedances of the drinking water limits, along with the probable source of contamination, are also summarised in Table 2-1. The probable source is determined by considering the measured groundwater level monitoring information and local flow directions (Section 2.1), but sources are not always conclusive. The results of the June 2025 groundwater analyses are provided in Table 2-3.

One of the most appropriate ways to interpret the type of water at a sampling point is to assess the plot position of the water quality on different analytical diagrams like a Piper, Expanded Durov and Stiff diagrams. Of these three types, the Expanded Durov diagram probably gives the most holistic water quality signature. Both Expanded Durov and Stiff diagrams are provided in Figure 2-4 and Figure 2-5 respectively.

A column graph was generated and used to draw direct comparisons between the up- and downgradient groundwater qualities (Figure 2-6). Note that the groundwater qualities of boreholes KPS-MON09 and KPS-MON10 were used as reference for the upgradient conditions.

The following are observations concerning the water quality data:

- Groundwater qualities, in terms of the inorganic content, varied from mostly good to poor if compared with the South African National Standards for drinking water (SANS 241:2015).
- Monitoring information shows signs of adverse groundwater quality impacts, especially downgradient from Ash Dam A and the coal stockpile (KPS-BH04, MON05 and MON06), Ash Dam B (KPS-BH01, BH02, NBH01, NBH02), the brick yard footprint (KPS-MON13) the Plant (KPS-MON01, MON12 and MON14) and clinker dump (KPS-MON04 and MON16).
- Sulphate, nitrate and sodium were identified as the dominant contaminants associated with the abovementioned source areas.
- Bacteriological contamination was encountered in five monitoring boreholes, which renders groundwater from these boreholes unsafe for human consumption. The source of this contamination is unknown and causes should be investigated.
- The bacteriological contamination varies significantly from quarter to quarter, this almost certainly indicates that contamination is of a sporadic nature.
- Groundwater is mainly dominated by magnesium cations. Sulphate is generally the dominant anion in the downgradient groundwater flow direction, which indicates adverse groundwater quality impacts. On the other hand, bicarbonate alkalinity dominates where the inorganic content of the groundwater is generally representative of ambient/unaffected conditions.
- The graph comparing the up- and downgradient groundwater qualities clearly shows the significance of the groundwater quality impacts. The average downgradient groundwater sulphate content was nearly ten times higher than the upgradient concentration. Furthermore, sodium was also markedly higher in the downgradient groundwater flow direction.
- Studies have shown ash dams to be potential sources of hexavalent chromium, which poses a major health threat to groundwater users as it is a confirmed carcinogen – if present at high enough concentrations. No traces thereof were found in the monitoring boreholes situated in the vicinity of the two ash dams.
- Groundwater samples were additionally analysed for a wide range of semi-volatile organic compounds (SVOCs) and polychlorinated biphenols (PCBs). None of the samples contained any discernible concentrations of PCBs, while the following SVOCs were found to be present:

BH	Semi-volatile organic compounds
KPS-MON11	Phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b+k)fluoranthene, benzo(a)pyrene, benzo(g,h,i)perylene, indeno(123-cd)pyrene

Table 2-2: South African National Standards for drinking water (SANS 241:2015)

Parameter	Risk	Unit	Standard limits
Physical and aesthetic determinants			
Free chlorine	Chronic health	mg/l	≤ 5
Monochloramine	Chronic health	mg/l	≤ 3
Conductivity at 25 °C	Aesthetic	mS/m	≤ 170
Total dissolved solids	Aesthetic	mg/l	≤ 1 200
Turbidity	Operational	NTU	≤ 1
	Aesthetic	NTU	≤ 5
pH at 25 C	Operational	pH units	≥ 5 to ≤ 9.7
Chemical determinants - macro-determinants			
Nitrate as N	Acute health – 1	mg/l	≤ 11
Nitrite as N	Acute health – 1	mg/l	≤ 0.9
Sulphate as SO ₄ ²⁻	Acute health – 1	mg/l	≤ 500
	Aesthetic	mg/l	≤ 250
Fluoride as F ⁻	Chronic health	mg/l	≤ 1.5
Ammonia as N	Aesthetic	mg/l	≤ 1.5
Chloride as Cl ⁻	Aesthetic	mg/l	≤ 300
Sodium as Na	Aesthetic	mg/l	≤ 200
Zinc as Zn	Aesthetic	mg/l	≤ 5
Chemical determinants - micro-determinants			
Aluminium as Al	Operational	µg/l	≤ 300
Antimony as Sb	Chronic health	µg/l	≤ 20
Arsenic as As	Chronic health	µg/l	≤ 10
Barium Ba	Chronic health	µg/l	≤ 700
Boron B	Chronic health	µg/l	≤ 2 400
Cadmium as Cd	Chronic health	µg/l	≤ 3
Total chromium as Cr	Chronic health	µg/l	≤ 50
Cobalt as Co	Chronic health	µg/l	≤ 500
Copper as Cu	Chronic health	µg/l	≤ 2 000
Cyanide (recoverable) as CN ⁻	Acute health – 1	µg/l	≤ 70
Iron as Fe	Chronic health	µg/l	≤ 2 000
	Aesthetic	µg/l	≤ 300
Lead as Pb	Chronic health	µg/l	≤ 10
Manganese as Mn	Chronic health	µg/l	≤ 400
	Aesthetic	µg/l	≤ 100
Mercury as Hg	Chronic health	µg/l	≤ 6
Nickel as Ni	Chronic health	µg/l	≤ 70
Selenium as Se	Chronic health	µg/l	≤ 40
Uranium as U	Chronic health	µg/l	≤ 15
Vanadium as V	Chronic health	µg/l	≤ 200
Organic determinants			
Total organic carbon	Acute health – 1	mg/l	≤ 10

Table 2-3: Results of the June 2025 groundwater analyses for physical and chemical parameters and bacteriological counts

BH	pH	EC mS/m	TDS mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	MALK CaCO ₃ /l	Cl mg/l	SO ₄ mg/l	NO ₃ mg/l	F mg/l	Al mg/l	Fe mg/l	Mn mg/l	NH ₄ mg/l
KPS-BH01	7.4	239.9	1914.0	215.1	184.0	116.7	26.7	501.7	79.0	960.7	<0.459	<0.466	<0.005	<0.009	<0.001	0.041
KPS-BH02	7.6	109.3	660.8	44.5	113.1	15.2	<0.05	250.0	103.6	180.1	1.655	<0.466	<0.005	<0.009	<0.001	0.036
KPS-BH04	7.8	103.6	712.2	51.8	112.0	16.1	0.3	331.9	73.3	205.8	0.461	<0.466	<0.005	<0.009	<0.001	0.053
KPS-BH05	8.0	87.8	557.6	29.5	97.9	6.4	2.2	295.1	87.6	97.7	0.629	<0.466	<0.005	<0.009	<0.001	0.033
KPS-BH07	7.6	47.0	297.2	13.1	44.9	20.3	<0.05	133.0	14.2	103.6	<0.459	<0.466	<0.005	<0.009	<0.001	0.060
KPS-MON01	8.0	86.1	532.0	7.4	50.4	95.9	7.3	185.1	71.6	174.7	<0.459	<0.466	<0.005	<0.009	0.288	0.059
KPS-MON02	8.9	23.2	126.5	4.2	14.9	14.2	1.0	36.1	16.8	51.1	<0.459	<0.466	<0.005	<0.009	0.016	0.868
KPS-MON03	9.3	29.6	158.8	3.5	30.5	5.9	1.3	66.1	31.4	43.7	<0.459	<0.466	<0.005	<0.009	0.005	0.039
KPS-MON04	9.0	77.2	523.0	7.6	96.7	10.8	<0.05	120.6	49.1	280.0	<0.459	<0.466	<0.005	<0.009	<0.001	0.034
KPS-MON05	8.4	143.7	959.4	65.1	16.2	182.9	34.4	85.6	127.6	429.4	6.833	<0.466	<0.005	<0.009	<0.001	0.061
KPS-MON06	7.5	147.5	848.5	22.1	0.6	246.8	44.4	103.0	160.9	307.9	<0.459	<0.466	<0.005	<0.009	0.063	0.983
KPS-MON07	8.3	61.7	382.6	16.1	69.9	21.3	0.8	263.5	41.9	59.7	<0.459	<0.466	<0.005	<0.009	0.030	0.030
KPS-MON09	7.6	40.8	273.3	7.2	46.9	4.3	0.2	161.5	25.8	24.1	2.496	<0.466	<0.005	<0.009	<0.001	0.131
KPS-MON10	7.1	44.1	307.0	6.4	51.9	5.6	<0.05	145.2	35.3	57.6	2.067	<0.466	<0.005	<0.009	<0.001	0.029
KPS-MON11	7.1	10.9	70.9	8.4	4.3	3.5	0.3	32.4	<1.62	15.6	<0.459	<0.466	<0.005	<0.009	0.017	0.029
KPS-MON12	6.9	199.8	1485.4	152.7	166.6	54.3	7.6	508.7	109.8	569.3	11.334	<0.466	<0.005	<0.009	0.049	9.604
KPS-MON13	7.0	237.1	2019.3	39.6	357.7	46.1	<0.05	337.4	53.4	1235.7	5.221	<0.466	<0.005	<0.009	<0.001	0.153
KPS-MON14	8.3	86.5	607.3	9.9	109.7	14.2	<0.05	106.6	32.1	354.5	1.685	<0.466	<0.005	<0.009	<0.001	0.025
KPS-MON16	7.0	197.6	1560.5	122.4	247.1	15.9	<0.05	238.3	57.6	887.4	3.747	<0.466	<0.005	<0.009	<0.001	0.078
KPS-NBH01	8.0	94.3	506.4	29.0	99.0	8.0	<0.05	214.0	114.7	115.0	<0.459	<0.466	<0.005	<0.009	0.073	0.047
KPS-NBH02	8.1	119.0	793.4	37.3	137.5	12.5	<0.05	228.1	85.1	376.8	<0.459	<0.466	<0.005	<0.009	0.085	0.023
KPS-NBH03	8.9	67.6	402.6	11.8	85.8	8.8	0.7	248.4	54.4	84.0	<0.459	<0.466	<0.005	<0.009	0.054	2.408

Notes:

- **Red** – Parameter value exceeds maximum concentration allowed in drinking water (SANS 241:2015);
- Maximum *T. coli* count allowed in drinking water is 10 per 100 ml, while No *E. coli* or *F. coli* should be present (SANS 241:2015).

Table 2-3: Results of the June 2025 groundwater analyses for physical and chemical parameters and bacteriological counts (continue)

BH	THard mg/l	PO ₄ mg/l	B mg/l	Ba mg/l	Cd mg/l	Co mg/l	Cr mg/l	Cr ⁶⁺ mg/l	Cu mg/l	Ni mg/l	Pb mg/l	V mg/l	Zn mg/l	T.coli/ 100ml	E.coli/ 100ml	F.coli/ 100ml
KPS-BH01	1294.9	<0.01	4.141	0.033	<0.005	<0.007	<0.007	<0.01	<0.005	0.028	<0.009	<0.002	<0.005	0	0	0
KPS-BH02	576.8	<0.01	0.325	0.040	<0.005	<0.007	<0.007	<0.01	<0.005	0.017	<0.009	<0.002	<0.005	20	0	0
KPS-BH04	590.5	<0.01	0.142	0.045	0.006	<0.007	<0.007	<0.01	0.045	<0.005	<0.009	<0.002	<0.005	0	0	0
KPS-BH05	476.9	<0.01	0.094	0.058	<0.005	<0.007	<0.007	<0.01	<0.005	0.019	<0.009	<0.002	<0.005	30	0	0
KPS-BH07	217.8	0.048	0.162	0.020	<0.005	<0.007	<0.007	<0.01	0.015	0.012	<0.009	<0.002	<0.005	0	0	0
KPS-MON01	226.2	<0.01	0.115	0.009	<0.005	<0.007	<0.007	<0.01	0.017	0.015	<0.009	<0.002	<0.005	10	0	0
KPS-MON02	71.6	0.033	<0.042	0.007	<0.005	<0.007	<0.007	<0.01	<0.005	<0.005	<0.009	<0.002	<0.005	0	0	0
KPS-MON03	134.3	<0.01	<0.042	0.008	<0.005	<0.007	<0.007	<0.01	<0.005	<0.005	<0.009	<0.002	<0.005	100	0	0
KPS-MON04	417.3	<0.01	<0.042	0.009	<0.005	<0.007	<0.007	<0.01	0.040	<0.005	<0.009	<0.002	<0.005	0	0	0
KPS-MON05	229.1	0.012	1.009	0.059	<0.005	<0.007	<0.007	<0.01	<0.005	0.009	<0.009	0.032	<0.005	0	0	0
KPS-MON06	57.6	0.328	1.685	0.017	<0.005	<0.007	<0.007	<0.01	<0.005	<0.005	<0.009	<0.002	<0.005	0	0	0
KPS-MON07	328.2	0.030	2.357	0.012	<0.005	<0.007	<0.007	<0.01	0.022	<0.005	<0.009	<0.002	<0.005	0	0	0
KPS-MON09	211.4	<0.01	0.168	0.049	<0.005	<0.007	0.013	0.012	0.015	<0.005	<0.009	<0.002	<0.005	0	0	0
KPS-MON10	229.7	<0.01	0.056	0.074	<0.005	<0.007	<0.007	<0.01	0.016	0.023	<0.009	<0.002	<0.005	0	0	0
KPS-MON11	38.8	0.029	0.049	0.027	<0.005	<0.007	<0.007	<0.01	<0.005	<0.005	<0.009	<0.002	0.196	0	0	0
KPS-MON12	1067.3	1.350	1.236	0.056	<0.005	<0.007	<0.007	<0.01	0.065	0.059	0.036	<0.002	0.012	0	0	0
KPS-MON13	1571.6	<0.01	1.429	0.018	<0.005	<0.007	0.015	<0.01	0.098	0.111	<0.009	<0.002	<0.005	0	0	0
KPS-MON14	476.6	0.031	0.137	0.015	<0.005	<0.007	<0.007	<0.01	0.046	0.008	<0.009	<0.002	<0.005	10	0	0
KPS-MON16	1323.4	0.044	0.316	0.020	<0.005	<0.007	<0.007	<0.01	0.079	0.017	<0.009	<0.002	<0.005	0	0	0
KPS-NBH01	480.1	<0.01	0.149	<0.006	<0.005	<0.007	<0.007	<0.01	0.041	0.016	<0.009	<0.002	<0.005	0	0	0
KPS-NBH02	659.1	0.052	0.167	0.022	<0.005	<0.007	<0.007	<0.01	0.054	0.007	<0.009	<0.002	<0.005	0	0	0
KPS-NBH03	382.8	<0.01	0.227	<0.006	<0.005	<0.007	<0.007	<0.01	0.031	<0.005	<0.009	<0.002	<0.005	0	0	0

Notes:

- **Red** – Parameter value exceeds maximum concentration allowed in drinking water (SANS 241:2015);
- Maximum T. coli count allowed in drinking water is 10 per 100 ml, while No E. coli or F. coli should be present (SANS 241:2015).

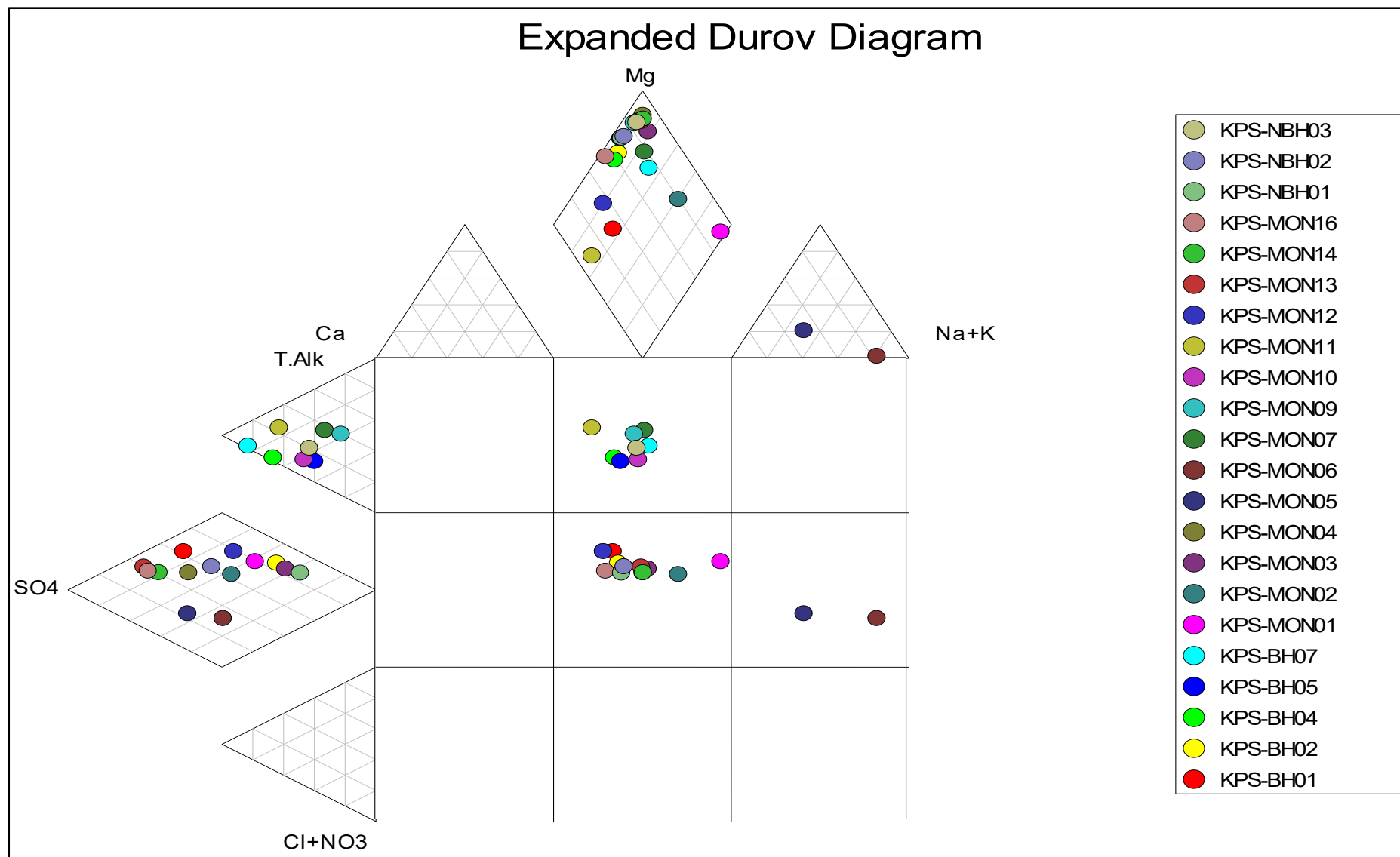


Figure 2-4: Expanded Durov diagram of groundwater chemistries in June 2025

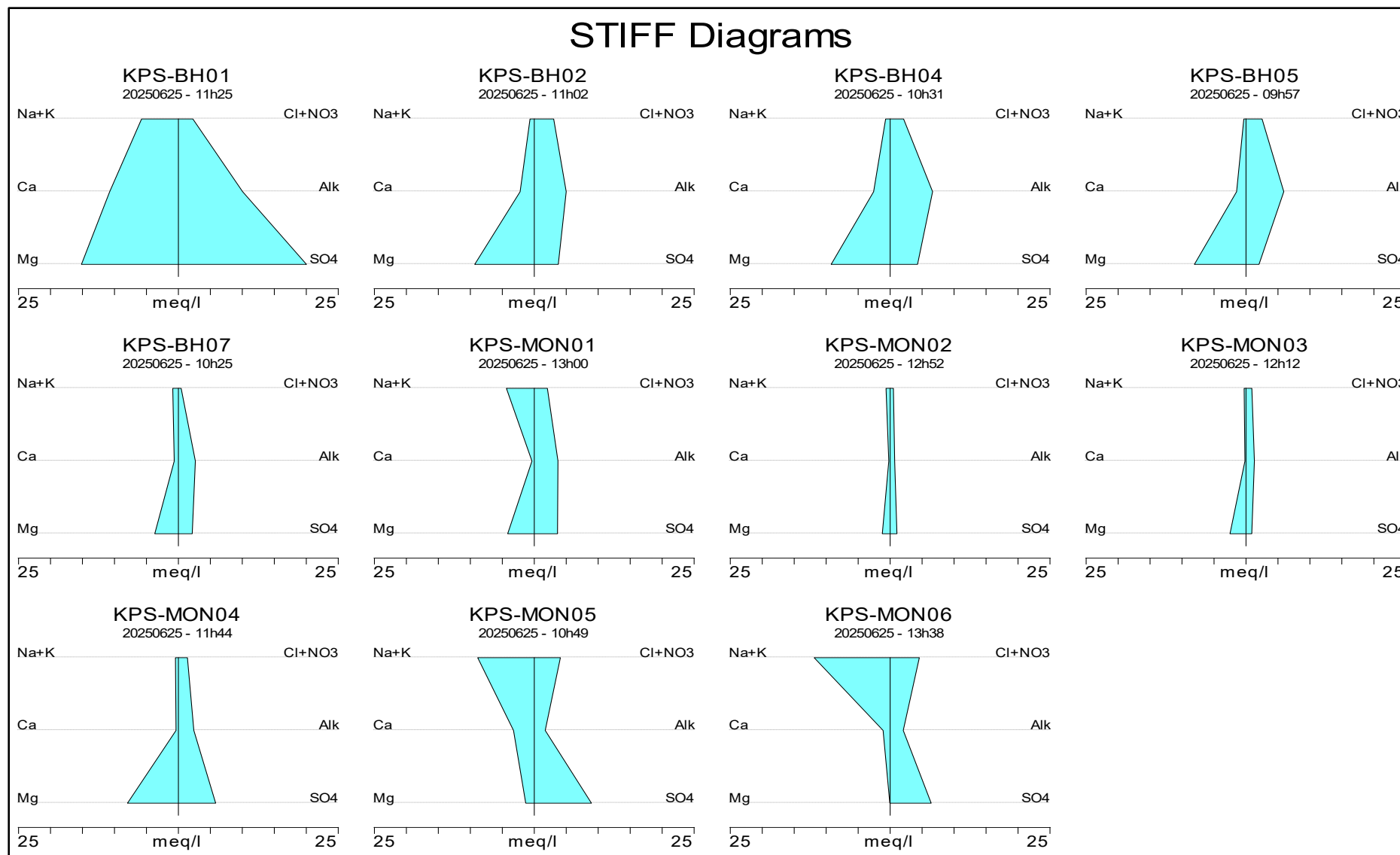


Figure 2-5: Stiff diagrams of groundwater chemistries in June 2025

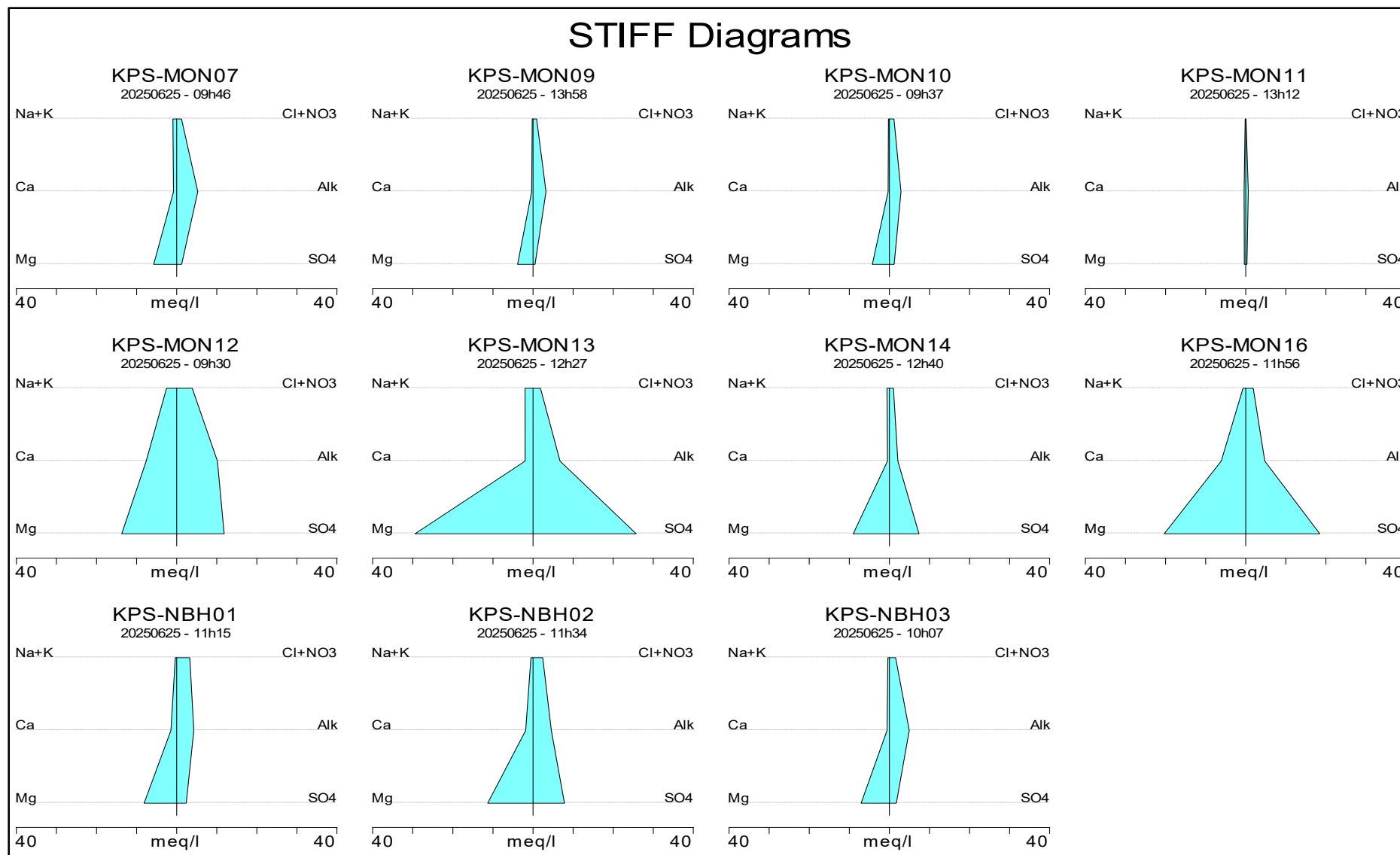


Figure 2-5: Stiff diagrams of groundwater chemistries in June 2025 (continue)

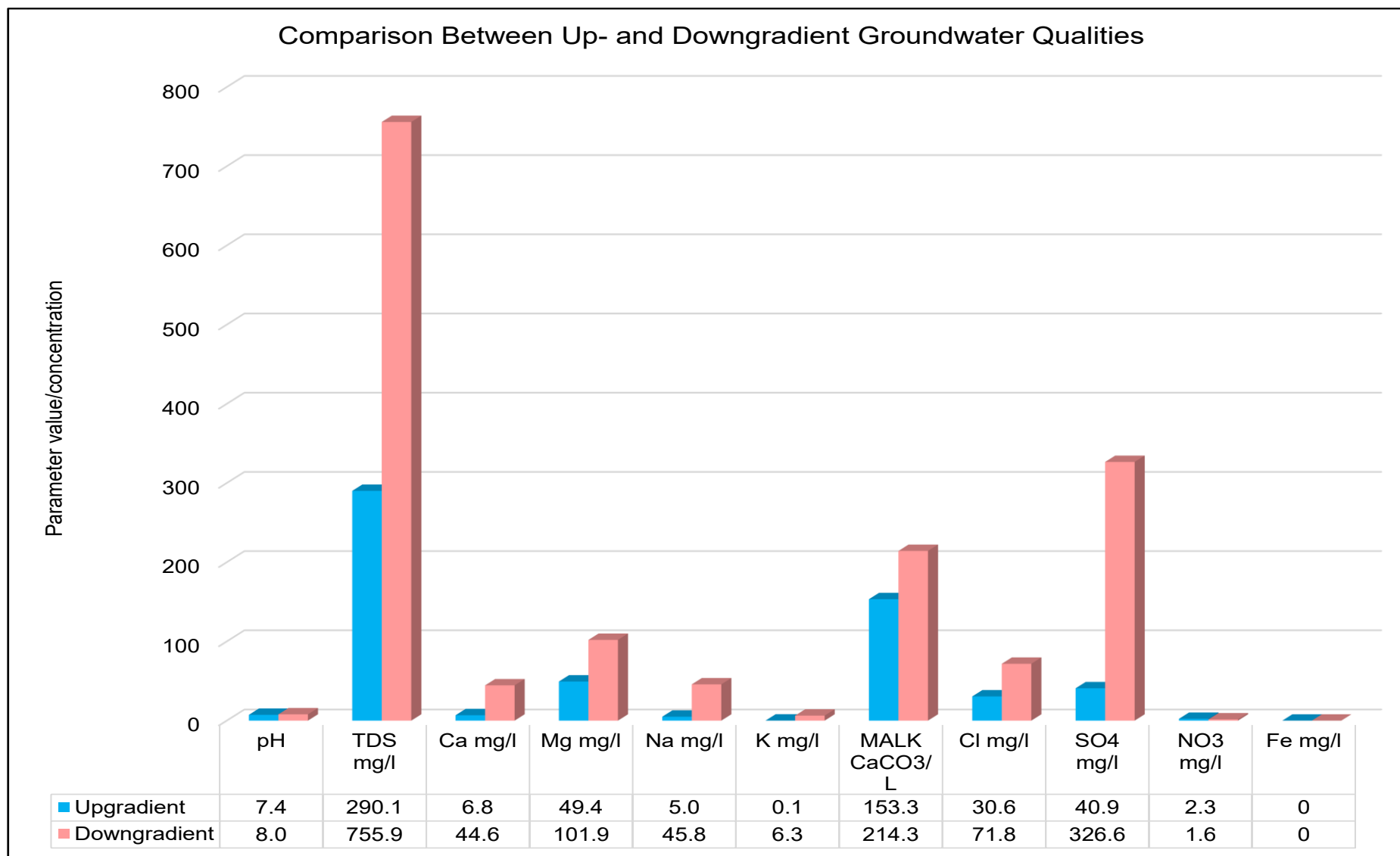


Figure 2-6: Comparison between up- and downgradient groundwater qualities for June 2025

2.3 CONTOURING OF GROUNDWATER QUALITY IMPACTS

Groundwater TDS concentrations as measured in June 2025 were used to generate a thematic contour map of the groundwater quality impacts at Kelvin (Figure 2-7).

The following are observations concerning the impact delineation:

- From Figure 2-7 it is clear that the brick yard footprint, Ash Dam A (including the coal stockpile) and Ash Dam B are the most significant sources of inorganic type groundwater contamination.
- Additional plume monitoring boreholes (i.e. KPS-NBH01 and NBH02) were drilled in March 2025, and the next step would now be to determine if any groundwater users are located downgradient from the power station that may potentially be adversely affected (hydrocensus/user survey).
- Numerical mass transport modelling is also recommended to predict/simulate plume migration in the years to come.

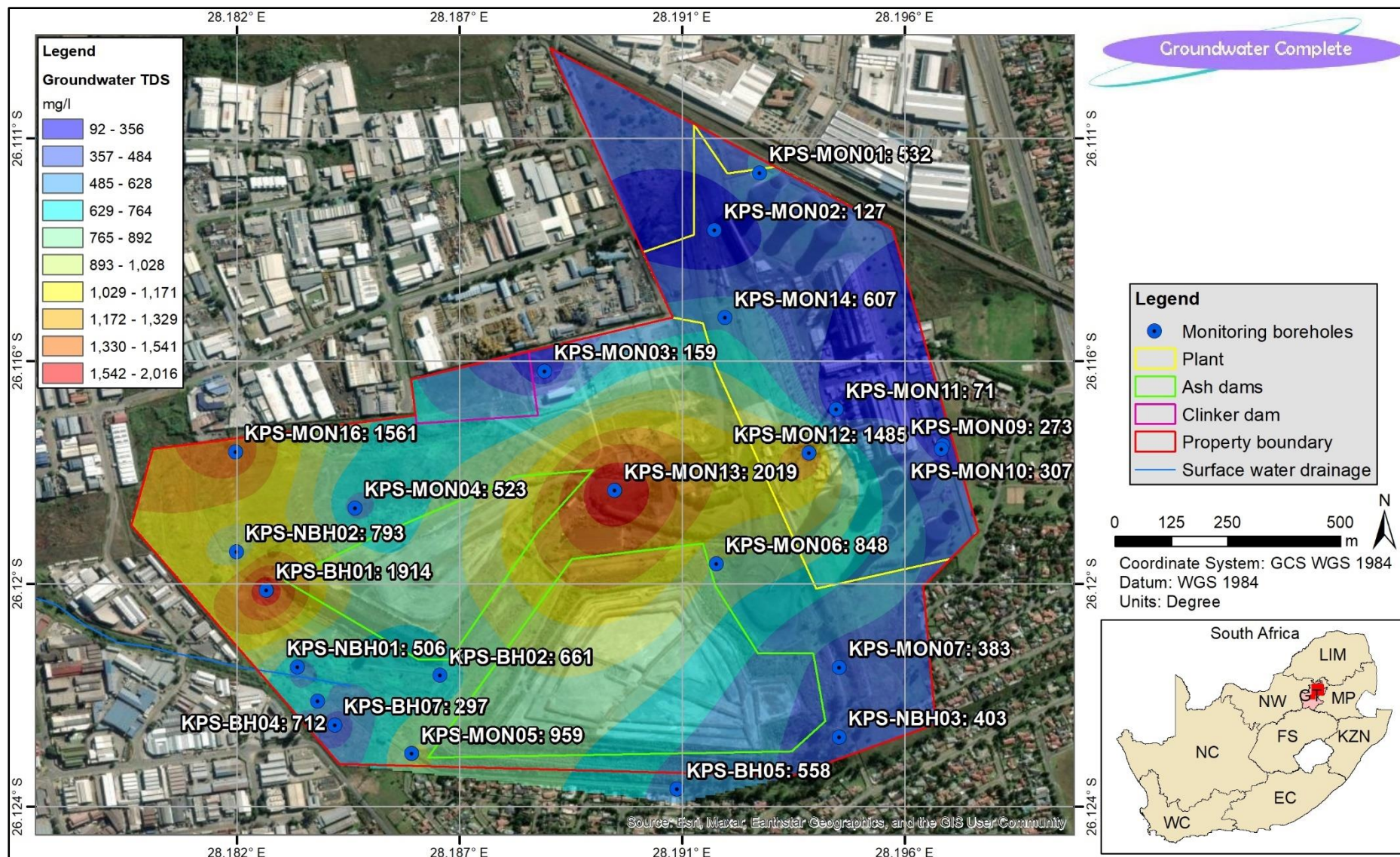


Figure 2-7: Contour map of the groundwater TDS concentrations for June 2025

3 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are derived from the evaluation of groundwater quality and water level information collected in June 2025.

Conclusions:

Groundwater Levels:

- Groundwater level depths varied between 1.1 and 8.9 meters below surface (mbs), while the elevations were estimated to have varied between 1 619 and 1 666 meters above mean sea level (mamsl).
- The shallow water level depths measured directly downgradient from the two ash dams are most probably a result of artificial aquifer recharge in the form of seepage from the dams. The deepest water level was measured in KPS-MON01, which is situated north of the Plant.
- Significant water level variations are observed in some boreholes (e.g. KPS-MON01, KPS-MON02, KPS-MON03 and KPS-MON14) when considering the entire data record, which seem to be mostly seasonally driven. Water levels rise during the wet summer rainfall months and drop again during the dry winter months.
- Furthermore, boreholes KPS-MON01, KPS-MON02 and KPS-MON03 display long-term decreasing water level trends when considering the entire data record – the exact cause/s of which is unclear at this time.
- Groundwater flow from the ash dams is towards the west/south-west in the direction of a tributary of the Jukskei River. Flow from the plant area is predominantly towards the west, but may also occur towards the north-east as it is located on a local groundwater divide.

Groundwater Qualities:

- Groundwater qualities, in terms of the inorganic content, varied from mostly good to poor if compared with the South African National Standards for drinking water (SANS 241:2015).
- Monitoring information shows signs of adverse groundwater quality impacts, especially downgradient from Ash Dam A and the coal stockpile (KPS-BH04, MON05 and MON06), Ash Dam B (KPS-BH01, BH02, NBH01, NBH02), the brick yard footprint (KPS-MON13) the Plant (KPS-MON01, MON12 and MON14) and clinker dump (KPS-MON04 and MON16).
- Sulphate, nitrate and sodium were identified as the dominant contaminants associated with the abovementioned source areas.
- Bacteriological contamination was encountered in five monitoring boreholes, which renders groundwater from these boreholes unsafe for human consumption. The source of this contamination is unknown and causes should be investigated.
- The bacteriological contamination varies significantly from quarter to quarter, this almost certainly indicates that contamination is of a sporadic nature.
- Groundwater is mainly dominated by magnesium cations. Sulphate is generally the dominant anion in the downgradient groundwater flow direction, which indicates adverse

groundwater quality impacts. On the other hand, bicarbonate alkalinity dominates where the inorganic content of the groundwater is generally representative of ambient/unaffected conditions.

- The graph comparing the up- and downgradient groundwater qualities clearly shows the significance of the groundwater quality impacts. The average downgradient groundwater sulphate content was nearly ten times higher than the upgradient concentration. Furthermore, sodium was also markedly higher in the downgradient groundwater flow direction.
- Studies have shown ash dams to be potential sources of hexavalent chromium, which poses a major health threat to groundwater users as it is a confirmed carcinogen – if present at high enough concentrations. No traces thereof were found in the monitoring boreholes situated in the vicinity of the two ash dams.
- Groundwater samples were additionally analysed for a wide range of semi-volatile organic compounds (SVOCs) and polychlorinated biphenols (PCBs). None of the samples contained any discernible concentrations of PCBs, while the following SVOCs were found to be present:

BH	Semi-volatile organic compounds
KPS-MON11	Phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b+k)fluoranthene, benzo(a)pyrene, benzo(g,h,i)perylene, indeno(123-cd)pyrene

Recommendations:

- Additional plume monitoring boreholes (i.e. KPS-NBH01 and NBH02) were drilled in March 2025, and the next step would now be to determine if any groundwater users are located downgradient from the power station that may potentially be affected (hydrocensus/user survey).
- Numerical mass transport modelling is also recommended to predict/simulate plume migration in the years to come.
- Groundwater monitoring should continue on a quarterly basis, while the current range of physical and chemical analytes is considered to be sufficient.

APPENDIX A

Sampling Register



SAMPLING REGISTER : MONTHLY

PROJECT NAME:				Kelvin Powers Groundwater Monitoring				
MONTH:				June 2025				
SAMPLER NAME:				Jabu Masango				
Kelvin Powers Groundwater Monitoring								
Locality	Description	Coordinates		Sample Time	mpled Sta	Flow/Level/Dust Days	Remarks	Lab no
		Latitude	Longitude					
Monitoring Localities								
KPS BH01	Borehole on Western Perimeter - Toe of Ash Dam B	S26.12014	E28.18280	2025-06-25 11:25	Yes	3.1 m	CLEAR NO LID.	275435
KPS BH02	Borehole on Southern Toe of Ash Dam B	S26.12181	E28.18617	2025-06-25 11:02	Yes	1.28 m	CLEAR	275436
KPS BH04	Borehole on Western Perimeter	S26.12238	E28.18394	2025-06-25 10:31	Yes	1.05 m	CLEAR	275437
KPS BH05	Borehole on SOuthern Perimeter - South of Ash Dam A	S26.12411	E28.19104	2025-06-25 09:57	Yes	2.94 m	CLEAR	275438
KPS BH07	Borehole on South Western Perimeter	S26.12281	E28.18430	2025-06-25 10:25	Yes	3.3 m	CLEAR	275439
KPS MON01	Borehole on Northern Perimeter next to Coal Stockpile	S26.11185	E28.19266	2025-06-25 13:00	Yes	8.88 m	CLEAR NO LID.	275440
KPS MON02	Borehole on Northern Perimeter South of Coal Stockpile	S26.11292	E28.19175	2025-06-25 12:52	Yes	6.19 m	CLEAR	275441
KPS MON03	Borehole North of Ash Dump - North Western Perimeter	S26.11577	E28.18846	2025-06-25 12:12	Yes	5.68 m	CLEAR	275442
KPS MON04	Borehole on Western Perimeter between the Ash Dump and Ash Dam B	S26.11848	E28.18464	2025-06-25 11:44	Yes	2.86 m	SLIGHTLY TURBID	275443
KPS MON05	Borehole on Southern Perimeter on southern toe of Ash Dam A	S26.12337	E28.18575	2025-06-25 10:49	Yes	2.32 m	SLIGHTLY TURBID	275444
KPS MON06	Between Ash Dam A and Southern Coal Stockpile	S26.11965	E28.19181	2025-06-25 13:38	Yes	2.09 m	CLEAR	275445
KPS MON07	Borehole South East of Southern Coal Stockpile	S26.12164	E28.19421	2025-06-25 09:46	Yes	2.32 m	TURBID	275446
KPS-MON09	Background deep	S26.11728	E28.19632	2025-06-25 13:58	Yes	5.12 m	CLEAR	275447
KPS-MON10	Background shallow	S26.11730	E28.19625	2025-06-25 09:37	Yes	4.59 m	CLEAR	275448
KPS-MON11	Fuel storage	S26.11532	E28.19414	2025-06-25 13:12	Yes	4.82 m	SLIGHTLY TURBID	275449
KPS-MON12	HFO storage	S26.11737	E28.19359	2025-06-25 09:30	Yes	6.59 m	CLEAR	275450
KPS-MON13	Brick Yard	S26.11820	E28.18979	2025-06-25 12:27	Yes	4.78 m	CLEAR	275451
KPS-MON14	Switch yard	S26.11476	E28.19195	2025-06-25 12:40	Yes	5.66 m	CLEAR	275452
KPS-MON16	Clinker dump (replace KPS-MON03)	S26.11737	E28.18218	2025-06-25 11:56	Yes	3.79 m	CLEAR	275453
KPS-NBH01	Newly drilled monitoring borehole - Mar 2025	S26.12167	E28.18338	2025-06-25 11:15	Yes	1.81 m	SLIGHTLY TURBID	275454
KPS-NBH02	Newly drilled monitoring borehole - Mar 2025	S26.11937	E28.18215	2025-06-25 11:34	Yes	1.9 m	SLIGHTLY TURBID	275455
KPS-NBH03	Newly drilled monitoring borehole - Mar 2025	S26.12415	E28.19326	2025-06-25 10:07	Yes	3.55 m	SLIGHTLY TURBID	275456

APPENDIX B

Site Reports



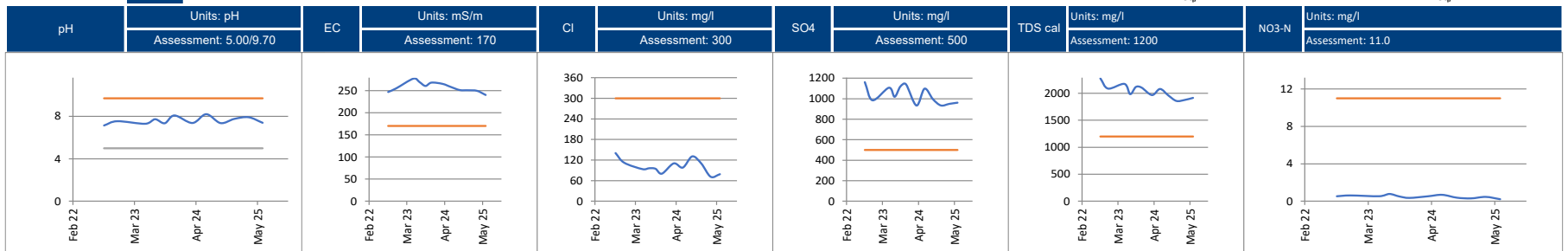
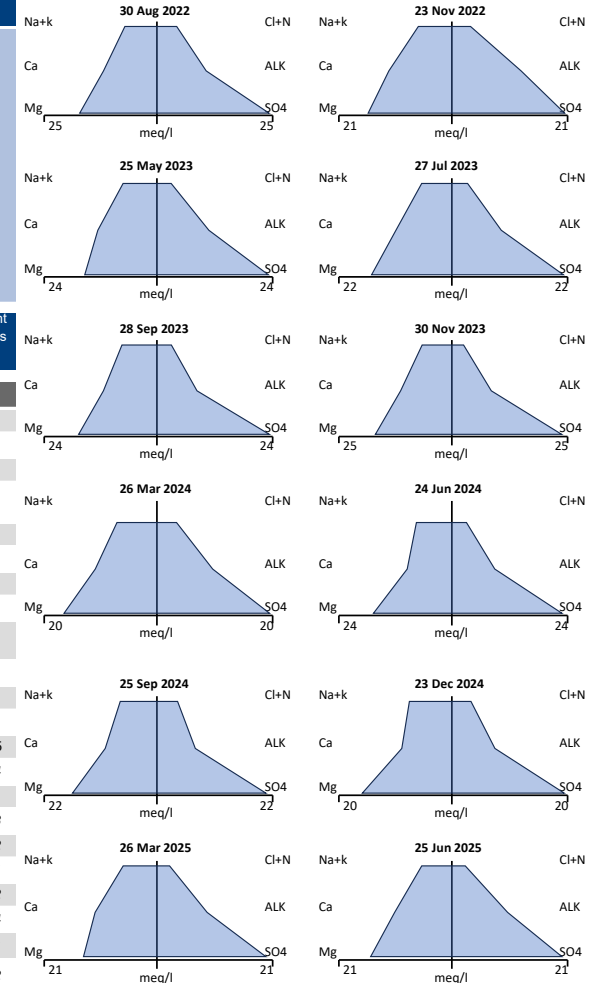


SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS BH01
LOCALITY DESCRIPTION	Borehole on Western Perimeter - Toe of Ash Dam B
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS BH01



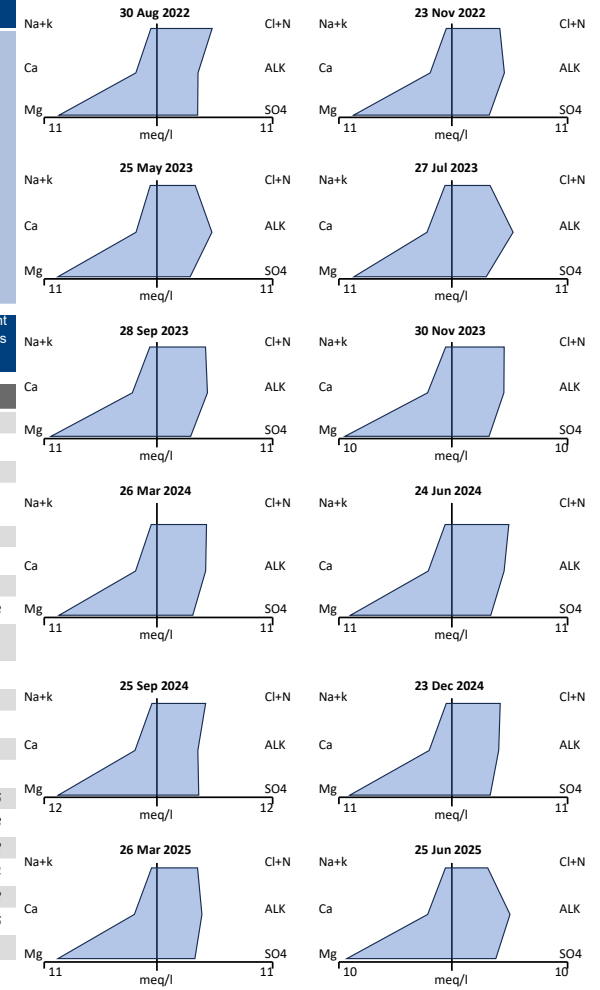
Graphs only illustrate trends

SITE REPORT

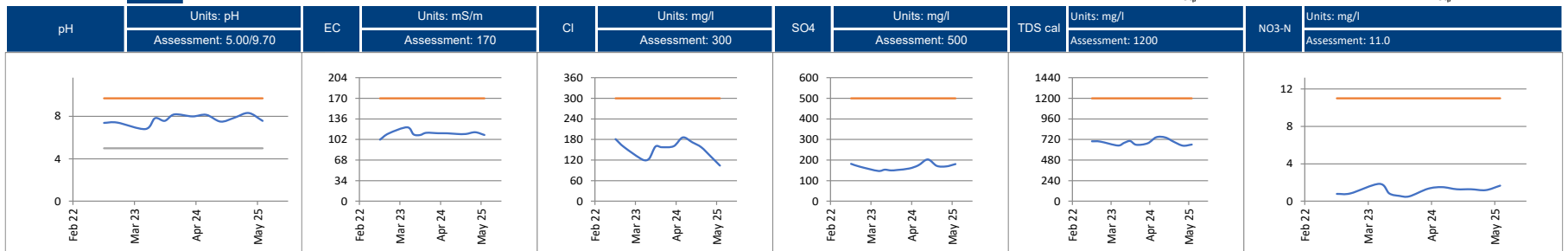
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS BH02
LOCALITY DESCRIPTION	Borehole on Southern Toe of Ash Dam B
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS BH02



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg	
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
pH	pH	5/9.7	7.38	7.41	6.8	7.82	7.57	8.18	7.99	8.14	7.5	7.86	8.31	7.57	7.91	7.88	7.71
EC	mS/m	170	102	112	122	110	109	113	112	112	111	111	114	109	111	112	111
TDS	cal mg/l	1200	699	695	650	680	702	658	675	745	743	692	648	661	667	721	687
Total Hardness	mg CaCO ₃ /l	None	586	591	592	605	644	585	588	616	649	615	599	577	597	618	604
	Ca mg/l	None	43.5	44.3	43.3	50.5	50.5	44.7	44.1	48.2	49.5	46.4	46.3	44.5	45.7	47.3	46.3
	Mg mg/l	None	116	117	118	116	126	115	116	120	128	121	117	113	117	121	119
	Na mg/l	200	16.1	14.8	17.1	17.2	18.8	14.4	15.9	17.3	15.3	15.2	14.7	15.2	15	16.2	16
	K mg/l	None	0.74	0.486	1.96	1.64	0.309	0.563	<0.015	0.975	0.753	0.413	0.467	<0.015	0.296	0.579	0.693
Total alkalinity	mg CaCO ₃ /l	None	191	248	258	289	236	223	227	246	207	220	210	250	227	227	234
	Cl mg/l	300	181	158	121	124	159	158	160	186	172	157	131	104	131	173	151
	SO ₄ mg/l	500	181	168	147	153	149	152	159	174	203	171	169	180	173	179	167
	NO ₃ -N mg/l	11	0.79	0.838	1.85	0.83	0.579	0.53	1.33	1.5	1.28	1.28	1.19	1.66	1.38	1.37	1.14
	NH ₄ -N mg/l	1.5	0.236	0.129	0.568	0.067	0.115	0.039	0.047	0.008	0.046	<0.008	0.021	0.036	0.02	0.034	0.11
	PO ₄ -P mg/l	None	0.116	0.052	0.189	<0.005	0.104	0.013	0.133	<0.009	0.21	<0.009	0.014	<0.009	0.008	0.116	0.071
	F mg/l	1.5	<0.263	<0.263	<0.263	<0.263	0.377	<0.263	0.431	0.396	0.275	1.21	0.422	<0.263	0.588	0.367	0.325
	Al mg/l	0.3	<0.002	<0.002	0.022	0.053	<0.002	<0.002	0.005	<0.002	0.006	<0.002	<0.002	<0.002	0.001	0.004	0.008
	Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
	Mn mg/l	0.1	<0.001	0.041	0.099	<0.001	0.05	0.09	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.024
	Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
	Cu mg/l	2	0.028	0.011	<0.002	<0.002	0.035	0.022	0.012	0.006	0.056	<0.002	<0.002	<0.002	0.001	0.025	0.015
	Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
	Ag mg/l	None	<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	0.001



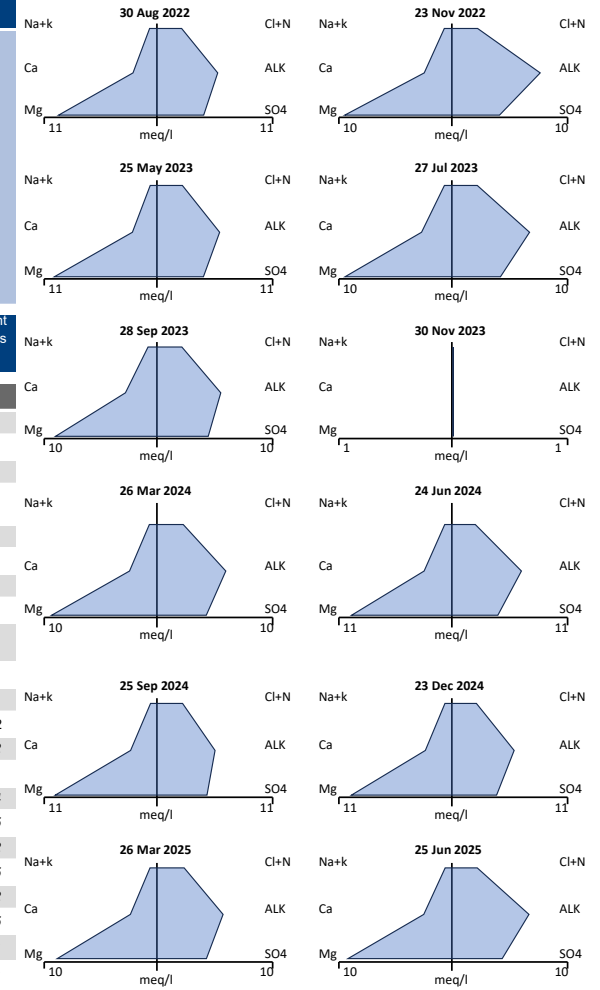
Graphs only illustrate trends

SITE REPORT

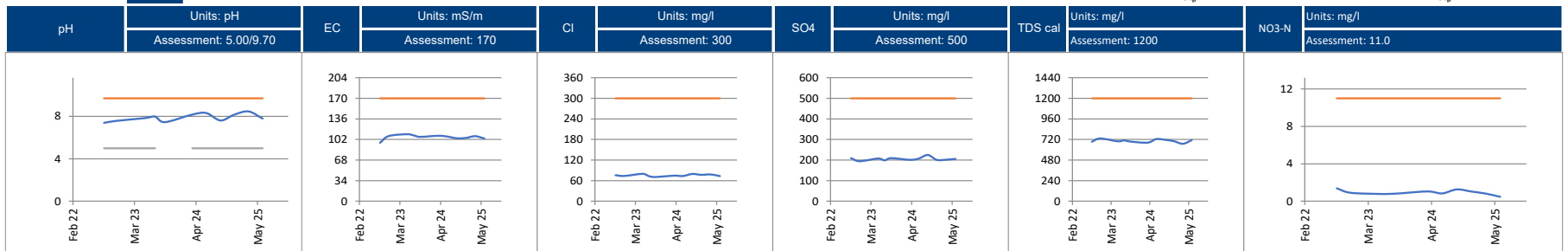
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS BH04
LOCALITY DESCRIPTION	Borehole on Western Perimeter
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS BH04



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg	
Status		Yes	Yes	Yes	Yes	Yes	No access	Yes	Yes	Yes	Yes	Yes	Yes				
pH	pH	5/9.7	7.39	7.58	7.84	7.98	7.45	-	8.17	8.31	7.61	8.16	8.46	7.79	8.14	8.03	7.89
EC	mS/m	170	96.5	108	111	109	106	-	108	107	104	104	107	104	105	106	106
TDS	cal mg/l	1200	694	731	698	709	696	-	683	724	715	700	670	712	694	707	703
Total Hardness	mg CaCO ₃ /l	None	603	601	627	611	595	-	595	629	631	624	566	590	593	618	607
	Ca mg/l	None	49	50.7	50.3	55.3	57.8	-	50.7	56.1	53.7	53.7	49.2	51.8	51.6	53.5	52.6
	Mg mg/l	None	117	115	122	115	109	-	114	119	121	119	108	112	113	118	116
	Na mg/l	200	19	17.2	17.7	16.7	20.7	-	18.2	17.9	16.9	17.6	16.2	16.1	16.6	17.7	17.7
	K mg/l	None	0.7	0.802	1.05	1.37	0.254	-	<0.015	1.28	0.973	0.92	1.24	0.309	0.823	0.754	0.81
Total alkalinity	mg CaCO ₃ /l	None	286	381	294	335	273	-	296	329	273	294	284	332	303	299	307
	Cl mg/l	300	75.8	73.7	79.5	72.9	70.8	-	74.6	73.5	79.2	76.8	77.9	73.3	76	75.8	75.3
	SO ₄ mg/l	500	209	195	208	199	210	-	202	207	225	201	202	206	203	211	206
	NO ₃ -N mg/l	11	1.36	0.895	0.768	0.774	0.825	-	1.04	0.825	1.25	1.03	0.806	0.461	0.766	1.04	0.912
	NH ₄ -N mg/l	1.5	0.037	<0.008	0.886	0.29	0.038	-	0.045	0.101	0.106	<0.008	0.332	0.053	0.13	0.084	0.172
	PO ₄ -P mg/l	None	<0.005	0.044	0.112	<0.005	0.024	-	<0.009	<0.009	<0.009	<0.009	0.121	<0.009	0.043	0.005	0.03
	F mg/l	1.5	<0.263	<0.263	<0.263	<0.263	0.811	-	0.581	0.531	<0.263	1.93	<0.263	<0.263	0.731	0.415	0.434
	Al mg/l	0.3	<0.002	<0.002	0.002	0.045	<0.002	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.005
	Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	-	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
	Mn mg/l	0.1	<0.001	<0.001	0.336	0.981	0.003	-	<0.001	0.376	<0.001	<0.001	<0.001	<0.001	0.001	0.126	0.155
	Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	-	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
	Cu mg/l	2	0.028	0.012	<0.002	<0.002	0.035	-	0.012	0.006	0.023	<0.002	<0.002	0.045	0.016	0.014	0.015
	Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	<0.002	<0.002	0.006	0.003	0.001	0.001
	Ag mg/l	None	<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



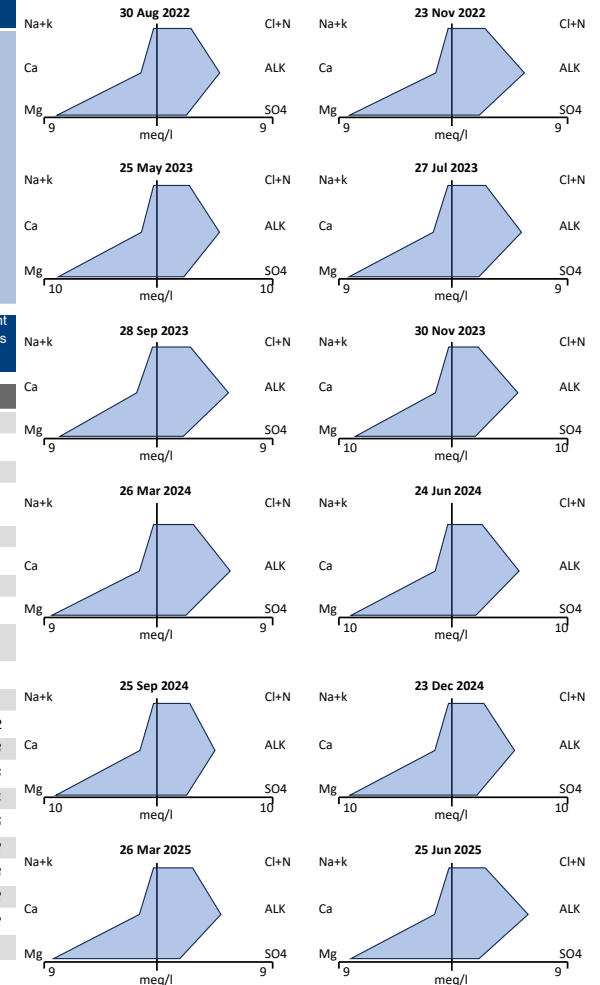
Graphs only illustrate trends

SITE REPORT

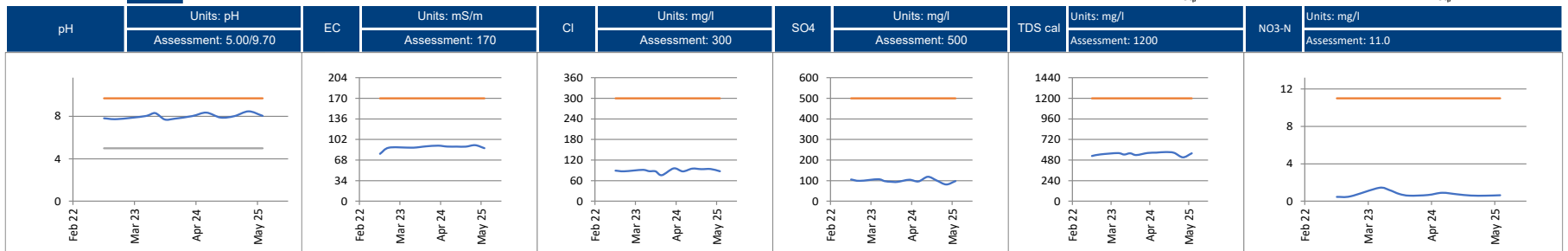
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS BH05
LOCALITY DESCRIPTION	Borehole on Southern Perimeter - South of Ash Dam A
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS BH05



Variable	Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
pH	5/9.7	7.81	7.73	8.02	8.3	7.7	8.02	8.34	7.88	8.01	8.46	8.04	8.17	8.08	8.01
EC mS/m	170	78.5	88.5	88.6	89.6	90.8	91.9	90.4	90.3	90.3	92.7	87.8	90.3	90.9	89
TDS cal mg/l	1200	527	545	560	543	558	538	561	565	572	564	511	558	544	550
Total Hardness mg CaCO ₃ /l	None	468	478	512	489	473	507	495	525	529	532	487	477	499	498
Ca mg/l	None	27.8	27.7	29.7	31.5	34.2	31.2	30.2	31.5	32.3	32.2	29.9	29.5	30.5	31.3
Mg mg/l	None	96.9	99.2	106	99.7	94.2	104	102	108	109	110	100	97.9	103	106
Na mg/l	200	7.21	7.74	7.94	7.65	9.09	7.26	7.9	9.07	7.95	7.61	6.96	6.42	7	8.31
K mg/l	None	2.78	2.46	2.99	3.1	2.34	2.73	1.35	3.09	2.92	3.04	3.03	2.2	2.76	2.45
Total alkalinity mg CaCO ₃ /l	None	241	281	267	269	277	284	283	289	248	270	247	295	271	273
Cl mg/l	300	89.5	87.5	91.8	87.8	87.4	76.2	96.1	87.3	95.3	93.8	94.2	87.6	91.9	92.9
SO ₄ mg/l	500	106	98.9	107	97.4	94.3	93.7	104	95.9	119	100	81.2	97.7	93	106
NO ₃ -N mg/l	11	0.453	0.509	1.43	1.19	0.765	0.584	0.654	0.893	0.735	0.596	0.583	0.629	0.603	0.761
NH ₄ -N mg/l	1.5	0.031	<0.008	0.225	0.092	0.036	0.024	0.021	<0.008	0.053	0.021	0.029	0.033	0.028	0.026
PO ₄ -P mg/l	None	<0.005	0.039	0.063	<0.005	0.006	<0.005	<0.009	<0.009	0.274	<0.009	0.028	<0.009	0.012	0.094
F mg/l	1.5	<0.263	<0.263	<0.263	0.465	0.719	<0.263	0.38	0.343	0.371	0.353	0.354	<0.263	0.28	0.365
Al mg/l	0.3	<0.002	<0.002	0.016	0.012	<0.002	<0.002	<0.002	<0.002	0.018	<0.002	<0.002	<0.002	0.001	0.007
Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002
Mn mg/l	0.1	<0.001	<0.001	0.007	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	<0.001	0.205	<0.001	0.069	0.002
Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002
Cu mg/l	2	0.026	0.011	<0.002	<0.002	0.034	0.023	0.011	0.005	0.03	<0.002	<0.002	<0.002	0.001	0.015
Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001
Ag mg/l	None	<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



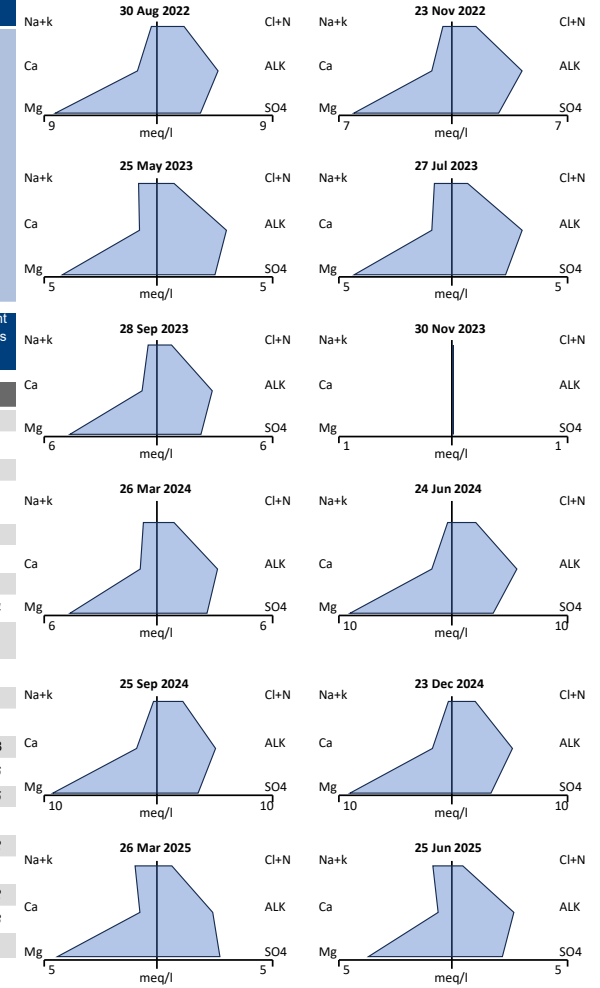
Graphs only illustrate trends

SITE REPORT

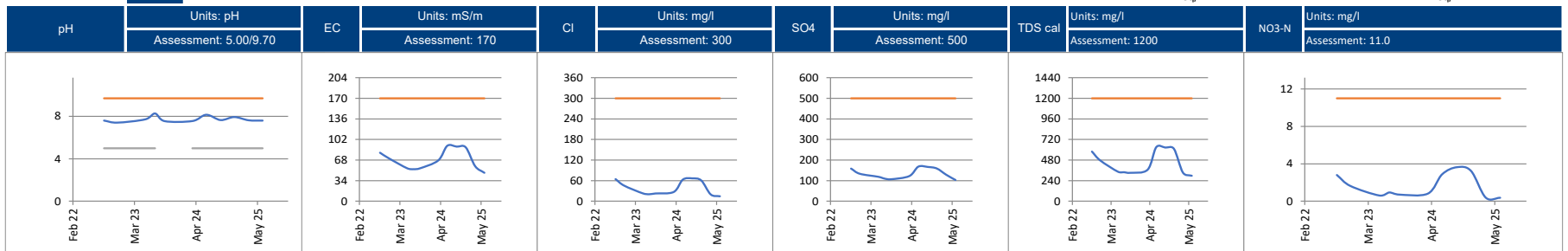
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS BH07
LOCALITY DESCRIPTION	Borehole on South Western Perimeter
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS BH07



Variable	Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes	Yes	Yes	Yes	No access	Yes	Yes	Yes	Yes	Yes	Yes			
pH	5/9.7	7.6	7.41	7.72	8.26	7.55	-	7.56	8.14	7.65	7.93	7.6	7.72	7.78	7.73
EC mS/m	170	80	71	54.4	52.9	54.3	-	67.2	91.4	90	88.9	57.8	47	64.6	68.6
TDS cal mg/l	1200	579	476	344	338	331	-	367	631	625	611	334	297	414	448
Total Hardness mg CaCO ₃ /l	None	489	370	252	264	276	-	281	546	558	544	262	218	341	369
Ca mg/l	None	33.1	26.3	16.6	18.7	17.3	-	19.2	37.5	38.1	36.4	16.3	13.1	21.9	24.8
Mg mg/l	None	98.6	74	51.1	52.7	56.6	-	56.5	110	112	110	53.7	44.9	69.5	74.6
Na mg/l	200	12.4	14.3	19.7	18.5	12.5	-	18.3	10.8	9.48	9.34	23.4	20.3	17.7	15.4
K mg/l	None	0.468	0.342	0.315	0.707	<0.015	-	<0.015	0.529	0.428	0.433	0.322	<0.015	0.254	0.324
Total alkalinity mg CaCO ₃ /l	None	235	211	149	151	141	-	155	280	251	260	119	133	171	190
Cl mg/l	300	64.5	45.4	22.9	20.2	22.5	-	26.9	63	66.7	60.6	19.7	14.2	31.5	38.8
SO ₄ mg/l	500	159	134	119	110	107	-	123	169	167	159	129	104	131	135
NO ₃ -N mg/l	11	2.79	1.63	0.604	0.929	0.701	-	0.806	2.87	3.63	3.24	0.379	0.361	1.33	1.63
NH ₄ -N mg/l	1.5	0.042	0.011	0.056	0.076	0.034	-	0.015	0.022	0.069	0.011	0.017	0.06	0.029	0.038
PO ₄ -P mg/l	None	0.108	0.038	0.053	<0.005	0.015	-	<0.009	<0.009	<0.009	<0.009	<0.009	0.048	0.019	0.026
F mg/l	1.5	<0.263	<0.263	<0.263	<0.263	0.712	-	0.509	<0.263	0.342	0.326	0.458	<0.263	0.305	0.285
Al mg/l	0.3	<0.002	<0.002	0.003	<0.002	<0.002	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001
Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	-	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002
Mn mg/l	0.1	<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
Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	-	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002
Cu mg/l	2	0.026	0.009	<0.002	<0.002	<0.002	-	0.008	0.005	0.023	<0.002	<0.002	0.015	0.006	0.008
Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001
Ag mg/l	None	<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

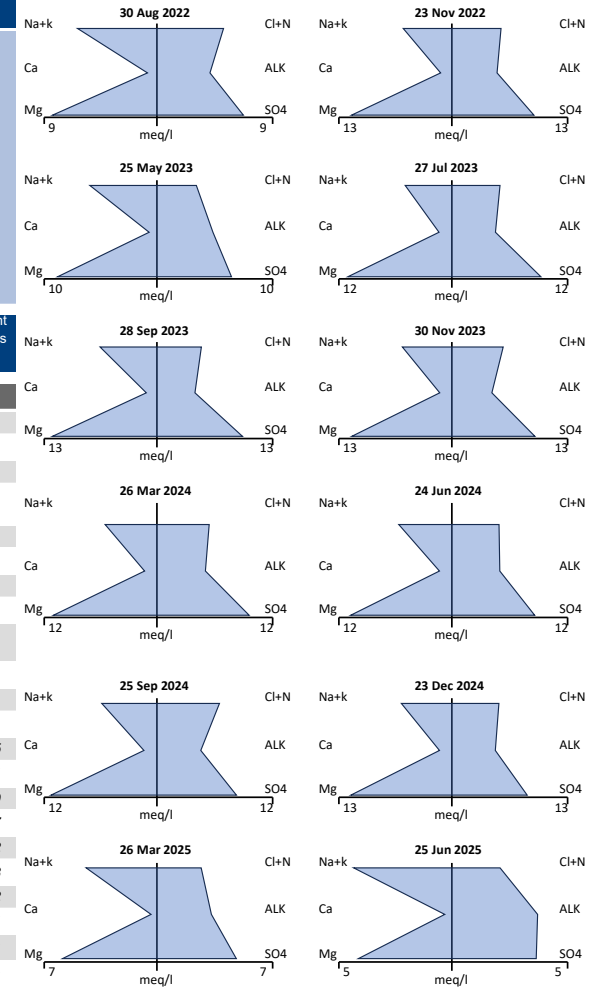


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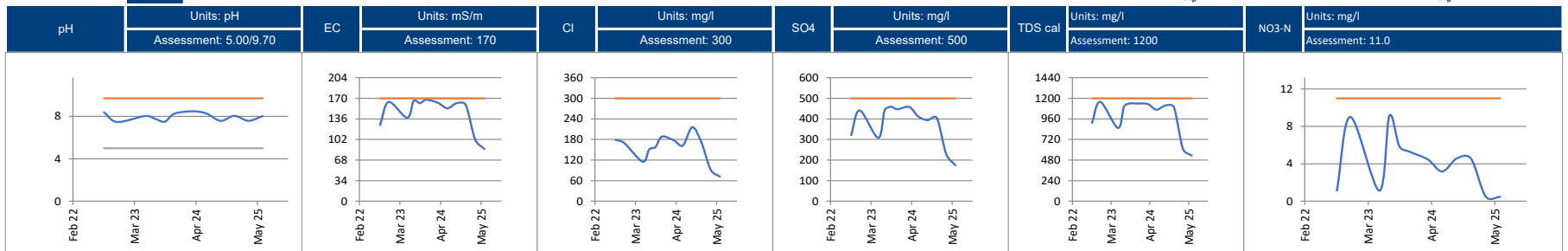
SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON01
LOCALITY DESCRIPTION	Borehole on Northern Perimeter next to Coal Stockpile
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality KPS MON01



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
pH pH	5/9.7	8.38	7.47	8.04	7.78	7.5	8.26	8.48	8.28	7.58	8.05	7.59	8.03	7.89	8.11	7.95
EC mS/m	170	126	164	138	166	162	168	162	153	162	159	102	86.1	116	159	146
TDS cal mg/l	1200	913	1159	854	1103	1140	1139	1134	1067	1116	1096	609	532	746	1106	989
Total Hardness mg CaCO ₃ /l																
	None	460	650	482	629	673	653	623	612	642	662	317	226	402	626	552
Ca mg/l	None	17.3	28.7	16.2	30.1	27.8	30.6	29	29.1	30.6	31.3	9.09	7.39	15.9	29.6	23.9
Mg mg/l	None	101	140	107	135	147	140	134	131	137	142	71.4	50.4	87.9	134	120
Na mg/l	200	143	128	135	114	150	130	126	128	134	132	97.2	95.9	108	129	126
K mg/l	None	5.75	4.26	5.1	4.25	4.47	5.57	4.17	6.48	5.84	5.49	7.97	7.28	6.91	5.5	5.55
Total alkalinity mg CaCO ₃ /l																
	None	203	250	240	221	208	220	247	245	223	240	163	185	196	238	220
Cl mg/l	300	179	170	115	151	158	188	178	163	216	173	91.8	71.6	112	186	155
SO ₄ mg/l	500	321	441	308	442	459	447	458	411	394	405	229	175	270	421	374
NO ₃ -N mg/l	11	1.13	9	1.11	9.11	5.86	5.29	4.45	3.17	4.57	4.54	0.485	0.458	1.83	4.06	4.1
NH ₄ -N mg/l	1.5	0.087	0.041	0.145	0.079	0.042	0.022	0.021	0.048	0.133	<0.008	0.104	0.059	0.056	0.067	0.065
PO ₄ -P mg/l	None	<0.005	0.035	0.045	<0.005	0.018	<0.005	<0.009	<0.009	0.239	<0.009	<0.009	<0.009	0.005	0.083	0.031
F mg/l	1.5	<0.263	<0.263	<0.263	<0.263	1.03	<0.263	<0.263	<0.263	<0.263	1.36	<0.263	<0.263	0.541	0.132	0.309
Al mg/l	0.3	<0.002	<0.002	<0.002	0.013	0.036	<0.002	<0.002	<0.002	0.024	<0.002	<0.002	<0.002	0.001	0.009	0.007
Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Mn mg/l	0.1	0.113	0.089	0.362	0.079	<0.001	0.072	0.354	0.521	0.177	0.26	0.717	0.288	0.422	0.351	0.253
Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
Cu mg/l	2	0.026	0.013	<0.002	<0.002	<0.002	0.024	0.013	0.006	0.024	<0.002	<0.002	0.017	0.006	0.014	0.011
Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
Ag mg/l	None	<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	0.001



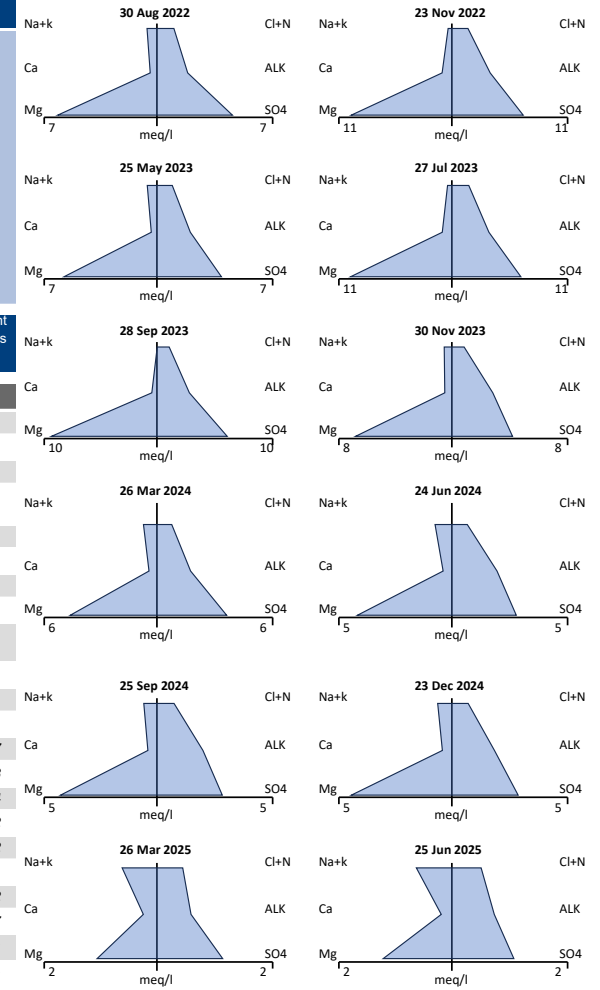
Graphs only illustrate trends

SITE REPORT

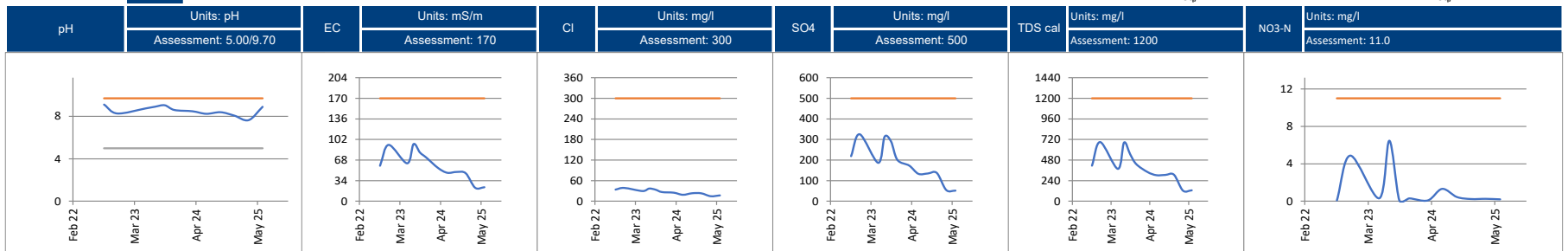
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON02
LOCALITY DESCRIPTION	Borehole on Northern Perimeter South of Coal Stockpile
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS MON02



Variable	Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
pH	5/9.7	9.1	8.26	8.73	8.9	8.59	8.47	8.23	8.38	8.06	7.63	8.89	8.19	8.36	8.52
EC mS/m	170	58.6	93	62.6	94.3	80.4	72	54.8	47	48.4	46.2	22.3	30.6	50.1	58.6
TDS cal mg/l	1200	414	689	376	683	547	432	339	303	306	308	123	186	316	387
Total Hardness mg CaCO ₃ /l	None	334	544	312	548	498	372	257	231	237	246	67	128	242	310
Ca mg/l	None	9.93	21.1	8.74	21.2	11.4	11.7	9.88	8.75	9.24	9.38	5.27	4.16	6.27	10.9
Mg mg/l	None	75	119	70.4	120	114	83.2	56.3	50.8	52	54.1	13	14.9	27.3	68.6
Na mg/l	200	14.6	9.29	14.5	10.8	1.09	13.1	17.8	17	13.6	14.4	13.7	14.2	14.1	12.8
K mg/l	None	2.29	2.88	2.02	3.09	1.97	2.12	0.348	2.05	1.85	1.89	1.43	0.97	1.43	1.91
Total alkalinity mg CaCO ₃ /l	None	90.2	179	98.2	172	136	139	84.9	96.1	97.6	90.9	28.6	36.1	51.9	104
Cl mg/l	300	33.7	38.5	29.4	36.6	33.5	26.5	24.7	18.6	23.1	22.9	14.4	16.8	18	22.1
SO ₄ mg/l	500	218	325	186	313	290	200	173	133	134	137	54.1	51.1	80.7	185
NO ₃ -N mg/l	11	<0.194	4.88	0.327	6.47	<0.194	0.312	<0.194	1.33	0.459	0.245	0.266	0.211	0.241	0.629
NH ₄ -N mg/l	1.5	0.727	0.117	0.503	0.144	1.48	1.27	0.318	0.546	0.57	0.379	1.92	0.868	1.06	0.478
PO ₄ -P mg/l	None	<0.005	0.053	0.04	<0.005	0.014	<0.005	<0.009	<0.009	0.236	<0.009	<0.009	0.033	0.014	0.082
F mg/l	1.5	<0.263	<0.263	<0.263	<0.263	0.531	<0.263	0.362	<0.263	<0.263	<0.493	<0.263	0.252	0.208	0.214
Al mg/l	0.3	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	0.006	<0.002	<0.002	<0.002	0.001	0.003
Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Mn mg/l	0.1	0.038	0.074	0.055	<0.001	<0.001	0.06	0.096	0.04	0.067	0.101	0.167	0.016	0.095	0.06
Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002
Cu mg/l	2	0.024	0.012	<0.002	<0.002	<0.002	0.021	0.008	<0.002	0.017	<0.002	<0.002	<0.002	0.001	0.009
Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	0.001	0.001
Ag mg/l	None	<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

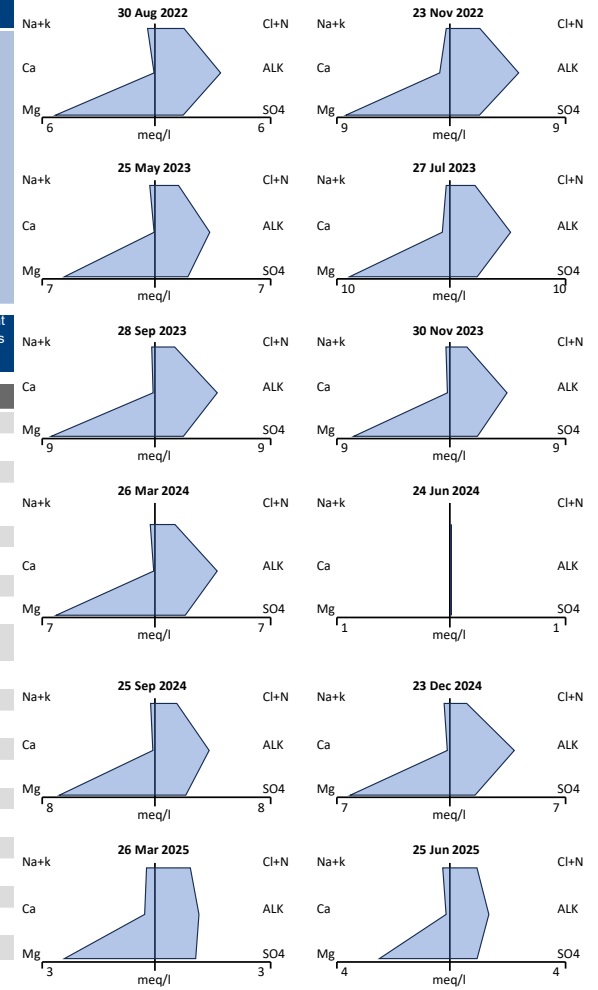


Graphs only illustrate trends

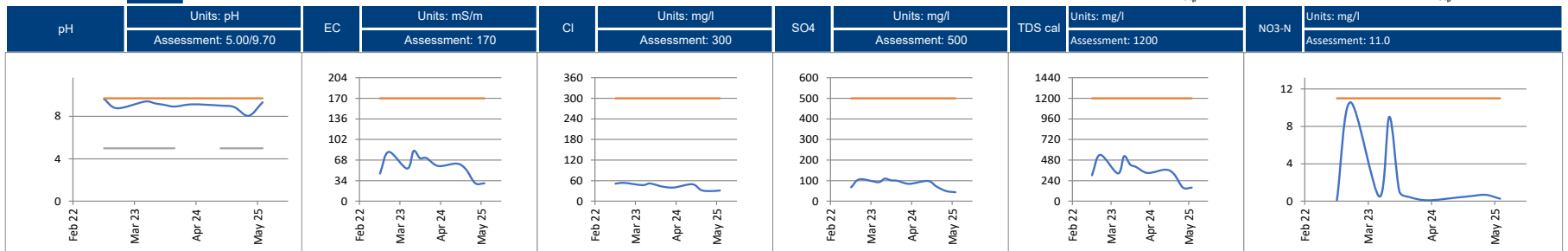
SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON03
LOCALITY DESCRIPTION	Borehole North of Ash Dump - North Western Perimeter
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality KPS MON03



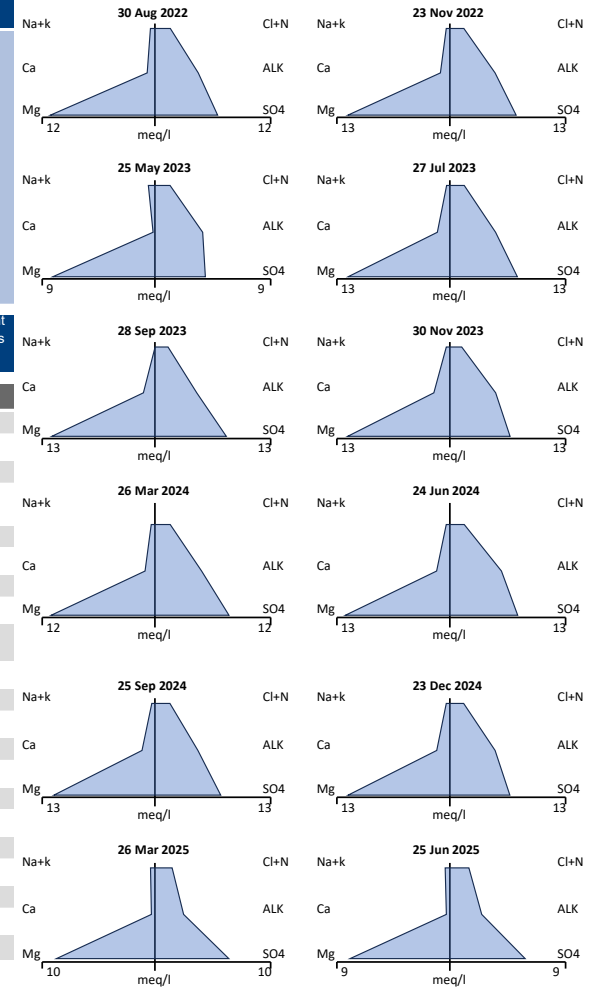
Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg	
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Denied access	Yes	Yes	Yes	Yes				
pH	pH 5/9.7	9.63	8.76	9.4	9.22	9.07	8.92	9.13	-	9.01	8.87	8.05	9.32	8.75	9.07	9.03	
EC	mS/m 170	45.7	81.3	53.8	82.8	71	71.2	58.1	-	62	52.9	29.8	29.6	37.4	60.1	58	
TDS	cal mg/l 1200	303	542	325	526	429	399	329	-	369	318	160	159	212	349	351	
Total Hardness	mg CaCO ₃ /l	271	461	289	483	428	400	316	-	352	321	136	134	197	334	326	
	None	2.43	18.3	2.84	15.4	5.32	5.95	3.4	-	5.08	4.7	6.22	3.51	4.81	4.24	6.65	
Ca	mg/l	64.4	101	68.5	108	101	93.4	74.6	-	82.4	75	29.4	30.5	45	78.5	75.3	
Mg	mg/l	200	9.11	7.79	8.06	8.26	7.47	8.3	-	8.07	7.98	5	5.95	6.31	8.18	7.66	
Na	mg/l	None	2.68	2.18	2.31	2.55	1.92	2.1	0.795	-	2.25	3.27	1.68	1.34	2.1	1.52	2.1
Total alkalinity	mg CaCO ₃ /l	169	266	163	261	239	221	186	-	184	194	55.8	66.1	105	185	182	
	None	51.2	53.3	46.8	51.6	48.1	43	39.9	-	49.4	32.4	29.7	31.4	31.2	44.7	43.3	
Cl	mg/l	300	67.6	107	92.5	110	102	99.5	84.7	-	98.6	70.4	49.4	43.7	54.5	91.7	84.1
SO ₄	mg/l	500	<0.194	10.6	0.492	9.04	1.06	0.451	<0.194	-	0.394	0.546	0.684	0.267	0.499	0.246	2.16
NO ₃ -N	mg/l	11	0.051	0.123	0.202	0.268	0.026	0.023	<0.008	-	0.483	<0.008	0.512	0.039	0.185	0.244	0.158
NH ₄ -N	mg/l	1.5	<0.005	0.039	0.034	<0.005	<0.005	<0.005	<0.009	-	0.26	<0.009	<0.009	<0.009	0.005	0.132	0.033
PO ₄ -P	mg/l	None	<0.263	<0.263	<0.263	<0.263	0.52	0.323	0.508	-	0.426	0.755	0.323	<0.263	0.403	0.467	0.319
F	mg/l	1.5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	0.005	<0.002	<0.002	<0.002	0.001	0.003	0.001
Al	mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	-	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Fe	mg/l	0.3	<0.001	<0.001	0.017	<0.001	<0.001	<0.001	0.007	-	0.005	<0.001	0.085	0.005	0.03	0.006	0.011
Mn	mg/l	0.1	<0.003	0.013	<0.003	0.021	<0.003	<0.003	<0.003	-	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.004
Cr	mg/l	0.05	0.022	0.01	<0.002	<0.002	<0.002	0.022	0.01	-	0.021	<0.002	<0.002	0.004	0.002	0.016	0.009
Cu	mg/l	2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
Cd	mg/l	0.003	<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
Ag	mg/l	None	<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



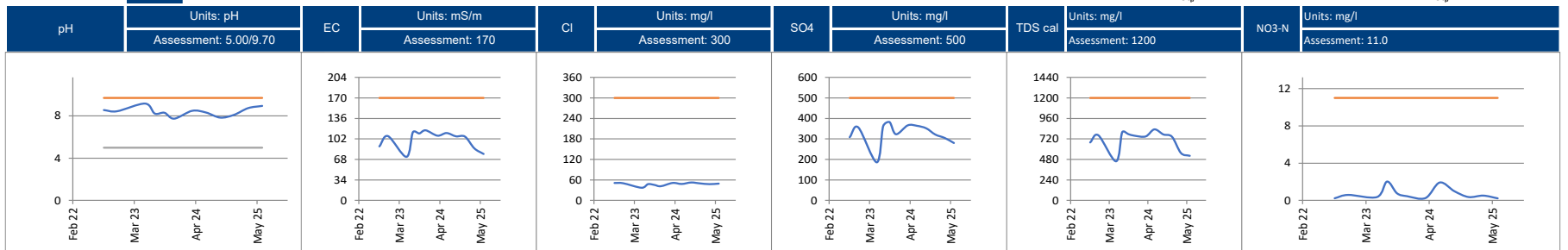
Graphs only illustrate trends

SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON04
LOCALITY DESCRIPTION	Borehole on Western Perimeter between the Ash Dump and Ash I
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)



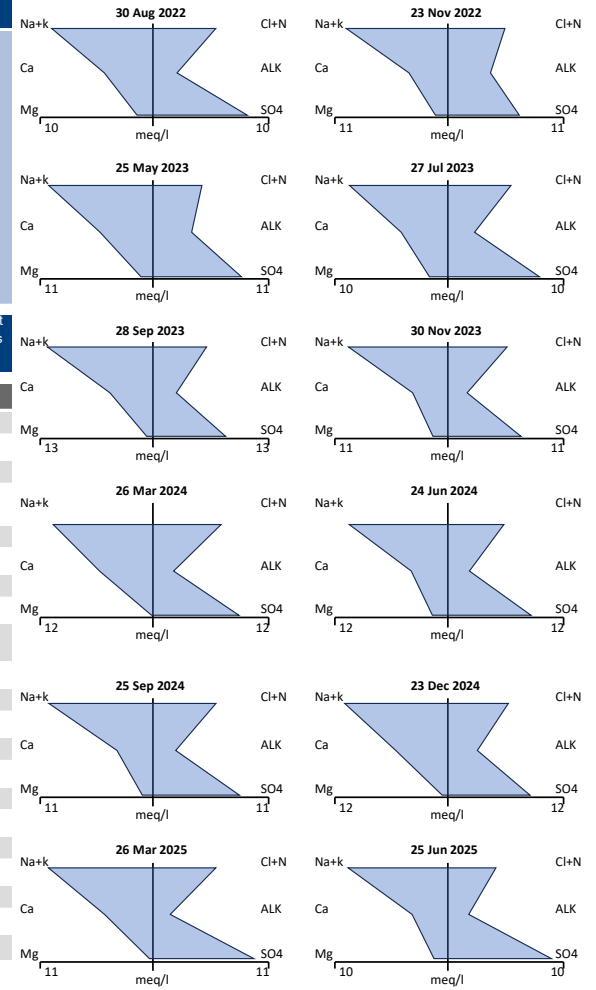
Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
pH pH	5/9.7	8.55	8.44	9.17	8.22	8.3	7.73	8.48	8.32	7.83	8.09	8.74	8.95	8.59	8.21	8.4
EC mS/m	170	89.7	107	72.4	113	111	116	107	112	106	106	86.4	77.2	89.9	108	100
TDS cal mg/l	1200	679	763	459	798	777	758	750	832	773	746	555	523	608	785	701
Total Hardness mg CaCO ₃ /l																
	None	606	650	422	667	668	689	612	686	665	670	459	417	515	654	601
Ca mg/l	None	19.6	24.5	5.26	31.7	29.4	39.5	23.8	33.2	32.7	33	8.71	7.56	16.4	29.9	24.1
Mg mg/l	None	135	143	99.2	143	144	143	134	146	142	143	106	96.7	115	141	131
Na mg/l	200	14.1	12.4	13.7	11.4	3.21	12.3	12.4	12.5	11.6	12.4	11.4	10.8	11.5	12.2	11.5
K mg/l	None	0.865	0.689	1.47	1.01	<0.015	0.681	<0.015	0.781	0.663	0.649	0.667	<0.015	0.441	0.484	0.625
Total alkalinity mg CaCO ₃ /l																
	None	219	251	183	253	230	254	238	287	237	251	119	121	164	254	220
Cl mg/l	300	50.9	50.1	37.3	47.6	45.4	41.6	51	48	52.3	49.7	47.6	49.1	48.8	50.4	47.6
SO ₄ mg/l	500	308	356	185	362	382	323	366	364	352	321	305	280	302	361	325
NO ₃ -N mg/l	11	0.223	0.583	0.358	2.01	0.754	0.446	0.247	1.91	0.973	0.356	0.508	0.216	0.36	1.04	0.715
NH ₄ -N mg/l	1.5	0.048	0.04	0.053	0.092	0.034	0.023	0.024	0.136	0.083	0.025	0.033	0.034	0.031	0.081	0.052
PO ₄ -P mg/l	None	<0.005	0.033	0.034	<0.005	<0.005	<0.005	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	0.005	0.005	0.009
F mg/l	1.5	<0.263	<0.263	<0.263	0.478	0.412	<0.263	0.483	<0.263	0.4	1.31	<0.263	<0.263	0.524	0.338	0.334
Al mg/l	0.3	<0.002	<0.002	<0.002	0.031	0.05	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.008
Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Mn mg/l	0.1	<0.001	0.096	0.002	<0.001	<0.001	<0.001	0.062	0.051	0.038	0.025	0.134	<0.001	0.053	0.05	0.034
Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
Cu mg/l	2	0.029	0.013	<0.002	<0.002	<0.002	0.024	0.014	0.007	0.022	<0.002	<0.002	0.04	0.014	0.014	0.013
Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
Ag mg/l	None	<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	0.001



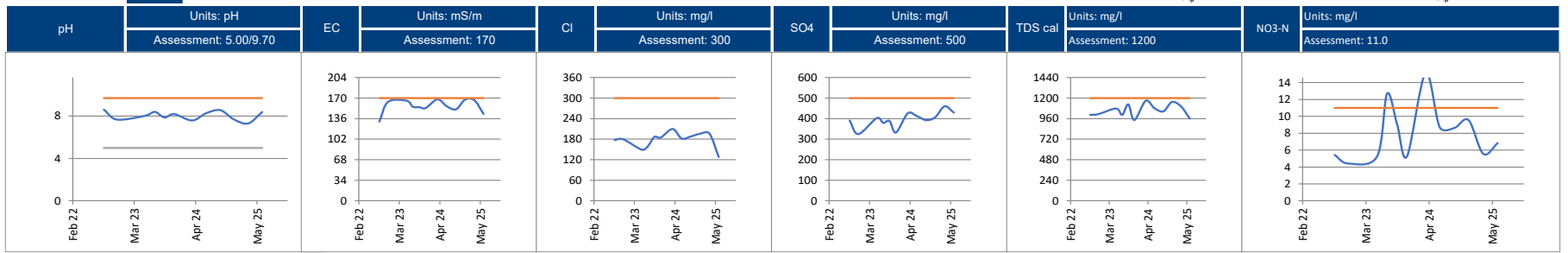
Graphs only illustrate trends

SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON05
LOCALITY DESCRIPTION	Borehole on Southern Perimeter on southern toe of Ash Dam A
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)



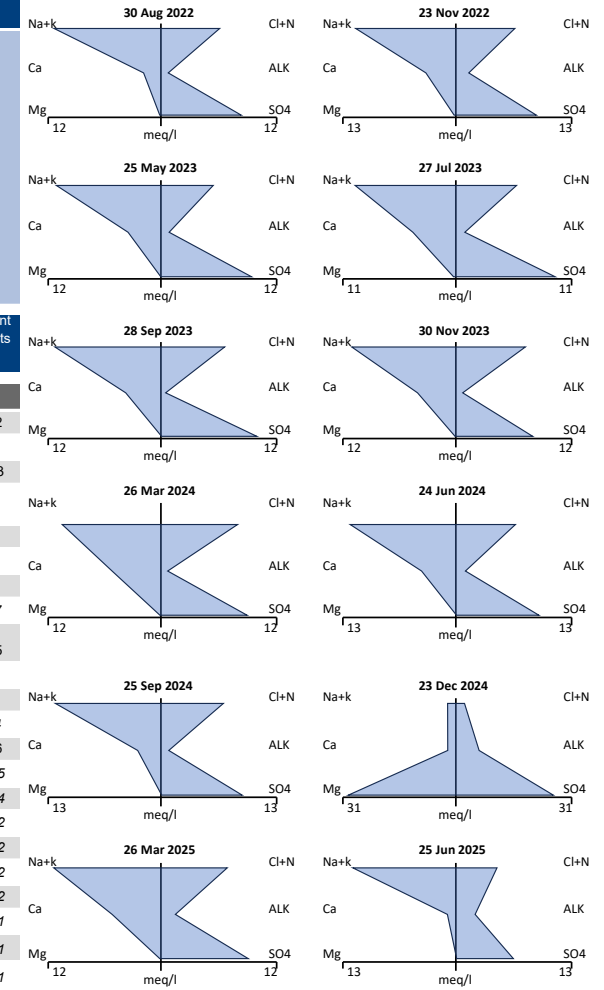
Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
pH pH	5/9.7	8.6	7.66	8.02	8.39	7.86	8.18	7.58	8.25	8.55	7.68	7.3	8.37	7.78	8.13	8.04
EC mS/m	170	131	164	166	156	155	153	168	157	151	167	166	144	159	159	157
TDS cal mg/l	1200	1003	1012	1077	1002	1126	942	1168	1081	1043	1154	1103	959	1072	1097	1056
Total Hardness mg CaCO ₃ /l																
	None	294	260	326	297	298	253	305	288	239	318	264	229	270	277	281
Ca mg/l	None	87.6	77.6	105	84.2	102	70.2	116	80	72.1	113	96.2	65.1	91.4	89.4	89.1
Mg mg/l	None	18.4	16.1	15.6	21	10.8	18.9	3.81	21.5	14.2	9.04	5.76	16.2	10.3	13.2	14.3
Na mg/l	200	184	204	211	181	253	198	220	214	208	227	210	183	207	214	208
K mg/l	None	38.5	41.8	38.5	33.3	46.5	41.6	41.5	46.1	43.2	43.1	41.7	34.4	39.7	43.6	40.9
Total alkalinity mg CaCO ₃ /l																
	None	99.9	200	180	111	125	87	101	106	102	148	76.5	85.6	103	103	119
Cl mg/l	300	177	180	149	160	187	185	210	182	188	196	196	128	173	193	178
SO ₄ mg/l	500	391	325	403	380	389	332	426	413	393	407	460	429	432	411	396
NO ₃ -N mg/l	11	5.44	4.42	5.26	12.7	9.11	5.26	15.1	8.72	8.64	9.56	5.56	6.83	7.32	10.8	8.05
NH ₄ -N mg/l	1.5	0.105	0.056	0.14	0.099	0.063	0.038	0.019	0.07	0.089	0.089	0.036	0.061	0.062	0.059	0.072
PO ₄ -P mg/l	None	<0.005	0.046	0.041	<0.005	0.15	0.031	0.266	0.192	0.292	0.166	0.043	0.012	0.074	0.25	0.104
F mg/l	1.5	<0.263	<0.263	<0.263	<0.263	0.451	<0.263	<0.263	<0.263	0.386	0.651	<0.263	<0.263	0.305	0.216	0.223
Al mg/l	0.3	<0.002	<0.002	0.009	0.077	0.158	<0.002	<0.002	0.006	<0.002	<0.002	<0.002	<0.002	0.001	0.003	0.022
Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Mn mg/l	0.1	<0.001	0.038	0.025	<0.001	<0.001	0.097	0.018	0.045	0.017	0.031	0.088	<0.001	0.04	0.027	0.03
Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
Cu mg/l	2	0.009	<0.002	<0.002	<0.002	<0.002	0.006	<0.002	<0.002	0.006	<0.002	<0.002	<0.002	0.001	0.003	0.003
Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
Ag mg/l	None	<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	0.001



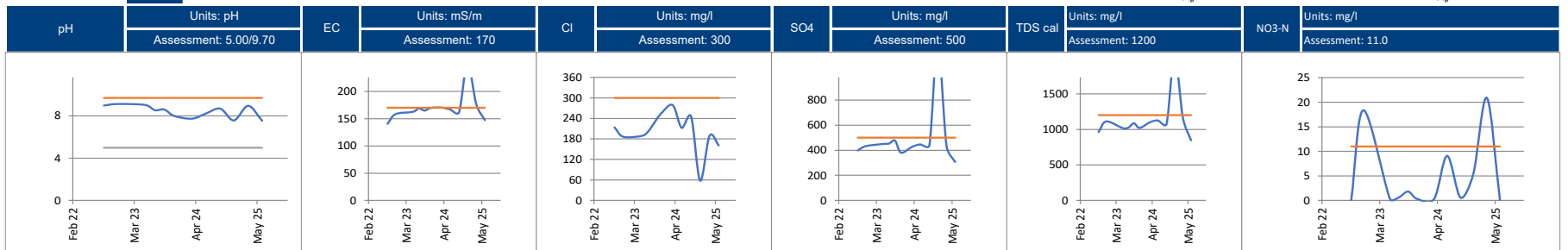
Graphs only illustrate trends

SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON06
LOCALITY DESCRIPTION	Between Ash Dam A and Southern Coal Stockpile
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-set avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
pH pH	5/9.7	8.99	9.13	9.04	8.54	8.6	7.99	7.73	8.22	8.69	7.56	8.96	7.53	8.02	8.21	8.42
EC mS/m	170	141	159	163	169	165	170	171	167	162	253	177	147	192	167	170
TDS cal mg/l	1200	965	1113	1020	1026	1088	1022	1103	1127	1075	2046	1168	848	1354	1102	1133
Total Hardness mg CaCO ₃ /l	None	112	195	189	231	198	221	277	207	144	1603	278	58	646	209	309
	Ca mg/l	None	39.4	71.3	72.3	85.5	77.4	83.7	106	81.2	56.3	50.7	106	22.1	59.6	81.2
Mg mg/l	None	3.25	4.2	2.04	4.24	1.11	2.84	3.18	0.969	0.887	359	3.33	0.57	121	1.68	32.1
Na mg/l	200	235	242	233	203	237	228	218	249	251	58.7	238	247	181	239	220
K mg/l	None	44.8	40	39.1	38.6	39.6	45.8	39.6	53.2	49.6	0.544	41.1	44.4	28.7	47.5	39.7
Total alkalinity mg CaCO ₃ /l	None	31.3	66.2	35.6	37	17	28.5	27.8	46.9	37	299	68.4	103	157	37.2	66.5
	Cl mg/l	300	214	186	189	201	227	253	279	212	245	57.9	189	161	136	245
SO ₄ mg/l	500	398	433	450	453	477	381	427	447	437	1255	433	308	665	437	492
NO ₃ -N mg/l	11	<0.194	18.4	0.329	0.659	1.81	0.314	0.313	9.07	0.564	5.48	20.9	<0.194	8.83	3.32	4.84
NH ₄ -N mg/l	1.5	7.35	1.76	8.11	11.3	7.97	7.07	8.26	2.96	7.13	0.119	0.062	0.983	0.388	6.12	5.26
PO ₄ -P mg/l	None	<0.005	0.033	0.032	<0.005	0.257	0.234	0.223	0.501	0.393	<0.009	0.57	0.328	0.301	0.372	0.215
F mg/l	1.5	<0.263	<0.263	<0.263	<0.263	0.443	<0.263	<0.263	<0.263	0.353	4.16	0.403	<0.263	1.56	0.205	0.534
Al mg/l	0.3	<0.002	<0.002	0.002	0.067	0.132	<0.002	<0.002	<0.002	<0.002	<0.002	0.051	<0.002	0.018	0.001	0.022
Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Mn mg/l	0.1	<0.001	<0.001	0.004	0.059	<0.001	0.027	0.197	<0.001	0.03	<0.001	0.004	0.063	0.023	0.076	0.032
Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.006	<0.003	0.003	0.002	0.002
Cu mg/l	2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
Ag mg/l	None	<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	0.001



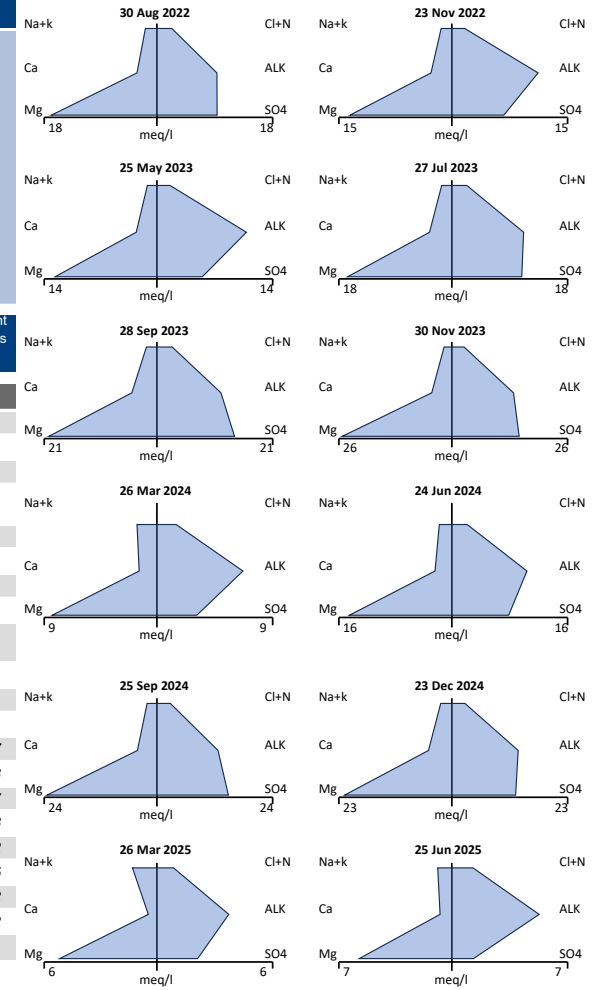
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SITE REPORT

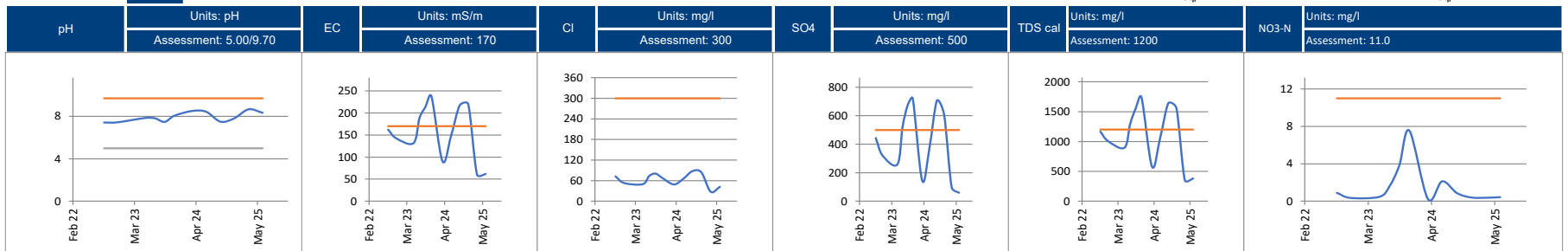
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON07
LOCALITY DESCRIPTION	Borehole South East of Southern Coal Stockpile
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS MON07



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
pH pH	5/9.7	7.42	7.43	7.84	7.81	7.47	8.05	8.5	8.42	7.49	7.81	8.65	8.33	8.26	8.14	7.94
EC mS/m	170	162	142	131	188	213	237	90.3	147	218	220	60.1	61.7	114	152	156
TDS cal mg/l	1200	1167	1008	897	1296	1560	1740	580	1058	1647	1556	353	383	764	1095	1104
Total Hardness mg CaCO ₃ /l																
	None	1014	825	770	1019	1253	1509	495	856	1392	1340	285	328	651	914	924
Ca mg/l	None	68	58.5	54.5	74.6	97.8	97.9	30.5	51.2	88.2	99	10.5	16.1	41.9	56.6	62.2
Mg mg/l	None	205	165	154	202	245	307	102	177	285	265	63	69.9	133	188	187
Na mg/l	200	46.6	35.5	30.2	40.1	50.3	47.1	38.5	43.4	53.5	56.3	29.5	21.3	35.7	45.1	41
K mg/l	None	1.4	1.58	1.46	2.1	0.401	1.35	0.74	2.69	1.64	1.14	2.91	0.754	1.6	1.69	1.51
Total alkalinity mg CaCO ₃ /l																
	None	461	559	540	557	577	688	333	517	627	657	185	264	369	492	497
Cl mg/l	300	72.2	52.8	49.5	73	80.4	68.6	48.8	64	87.2	84.4	27.5	41.9	51.3	66.7	62.5
SO ₄ mg/l	500	444	320	259	521	673	722	145	374	707	606	99.2	59.7	255	409	411
NO ₃ -N mg/l	11	0.887	0.343	0.461	1.56	3.83	7.55	0.235	2.12	0.863	0.391	0.361	0.422	0.391	1.07	1.59
NH ₄ -N mg/l	1.5	0.13	0.154	0.253	0.245	0.511	0.302	0.726	1.18	0.421	0.185	0.022	0.03	0.079	0.776	0.347
PO ₄ -P mg/l	None	<0.005	0.033	0.033	<0.005	<0.005	<0.005	<0.009	<0.009	0.266	<0.009	<0.009	0.03	0.013	0.092	0.033
F mg/l	1.5	<0.263	<0.263	<0.263	<0.263	0.541	0.675	<0.263	<0.263	<0.263	4.64	<0.263	<0.263	1.63	0.132	0.587
Al mg/l	0.3	<0.002	<0.002	0.003	0.059	0.147	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.018
Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Mn mg/l	0.1	0.123	0.392	0.528	0.196	0.107	0.168	0.179	0.26	0.164	0.189	<0.001	0.03	0.073	0.201	0.195
Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
Cu mg/l	2	0.031	0.013	<0.002	<0.002	<0.002	0.026	0.015	0.008	0.026	<0.002	<0.002	0.022	0.008	0.016	0.012
Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
Ag mg/l	None	<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	0.001



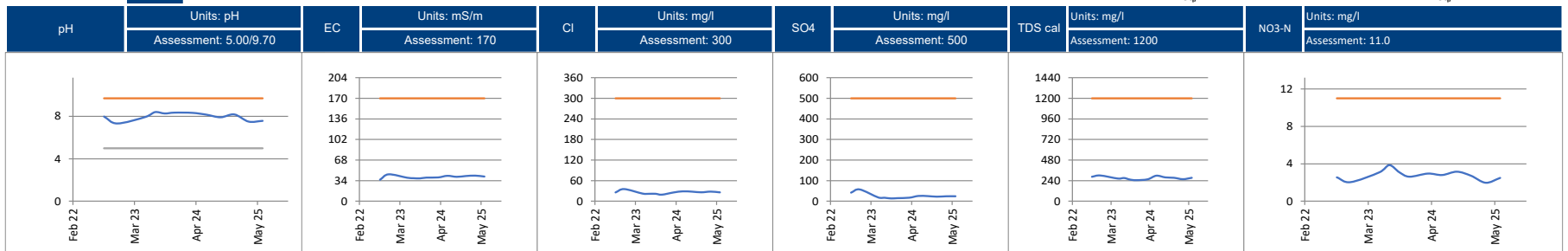
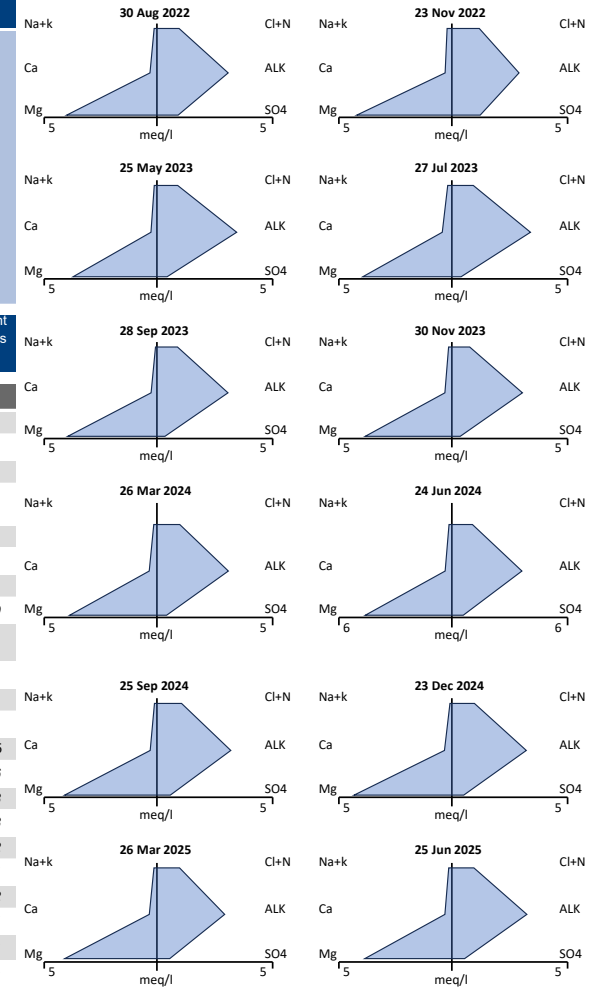
Graphs only illustrate trends

SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON09
LOCALITY DESCRIPTION	Background deep
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS-MON09

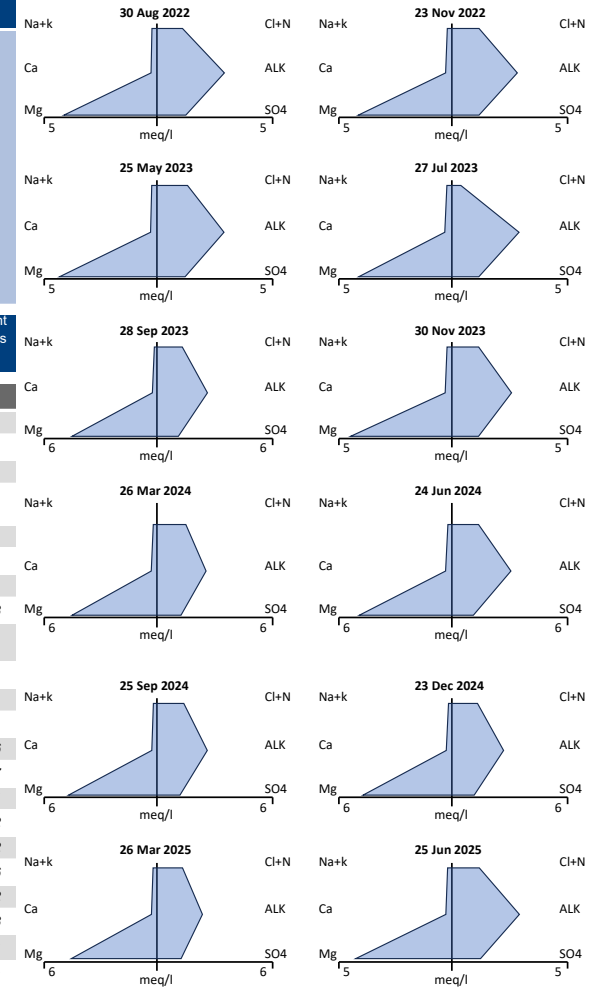


Graphs only illustrate trends

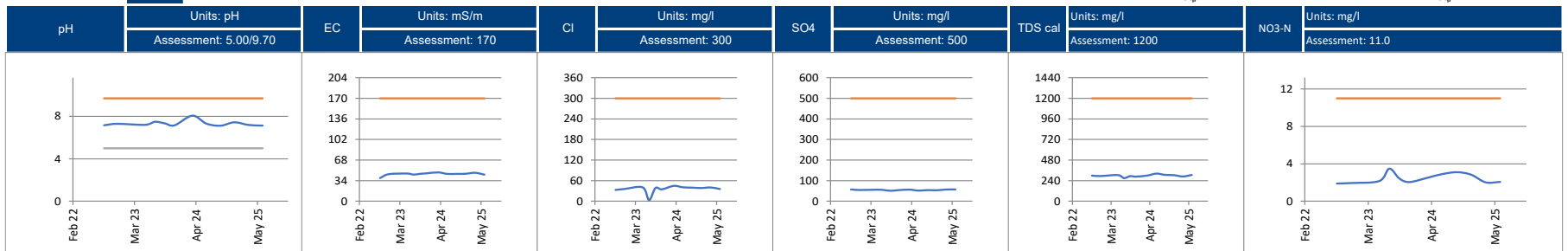
SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON10
LOCALITY DESCRIPTION	Background shallow
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality KPS-MON10



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
pH pH	5/9.7	7.16	7.3	7.2	7.49	7.34	7.15	8.06	7.32	7.12	7.44	7.19	7.13	7.25	7.5	7.33
EC mS/m	170	38.4	44.8	45.9	44.2	45.4	46.2	47.8	45.3	45.3	45.6	47.2	44.1	45.6	46.1	45
TDS cal mg/l	1200	300	294	306	271	293	288	301	322	308	304	290	307	300	310	299
Total Hardness mg CaCO ₃ /l																
	None	223	224	233	225	243	242	246	266	254	254	247	230	244	255	241
Ca mg/l	None	6.43	6.57	6.72	7.34	6.29	7.01	7.57	7.78	7.01	7.15	7.28	6.45	6.96	7.45	6.97
Mg mg/l	None	50.4	50.4	52.5	50.2	55.1	54.6	55	59.9	57.4	57.4	55.5	51.9	54.9	57.4	54.2
Na mg/l	200	6.18	5.61	6.29	5.83	4.82	5.9	6.23	5.85	5.84	5.35	6.11	5.62	5.69	5.97	5.8
K mg/l	None	0.448	0.358	0.417	0.766	<0.015	0.45	<0.015	0.489	0.457	0.258	0.455	<0.015	0.24	0.318	0.343
Total alkalinity mg CaCO ₃ /l																
	None	145	141	144	144	129	128	125	153	128	133	116	145	131	135	136
Cl mg/l	300	32.7	35.4	40	3.21	38.4	34.4	44.5	40.4	39.4	38.2	39.9	35.3	37.8	41.4	35.2
SO ₄ mg/l	500	57.9	54.6	56.5	54	50.5	53.5	56.7	51.5	54.3	53.2	57.4	57.6	56.1	54.2	54.8
NO ₃ -N mg/l	11	1.9	1.95	2.16	3.47	2.43	2.05	2.52	2.89	3.09	2.84	2.02	2.07	2.31	2.83	2.45
NH ₄ -N mg/l	1.5	0.055	0.026	0.305	0.059	0.039	0.037	<0.008	0.059	0.066	0.012	0.101	0.029	0.047	0.043	0.066
PO ₄ -P mg/l	None	0.035	0.041	0.075	<0.005	<0.005	<0.005	<0.009	<0.009	<0.009	<0.009	0.028	<0.009	0.012	0.005	0.017
F mg/l	1.5	<0.263	<0.263	<0.263	<0.263	0.523	<0.263	0.327	<0.263	0.543	0.571	<0.263	<0.263	0.278	0.334	0.251
Al mg/l	0.3	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	0.004	<0.002	0.012	<0.002	<0.002	<0.002	0.001	0.006	0.002
Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Mn mg/l	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.063	<0.001	<0.001	<0.001	<0.001	0.001	0.021	0.006
Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
Cu mg/l	2	0.02	0.006	<0.002	<0.002	<0.002	0.018	0.008	<0.002	0.018	<0.002	<0.002	0.016	0.006	0.009	0.008
Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
Ag mg/l	None	<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	0.001

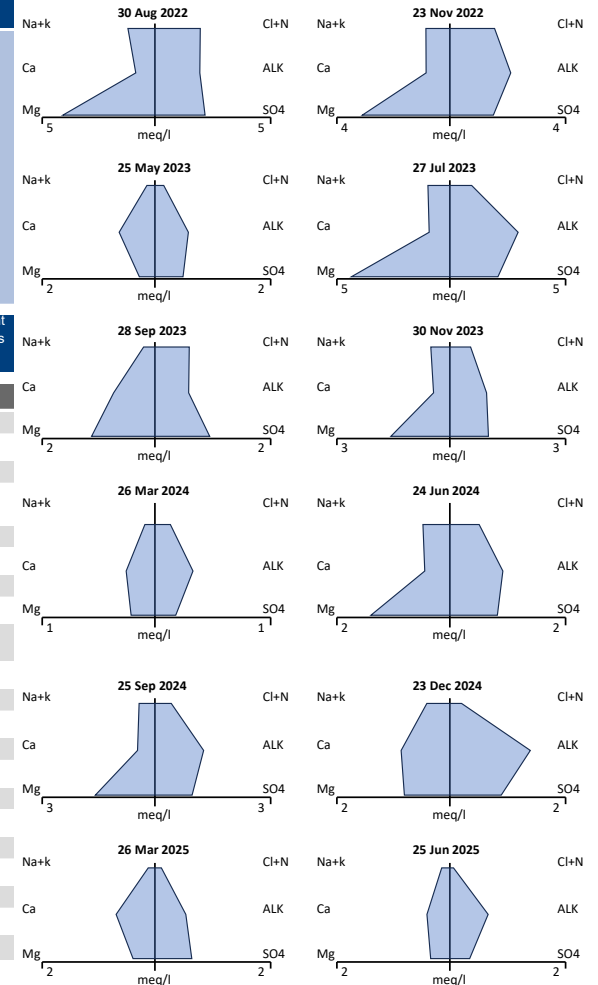


Graphs only illustrate trends

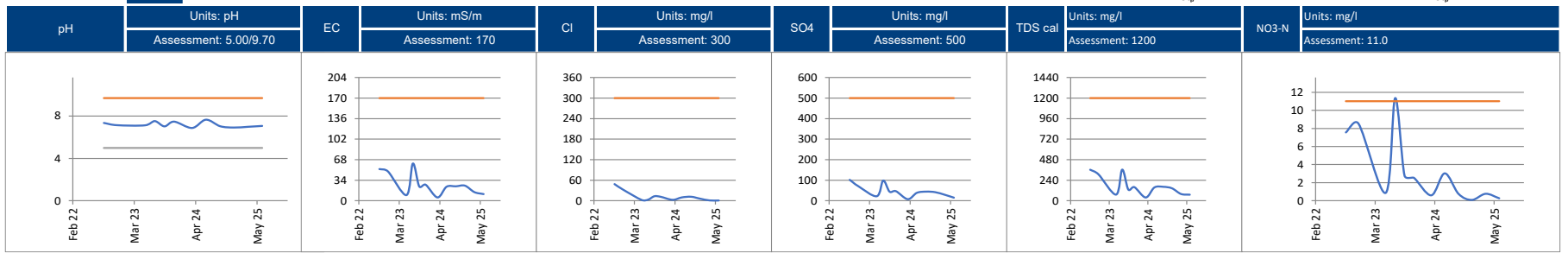
SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON11
LOCALITY DESCRIPTION	Fuel storage
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality KPS-MON11



Variable	Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
pH	5/9.7	7.35	7.14	7.13	7.52	7.03	7.47	6.88	7.65	7.04	6.92	6.99	6.99	7.19	7.18
EC mS/m	170	52.4	48.4	9.28	61.6	23.6	26.5	5.4	23.1	23.8	24.9	14.2	10.9	16.7	27
TDS cal mg/l	1200	364	310	72	365	132	159	38	155	163	146	79	71	99	171
Total Hardness mg CaCO ₃ /l	None	251	199	47	267	94	103	24	93	105	85	56	39	60	74
Ca mg/l	None	18.2	17.5	13.1	19.3	15	9.3	5.31	9.21	9.95	17.6	14.1	8.42	13.4	13.1
Mg mg/l	None	49.8	37.8	3.62	53.1	13.8	19.3	2.69	17	19.5	9.97	4.98	4.31	6.42	19.7
Na mg/l	200	27.4	19	3.14	22	3.72	11.3	10.4	9.44	7.12	2.16	3.53	4.27	7.38	10.1
K mg/l	None	2.37	2.15	1.08	2.3	2.49	1.71	<0.015	1.6	1.75	4.58	1.95	0.342	2.29	1.12
Total alkalinity mg CaCO ₃ /l	None	95	105	28.1	147	28.2	46.5	16.1	45.5	61.9	69.4	25.7	32.4	42.5	58.4
Cl mg/l	300	48.8	32.5	2.41	3.14	13.3	11.6	2.82	9.81	11.8	6.19	1.1	0.815	2.7	12
SO ₄ mg/l	500	102	71.3	22.5	98.5	44.7	47	8.16	39	44.8	42.1	29.7	15.6	29.1	47.1
NO ₃ -N mg/l	11	7.56	8.52	0.878	11.4	2.79	2.54	0.606	3.04	0.762	<0.194	0.775	0.279	0.384	3.27
NH ₄ -N mg/l	1.5	0.076	1.99	0.027	0.09	0.06	0.031	0.011	0.061	0.062	5.11	0.386	0.029	1.84	0.661
PO ₄ -P mg/l	None	0.089	1.54	0.09	<0.005	0.179	0.056	<0.009	0.032	0.037	0.599	0.071	0.029	0.233	0.025
F mg/l	1.5	<0.263	<0.263	<0.263	<0.263	0.639	<0.263	0.394	<0.263	0.669	0.608	0.4	<0.263	0.38	0.398
Al mg/l	0.3	<0.002	<0.002	0.036	0.032	<0.002	0.006	0.003	0.002	<0.002	<0.002	<0.002	0.001	0.002	0.007
Fe mg/l	0.3	<0.004	<0.004	0.009	<0.004	<0.004	<0.004	<0.004	<0.004	0.287	<0.004	<0.004	0.097	0.002	0.026
Mn mg/l	0.1	<0.001	<0.001	0.025	0.226	<0.001	<0.001	<0.001	0.396	0.181	0.062	0.504	0.017	0.194	0.118
Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
Cu mg/l	2	0.021	0.003	<0.002	<0.002	<0.002	0.009	<0.002	<0.002	0.009	<0.002	<0.002	0.001	0.004	0.004
Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
Ag mg/l	None	<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

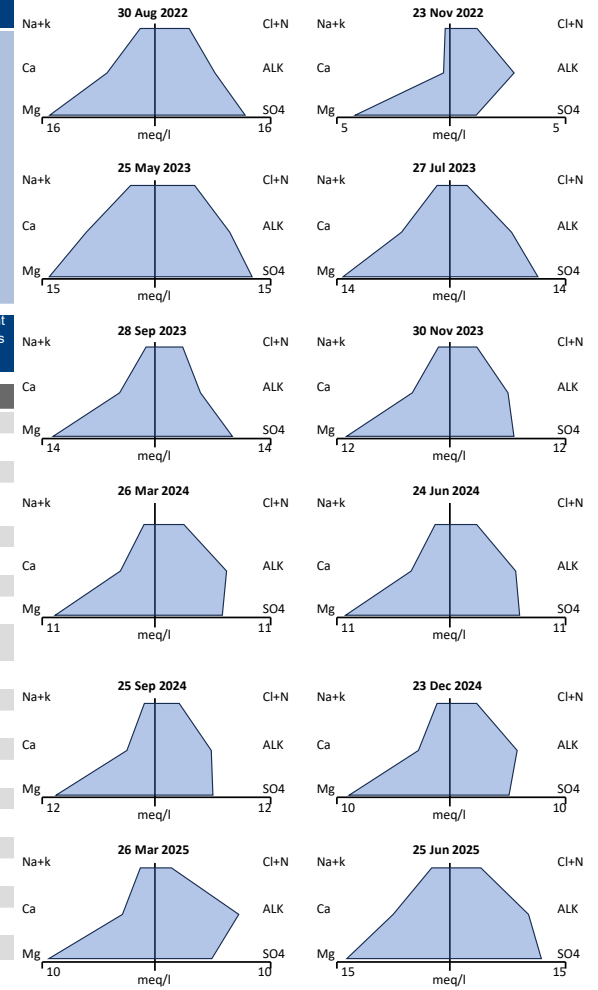


Graphs only illustrate trends

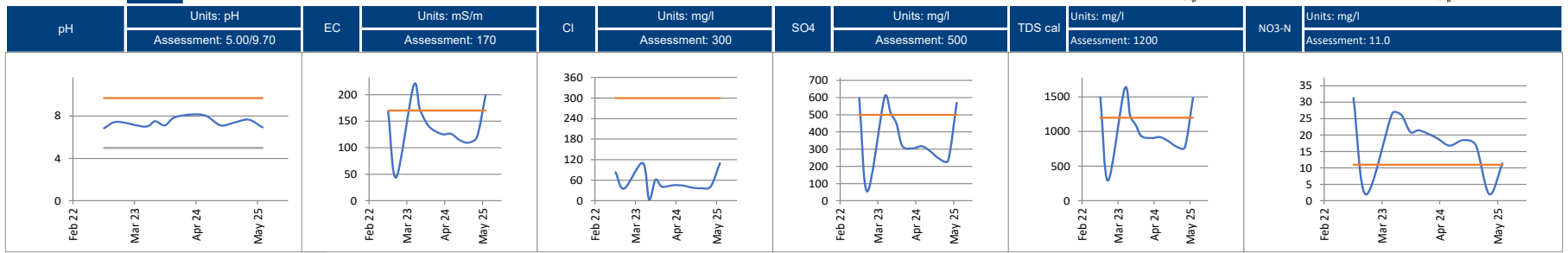
SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON12
LOCALITY DESCRIPTION	HFO storage
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality KPS-MON12



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 12-sets avg	Current 12-sets avg	
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
pH	pH	5/9.7	6.85	7.45	7	7.51	7.11	7.86	8.14	8	7.12	7.38	7.66	6.93	7.32	7.75	7.42
EC	mS/m	170	168	44.1	217	175	150	136	126	126	114	110	121	200	144	122	141
TDS	cal mg/l	1200	1494	291	1609	1228	1092	931	905	919	859	781	770	1485	1012	894	1030
Total Hardness	mg CaCO ₃ /l	None	1094	226	1167	967	859	755	662	702	681	590	621	1067	759	682	783
	Ca mg/l	None	139	6.66	185	122	90.3	82	69.5	77.3	62	57.4	59.8	153	90.1	69.6	92
Mg	mg/l	None	182	50.9	171	161	154	134	119	124	128	109	115	167	130	124	135
Na	mg/l	200	49.8	5.73	74.4	37.5	27.8	29.1	27	33.8	27.6	27.2	27.9	54.3	36.5	29.5	35.2
K	mg/l	None	3.96	0.35	6.49	3.43	2.02	2.6	0.71	2.96	2.4	2.06	7.78	7.58	5.81	2.02	3.53
Total alkalinity	mg CaCO ₃ /l	None	411	138	482	371	271	299	339	311	288	289	361	509	386	313	339
	Cl mg/l	300	83.3	35.3	111	3.4	61.8	41.1	45.5	44.4	38.3	36.6	41.6	110	62.7	42.7	54.4
SO ₄	mg/l	500	597	52.9	604	510	448	317	305	317	285	244	233	569	349	302	373
NO ₃ -N	mg/l	11	31.3	1.9	26.6	26.1	20.9	21.4	19.1	16.8	18.5	16.9	1.97	11.3	10.1	18.1	17.7
NH ₄ -N	mg/l	1.5	0.072	0.04	3.24	0.129	0.037	0.036	0.01	0.071	0.135	0.201	6.25	9.6	5.35	0.072	1.65
PO ₄ -P	mg/l	None	<0.005	0.047	0.429	<0.005	0.009	<0.005	<0.009	<0.009	0.042	0.016	2.21	1.35	1.19	0.017	0.343
F	mg/l	1.5	<0.263	<0.263	<0.263	<0.263	0.644	<0.263	<0.263	0.532	0.331	0.534	<0.263	<0.263	0.266	0.332	0.258
Al	mg/l	0.3	<0.002	<0.002	0.007	0.098	0.141	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.021
Fe	mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Mn	mg/l	0.1	<0.001	<0.001	0.012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.06	0.049	0.037	0.001	0.01
Cr	mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
Cu	mg/l	2	0.03	0.006	<0.002	<0.002	<0.002	0.025	0.012	0.005	0.05	<0.002	<0.002	0.065	0.022	0.022	0.017
Cd	mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.005	0.002	0.001	0.001
Ag	mg/l	None	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	0.001	0.001	0.001

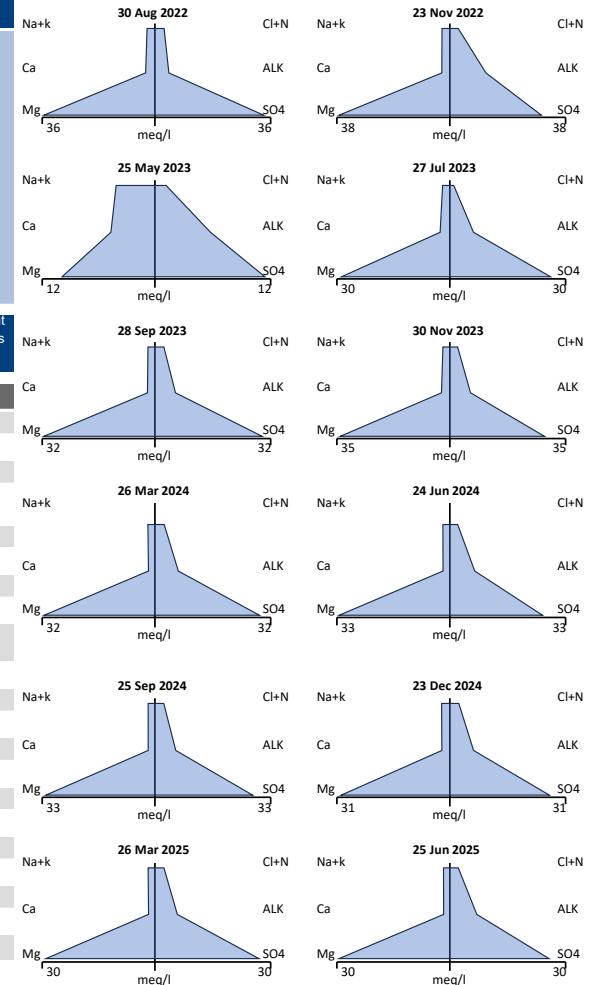


Graphs only illustrate trends

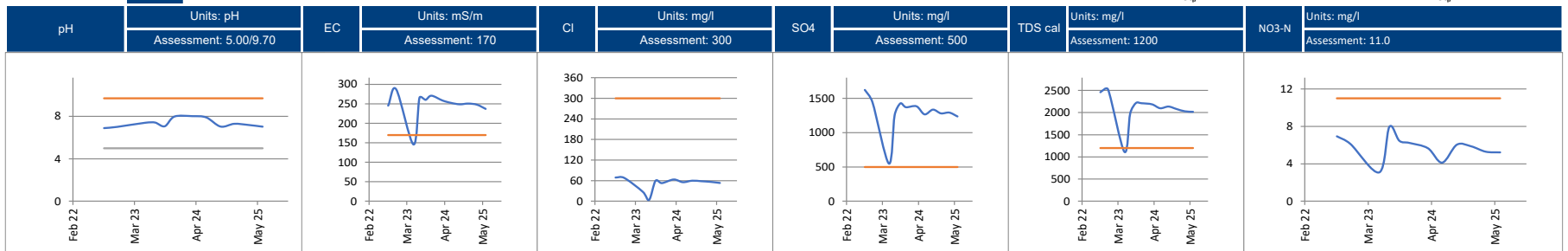
SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON13
LOCALITY DESCRIPTION	Brick Yard
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality KPS-MON13



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 12-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
pH	pH	5/9.7	6.89	7	7.39	7.41	7.06	7.97	8.01	7.89	7.03	7.29	7.18	7.02	7.16	7.35
EC	mS/m	170	245	287	146	266	260	271	259	253	249	251	248	237	245	248
TDS	cal mg/l	1200	2461	2524	1114	1977	2215	2213	2188	2100	2138	2083	2031	2019	2044	2089
Total Hardness	mg CaCO ₃ /l	None	1938	2019	737	1585	1698	1853	1681	1736	1716	1620	1554	1572	1582	1642
	Ca mg/l	None	67.5	62.3	96.2	58.2	49.2	60.4	44.3	47.3	47.5	50.6	41.5	39.6	43.9	55.4
Mg	mg/l	None	430	452	121	350	383	413	381	393	388	363	352	358	358	365
Na	mg/l	200	66.2	69.2	96.1	51.3	53.3	58.5	54.6	54.8	54.2	59.6	50	46.1	51.9	59.5
K	mg/l	None	1.02	0.861	2.58	1.14	<0.015	0.976	<0.015	0.755	0.66	0.533	0.382	<0.015	0.308	0.474
Total alkalinity	mg CaCO ₃ /l	None	198	580	284	293	270	295	307	340	281	305	275	337	306	314
	Cl mg/l	300	69.4	68.4	27.8	3.84	59.5	53	63.6	55.7	60.2	58.6	56.6	53.4	56.2	52.5
SO ₄	mg/l	500	1623	1442	547	1252	1425	1370	1384	1266	1335	1280	1292	1236	1269	1288
NO ₃ -N	mg/l	11	6.94	6.12	3.09	7.94	6.46	6.23	5.67	4.13	6.04	5.87	5.29	5.22	5.46	5.75
NH ₄ -N	mg/l	1.5	0.304	0.182	0.031	0.384	0.214	0.205	0.13	0.162	0.157	0.115	0.164	0.153	0.144	0.183
PO ₄ -P	mg/l	None	<0.005	0.047	0.136	<0.005	<0.005	<0.005	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	0.005	0.018
F	mg/l	1.5	<0.263	<0.263	0.265	<0.263	0.541	<0.263	0.395	<0.263	<0.263	4.26	<0.263	<0.263	1.51	0.543
Al	mg/l	0.3	<0.002	<0.002	0.004	0.061	0.096	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.014
Fe	mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002
Mn	mg/l	0.1	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	0.003	0.012	<0.001	<0.001	<0.001	0.001	0.002
Cr	mg/l	0.05	<0.003	<0.003	<0.003	0.008	0.012	0.024	0.01	<0.003	0.007	<0.003	0.015	0.015	0.011	0.008
Cu	mg/l	2	0.034	0.017	<0.002	<0.002	<0.002	0.029	0.015	0.011	0.025	<0.002	<0.002	0.098	0.033	0.02
Cd	mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	0.002	0.001
Ag	mg/l	None	<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



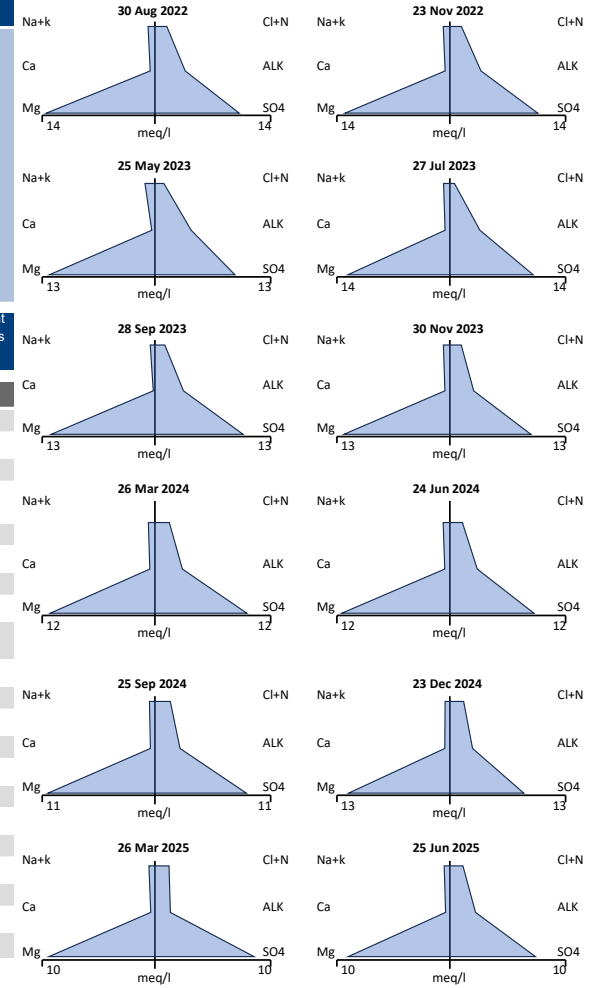
Graphs only illustrate trends

SITE REPORT

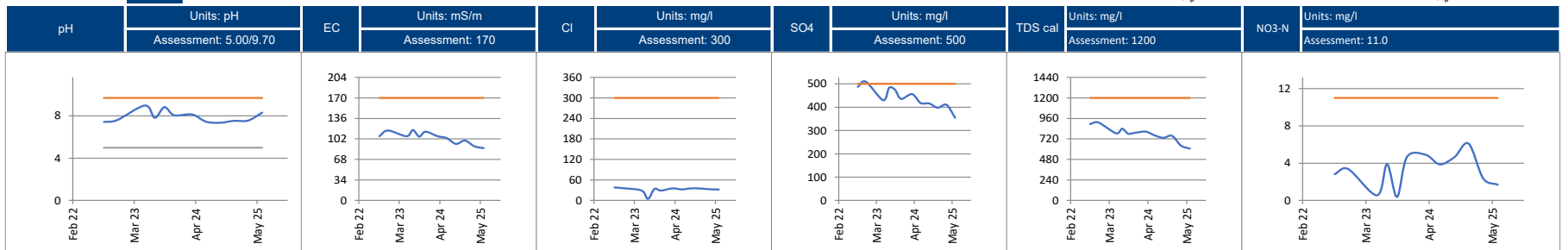
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON14
LOCALITY DESCRIPTION	Switch yard
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS-MON14



Variable	Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
pH	5/9.7	7.43	7.6	8.99	7.82	8.84	8.06	8.14	7.45	7.35	7.56	8.31	7.8	7.65	7.92
EC mS/m	170	106	116	106	117	106	114	106	103	93.6	99.2	89.6	91.8	101	104
TDS cal mg/l	1200	893	911	786	838	780	791	805	763	733	756	643	607	669	776
Total Hardness mg CaCO ₃ /l	None	712	687	636	672	616	646	593	608	551	621	497	477	532	610
Ca mg/l	None	15	14.8	10.5	15.1	6.93	14.2	14	13.3	11.6	14.5	10.2	9.93	11.5	12.5
Mg mg/l	None	164	158	148	154	145	148	136	140	127	142	115	110	122	141
Na mg/l	200	22.9	22	29.4	21.1	15.8	19.9	19.6	18.7	15.2	15.4	14.9	14.2	14.8	19.1
K mg/l	None	0.765	0.536	0.678	0.862	<0.015	0.646	<0.015	0.785	0.655	0.56	0.662	<0.015	0.41	0.514
Total alkalinity mg CaCO ₃ /l	None	177	183	199	176	155	128	136	138	114	122	107	96.5	129	141
Cl mg/l	300	38.3	35.9	29	4.37	33.6	28.9	35.5	32.4	35.5	35.1	32.9	32.1	33.4	31.1
SO ₄ mg/l	500	487	509	430	483	475	436	456	418	416	398	410	355	388	439
NO ₃ -N mg/l	11	2.82	3.38	0.543	3.88	0.368	4.68	4.91	3.88	4.66	6.11	2.34	1.69	3.38	3.27
NH ₄ -N mg/l	1.5	0.083	0.009	0.026	0.472	0.023	0.024	0.008	0.052	0.064	0.011	0.018	0.025	0.018	0.068
PO ₄ -P mg/l	None	<0.005	0.04	0.04	<0.005	0.039	<0.005	<0.009	<0.009	<0.009	<0.009	<0.009	0.031	0.013	0.015
F mg/l	1.5	<0.263	<0.263	<0.263	<0.263	0.457	<0.263	<0.263	0.512	0.667	<0.263	<0.263	0.31	0.258	0.235
Al mg/l	0.3	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.069	<0.002	<0.002	<0.002	0.001	0.007
Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002
Mn mg/l	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.043	0.024	<0.001	0.2	<0.001	0.067	0.023
Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	0.019	0.022	<0.003	<0.003	0.01	<0.003	<0.003	0.004	0.005
Cu mg/l	2	0.03	0.013	<0.002	<0.002	<0.002	0.027	0.014	0.007	0.024	<0.002	<0.002	0.046	0.016	0.014
Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	0.001	0.001
Ag mg/l	None	<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

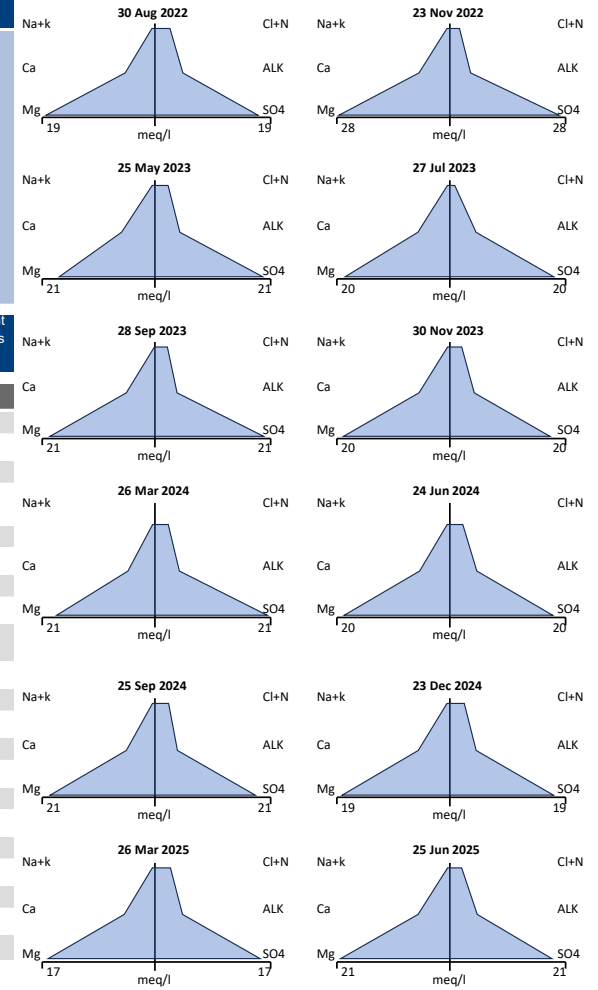


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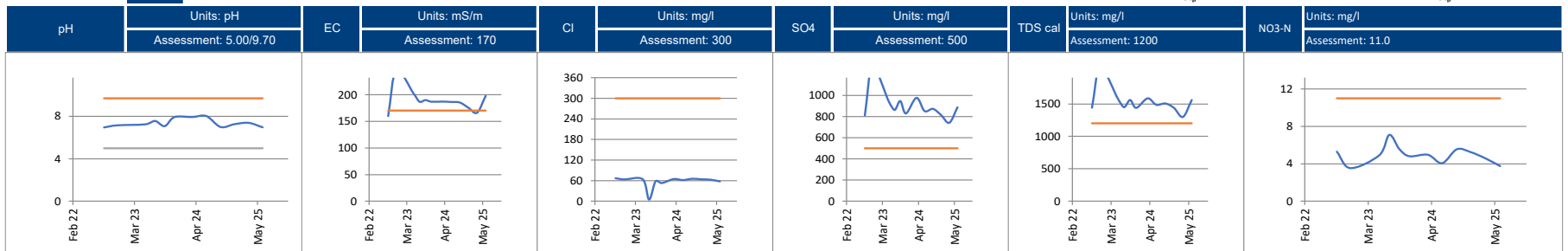
SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON16
LOCALITY DESCRIPTION	Clinker dump (replace KPS-MON03)
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality KPS-MON16



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
pH pH	5/9.7	6.95	7.15	7.24	7.56	7.07	7.92	7.93	8.02	6.99	7.25	7.38	6.96	7.2	7.65	7.37
EC mS/m	170	160	246	202	187	190	187	187	186	185	176	166	198	180	186	189
TDS cal mg/l	1200	1441	2064	1578	1449	1561	1439	1586	1486	1506	1439	1299	1561	1433	1526	1534
Total Hardness mg CaCO ₃ /l																
	None	1176	1769	1213	1220	1256	1226	1177	1213	1254	1180	1045	1323	1183	1215	1254
Ca mg/l	None	104	158	128	117	111	113	105	111	111	110	96	122	109	109	116
Mg mg/l	None	223	334	217	225	238	229	222	227	237	220	196	247	221	229	235
Na mg/l	200	16.7	23.9	17.7	14.7	8.46	14.8	15.9	16.2	16.3	16	14	15.9	15.3	16.1	15.9
K mg/l	None	0.305	0.217	0.1	0.571	<0.015	0.254	<0.015	0.441	0.319	0.166	0.123	<0.015	0.099	0.256	0.21
Total alkalinity mg CaCO ₃ /l																
	None	220	238	216	218	190	201	211	224	194	208	194	238	213	210	213
Cl mg/l	300	66.9	63.4	63.9	4.63	57.3	52.8	64.5	61.5	65.4	63.8	62.6	57.6	61.3	63.8	57
SO ₄ mg/l	500	811	1270	939	862	947	829	977	852	873	816	741	887	815	901	900
NO ₃ -N mg/l	11	5.29	3.53	4.92	7.08	5.57	4.8	4.96	4.06	5.55	5.23	4.56	3.75	4.51	4.86	4.94
NH ₄ -N mg/l	1.5	0.072	0.244	0.07	1.5	0.037	0.091	0.104	1.18	0.109	0.061	0.04	0.078	0.06	0.464	0.299
PO ₄ -P mg/l	None	<0.005	0.035	0.034	<0.005	<0.005	<0.005	<0.009	1.88	<0.009	<0.009	<0.009	0.044	0.018	0.63	0.168
F mg/l	1.5	<0.263	<0.263	<0.263	<0.263	0.736	<0.263	<0.263	0.84	0.359	1.77	<0.263	<0.263	0.678	0.444	0.396
Al mg/l	0.3	<0.002	<0.002	0.002	0.107	0.167	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.024
Fe mg/l	0.3	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Mn mg/l	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.022	<0.001	<0.001	<0.001	0.001	0.008	0.002
Cr mg/l	0.05	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
Cu mg/l	2	0.031	0.015	<0.002	<0.002	<0.002	0.027	0.015	0.008	0.025	<0.002	<0.002	0.079	0.027	0.016	0.017
Cd mg/l	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004	0.002	0.001	0.001
Ag mg/l	None	<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	0.001



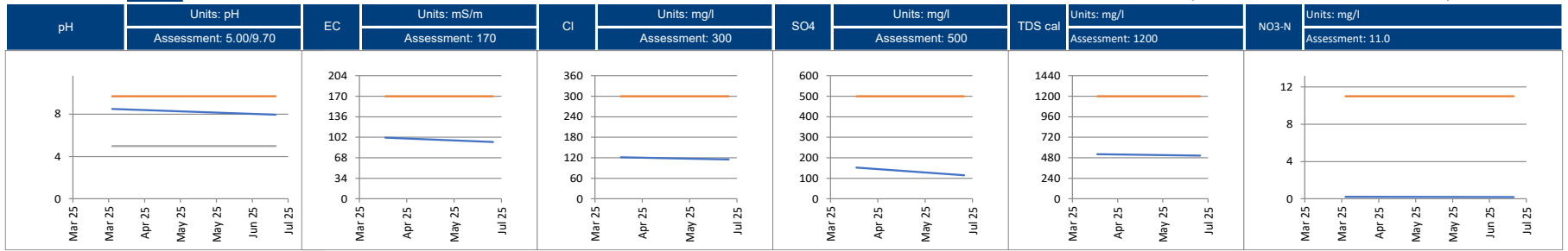
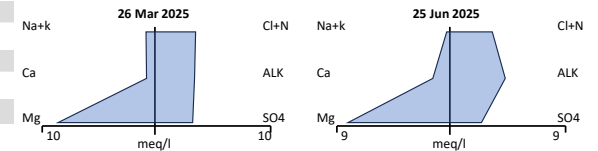
Graphs only illustrate trends



SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-NBH01
LOCALITY DESCRIPTION	Newly drilled monitoring borehole - Mar 2025
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Variable	Mar 2025	Jun 2025													Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes															
pH pH	5/9.7	8.49	7.95												8.22		8.22
EC mS/m	170	101	94.3												97.7		97.7
TDS cal mg/l	1200	523	506												515		515
Total Hardness mg CaCO ₃ /l	None	474	480												477		477
Ca mg/l	None	17.3	29												23.2		23.2
Mg mg/l	None	105	99												102		102
Na mg/l	200	20.2	8.05												14.1		14.1
K mg/l	None	1.16	<0.015												0.584		0.584
Total alkalinity mg CaCO ₃ /l	None	167	214												191		191
Cl mg/l	300	121	115												118		118
SO ₄ mg/l	500	153	115												134		134
NO ₃ -N mg/l	11	0.223	0.204												0.214		0.214
NH ₄ -N mg/l	1.5	1.01	0.047												0.529		0.529
PO ₄ -P mg/l	None	<0.009	<0.009												0.005		0.005
F mg/l	1.5	<0.263	<0.263												0.132		0.132
Al mg/l	0.3	<0.002	<0.002												0.001		0.001
Fe mg/l	0.3	<0.004	<0.004												0.002		0.002
Mn mg/l	0.1	0.077	0.073												0.075		0.075
Cr mg/l	0.05	<0.003	<0.003												0.002		0.002
Cu mg/l	2	<0.002	0.041												0.021		0.021
Cd mg/l	0.003	<0.002	0.002												0.002		0.002
Ag mg/l	None	<0.001	<0.001												0.001		0.001



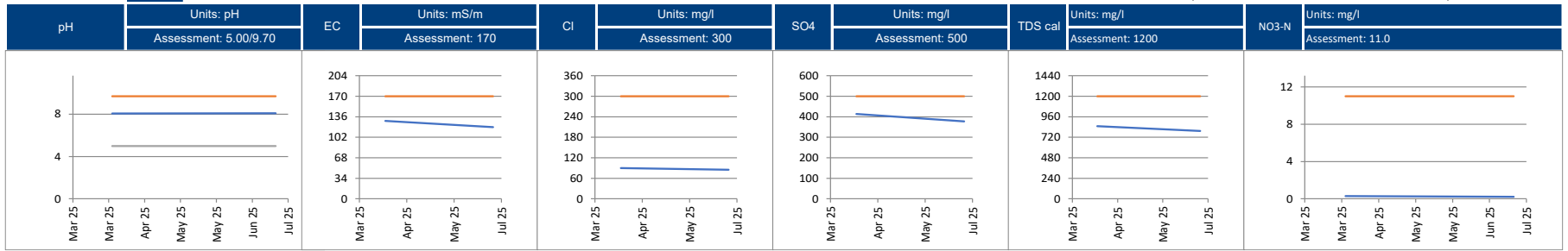
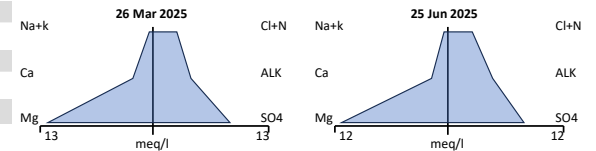
Graphs only illustrate trends



SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-NBH02
LOCALITY DESCRIPTION	Newly drilled monitoring borehole - Mar 2025
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Variable	Mar 2025	Jun 2025												Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes														
pH	5/9.7	8.07	8.09											8.08		8.08
EC mS/m	170	129	119											124		124
TDS cal mg/l	1200	850	793											822		822
Total Hardness mg CaCO ₃ /l	None	730	659											695		695
Ca mg/l	None	49.2	37.3											43.3		43.3
Mg mg/l	None	147	137											142		142
Na mg/l	200	12.8	12.5											12.7		12.7
K mg/l	None	0.857	<0.015											0.432		0.432
Total alkalinity mg CaCO ₃ /l	None	209	228											219		219
Cl mg/l	300	89.9	85.1											87.5		87.5
SO ₄ mg/l	500	413	377											395		395
NO ₃ -N mg/l	11	0.287	0.227											0.257		0.257
NH ₄ -N mg/l	1.5	0.997	0.023											0.51		0.51
PO ₄ -P mg/l	None	<0.009	0.052											0.028		0.028
F mg/l	1.5	<0.263	<0.263											0.132		0.132
Al mg/l	0.3	<0.002	<0.002											0.001		0.001
Fe mg/l	0.3	<0.004	<0.004											0.002		0.002
Mn mg/l	0.1	0.128	0.085											0.107		0.107
Cr mg/l	0.05	<0.003	<0.003											0.002		0.002
Cu mg/l	2	<0.002	0.054											0.028		0.028
Cd mg/l	0.003	<0.002	<0.002											0.001		0.001
Ag mg/l	None	<0.001	<0.001											0.001		0.001



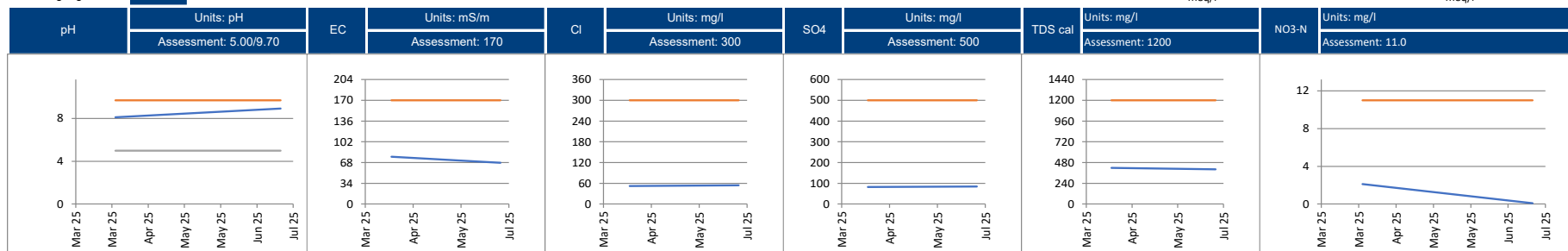
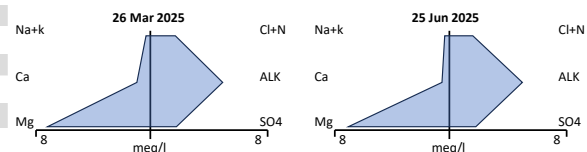
Graphs only illustrate trends



SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-NBH03
LOCALITY DESCRIPTION	Newly drilled monitoring borehole - Mar 2025
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Variable	Mar 2025	Jun 2025												Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes														
pH pH	5/9.7	8.12	8.93											8.53		8.53
EC mS/m	170	77.5	67.6											72.6		72.6
TDS cal mg/l	1200	419	403											411		411
Total Hardness mg CaCO ₃ /l	None	412	383											398		398
Ca mg/l	None	20.6	11.8											16.2		16.2
Mg mg/l	None	87.5	85.8											86.7		86.7
Na mg/l	200	8.55	8.83											8.69		8.69
K mg/l	None	1.05	0.692											0.871		0.871
Total alkalinity mg CaCO ₃ /l	None	245	248											247		247
Cl mg/l	300	52.3	54.4											53.4		53.4
SO ₄ mg/l	500	81.7	84											82.9		82.9
NO ₃ -N mg/l	11	2.11	<0.194											1.1		1.1
NH ₄ -N mg/l	1.5	1.4	2.41											1.91		1.91
PO ₄ -P mg/l	None	<0.009	<0.009											0.005		0.005
F mg/l	1.5	0.618	<0.263											0.375		0.375
Al mg/l	0.3	<0.002	<0.002											0.001		0.001
Fe mg/l	0.3	<0.004	<0.004											0.002		0.002
Mn mg/l	0.1	0.976	0.054											0.515		0.515
Cr mg/l	0.05	<0.003	<0.003											0.002		0.002
Cu mg/l	2	<0.002	0.031											0.016		0.016
Cd mg/l	0.003	<0.002	<0.002											0.001		0.001
Ag mg/l	None	<0.001	<0.001											0.001		0.001



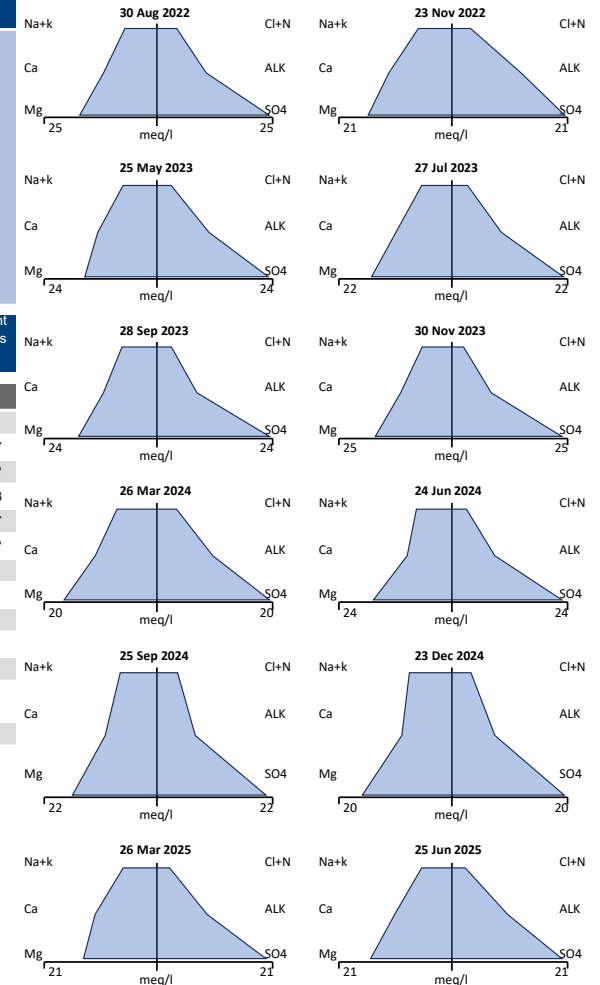
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SITE REPORT

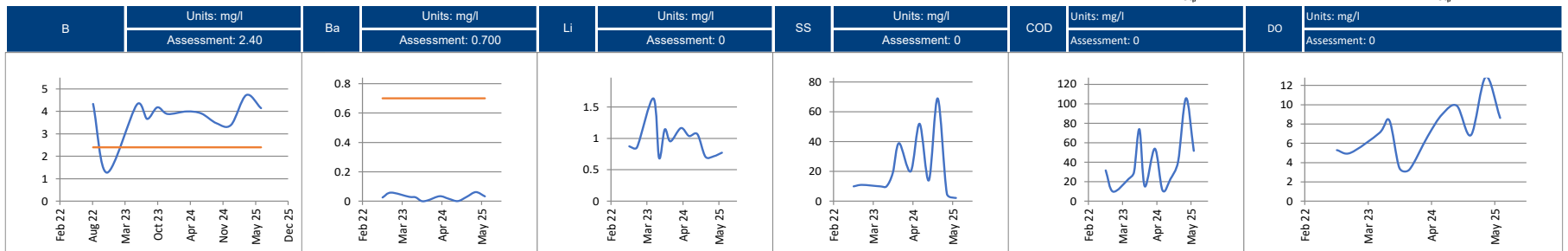
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS BH01
LOCALITY DESCRIPTION	Borehole on Western Perimeter - Toe of Ash Dam B
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS BH01



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
B mg/l	2.4	4.33	1.28	4.3	3.66	4.18	3.88	4	3.91	3.47	3.4	4.72	4.14	4.09	3.79	3.77
Ba mg/l	0.7	0.026	0.059	0.03	0.027	<0.002	0.006	0.034	0.017	<0.002	0.03	0.062	0.033	0.042	0.017	0.027
Co mg/l	None	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	0.007	0.003	0.002	0.002
Li mg/l	None	0.874	0.856	1.64	0.688	1.14	0.953	1.16	1.04	1.07	0.709	0.715	0.772	0.732	1.09	0.968
Ni mg/l	0.07	<0.002	0.021	0.086	<0.002	0.081	0.046	0.05	0.035	0.054	0.021	0.014	0.028	0.021	0.046	0.037
Pb mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Zn mg/l	5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.002	0.001
COD mg/l	None	31.7	9.89	23	29.9	73.9	15.3	54	11.3	22.9	40.3	106	51.7	66	29.4	39.2
DO mg/l	None	5.29	5	7.07	8.37	3.45	3.26	6.75	9	9.89	6.85	12.9	8.63	9.46	8.55	7.21
SAR SAR	None	1.68	1.52	1.74	1.45	1.79	1.55	1.71	1.83	1.74	1.91	1.6	1.41	1.64	1.76	1.66
SS mg/l	None	10	11	10	10	19	39	20	52	14	69	5	<4.46	25	29	22
total coliforms CFU/100ml	10	<1	100	2	6000	140	<1	<1	1	11	110	2	<1	38	4	531
E.coli CFU/100ml	0	<1	20	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1	2
faecal coliform CFU/100ml	0	-	-	1	1	<1	<1	<1	<1	<1	<1	<1	<1	1	1	1



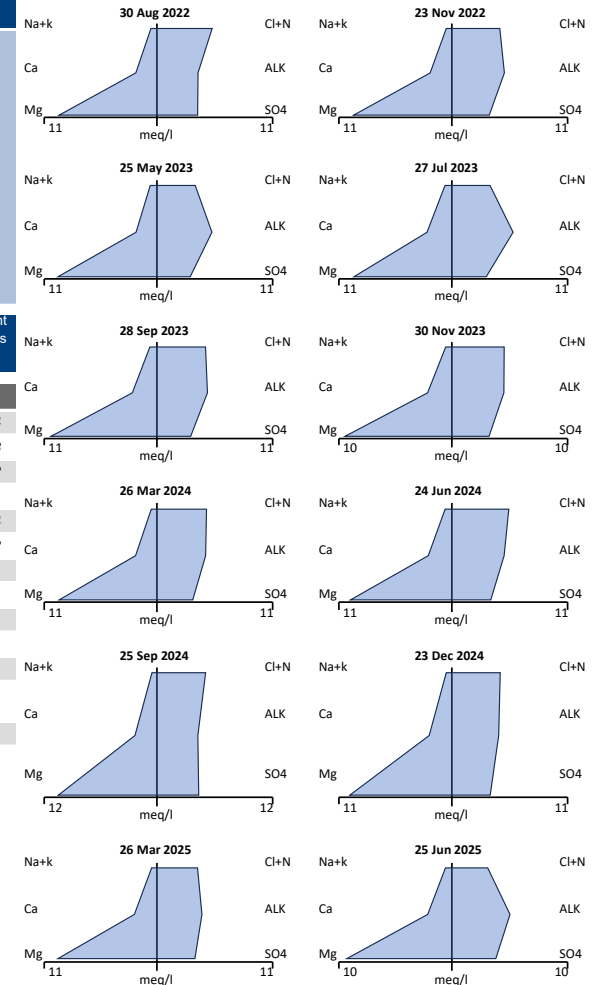
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SITE REPORT

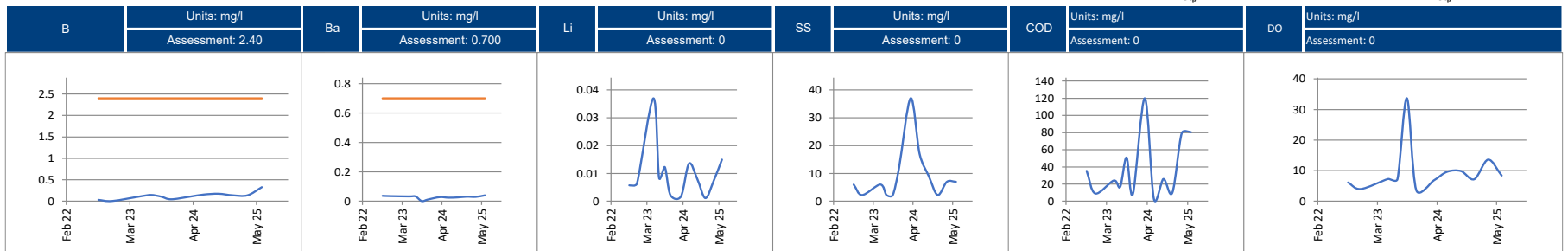
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS BH02
LOCALITY DESCRIPTION	Borehole on Southern Toe of Ash Dam B
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS BH02



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
B mg/l	2.4	0.033	<0.013	0.116	0.146	0.108	0.047	0.106	0.156	0.174	0.138	0.137	0.325	0.2	0.145	0.124
Ba mg/l	0.7	0.037	0.035	0.033	0.033	<0.002	0.012	0.028	0.024	0.026	0.031	0.03	0.04	0.034	0.026	0.028
Co mg/l	None	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.005	0.003	0.002	0.002
Li mg/l	None	0.006	0.006	0.037	0.008	0.012	0.002	0.002	0.014	0.008	0.001	0.007	0.015	0.008	0.008	0.01
Ni mg/l	0.07	<0.002	0.009	0.08	<0.002	0.016	0.003	0.009	0.006	0.015	<0.002	0.008	0.017	0.009	0.01	0.014
Pb mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Zn mg/l	5	<0.002	<0.002	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
COD mg/l	None	35.4	9	24.1	16.8	50.9	8.57	120	<5.1	25.9	9.98	79.4	80.5	56.6	49.5	38.6
DO mg/l	None	6.12	4	7.28	7.24	33.7	3.64	6.78	9.63	9.86	7.19	13.6	8.4	9.73	8.76	9.79
SAR SAR	None	0.29	0.27	0.31	0.3	0.32	0.26	0.29	0.3	0.26	0.27	0.26	0.28	0.27	0.28	0.28
SS mg/l	None	6	<4.46	6	<4.46	<4.46	12	37	17	9	<4.46	7	7	5.4	21	9.2
Total coliforms CFU/100ml	10	60	1	2080	<1	2800	4	23	51	<1	<1	170	20	64	25	434
E.coli CFU/100ml	0	<1	1	<1	<1	28	2	<1	<1	<1	<1	<1	<1	1	1	3
faecal coliform CFU/100ml	0	-	-	5	<1	87	2	<1	8	<1	<1	<1	<1	1	3	11



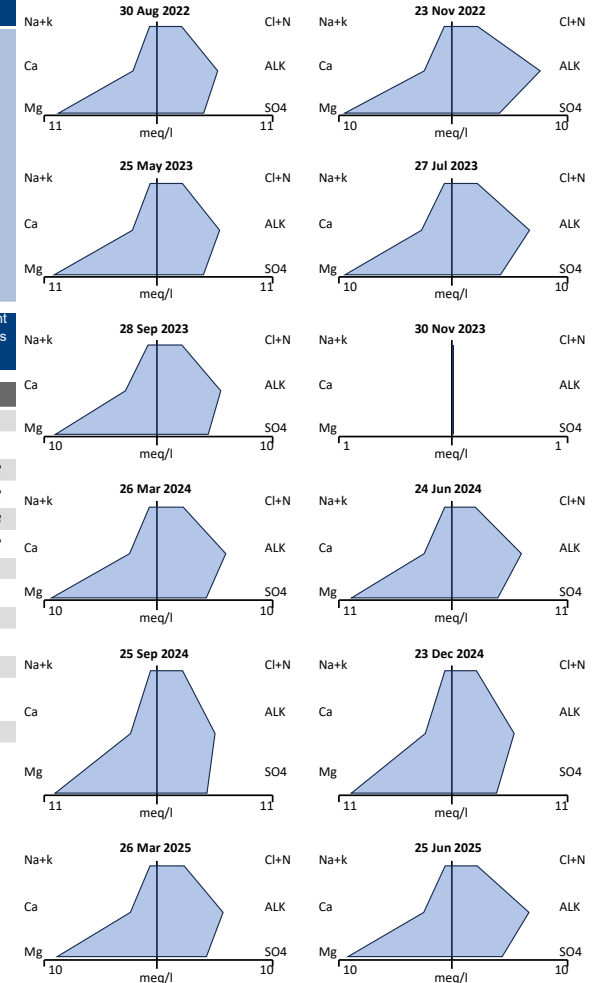
Graphs only illustrate trends

SITE REPORT

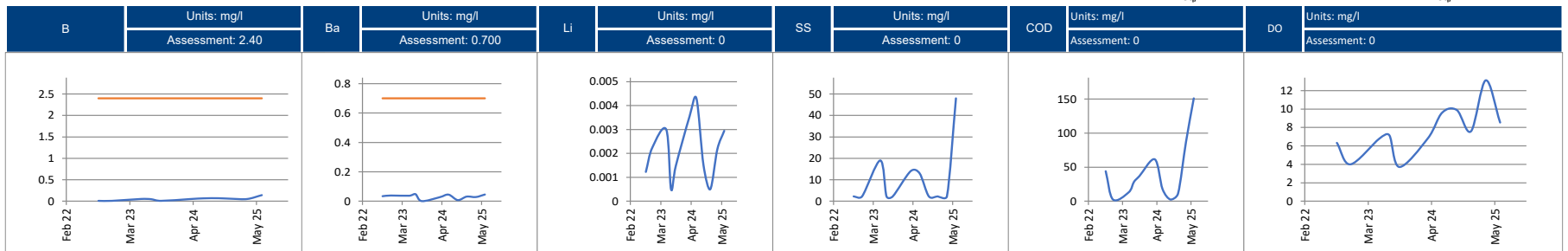
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS BH04
LOCALITY DESCRIPTION	Borehole on Western Perimeter
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS BH04



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	No access	Yes	Yes	Yes	Yes	Yes	Yes			
B mg/l	2.4	<0.013	<0.013	0.051	0.046	<0.013	-	0.048	0.066	0.069	0.054	0.05	0.142	0.082	0.061	0.05
Ba mg/l	0.7	0.034	0.039	0.037	0.048	<0.002	-	0.027	0.044	0.008	0.031	0.028	0.045	0.035	0.026	0.031
Co mg/l	None	<0.003	<0.003	<0.003	<0.003	<0.003	-	<0.003	<0.003	<0.003	<0.003	<0.003	0.006	0.003	0.002	0.002
Li mg/l	None	0.001	0.002	0.003	<0.001	0.001	-	0.004	0.004	0.002	<0.001	0.002	0.003	0.002	0.003	0.002
Ni mg/l	0.07	<0.002	<0.002	0.072	<0.002	0.004	-	0.003	<0.002	0.004	<0.002	0.002	0.003	0.002	0.003	0.008
Pb mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	-	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Zn mg/l	5	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
COD mg/l	None	44.1	<5.1	13.1	28.6	37	-	61.6	18	<5.1	11.4	87.3	151	83.2	27.4	41.6
DO mg/l	None	6.33	4	6.79	7.15	3.71	-	6.82	9.6	9.88	7.58	13.1	8.53	9.74	8.77	7.59
SAR SAR	None	0.34	0.31	0.31	0.29	0.37	-	0.33	0.31	0.29	0.31	0.3	0.29	0.3	0.31	0.31
SS mg/l	None	<4.46	<4.46	19	<4.46	<4.46	-	14	13	<4.46	<4.46	<4.46	48	17	9.7	10
total coliforms CFU/100ml	10	<1	<1	230	39	3	-	8	13	<1	<1	3	<1	1	7	27
E.coli CFU/100ml	0	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	2	<1	1	1	1
faecal coliform CFU/100ml	0	-	-	50	<1	3	-	<1	4	<1	<1	2	<1	1	2	7



Graphs only illustrate trends

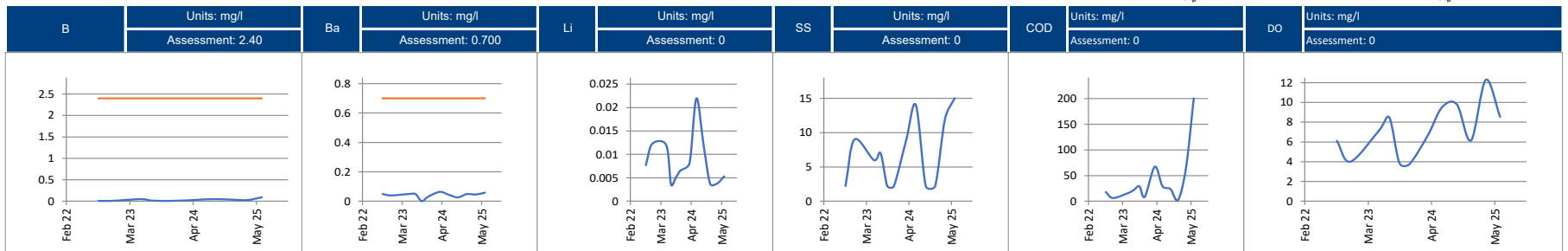
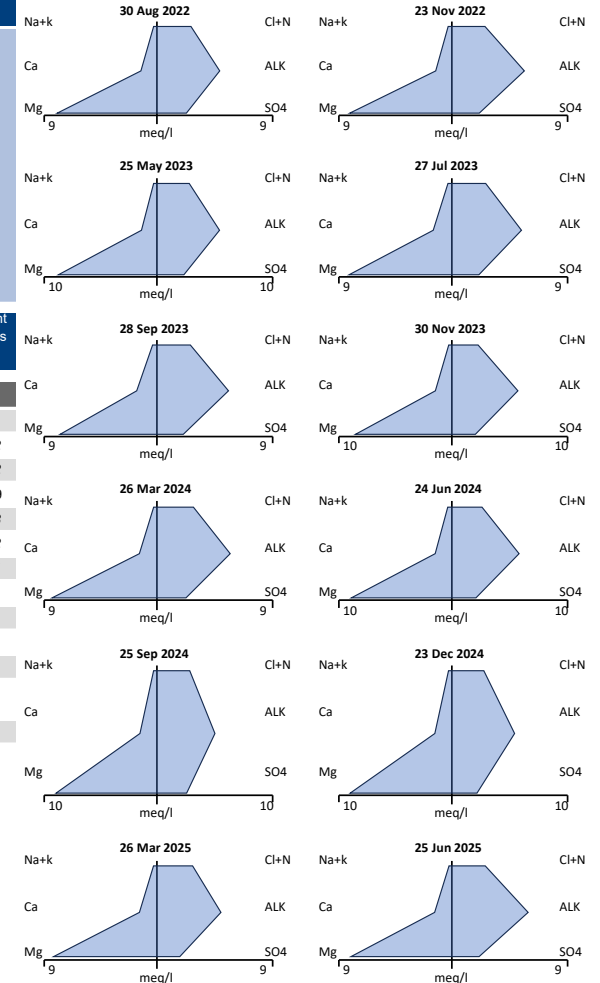


SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS BH05
LOCALITY DESCRIPTION	Borehole on Southern Perimeter - South of Ash Dam A
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS BH05



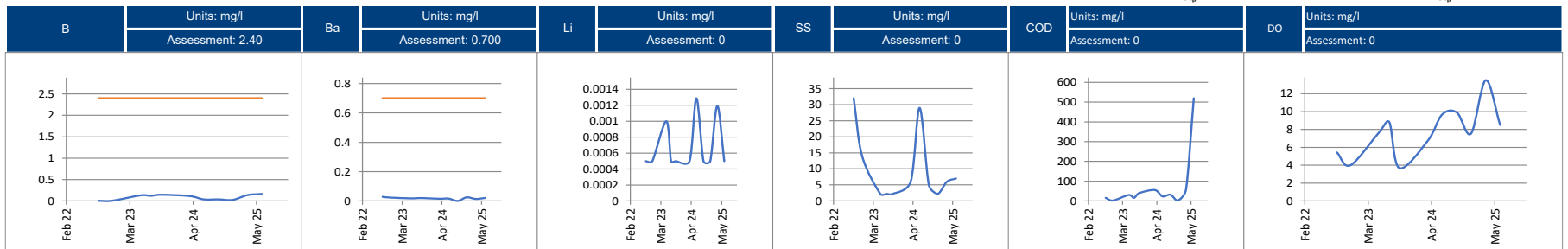
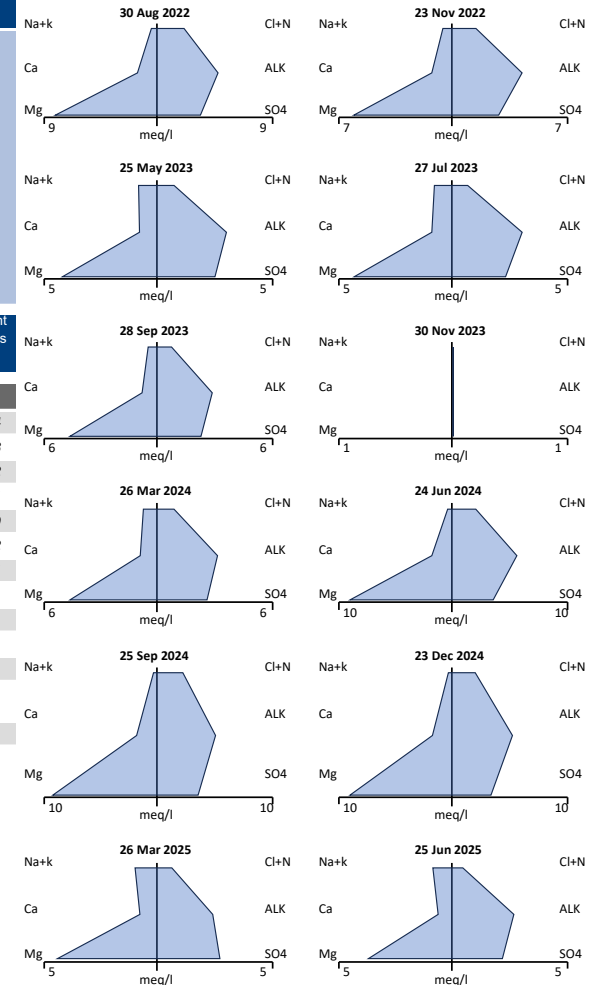
Graphs only illustrate trends

SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS BH07
LOCALITY DESCRIPTION	Borehole on South Western Perimeter
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS BH07

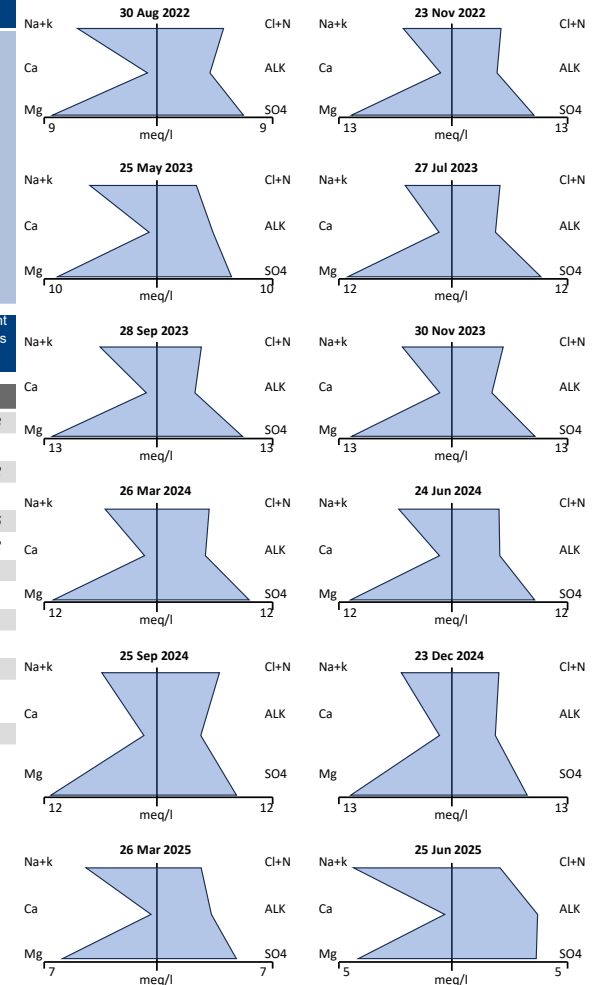


Graphs only illustrate trends

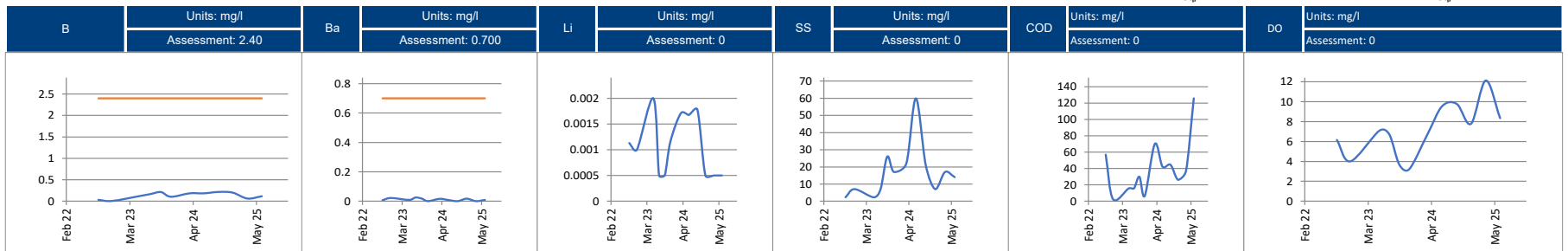
SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON01
LOCALITY DESCRIPTION	Borehole on Northern Perimeter next to Coal Stockpile
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality KPS MON01



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
B mg/l	2.4	0.032	<0.013	0.125	0.168	0.211	0.103	0.182	0.182	0.214	0.199	0.062	0.115	0.125	0.193	0.133
Ba mg/l	0.7	0.007	0.021	0.009	0.025	0.018	<0.002	0.016	0.008	<0.002	0.017	<0.002	0.009	0.009	0.008	0.011
Co mg/l	None	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
Li mg/l	None	0.001	0.001	0.002	<0.001	<0.001	0.001	0.002	0.002	0.002	<0.001	<0.001	<0.001	0.001	0.002	0.001
Ni mg/l	0.07	<0.002	0.016	0.034	<0.002	<0.002	0.017	0.031	0.025	0.026	0.006	0.009	0.015	0.01	0.027	0.015
Pb mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Zn mg/l	5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
COD mg/l	None	57	<5.1	15.6	15.8	29.9	6.57	70.1	42.2	44.7	26.2	37	126	63.1	52.3	39.5
DO mg/l	None	6.15	4	7.08	6.7	3.66	3.22	6.8	9.54	9.76	7.77	12.1	8.34	9.4	8.7	7.09
SAR SAR	None	2.9	2.19	2.68	1.97	2.52	2.21	2.2	2.25	2.29	2.24	2.38	2.77	2.46	2.25	2.38
SS mg/l	None	<4.46	7	<4.46	7	26	17	22	60	21	7	17	14	13	34	17
total coliforms CFU/100ml	10	<1	63	<1	<1	<1	<1	3	<1	<1	200	1	10	70	1	23
E.coli CFU/100ml	0	<1	9	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	1	1	1
faecal coliform CFU/100ml	0	-	-	<1	<1	<1	<1	1	<1	<1	1	<1	<1	1	1	1



Graphs only illustrate trends

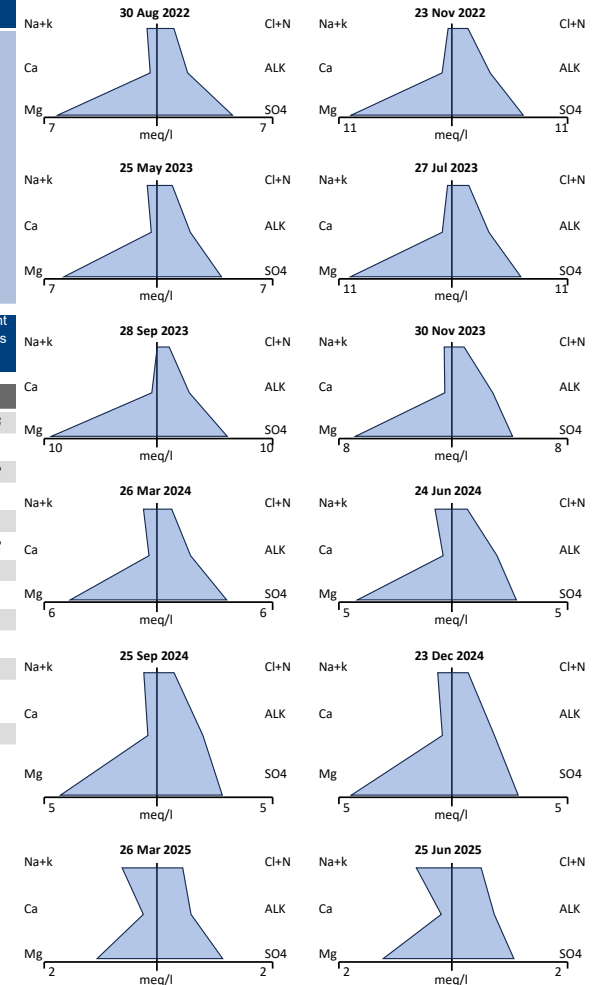


SITE REPORT

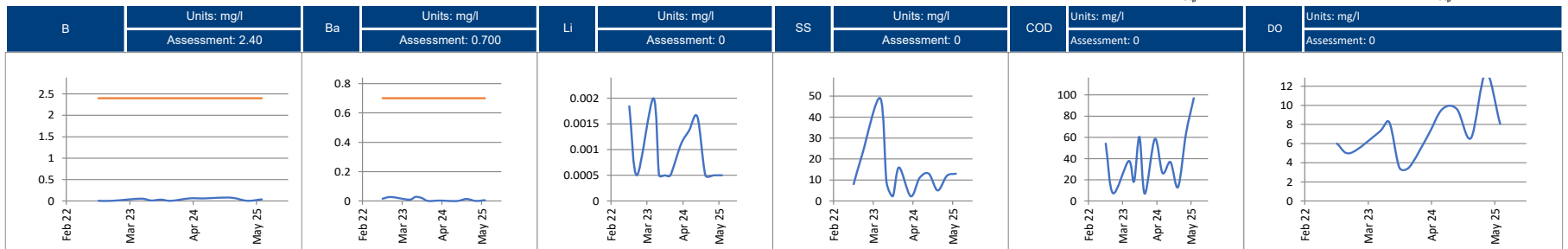
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON02
LOCALITY DESCRIPTION	Borehole on Northern Perimeter South of Coal Stockpile
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS MON02



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
B mg/l	2.4	<0.013	<0.013	0.055	0.013	0.033	<0.013	0.061	0.06	0.075	0.073	<0.013	0.04	0.04	0.065	0.036
Ba mg/l	0.7	0.016	0.028	0.01	0.029	0.021	<0.002	0.004	<0.002	<0.002	0.015	<0.002	0.007	0.008	0.002	0.011
Co mg/l	None	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.005	0.003	0.002	0.002
Li mg/l	None	0.002	<0.001	0.002	<0.001	<0.001	<0.001	0.001	0.001	0.002	<0.001	<0.001	<0.001	0.001	0.001	0.001
Ni mg/l	0.07	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
Pb mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Zn mg/l	5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
COD mg/l	None	54.1	7.32	37.7	18.3	60.5	6.74	58.6	26.4	36.7	13.1	63.6	96.9	57.9	40.6	40
DO mg/l	None	5.99	5	7.22	8.21	3.49	3.53	6.82	9.58	9.6	6.57	13.4	8.05	9.34	8.67	7.29
SAR SAR	None	0.35	0.17	0.36	0.2	0.02	0.3	0.48	0.49	0.39	0.4	0.73	0.73	0.62	0.45	0.39
SS mg/l	None	8	22	49	9	<4.46	16	<4.46	11	13	5	12	13	10	8.7	14
total coliforms CFU/100ml	10	1	50	3	<1	19	8	370	10	<1	<1	<1	<1	1	127	39
E.coli CFU/100ml	0	<1	<1	<1	<1	2	<1	60	<1	<1	<1	<1	<1	1	20	6
faecal coliform CFU/100ml	0	-	-	<1	<1	16	7	60	<1	<1	<1	<1	<1	1	20	9



Graphs only illustrate trends

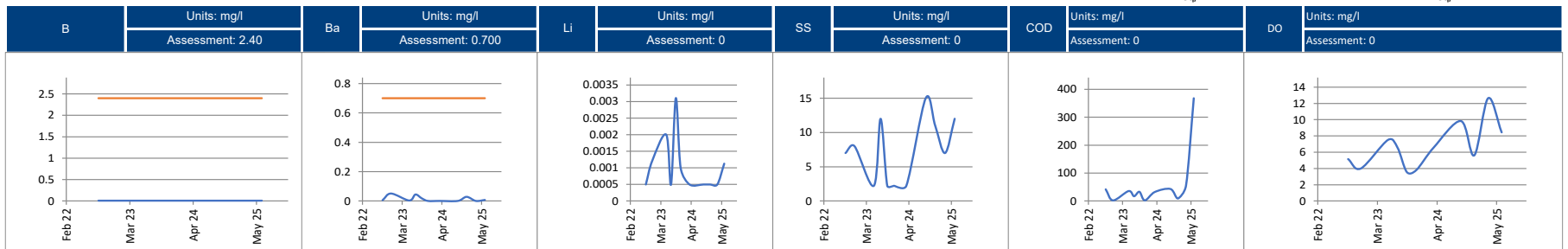
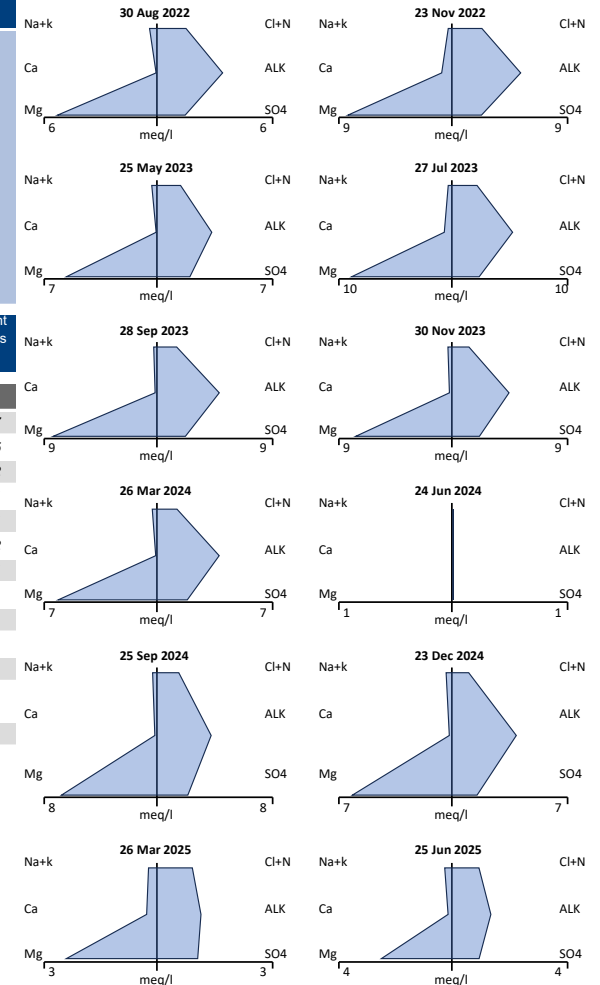


SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON03
LOCALITY DESCRIPTION	Borehole North of Ash Dump - North Western Perimeter
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS MON03



Graphs only illustrate trends

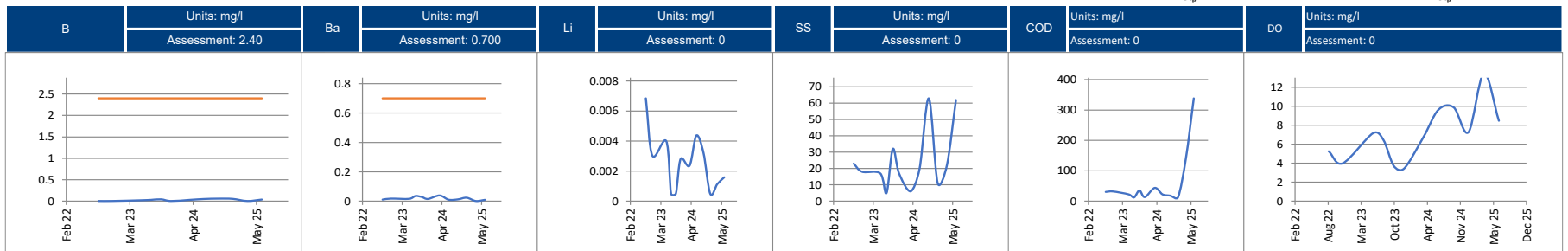
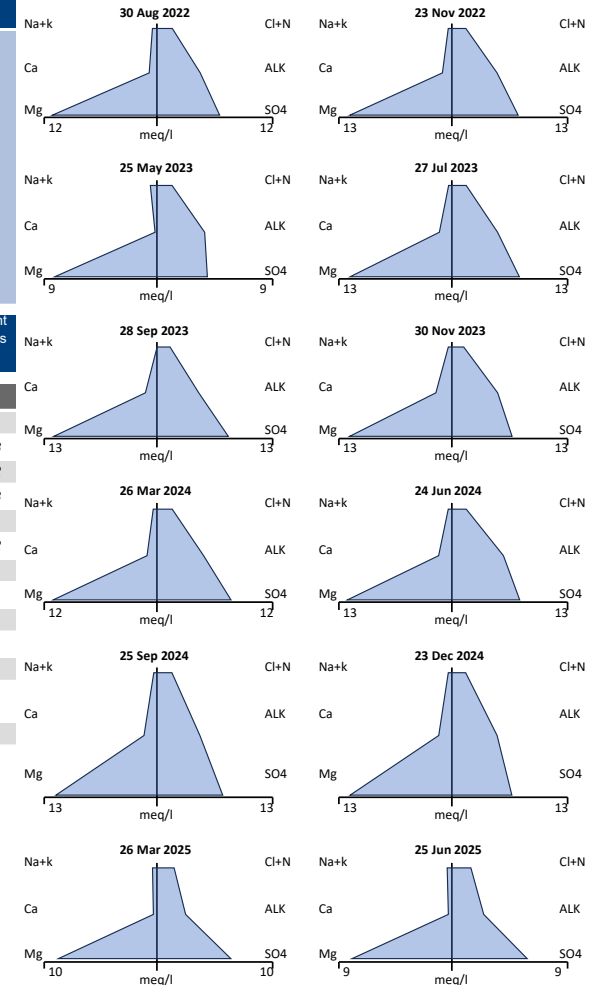


SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON04
LOCALITY DESCRIPTION	Borehole on Western Perimeter between the Ash Dump and Ash I
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS MON04



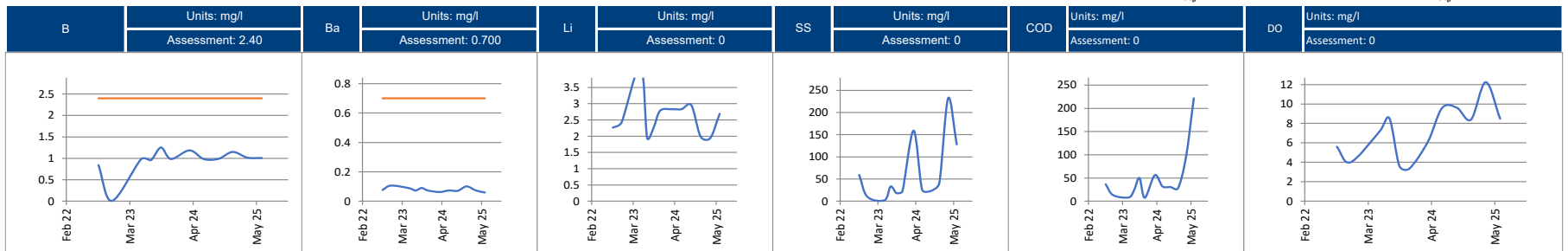
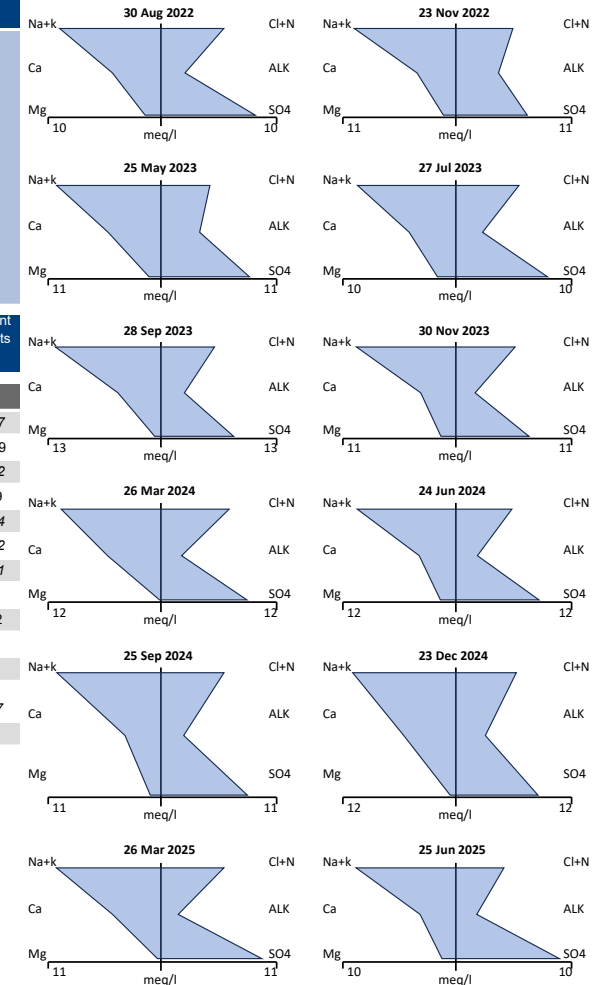
Graphs only illustrate trends

SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON05
LOCALITY DESCRIPTION	Borehole on Southern Perimeter on southern toe of Ash Dam A
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-se-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
B mg/l	2.4	0.841	<0.013	0.976	0.958	1.25	0.985	1.19	0.983	0.989	1.15	1.02	1.01	1.06	1.05	0.947
Ba mg/l	0.7	0.077	0.107	0.089	0.073	0.09	0.073	0.062	0.073	0.071	0.102	0.073	0.059	0.078	0.069	0.079
Co mg/l	None	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	0.004	0.003	0.002	0.002
Li mg/l	None	2.26	2.43	4.17	1.95	2.26	2.79	2.83	2.83	2.95	1.99	1.94	2.69	2.21	2.87	2.59
Ni mg/l	0.07	<0.002	<0.002	0.031	<0.002	<0.002	<0.002	0.004	<0.002	<0.002	<0.002	<0.002	0.009	0.004	0.002	0.004
Pb mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Zn mg/l	5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
COD mg/l	None	36.3	13	7.96	23.1	49.9	7.23	56	31.8	30.5	28	95.1	222	115	39.4	50.1
DO mg/l	None	5.6	4	7.15	8.53	3.64	3.35	6.11	9.59	9.61	8.39	12.2	8.48	9.69	8.44	7.22
SAR SAR	None	4.67	5.49	5.1	4.57	6.37	5.42	5.49	5.49	5.86	5.54	5.63	5.26	5.48	5.61	5.41
SS mg/l	None	59	10	<4.46	33	18	23	159	26	23	41	232	128	134	69	63
Total coliforms CFU/100ml	10	33	<1	1	2	<1	<1	17000	130	5000	61	170	<1	77	7377	1867
E.coli CFU/100ml	0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1	1
Faecal coliform CFU/100ml	0	-	-	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	1	1	1



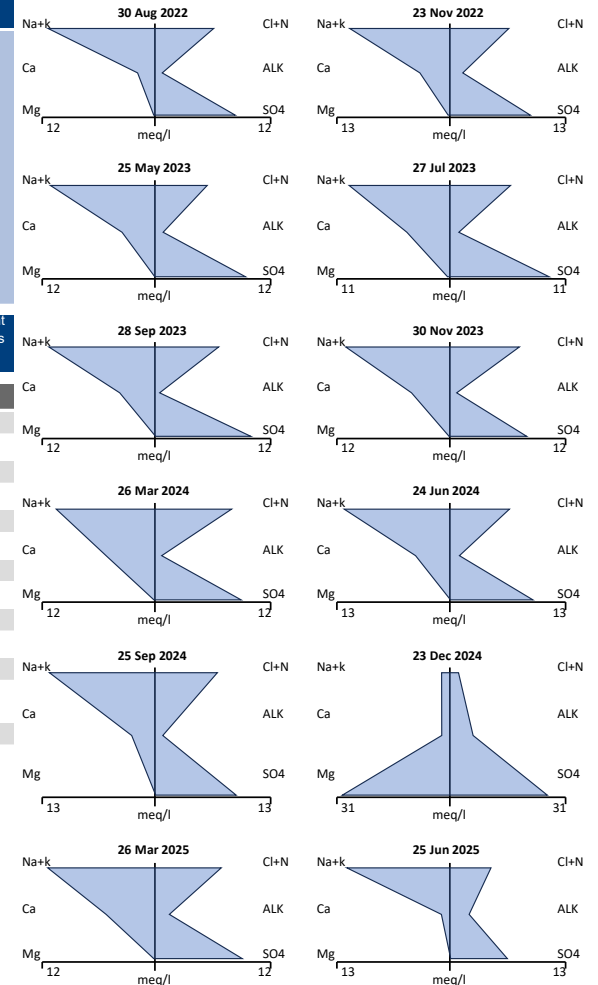
Graphs only illustrate trends



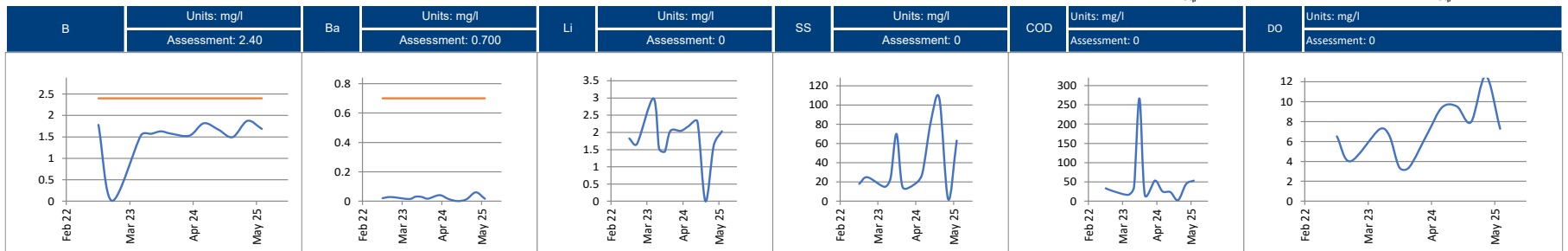
SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON06
LOCALITY DESCRIPTION	Between Ash Dam A and Southern Coal Stockpile
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality KPS MON06



Variable	Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
B mg/l	2.4	1.78	<0.013	1.54	1.57	1.63	1.57	1.53	1.82	1.67	1.49	1.87	1.68	1.67	1.51
Ba mg/l	0.7	0.021	0.029	0.015	0.031	0.03	0.018	0.042	0.015	<0.002	0.014	0.061	0.017	0.031	0.019
Co mg/l	None	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
Li mg/l	None	1.83	1.67	2.99	1.53	1.44	2.05	2.05	2.19	2.32	<0.001	1.62	2.04	1.22	2.19
Ni mg/l	0.07	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002	0.112	<0.002	<0.002	0.038	0.002
Pb mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Zn mg/l	5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
COD mg/l	None	33.5	26.2	16.7	36.8	267	16.8	53.5	25.4	23.6	<5.1	44.2	53.4	33.4	50
DO mg/l	None	6.51	4	7.21	6.58	3.38	3.41	6.86	9.43	9.52	7.94	12.6	7.27	9.27	7.06
SAR SAR	None	9.68	7.53	7.38	5.82	7.32	6.68	5.71	7.52	9.1	0.64	6.22	14.15	7	7.44
SS mg/l	None	18	25	15	24	70	15	17	28	83	107	<4.46	63	57	39
Total coliforms CFU/100ml	10	3	130	4	360	1	<1	<1	<1	<1	30	13	<1	15	45
E.coli CFU/100ml	0	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1	1
faecal coliform CFU/100ml	0	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	1	1



Graphs only illustrate trends

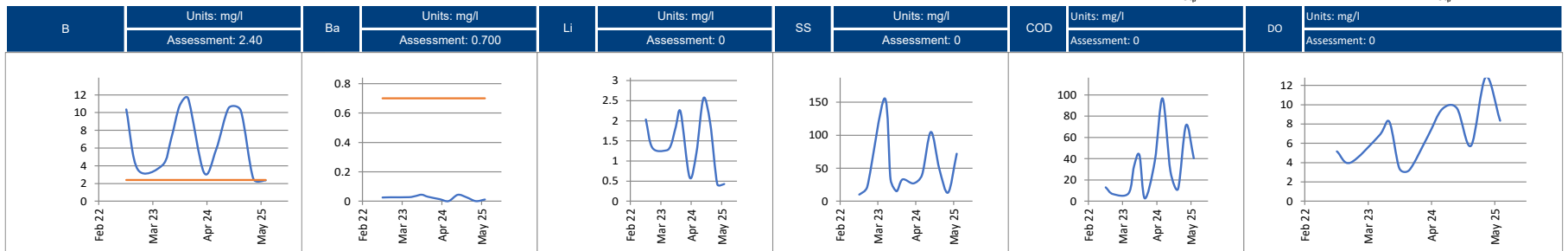
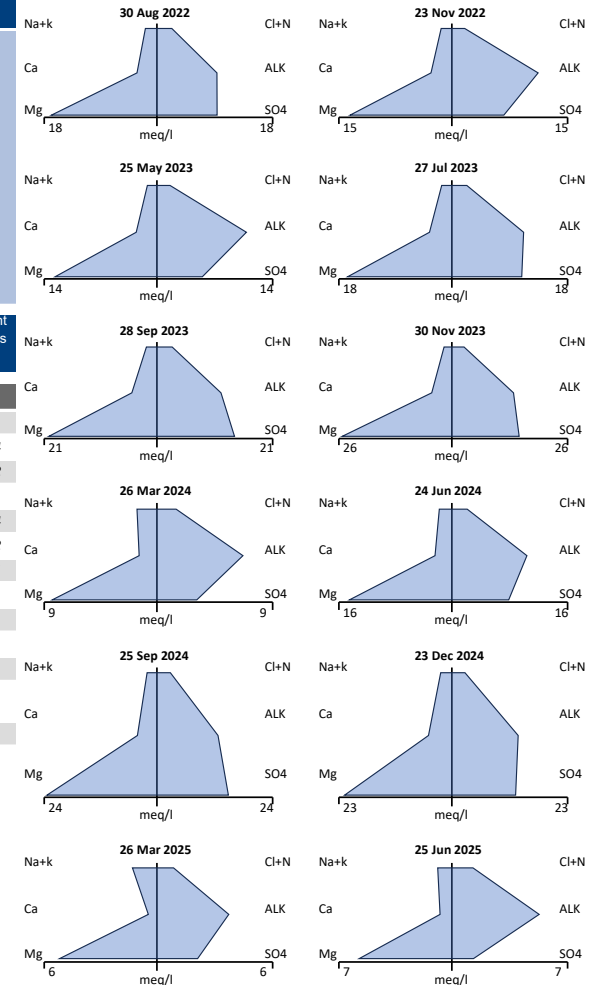


SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS MON07
LOCALITY DESCRIPTION	Borehole South East of Southern Coal Stockpile
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS MON07



Graphs only illustrate trends

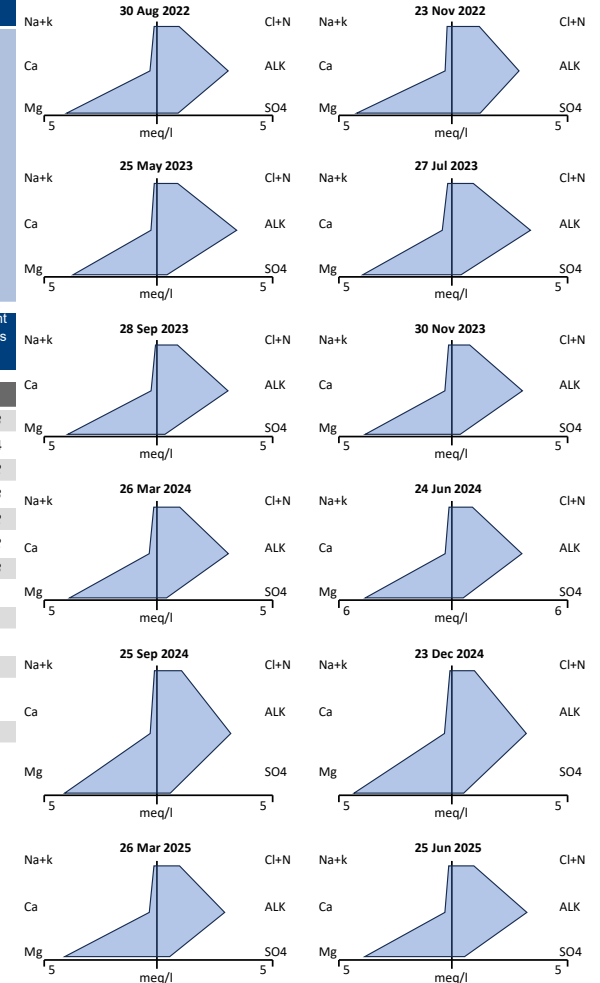


SITE REPORT

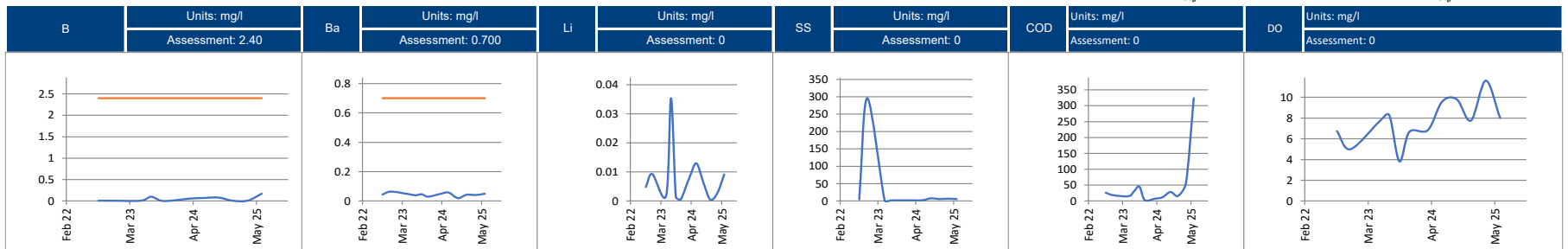
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON09
LOCALITY DESCRIPTION	Background deep
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS-MON09



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
B mg/l	2.4	<0.013	<0.013	<0.013	0.098	<0.013	<0.013	0.055	0.07	0.079	<0.013	<0.013	0.168	0.06	0.068	0.043
Ba mg/l	0.7	0.044	0.064	0.046	0.039	0.046	0.03	0.047	0.057	0.02	0.043	0.041	0.049	0.044	0.041	0.044
Co mg/l	None	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	0.002	0.002	0.002
Li mg/l	None	0.005	0.009	0.002	0.035	0.002	<0.001	0.008	0.013	0.006	<0.001	0.003	0.009	0.004	0.009	0.008
Ni mg/l	0.07	<0.002	0.012	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.002
Pb mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Zn mg/l	5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.008	0.022	<0.002	0.01	0.001	0.003
COD mg/l	None	25.9	18.1	14.8	30.3	45.1	<5.1	6.8	11.4	28.2	15.5	57.3	324	132	15.5	48.3
DO mg/l	None	6.75	5	7.67	8.25	3.82	6.67	6.84	9.59	9.8	7.76	11.6	8	9.12	8.74	7.65
SAR SAR	None	0.11	0.17	0.12	0.14	0.09	0.12	0.14	0.12	0.11	0.08	0.12	0.13	0.11	0.12	0.12
SS mg/l	None	5	296	<4.46	<4.46	<4.46	<4.46	<4.46	<4.46	8	6	7	6	6.3	4.2	28
Total coliforms CFU/100ml	10	<1	<1	7	53	3	7	15	3	2	1	<1	<1	1	7	8
E.coli CFU/100ml	0	<1	<1	2	<1	<1	<1	1	<1	<1	1	<1	<1	1	1	1
faecal coliform CFU/100ml	0	-	-	2	<1	<1	1	1	3	<1	1	<1	<1	1	2	1



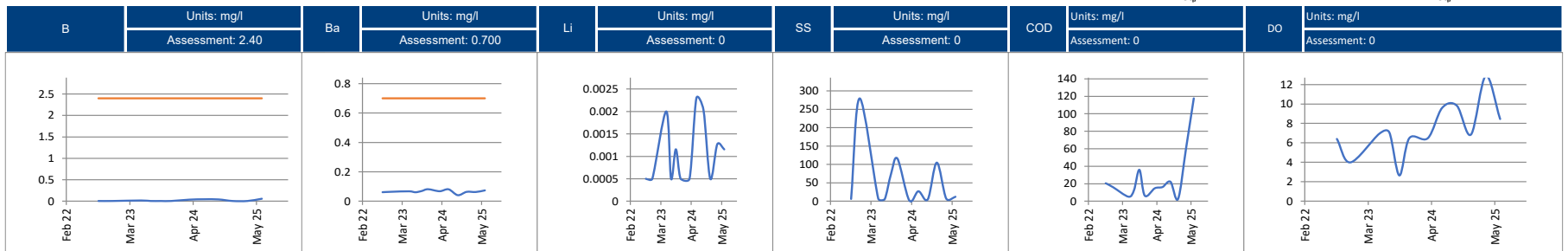
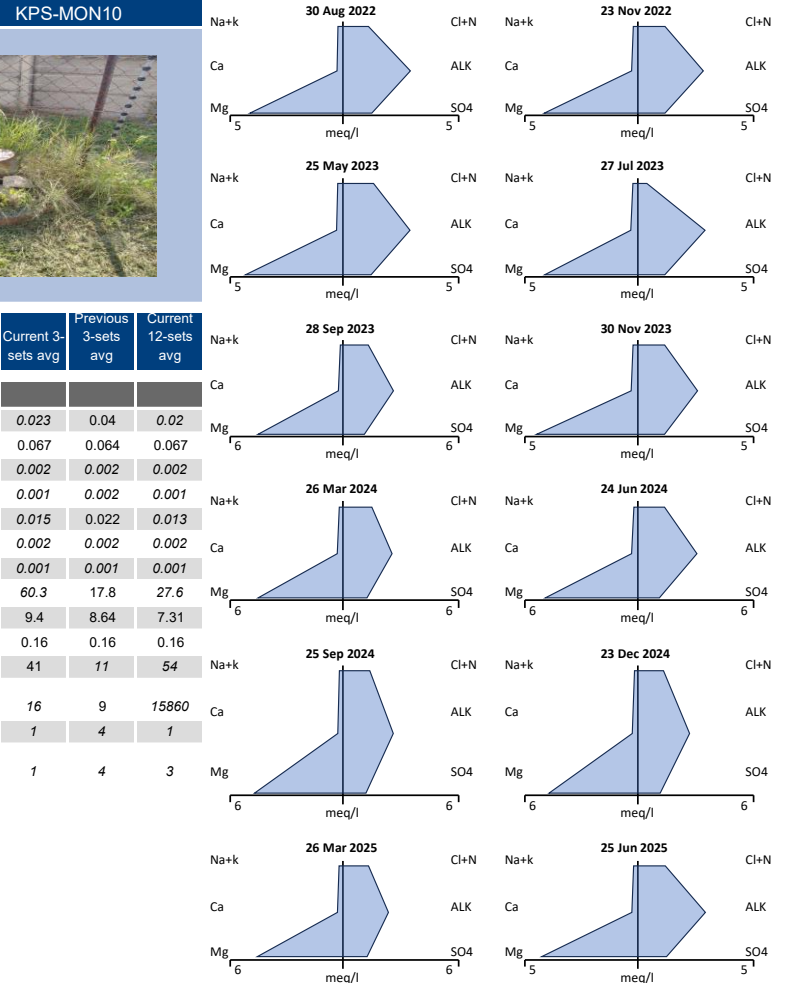
Graphs only illustrate trends



SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON10
LOCALITY DESCRIPTION	Background shallow
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality



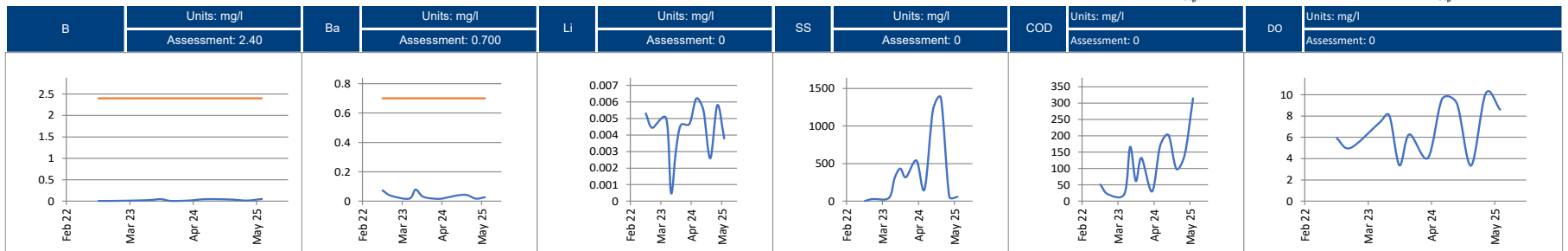
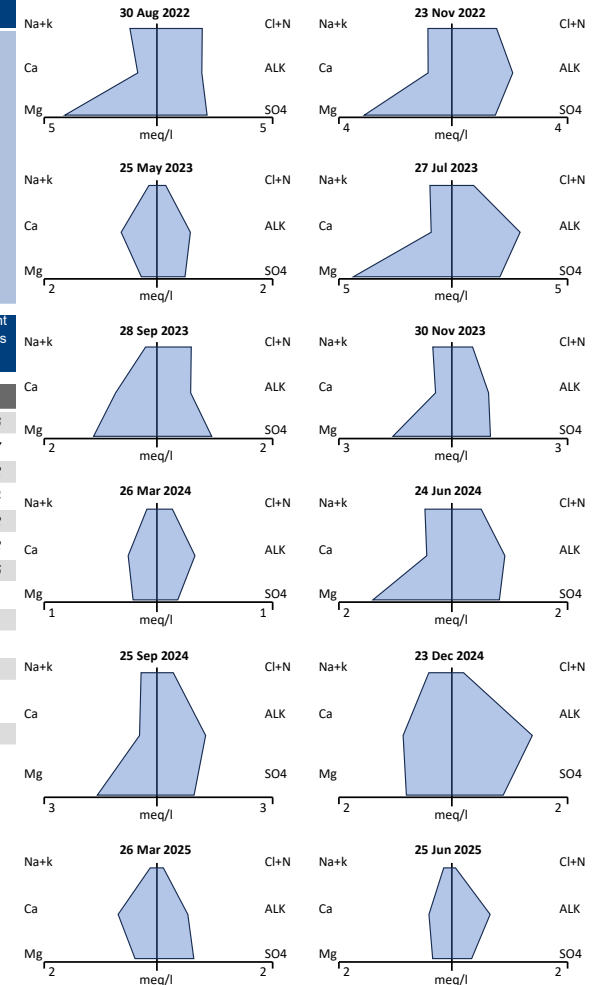
Graphs only illustrate trends



SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON11
LOCALITY DESCRIPTION	Fuel storage
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality KPS-MON11



Graphs only illustrate trends



SITE REPORT

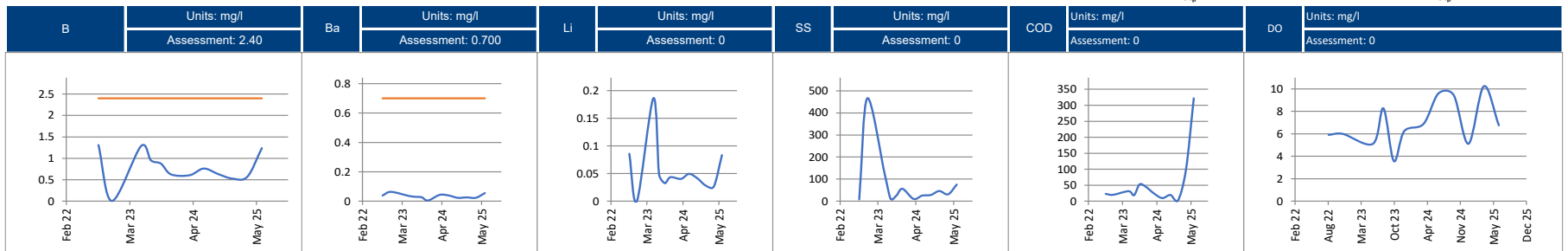
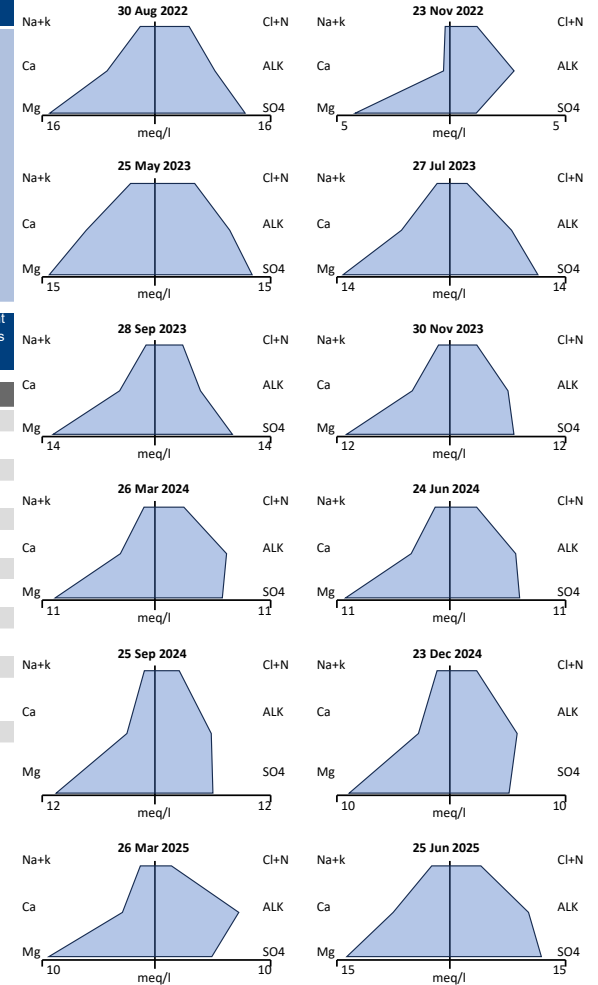
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON12
LOCALITY DESCRIPTION	HFO storage
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS-MON12



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
B mg/l	2.4	1.31	<0.013	1.28	0.951	0.875	0.626	0.605	0.761	0.629	0.526	0.572	1.24	0.779	0.665	0.782
Ba mg/l	0.7	0.04	0.064	0.036	0.031	0.028	0.005	0.044	0.04	0.024	0.027	0.024	0.056	0.036	0.036	0.035
Co mg/l	None	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.006	0.003	0.002	0.002
Li mg/l	None	0.086	<0.001	0.186	0.048	0.033	0.043	0.04	0.049	0.041	0.029	0.026	0.083	0.046	0.043	0.055
Ni mg/l	0.07	<0.002	0.013	0.162	<0.002	<0.002	0.012	0.02	0.005	0.011	0.009	0.003	0.059	0.024	0.012	0.025
Pb mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.011	<0.004	<0.004	<0.004	<0.004	0.036	0.013	0.005	0.006
Zn mg/l	5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.012	0.005	0.001	0.002
COD mg/l	None	22.9	19.9	31.2	18.7	52.2	47.4	22.2	9.61	19.5	<5.1	99.3	322	141	17.1	55.6
DO mg/l	None	5.91	6	5.12	8.27	3.58	6.24	6.89	9.6	9.44	5.12	10.2	6.76	7.36	8.64	6.93
SAR SAR	None	0.66	0.17	0.95	0.53	0.41	0.46	0.46	0.56	0.46	0.49	0.49	0.72	0.57	0.49	0.53
SS mg/l	None	8	466	125	11	26	56	10	25	28	46	31	75	51	21	76
total coliforms CFU/100ml	10	<1	6	40	3	<1	<1	1	<1	<1	<1	<1	<1	1	1	5
E.coli CFU/100ml	0	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	1	1	1
raecal coliform CFU/100ml	0	-	-	35	<1	<1	<1	1	<1	<1	<1	<1	<1	1	1	4



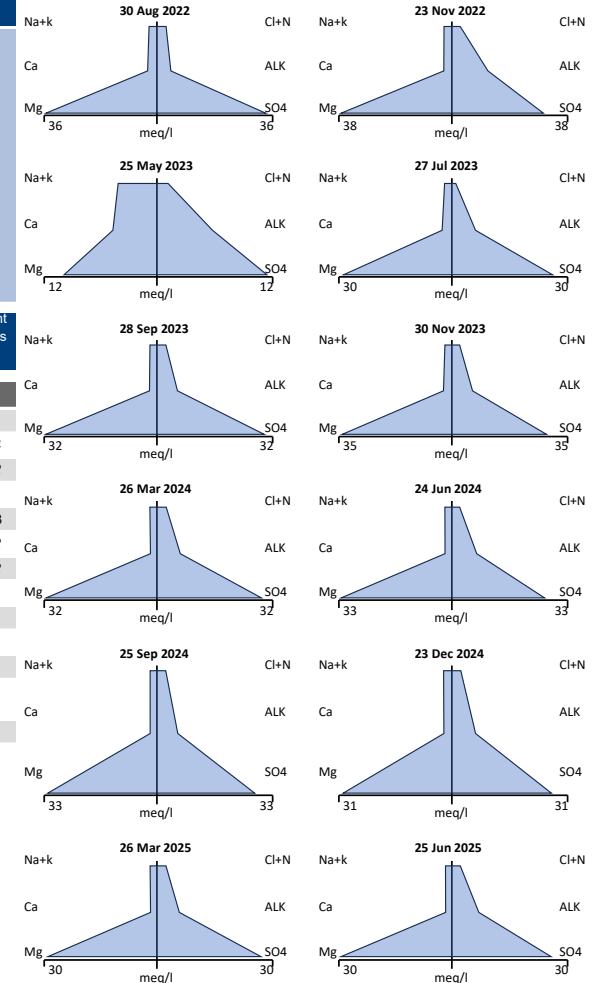
Graphs only illustrate trends

SITE REPORT

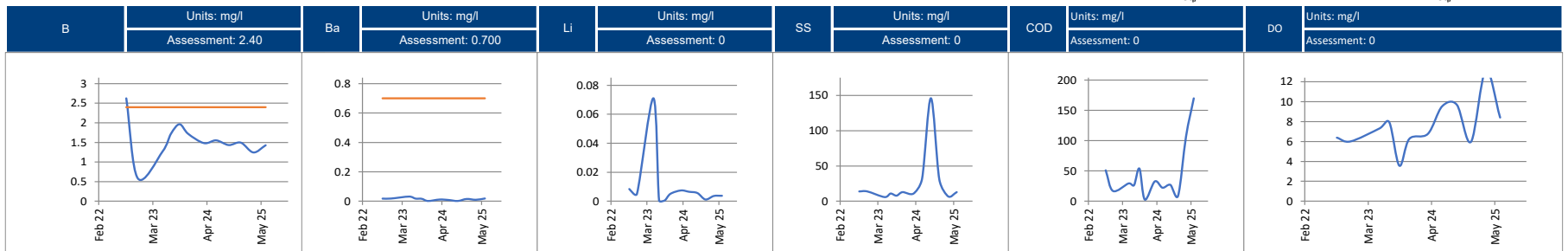
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON13
LOCALITY DESCRIPTION	Brick Yard
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS-MON13



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
B mg/l	2.4	2.63	0.586	1.27	1.73	1.96	1.72	1.48	1.55	1.43	1.5	1.25	1.43	1.39	1.49	1.54
Ba mg/l	0.7	0.017	0.018	0.031	0.017	0.016	<0.002	0.011	0.008	<0.002	0.015	0.009	0.018	0.014	0.007	0.014
Co mg/l	None	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.004	0.002	0.002	0.002
Li mg/l	None	0.008	0.005	0.071	<0.001	<0.001	0.005	0.007	0.006	0.006	0.001	0.004	0.004	0.003	0.006	0.01
Ni mg/l	0.07	0.146	0.249	0.14	0.072	0.068	0.117	0.155	0.134	0.139	0.108	0.102	0.111	0.107	0.143	0.128
Pb mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Zn mg/l	5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.015	<0.002	0.006	0.001	0.002
COD mg/l	None	51	16.8	29.3	26.3	53.9	<5.1	32.6	22.2	26.9	8.76	107	170	95.3	27.2	45.6
DO mg/l	None	6.38	6	7.3	7.91	3.56	6.26	6.76	9.53	9.68	5.96	13.2	8.4	9.19	8.66	7.58
SAR SAR	None	0.65	0.67	1.54	0.56	0.56	0.59	0.58	0.57	0.57	0.64	0.55	0.51	0.57	0.57	0.67
SS mg/l	None	14	14	6	11	8	13	11	32	146	31	7	13	17	63	26
total coliforms CFU/100ml	10	<1	5	4	<1	5	1	45	<1	<1	7	<1	<1	3	15	6
E.coli CFU/100ml	0	<1	<1	<1	<1	<1	<1	3	<1	<1	<1	<1	<1	1	1	1
raecal coliform CFU/100ml	0	-	-	1	<1	<1	<1	3	<1	<1	<1	<1	<1	1	1	1



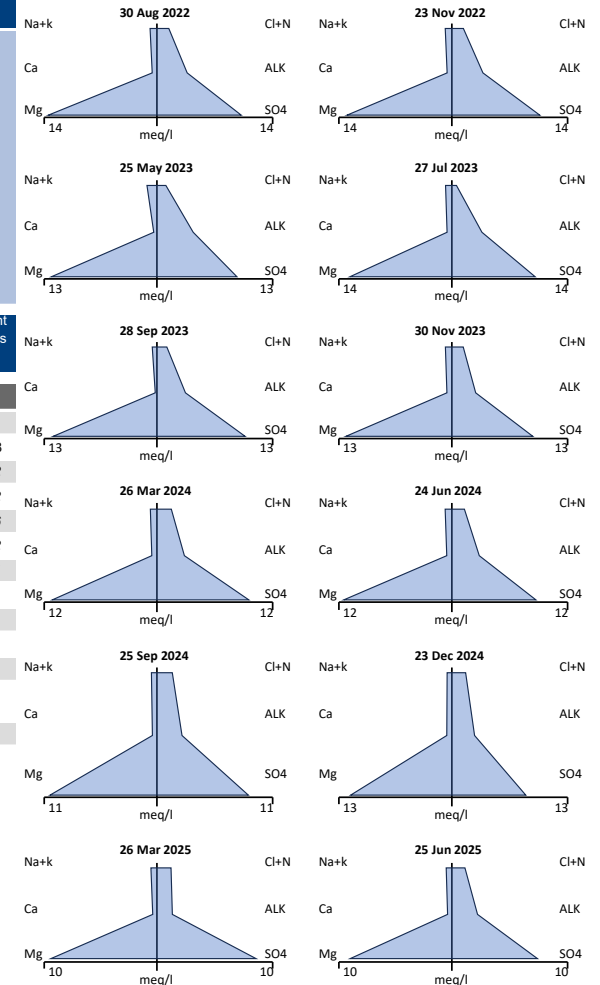
Graphs only illustrate trends

SITE REPORT

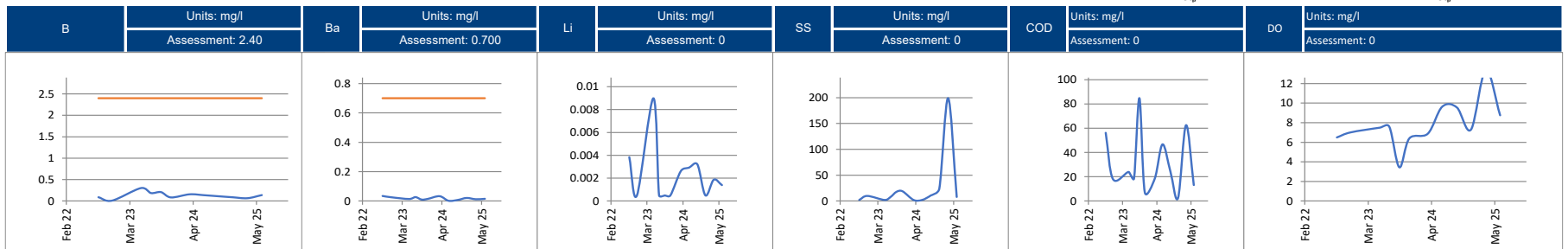
PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON14
LOCALITY DESCRIPTION	Switch yard
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality

KPS-MON14



Variable	Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
B mg/l	2.4	0.087	<0.013	0.302	0.185	0.207	0.082	0.155	0.135	0.11	0.086	0.137	0.096	0.133	0.13
Ba mg/l	0.7	0.034	0.025	0.014	0.026	0.01	0.015	0.032	0.002	0.008	0.021	0.012	0.015	0.016	0.018
Co mg/l	None	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.002	0.002	0.002
Li mg/l	None	0.004	<0.001	0.009	<0.001	<0.001	<0.001	0.003	0.003	0.003	<0.001	0.002	0.001	0.001	0.002
Ni mg/l	0.07	<0.002	0.013	0.022	<0.002	<0.002	0.003	0.011	<0.002	0.005	<0.002	0.005	0.005	0.006	0.006
Pb mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Zn mg/l	5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
COD mg/l	None	56.2	18.1	24	18.6	84.8	7.25	18.6	46.7	24.2	<5.1	62.5	13.2	26.1	31.4
DO mg/l	None	6.49	7	7.48	7.57	3.44	6.39	6.88	9.62	9.55	7.29	13.4	8.75	9.81	7.82
SAR SAR	None	0.37	0.37	0.51	0.35	0.28	0.34	0.35	0.33	0.28	0.27	0.29	0.28	0.28	0.34
SS mg/l	None	<4.46	10	<4.46	8	18	19	<4.46	<4.46	11	24	199	8	77	25
Total coliforms CFU/100ml	10	<1	2	<1	<1	3	4	110	10	4	<1	51	10	21	41
E.coli CFU/100ml	0	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	1	1	1
Faecal coliform CFU/100ml	0	-	-	<1	<1	<1	1	4	<1	<1	<1	<1	1	2	1



Graphs only illustrate trends

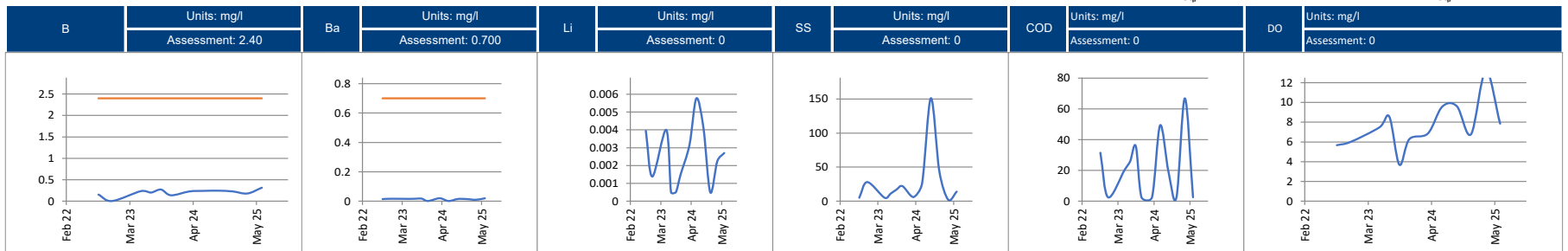
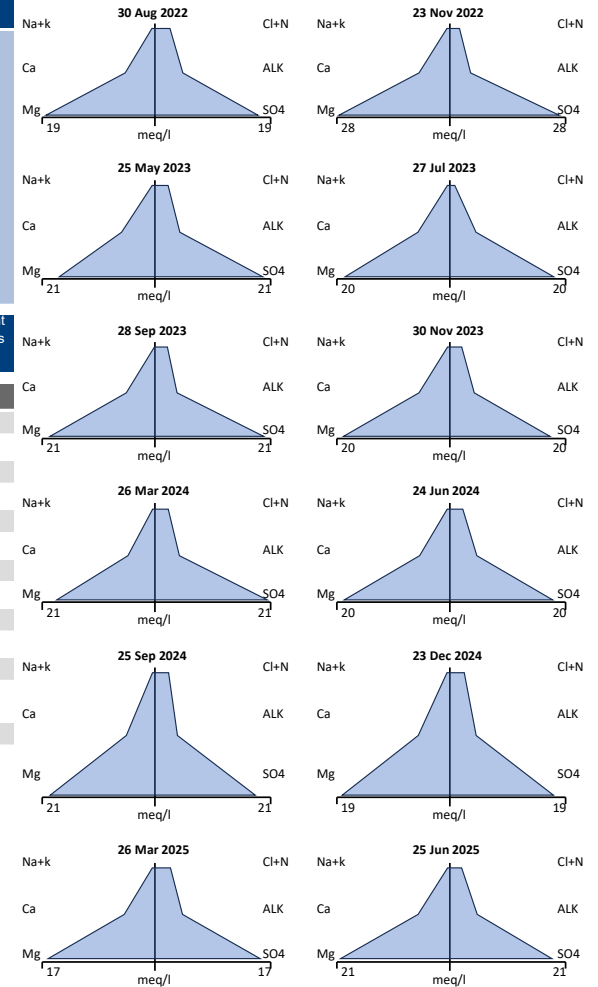
SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-MON16
LOCALITY DESCRIPTION	Clinker dump (replace KPS-MON03)
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Locality KPS-MON16



Variable		Aug 2022	Nov 2022	May 2023	Jul 2023	Sep 2023	Nov 2023	Mar 2024	Jun 2024	Sep 2024	Dec 2024	Mar 2025	Jun 2025	Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
B mg/l	2.4	0.157	<0.013	0.237	0.203	0.273	0.14	0.23	0.243	0.247	0.23	0.182	0.316	0.243	0.24	0.205
Ba mg/l	0.7	0.015	0.017	0.016	0.017	0.018	<0.002	0.02	<0.002	0.015	0.015	0.01	0.02	0.015	0.012	0.014
Co mg/l	None	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.007	0.003	0.002	0.002
Li mg/l	None	0.004	0.001	0.004	<0.001	<0.001	0.001	0.003	0.006	0.004	<0.001	0.002	0.003	0.002	0.004	0.002
Ni mg/l	0.07	<0.002	0.007	0.088	<0.002	<0.002	<0.002	0.017	0.005	0.013	<0.002	0.005	0.017	0.008	0.012	0.013
Pb mg/l	0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002	0.002	0.002
Zn mg/l	5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	0.001	0.001
COD mg/l	None	31.5	<5.1	20.2	25.9	35.8	<5.1	<5.1	49.4	19.2	<5.1	66.9	<5.1	24	23.7	21.8
DO mg/l	None	5.68	6	7.48	8.55	3.7	6.29	6.86	9.57	9.62	6.78	13.2	7.86	9.28	8.68	7.63
SAR SAR	None	0.21	0.25	0.22	0.18	0.1	0.18	0.2	0.2	0.2	0.2	0.19	0.19	0.19	0.2	0.19
SS mg/l	None	5	28	5	11	17	22	6	26	151	44	<4.46	14	20	61	28
total coliforms CFU/100ml	10	1	6	7	<1	2	<1	<1	<1	80	14	21	<1	12	27	11
E.coli CFU/100ml	0	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	1	1	1
raecal coliform CFU/100ml	0	-	-	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	1	1	1



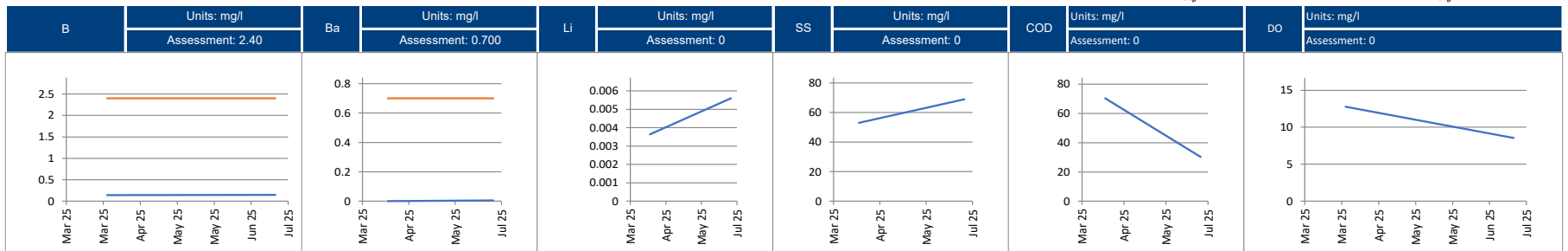
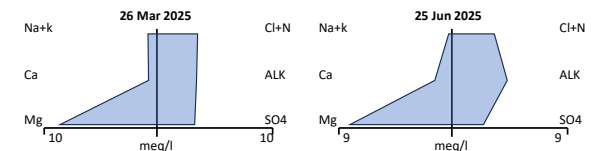
Graphs only illustrate trends



SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-NBH01
LOCALITY DESCRIPTION	Newly drilled monitoring borehole - Mar 2025
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Variable	Mar 2025	Jun 2025												Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes														
B mg/l	2.4	0.141	0.149											0.145		0.145
Ba mg/l	0.7	<0.002	0.005											0.003		0.003
Co mg/l	None	<0.003	<0.003											0.002		0.002
Li mg/l	None	0.004	0.006											0.005		0.005
Ni mg/l	0.07	<0.002	0.016											0.009		0.009
Pb mg/l	0.01	<0.004	<0.004											0.002		0.002
Zn mg/l	5	<0.002	<0.002											0.001		0.001
COD mg/l	None	70.4	30.2											50.3		50.3
DO mg/l	None	12.8	8.55											10.7		10.7
SAR SAR	None	0.4	0.16											0.28		0.28
SS mg/l	None	53	69											61		61
Total coliforms CFU/100ml	10	200	<1											100		100
E.coli CFU/100ml	0	<1	<1											1		1
Faecal coliform CFU/100ml	0	1	<1											1		1



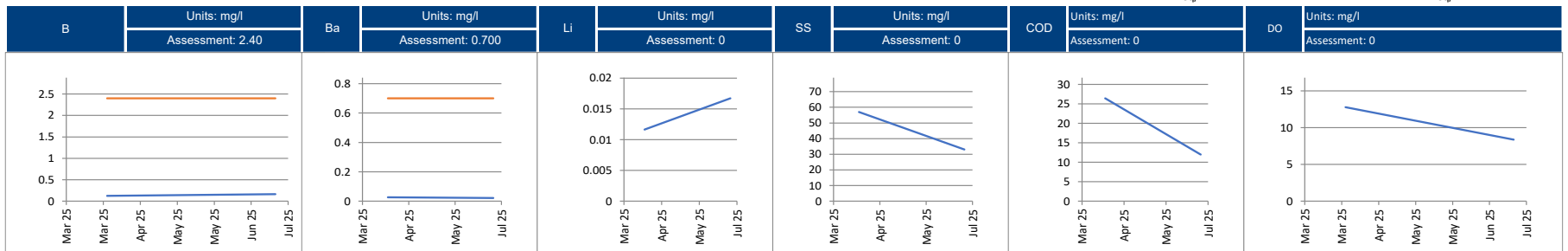
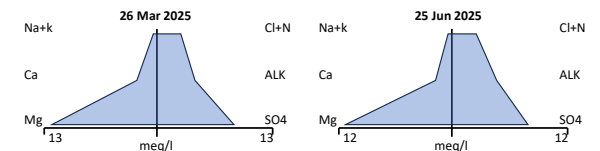
Graphs only illustrate trends



SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-NBH02
LOCALITY DESCRIPTION	Newly drilled monitoring borehole - Mar 2025
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Variable	Mar 2025	Jun 2025												Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes														
B mg/l	2.4	0.126	0.167											0.147		0.147
Ba mg/l	0.7	0.026	0.022											0.024		0.024
Co mg/l	None	<0.003	<0.003											0.002		0.002
Li mg/l	None	0.012	0.017											0.015		0.015
Ni mg/l	0.07	0.003	0.007											0.005		0.005
Pb mg/l	0.01	<0.004	<0.004											0.002		0.002
Zn mg/l	5	<0.002	<0.002											0.001		0.001
COD mg/l	None	26.4	12											19.2		19.2
DO mg/l	None	12.8	8.37											10.6		10.6
SAR SAR	None	0.21	0.21											0.21		0.21
SS mg/l	None	57	33											45		45
Total coliforms CFU/100ml	10	80	<1											40		40
E.coli CFU/100ml	0	<1	<1											1		1
Faecal coliform CFU/100ml	0	<1	<1											1		1



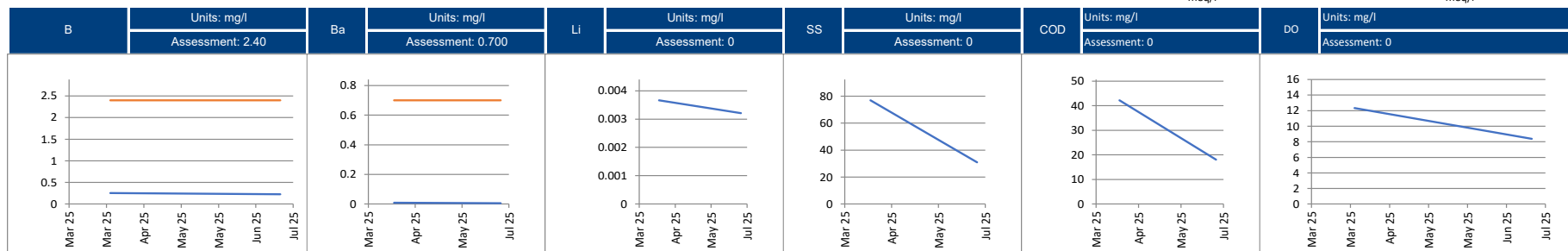
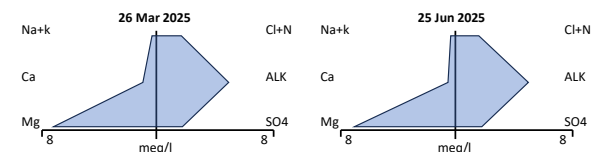
Graphs only illustrate trends



SITE REPORT

PROJECT NAME	Kelvin Powers Groundwater Monitoring
LOCALITY NAME	KPS-NBH03
LOCALITY DESCRIPTION	Newly drilled monitoring borehole - Mar 2025
LOCALITY TYPE	Borehole
ASSESSMENT SET	SANS 241-1:2015 Drinking Water Standard (SABS, 2015)

Variable	Mar 2025	Jun 2025												Current 3-sets avg	Previous 3-sets avg	Current 12-sets avg
Status	Yes	Yes														
B mg/l	2.4	0.254	0.227											0.241		0.241
Ba mg/l	0.7	0.008	0.005											0.007		0.007
Co mg/l	None	<0.003	<0.003											0.002		0.002
Li mg/l	None	0.004	0.003											0.004		0.004
Ni mg/l	0.07	<0.002	<0.002											0.001		0.001
Pb mg/l	0.01	<0.004	<0.004											0.002		0.002
Zn mg/l	5	<0.002	<0.002											0.001		0.001
COD mg/l	None	42.2	18.1											30.2		30.2
DO mg/l	None	12.3	8.37											10.3		10.3
SAR SAR	None	0.18	0.2											0.19		0.19
SS mg/l	None	77	31											54		54
Total coliforms CFU/100ml	10	<1	<1											1		1
E.coli CFU/100ml	0	<1	<1											1		1
Faecal coliform CFU/100ml	0	<1	<1											1		1



Graphs only illustrate trends

APPENDIX C

Laboratory Test Report



Test Report

Page 1 of 16

Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275451	275443	275437	275454	275440	275449	275455
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON13	KPS MON04	KPS BH04	KPS-NBH01	KPS MON01	KPS-MON11	KPS-NBH02
Analyses					Unit	Method					
A	AQL	pH @ 25°C	pH	ALM 20	7.02	8.95	7.79	7.95	8.03	7.07	8.09
A	AQL	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	237	77.2	104	94.3	86.1	10.9	119
A	AQL	Total dissolved solids (TDS)	mg/l	ALM 26	2019	523	712	506	532	71	793
A	AQL	Total Alkalinity	mg CaCO ₃ /l	ALM 01	337	121	332	214	185	32.4	228
A	AQL	Chloride (Cl)	mg/l	ALM 02	53.4	49.1	73.3	115	71.6	0.815	85.1
A	AQL	Sulphate (SO ₄)	mg/l	ALM 03	1236	280	206	115	175	15.6	377
A	AQL	Nitrate (NO ₃) as N	mg/l	ALM 06	5.22	0.216	0.461	0.204	0.458	0.279	0.227
A	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	5.24	0.228	0.474	0.214	0.793	0.288	0.237
A	AQL	Nitrite (NO ₂) as N	mg/l	ALM 07	<0.065	<0.065	<0.065	<0.065	0.335	<0.065	<0.065
A	AQL	Ammonium (NH ₄) as N	mg/l	ALM 05	0.153	0.034	0.053	0.047	0.059	0.029	0.023
A	AQL	Orthophosphate (PO ₄) as P	mg/l	ALM 12	<0.009	<0.009	<0.009	<0.009	<0.009	0.029	0.052
A	AQL	Fluoride (F)	mg/l	ALM 08	<0.263	<0.263	<0.263	<0.263	<0.263	<0.263	<0.263
A	AQL	Calcium (Ca)	mg/l	ALM 30	39.6	7.56	51.8	29.0	7.39	8.42	37.3
A	AQL	Magnesium (Mg)	mg/l	ALM 30	358	96.7	112	99.0	50.4	4.31	137
A	AQL	Sodium (Na)	mg/l	ALM 30	46.1	10.8	16.1	8.05	95.9	3.53	12.5
A	AQL	Potassium (K)	mg/l	ALM 30	<0.015	<0.015	0.309	<0.015	7.28	0.342	<0.015
A	AQL	Aluminium (Al)	mg/l	ALM 31	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
A	AQL	Iron (Fe)	mg/l	ALM 31	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
A	AQL	Manganese (Mn)	mg/l	ALM 31	<0.001	<0.001	<0.001	0.073	0.288	0.017	0.085
A	AQL	Chromium (Cr)	mg/l	ALM 31	0.015	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
A	AQL	Hexavalent chromium (Cr ⁶⁺)	mg/l	ALM 09	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
A	AQL	Copper (Cu)	mg/l	ALM 31	0.098	0.040	0.045	0.041	0.017	<0.002	0.054
A	AQL	Nickel (Ni)	mg/l	ALM 31	0.111	0.003	0.003	0.016	0.015	<0.002	0.007
A	AQL	Zinc (Zn)	mg/l	ALM 31	<0.002	<0.002	<0.002	<0.002	<0.002	0.196	<0.002
A	AQL	Cobalt (Co)	mg/l	ALM 31	0.004	0.006	0.006	<0.003	0.003	0.004	<0.003

A = Accredited N = Not accredited Sub = Sub-contracted NR = Not requested RTF = Results to follow NATD = Not able to determine ATR = Alternative test report ; Results relate only to the items sampled and tested ; Results reported against the limit of detection; Results marked "Not SANAS Accredited" in this report are not covered by the Scope of Accreditation for this laboratory; Uncertainty of measurement available on request for all methods included in the SANAS Schedule of Accreditation; The report shall not be reproduced except in full without approval of the laboratory

M. Swanepoel
Technical Signatory

Test Report

Page 2 of 16

Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275451	275443	275437	275454	275440	275449	275455
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON13	KPS MON04	KPS BH04	KPS-NBH01	KPS MON01	KPS-MON11	KPS-NBH02
Analyses					Unit	Method					
A	AQL	Cadmium (Cd)	mg/l	ALM 31	0.003	0.002	0.006	0.002	<0.002	<0.002	0.002
A	AQL	Lead (Pb)	mg/l	ALM 31	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
A	AQL	Total hardness	mg CaCO ₃ /l	ALM 26	1572	417	590	480	226	39	659
A	AQL	Sodium Adsorption Ratio	SAR	ALM 26	0.51	0.23	0.29	0.16	2.77	0.25	0.21
A	AQL	Chemical oxygen demand (COD)	mg/l	ALM 10	170	338	151	30.2	126	315	12.0
A	AQL	Total suspended solids (TSS)	mg/l	ALM 25	13	62	48	69	14	58	33
N	AQL	Dissolved oxygen (DO)	mg/l	ALM 28	8.40	8.47	8.53	8.55	8.34	8.60	8.37
A	AQL	Silicon (Si)	mg/l	ALM 33	21.3	1.57	17.8	3.37	3.56	6.22	1.48
A	AQL	Boron (B)	mg/l	ALM 33	1.43	0.039	0.142	0.149	0.115	0.049	0.167
A	AQL	Barium (Ba)	mg/l	ALM 33	0.018	0.009	0.045	0.005	0.009	0.027	0.022
N	AQL	Lithium (Li)	mg/l	ALM 32	0.004	0.002	0.003	0.006	<0.001	0.004	0.017
A	AQL	Vanadium (V)	mg/l	ALM 33	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
A	AQL	Bicarbonate alkalinity	mg CaCO ₃ /l	ALM 26	337	111	330	212	183	32.3	225
A	AQL	Carbonate alkalinity	mg CaCO ₃ /l	ALM 26	0.332	9.29	1.91	1.78	1.85	0.036	2.61
A	AQL	Hydroxide alkalinity	mg CaCO ₃ /l	ALM 26	0.01	0.45	0.03	0.05	0.05	0.01	0.06
A	AQL	TPH C10 - C40	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	259
A	AQL	C10 - C16	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0
A	AQL	C16 - C22	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	114
A	AQL	C22 - C30	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	144
A	AQL	C30 - C40	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0
N	AQL	Benzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Toluene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Ethylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	m+p-Xylene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	o-Xylene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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Test Report

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Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275451	275443	275437	275454	275440	275449	275455
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON13	KPS MON04	KPS BH04	KPS-NBH01	KPS MON01	KPS-MON11	KPS-NBH02
Analyses					Unit	Method					
N	AQL	Chloroform	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Bromoform	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Dibromochloromethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Bromodichloromethane	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,1,1,2-Tetrachloroethane	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,1,1-Trichloroethane	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,1,2,2-Tetrachloroethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,1,2-Trichloroethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,1-Dichloroethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,1-Dichloroethene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,1-Dichloropropene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2,3-Trichlorobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2,3-Trichloropropane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2,4-Trichlorobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Bromochloromethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2,4-Trimethylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,2-Dibromo-3-chloropropane	µg/l	OLM 05	<150	<150	<150	<150	<150	<150	<150
N	AQL	1,2-Dibromoethane	µg/l	OLM 05	<150	<150	<150	<150	<150	<150	<150
N	AQL	1,2-Dichlorobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2-Dichloroethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2-Dichloropropane	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,3,5-Trimethylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,3-Dichlorobenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,3-Dichloropropane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,4-Dichlorobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0

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Test Report

Page 4 of 16

Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275451	275443	275437	275454	275440	275449	275455
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON13	KPS MON04	KPS BH04	KPS-NBH01	KPS MON01	KPS-MON11	KPS-NBH02
Analyses					Unit	Method					
N	AQL	2,2-Dichloropropane	µg/l	OLM 05	<100	<100	<100	<100	<100	<100	<100
N	AQL	2-Chlorotoluene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	4-Chlorotoluene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Bromobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Carbon tetrachloride	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Chlorobenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	cis-1,2-Dichloroethene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	cis-1,3-Dichloropropene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Dibromomethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Hexachlorobutadiene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Isopropylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Naphthalene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Methylene Chloride	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	n-Butylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	n-Propylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	p-Isopropyltoluene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	sec-Butylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Styrene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	tert-Butylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Tetrachloroethene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	trans-1,2-Dichloroethene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	trans-1,3-Dichloropropene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Trichloroethene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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Test Report

Page 5 of 16

Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275452	275446	275435	275438	275453	275447	275441
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON14	KPS MON07	KPS BH01	KPS BH05	KPS-MON16	KPS-MON09	KPS MON02
Analyses					Unit	Method					
A	AQL	pH @ 25°C	pH	ALM 20	8.31	8.33	7.39	8.04	6.96	7.57	8.89
A	AQL	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	86.5	61.7	240	87.8	198	40.8	23.2
A	AQL	Total dissolved solids (TDS)	mg/l	ALM 26	607	383	1914	558	1561	273	127
A	AQL	Total Alkalinity	mg CaCO ₃ /l	ALM 01	107	264	502	295	238	161	36.1
A	AQL	Chloride (Cl)	mg/l	ALM 02	32.1	41.9	79.0	87.6	57.6	25.8	16.8
A	AQL	Sulphate (SO ₄)	mg/l	ALM 03	355	59.7	961	97.7	887	24.1	51.1
A	AQL	Nitrate (NO ₃) as N	mg/l	ALM 06	1.69	0.422	0.211	0.629	3.75	2.50	0.211
A	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	1.69	0.435	0.222	0.643	3.80	2.51	0.483
A	AQL	Nitrite (NO ₂) as N	mg/l	ALM 07	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	0.272
A	AQL	Ammonium (NH ₄) as N	mg/l	ALM 05	0.025	0.030	0.041	0.033	0.078	0.131	0.868
A	AQL	Orthophosphate (PO ₄) as P	mg/l	ALM 12	0.031	0.030	<0.009	<0.009	0.044	0.009	0.033
A	AQL	Fluoride (F)	mg/l	ALM 08	<0.263	<0.263	<0.263	<0.263	<0.263	<0.263	<0.263
A	AQL	Calcium (Ca)	mg/l	ALM 30	9.93	16.1	215	29.5	122	7.23	4.16
A	AQL	Magnesium (Mg)	mg/l	ALM 30	110	69.9	184	97.9	247	46.9	14.9
A	AQL	Sodium (Na)	mg/l	ALM 30	14.2	21.3	117	6.42	15.9	4.31	14.2
A	AQL	Potassium (K)	mg/l	ALM 30	<0.015	0.754	26.7	2.20	<0.015	0.206	0.970
A	AQL	Aluminium (Al)	mg/l	ALM 31	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
A	AQL	Iron (Fe)	mg/l	ALM 31	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
A	AQL	Manganese (Mn)	mg/l	ALM 31	<0.001	0.030	<0.001	<0.001	<0.001	<0.001	0.016
A	AQL	Chromium (Cr)	mg/l	ALM 31	0.003	<0.003	<0.003	<0.003	<0.003	0.013	<0.003
A	AQL	Hexavalent chromium (Cr ⁶⁺)	mg/l	ALM 09	<0.002	<0.002	<0.002	<0.002	<0.002	0.012	<0.002
A	AQL	Copper (Cu)	mg/l	ALM 31	0.046	0.022	<0.002	<0.002	0.079	0.015	<0.002
A	AQL	Nickel (Ni)	mg/l	ALM 31	0.008	<0.002	0.028	0.019	0.017	<0.002	<0.002
A	AQL	Zinc (Zn)	mg/l	ALM 31	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
A	AQL	Cobalt (Co)	mg/l	ALM 31	<0.003	0.004	0.007	0.004	0.007	0.003	0.005

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Test Report

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Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275452	275446	275435	275438	275453	275447	275441
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON14	KPS MON07	KPS BH01	KPS BH05	KPS-MON16	KPS-MON09	KPS MON02
Analyses					Unit	Method					
A	AQL	Cadmium (Cd)	mg/l	ALM 31	0.002	<0.002	0.003	<0.002	0.004	0.002	0.002
A	AQL	Lead (Pb)	mg/l	ALM 31	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
A	AQL	Total hardness	mg CaCO ₃ /l	ALM 26	477	328	1295	477	1323	211	72
A	AQL	Sodium Adsorption Ratio	SAR	ALM 26	0.28	0.51	1.41	0.13	0.19	0.13	0.73
A	AQL	Chemical oxygen demand (COD)	mg/l	ALM 10	13.2	40.4	51.7	200	<5.10	324	96.9
A	AQL	Total suspended solids (TSS)	mg/l	ALM 25	8.0	72	<4.5	15	14	6.0	13
N	AQL	Dissolved oxygen (DO)	mg/l	ALM 28	8.75	8.34	8.63	8.54	7.86	8.00	8.05
A	AQL	Silicon (Si)	mg/l	ALM 33	5.29	3.80	9.11	19.7	25.2	20.3	0.114
A	AQL	Boron (B)	mg/l	ALM 33	0.137	2.36	4.14	0.094	0.316	0.168	0.040
A	AQL	Barium (Ba)	mg/l	ALM 33	0.015	0.012	0.033	0.058	0.020	0.049	0.007
N	AQL	Lithium (Li)	mg/l	ALM 32	0.001	0.426	0.772	0.005	0.003	0.009	<0.001
A	AQL	Vanadium (V)	mg/l	ALM 33	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
A	AQL	Bicarbonate alkalinity	mg CaCO ₃ /l	ALM 26	104	258	501	292	238	161	33.3
A	AQL	Carbonate alkalinity	mg CaCO ₃ /l	ALM 26	2.01	5.19	1.16	3.01	0.204	0.562	2.43
A	AQL	Hydroxide alkalinity	mg CaCO ₃ /l	ALM 26	0.10	0.11	0.01	0.06	0.01	0.02	0.39
A	AQL	TPH C10 - C40	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0
A	AQL	C10 - C16	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0
A	AQL	C16 - C22	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0
A	AQL	C22 - C30	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0
A	AQL	C30 - C40	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0
N	AQL	Benzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Toluene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Ethylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	m+p-Xylene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	o-Xylene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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Test Report

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Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275452	275446	275435	275438	275453	275447	275441
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON14	KPS MON07	KPS BH01	KPS BH05	KPS-MON16	KPS-MON09	KPS MON02
Analyses					Unit	Method					
N	AQL	Chloroform	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Bromoform	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Dibromochloromethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Bromodichloromethane	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,1,1,2-Tetrachloroethane	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,1,1-Trichloroethane	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,1,2,2-Tetrachloroethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,1,2-Trichloroethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,1-Dichloroethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,1-Dichloroethene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,1-Dichloropropene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2,3-Trichlorobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2,3-Trichloropropane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2,4-Trichlorobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Bromochloromethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2,4-Trimethylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,2-Dibromo-3-chloropropane	µg/l	OLM 05	<150	<150	<150	<150	<150	<150	<150
N	AQL	1,2-Dibromoethane	µg/l	OLM 05	<150	<150	<150	<150	<150	<150	<150
N	AQL	1,2-Dichlorobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2-Dichloroethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2-Dichloropropane	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,3,5-Trimethylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,3-Dichlorobenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,3-Dichloropropane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,4-Dichlorobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0

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Test Report

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Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275452	275446	275435	275438	275453	275447	275441
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON14	KPS MON07	KPS BH01	KPS BH05	KPS-MON16	KPS-MON09	KPS MON02
Analyses					Unit	Method					
N	AQL	2,2-Dichloropropane	µg/l	OLM 05	<100	<100	<100	<100	<100	<100	<100
N	AQL	2-Chlorotoluene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	4-Chlorotoluene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Bromobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Carbon tetrachloride	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Chlorobenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	cis-1,2-Dichloroethene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	cis-1,3-Dichloropropene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Dibromomethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Hexachlorobutadiene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Isopropylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Naphthalene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Methylene Chloride	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	n-Butylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	n-Propylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	p-Isopropyltoluene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	sec-Butylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Styrene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	tert-Butylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Tetrachloroethene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	trans-1,2-Dichloroethene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	trans-1,3-Dichloropropene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Trichloroethene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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Test Report

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Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275450	275444	275445	275436	275439	275456	275448
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON12	KPS MON05	KPS MON06	KPS BH02	KPS BH07	KPS-NBH03	KPS-MON10
Analyses			Unit	Method							
A	AQL	pH @ 25°C	pH	ALM 20	6.93	8.37	7.53	7.57	7.60	8.93	7.13
A	AQL	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	200	144	147	109	47.0	67.6	44.1
A	AQL	Total dissolved solids (TDS)	mg/l	ALM 26	1485	959	848	661	297	403	307
A	AQL	Total Alkalinity	mg CaCO ₃ /l	ALM 01	509	85.6	103	250	133	248	145
A	AQL	Chloride (Cl)	mg/l	ALM 02	110	128	161	104	14.2	54.4	35.3
A	AQL	Sulphate (SO ₄)	mg/l	ALM 03	569	429	308	180	104	84.0	57.6
A	AQL	Nitrate (NO ₃) as N	mg/l	ALM 06	11.3	6.83	<0.194	1.66	0.361	<0.194	2.07
A	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	12.1	6.85	1.42	1.67	0.374	0.197	2.08
A	AQL	Nitrite (NO ₂) as N	mg/l	ALM 07	0.754	<0.065	1.24	<0.065	<0.065	<0.065	<0.065
A	AQL	Ammonium (NH ₄) as N	mg/l	ALM 05	9.60	0.061	0.983	0.036	0.060	2.41	0.029
A	AQL	Orthophosphate (PO ₄) as P	mg/l	ALM 12	1.35	0.012	0.328	<0.009	0.048	<0.009	<0.009
A	AQL	Fluoride (F)	mg/l	ALM 08	<0.263	<0.263	<0.263	<0.263	<0.263	<0.263	<0.263
A	AQL	Calcium (Ca)	mg/l	ALM 30	153	65.1	22.1	44.5	13.1	11.8	6.45
A	AQL	Magnesium (Mg)	mg/l	ALM 30	167	16.2	0.570	113	44.9	85.8	51.9
A	AQL	Sodium (Na)	mg/l	ALM 30	54.3	183	247	15.2	20.3	8.83	5.62
A	AQL	Potassium (K)	mg/l	ALM 30	7.58	34.4	44.4	<0.015	<0.015	0.692	<0.015
A	AQL	Aluminium (Al)	mg/l	ALM 31	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
A	AQL	Iron (Fe)	mg/l	ALM 31	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
A	AQL	Manganese (Mn)	mg/l	ALM 31	0.049	<0.001	0.063	<0.001	<0.001	0.054	<0.001
A	AQL	Chromium (Cr)	mg/l	ALM 31	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
A	AQL	Hexavalent chromium (Cr ⁶⁺)	mg/l	ALM 09	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
A	AQL	Copper (Cu)	mg/l	ALM 31	0.065	<0.002	<0.002	<0.002	0.015	0.031	0.016
A	AQL	Nickel (Ni)	mg/l	ALM 31	0.059	0.009	<0.002	0.017	0.012	<0.002	0.023
A	AQL	Zinc (Zn)	mg/l	ALM 31	0.012	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
A	AQL	Cobalt (Co)	mg/l	ALM 31	0.006	0.004	<0.003	0.005	0.007	<0.003	0.003

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Test Report

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Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275450	275444	275445	275436	275439	275456	275448
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON12	KPS MON05	KPS MON06	KPS BH02	KPS BH07	KPS-NBH03	KPS-MON10
Analyses					Unit	Method					
A	AQL	Cadmium (Cd)	mg/l	ALM 31	0.005	0.002	<0.002	<0.002	<0.002	<0.002	<0.002
A	AQL	Lead (Pb)	mg/l	ALM 31	0.036	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
A	AQL	Total hardness	mg CaCO ₃ /l	ALM 26	1067	229	58	577	218	383	230
A	AQL	Sodium Adsorption Ratio	SAR	ALM 26	0.72	5.26	14.15	0.28	0.60	0.20	0.16
A	AQL	Chemical oxygen demand (COD)	mg/l	ALM 10	322	222	53.4	80.5	520	18.1	118
A	AQL	Total suspended solids (TSS)	mg/l	ALM 25	75	128	63	7.0	7.0	31	12
N	AQL	Dissolved oxygen (DO)	mg/l	ALM 28	6.76	8.48	7.27	8.40	8.51	8.37	8.45
A	AQL	Silicon (Si)	mg/l	ALM 33	19.3	7.87	0.302	16.4	6.72	0.516	19.3
A	AQL	Boron (B)	mg/l	ALM 33	1.24	1.01	1.68	0.325	0.162	0.227	0.056
A	AQL	Barium (Ba)	mg/l	ALM 33	0.056	0.059	0.017	0.040	0.020	0.005	0.074
N	AQL	Lithium (Li)	mg/l	ALM 32	0.083	2.69	2.04	0.015	<0.001	0.003	0.001
A	AQL	Vanadium (V)	mg/l	ALM 33	<0.001	0.032	<0.001	<0.001	<0.001	<0.001	<0.001
A	AQL	Bicarbonate alkalinity	mg CaCO ₃ /l	ALM 26	508	83.6	103	249	133	230	145
A	AQL	Carbonate alkalinity	mg CaCO ₃ /l	ALM 26	0.407	1.84	0.327	0.870	0.496	18.4	0.184
A	AQL	Hydroxide alkalinity	mg CaCO ₃ /l	ALM 26	0.00	0.12	0.02	0.02	0.02	0.43	0.01
A	AQL	TPH C10 - C40	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0
A	AQL	C10 - C16	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0
A	AQL	C16 - C22	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0
A	AQL	C22 - C30	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0
A	AQL	C30 - C40	µg/l	OLM 04	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0	<12.0
N	AQL	Benzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Toluene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Ethylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	m+p-Xylene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	o-Xylene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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Test Report

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Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275450	275444	275445	275436	275439	275456	275448
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON12	KPS MON05	KPS MON06	KPS BH02	KPS BH07	KPS-NBH03	KPS-MON10
Analyses					Unit	Method					
N	AQL	Chloroform	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Bromoform	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Dibromochloromethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Bromodichloromethane	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,1,1,2-Tetrachloroethane	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,1,1-Trichloroethane	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,1,2,2-Tetrachloroethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,1,2-Trichloroethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,1-Dichloroethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,1-Dichloroethene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,1-Dichloropropene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2,3-Trichlorobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2,3-Trichloropropane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2,4-Trichlorobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Bromochloromethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2,4-Trimethylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,2-Dibromo-3-chloropropane	µg/l	OLM 05	<150	<150	<150	<150	<150	<150	<150
N	AQL	1,2-Dibromoethane	µg/l	OLM 05	<150	<150	<150	<150	<150	<150	<150
N	AQL	1,2-Dichlorobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2-Dichloroethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,2-Dichloropropane	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,3,5-Trimethylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,3-Dichlorobenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	1,3-Dichloropropane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	1,4-Dichlorobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0

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Test Report

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Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275450	275444	275445	275436	275439	275456	275448
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON12	KPS MON05	KPS MON06	KPS BH02	KPS BH07	KPS-NBH03	KPS-MON10
Analyses					Unit	Method					
N	AQL	2,2-Dichloropropane	µg/l	OLM 05	<100	<100	<100	<100	<100	<100	<100
N	AQL	2-Chlorotoluene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	4-Chlorotoluene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Bromobenzene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Carbon tetrachloride	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Chlorobenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	cis-1,2-Dichloroethene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	cis-1,3-Dichloropropene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Dibromomethane	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Hexachlorobutadiene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Isopropylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Naphthalene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Methylene Chloride	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	n-Butylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	n-Propylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	p-Isopropyltoluene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	sec-Butylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Styrene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	tert-Butylbenzene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	Tetrachloroethene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	trans-1,2-Dichloroethene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
N	AQL	trans-1,3-Dichloropropene	µg/l	OLM 05	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
N	AQL	Trichloroethene	µg/l	OLM 05	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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Test Report

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Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:		275442			
Date sampled:		25-Jun-25			
Aquatico sampled:		Yes			
Sample type:		Water			
Locality description:		KPS MON03			
Analyses		Unit	Method		
A	AQL pH @ 25°C	pH	ALM 20	9.32	
A	AQL Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	29.6	
A	AQL Total dissolved solids (TDS)	mg/l	ALM 26	159	
A	AQL Total Alkalinity	mg CaCO ₃ /l	ALM 01	66.1	
A	AQL Chloride (Cl)	mg/l	ALM 02	31.4	
A	AQL Sulphate (SO ₄)	mg/l	ALM 03	43.7	
A	AQL Nitrate (NO ₃) as N	mg/l	ALM 06	0.267	
A	AQL Total oxidised nitrogen as N	mg/l	ALM 06	0.280	
A	AQL Nitrite (NO ₂) as N	mg/l	ALM 07	<0.065	
A	AQL Ammonium (NH ₄) as N	mg/l	ALM 05	0.039	
A	AQL Orthophosphate (PO ₄) as P	mg/l	ALM 12	<0.009	
A	AQL Fluoride (F)	mg/l	ALM 08	<0.263	
A	AQL Calcium (Ca)	mg/l	ALM 30	3.51	
A	AQL Magnesium (Mg)	mg/l	ALM 30	30.5	
A	AQL Sodium (Na)	mg/l	ALM 30	5.95	
A	AQL Potassium (K)	mg/l	ALM 30	1.34	
A	AQL Aluminium (Al)	mg/l	ALM 31	<0.002	
A	AQL Iron (Fe)	mg/l	ALM 31	<0.004	
A	AQL Manganese (Mn)	mg/l	ALM 31	0.005	
A	AQL Chromium (Cr)	mg/l	ALM 31	<0.003	
A	AQL Hexavalent chromium (Cr ⁶⁺)	mg/l	ALM 09	<0.002	
A	AQL Copper (Cu)	mg/l	ALM 31	0.004	
A	AQL Nickel (Ni)	mg/l	ALM 31	<0.002	
A	AQL Zinc (Zn)	mg/l	ALM 31	<0.002	
A	AQL Cobalt (Co)	mg/l	ALM 31	0.003	

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Test Report

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Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:					275442
Date sampled:					25-Jun-25
Aquatico sampled:					Yes
Sample type:					Water
Locality description:					KPS MON03
Analyses			Unit	Method	
A	AQL	Cadmium (Cd)	mg/l	ALM 31	<0.002
A	AQL	Lead (Pb)	mg/l	ALM 31	<0.004
A	AQL	Total hardness	mg CaCO ₃ /l	ALM 26	134
A	AQL	Sodium Adsorption Ratio	SAR	ALM 26	0.22
A	AQL	Chemical oxygen demand (COD)	mg/l	ALM 10	368
A	AQL	Total suspended solids (TSS)	mg/l	ALM 25	12
N	AQL	Dissolved oxygen (DO)	mg/l	ALM 28	8.44
A	AQL	Silicon (Si)	mg/l	ALM 33	0.351
A	AQL	Boron (B)	mg/l	ALM 33	<0.013
A	AQL	Barium (Ba)	mg/l	ALM 33	0.008
N	AQL	Lithium (Li)	mg/l	ALM 32	0.001
A	AQL	Vanadium (V)	mg/l	ALM 33	<0.001
A	AQL	Bicarbonate alkalinity	mg CaCO ₃ /l	ALM 26	54.3
A	AQL	Carbonate alkalinity	mg CaCO ₃ /l	ALM 26	10.7
A	AQL	Hydroxide alkalinity	mg CaCO ₃ /l	ALM 26	1.05
A	AQL	TPH C10 - C40	µg/l	OLM 04	<12.0
A	AQL	C10 - C16	µg/l	OLM 04	<12.0
A	AQL	C16 - C22	µg/l	OLM 04	<12.0
A	AQL	C22 - C30	µg/l	OLM 04	<12.0
A	AQL	C30 - C40	µg/l	OLM 04	<12.0
N	AQL	Benzene	µg/l	OLM 05	<20.0
N	AQL	Toluene	µg/l	OLM 05	<20.0
N	AQL	Ethylbenzene	µg/l	OLM 05	<20.0
N	AQL	m+p-Xylene	µg/l	OLM 05	<40.0
N	AQL	o-Xylene	µg/l	OLM 05	<20.0

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Test Report

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Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:		275442			
Date sampled:		25-Jun-25			
Aquatico sampled:		Yes			
Sample type:		Water			
Locality description:		KPS MON03			
Analyses		Unit	Method		
N	AQL Chloroform	µg/l	OLM 05	<40.0	
N	AQL Bromoform	µg/l	OLM 05	<20.0	
N	AQL Dibromochloromethane	µg/l	OLM 05	<40.0	
N	AQL Bromodichloromethane	µg/l	OLM 05	<20.0	
N	AQL 1,1,1,2-Tetrachloroethane	µg/l	OLM 05	<20.0	
N	AQL 1,1,1-Trichloroethane	µg/l	OLM 05	<20.0	
N	AQL 1,1,2,2-Tetrachloroethane	µg/l	OLM 05	<40.0	
N	AQL 1,1,2-Trichloroethane	µg/l	OLM 05	<40.0	
N	AQL 1,1-Dichloroethane	µg/l	OLM 05	<40.0	
N	AQL 1,1-Dichloroethene	µg/l	OLM 05	<20.0	
N	AQL 1,1-Dichloropropene	µg/l	OLM 05	<40.0	
N	AQL 1,2,3-Trichlorobenzene	µg/l	OLM 05	<40.0	
N	AQL 1,2,3-Trichloropropane	µg/l	OLM 05	<40.0	
N	AQL 1,2,4-Trichlorobenzene	µg/l	OLM 05	<40.0	
N	AQL Bromochloromethane	µg/l	OLM 05	<40.0	
N	AQL 1,2,4-Trimethylbenzene	µg/l	OLM 05	<20.0	
N	AQL 1,2-Dibromo-3-chloropropane	µg/l	OLM 05	<150	
N	AQL 1,2-Dibromoethane	µg/l	OLM 05	<150	
N	AQL 1,2-Dichlorobenzene	µg/l	OLM 05	<40.0	
N	AQL 1,2-Dichloroethane	µg/l	OLM 05	<40.0	
N	AQL 1,2-Dichloropropane	µg/l	OLM 05	<20.0	
N	AQL 1,3,5-Trimethylbenzene	µg/l	OLM 05	<20.0	
N	AQL 1,3-Dichlorobenzene	µg/l	OLM 05	<20.0	
N	AQL 1,3-Dichloropropane	µg/l	OLM 05	<40.0	
N	AQL 1,4-Dichlorobenzene	µg/l	OLM 05	<40.0	

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Test Report

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Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226542
Project: Kelvin Powers Groundwater Monitoring

Date of report: 10 July 2025
Date accepted: 30 June 2025
Date completed: 10 July 2025
Date received: 30 June 2025

Lab no:		275442			
Date sampled:		25-Jun-25			
Aquatico sampled:		Yes			
Sample type:		Water			
Locality description:		KPS MON03			
Analyses		Unit	Method		
N	AQL 2,2-Dichloropropane	µg/l	OLM 05	<100	
N	AQL 2-Chlorotoluene	µg/l	OLM 05	<20.0	
N	AQL 4-Chlorotoluene	µg/l	OLM 05	<20.0	
N	AQL Bromobenzene	µg/l	OLM 05	<40.0	
N	AQL Carbon tetrachloride	µg/l	OLM 05	<20.0	
N	AQL Chlorobenzene	µg/l	OLM 05	<20.0	
N	AQL cis-1,2-Dichloroethene	µg/l	OLM 05	<40.0	
N	AQL cis-1,3-Dichloropropene	µg/l	OLM 05	<20.0	
N	AQL Dibromomethane	µg/l	OLM 05	<40.0	
N	AQL Hexachlorobutadiene	µg/l	OLM 05	<20.0	
N	AQL Isopropylbenzene	µg/l	OLM 05	<20.0	
N	AQL Naphthalene	µg/l	OLM 05	<40.0	
N	AQL Methylene Chloride	µg/l	OLM 05	<20.0	
N	AQL n-Butylbenzene	µg/l	OLM 05	<20.0	
N	AQL n-Propylbenzene	µg/l	OLM 05	<20.0	
N	AQL p-Isopropyltoluene	µg/l	OLM 05	<20.0	
N	AQL sec-Butylbenzene	µg/l	OLM 05	<20.0	
N	AQL Styrene	µg/l	OLM 05	<20.0	
N	AQL tert-Butylbenzene	µg/l	OLM 05	<20.0	
N	AQL Tetrachloroethene	µg/l	OLM 05	<20.0	
N	AQL trans-1,2-Dichloroethene	µg/l	OLM 05	<20.0	
N	AQL trans-1,3-Dichloropropene	µg/l	OLM 05	<40.0	
N	AQL Trichloroethene	µg/l	OLM 05	<20.0	

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Test Report

Page 1 of 4

Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226262
Project: Kelvin Powers Groundwater Monitoring

Date of report: 30 June 2025
Date accepted: 26 June 2025
Date completed: 30 June 2025
Date received: 26 June 2025

Lab no:					273638	273639	273640	273641	273642	273643	273644
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS BH01	KPS BH02	KPS BH04	KPS BH05	KPS BH07	KPS MON01	KPS MON02
Analyses					Unit		Method				
A	AQL	E.coli	CFU/100ml	ALM 40	<1	<1	<1	<1	<1	<1	<1
N	AQL	Faecal coliform	CFU/100ml	ALM 42	<1	<1	<1	<1	<1	<1	<1
A	AQL	Total coliform	CFU/100ml	ALM 40	<1	20	<1	30	<1	10	<1

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M. Swanepoel
Technical Signatory

Test Report

Page 2 of 4

Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226262
Project: Kelvin Powers Groundwater Monitoring

Date of report: 30 June 2025
Date accepted: 26 June 2025
Date completed: 30 June 2025
Date received: 26 June 2025

Lab no:					273645	273646	273647	273648	273649	273650	273651
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS MON03	KPS MON04	KPS MON05	KPS MON06	KPS MON07	KPS-MON09	KPS-MON10
Analyses					Unit						
					Method						
A	AQL	E.coli			CFU/100ml	ALM 40	<1	<1	<1	<1	<1
N	AQL	Faecal coliform			CFU/100ml	ALM 42	<1	<1	<1	<1	<1
A	AQL	Total coliform			CFU/100ml	ALM 40	100	<1	<1	<1	<1

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Test Report

Page 3 of 4

Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226262
Project: Kelvin Powers Groundwater Monitoring

Date of report: 30 June 2025
Date accepted: 26 June 2025
Date completed: 30 June 2025
Date received: 26 June 2025

Lab no:					273652	273653	273654	273655	273656	273657	273658
Date sampled:					25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25	25-Jun-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					KPS-MON11	KPS-MON12	KPS-MON13	KPS-MON14	KPS-MON16	KPS-NBH01	KPS-NBH02
Analyses					Unit						
					Method						
A	AQL	E.coli			CFU/100ml	ALM 40	<1	<1	<1	<1	<1
N	AQL	Faecal coliform			CFU/100ml	ALM 42	<1	<1	<1	<1	<1
A	AQL	Total coliform			CFU/100ml	ALM 40	<1	<1	<1	<1	<1

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Test Report

Page 4 of 4

Client: Kelvin Power Station
Address: Zuurfontein Avenue M39, Spartan, Kempton Park, 1620
Report no: 226262
Project: Kelvin Powers Groundwater Monitoring

Date of report: 30 June 2025
Date accepted: 26 June 2025
Date completed: 30 June 2025
Date received: 26 June 2025

Lab no:			273659		
Date sampled:			25-Jun-25		
Aquatico sampled:			Yes		
Sample type:			Water		
Locality description:			KPS-NBH03		
Analyses			Unit	Method	
A	AQL	E.coli	CFU/100ml	ALM 40	<1
N	AQL	Faecal coliform	CFU/100ml	ALM 42	<1
A	AQL	Total coliform	CFU/100ml	ALM 40	<1

A = Accredited N = Not accredited Sub = Sub-contracted NR = Not requested RTF = Results to follow NATD = Not able to determine ATR = Alternative test report ; Results relate only to the items sampled and tested ; Results reported against the limit of detection; Results marked "Not SANAS Accredited" in this report are not covered by the Scope of Accreditation for this laboratory; Uncertainty of measurement available on request for all methods included in the SANAS Schedule of Accreditation; The report shall not be reproduced except in full without approval of the laboratory

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TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275413 - KPS BH01
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275414 - KPS BH02
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275415 - KPS BH04
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275416 - KPS BH05
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
Pretoria
0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275417 - KPS BH07
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275418 - KPS MON01
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275419 - KPS MON02
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

PARAMETER	RESULT
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

PARAMETER	RESULT
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

PARAMETER	RESULT
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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- 6) Deviation: Sample received in plastic container, may impact results.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275420 - KPS MON03
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
Pretoria
0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275421 - KPS MON04
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

PARAMETER	RESULT
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

PARAMETER	RESULT
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

PARAMETER	RESULT
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
Pretoria
0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275422 - KPS MON05
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

PARAMETER	RESULT
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

PARAMETER	RESULT
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

PARAMETER	RESULT
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
Pretoria
0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275423 - KPS MON06
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

PARAMETER	RESULT
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

PARAMETER	RESULT
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

PARAMETER	RESULT
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275424 - KPS MON07
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275425 - KPS MON09
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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- 6) Deviation: Sample received in plastic container, may impact results.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275426 - KPS MON10
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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- 6) Deviation: Sample received in plastic container, may impact results.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275427 - KPS MON11
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	0.2 µg/liter
Pyrene	0.2 µg/liter
Benzo(a)anthracene	0.1 µg/liter
Chrysene	0.1 µg/liter
Benzo(b+k)fluoranthene	0.7 µg/liter
Benzo(a)pyrene	0.2 µg/liter
Benzo(g,h,i)perylene	0.3 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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- 6) Deviation: Sample received in plastic container, may impact results.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275428 - KPS MON12
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
Pretoria
0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275429 - KPS MON13
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

PARAMETER	RESULT
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

PARAMETER	RESULT
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

PARAMETER	RESULT
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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- 5) Uncertainty of measurement for all methods included in the SANAS Schedule of Accreditation is available on request.
- 6) Deviation: Sample received in plastic container, may impact results.

Reinardt Cromhout
Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275430 - KPS MON14
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
Pretoria
0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275431 - KPS MON16
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

PARAMETER	RESULT
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

PARAMETER	RESULT
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

PARAMETER	RESULT
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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- 5) Uncertainty of measurement for all methods included in the SANAS Schedule of Accreditation is available on request.
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Reinardt Cromhout
Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
Pretoria
0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275432 - KPS NBH01
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

PARAMETER	RESULT
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

PARAMETER	RESULT
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

PARAMETER	RESULT
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
Pretoria
0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275433 - KPS NBH02
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

PARAMETER	RESULT
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

PARAMETER	RESULT
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

PARAMETER	RESULT
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

59082B

Test Description: Semi-Volatile Organic Compounds

Test Method: EPL-T-020

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275434 - KPS NBH03
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Polycyclic Aromatic Hydrocarbons

<u>PARAMETER</u>	<u>RESULT</u>
Naphthalene	<0.1 µg/liter
Acenaphthene	<0.1 µg/liter
Acenaphthylene	<0.1 µg/liter
Fluorene	<0.1 µg/liter
Phenanthrene	<0.1 µg/liter
Anthracene	<0.1 µg/liter
Fluoranthene	<0.1 µg/liter
Pyrene	<0.1 µg/liter
Benzo(a)anthracene	<0.1 µg/liter
Chrysene	<0.1 µg/liter
Benzo(b+k)fluoranthene	<0.2 µg/liter
Benzo(a)pyrene	<0.1 µg/liter
Benzo(g,h,i)perylene	<0.2 µg/liter
Dibenz(a,h)anthracene	<0.2 µg/liter
Indeno(123-cd)pyrene	<0.2 µg/liter

Chlorinated Compounds

<u>PARAMETER</u>	<u>RESULT</u>
1,2-Dichlorobenzene*	<0.2 µg/liter
1,3-Dichlorobenzene*	<0.2 µg/liter
1,4-Dichlorobenzene*	<0.2 µg/liter
2-Chloronaphthalene*	<0.2 µg/liter
Hexachlorobenzene*	<0.2 µg/liter
Hexachloroethane*	<0.2 µg/liter
1,2,4-Trichlorobenzene*	<0.2 µg/liter
4-Chlorophenylphenyl ether*	<0.2 µg/liter
4-Bromophenylphenyl ether*	<0.2 µg/liter

Phthalates

<u>PARAMETER</u>	<u>RESULT</u>
Di-n-butyl phthalate*	<20 µg/liter
Butyl benzyl phthalate*	<20 µg/liter
Bis(2-ethylhexyl) phthalate*	<20 µg/liter

Disclaimers

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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275413 - KPS BH01
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

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- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275414 - KPS BH02
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

59082A

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275415 - KPS BH04
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275416 - KPS BH05
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

59082A

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275417 - KPS BH07
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275418 - KPS MON01
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275419 - KPS MON02
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275420 - KPS MON03
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275421 - KPS MON04
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275422 - KPS MON05
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
Pretoria
0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275423 - KPS MON06
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275424 - KPS MON07
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275425 - KPS MON09
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275426 - KPS MON10
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275427 - KPS MON11
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275428 - KPS MON12
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275429 - KPS MON13
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

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- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275430 - KPS MON14
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

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- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

59082A

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
Pretoria
0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275431 - KPS MON16
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275432 - KPS NBH01
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

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Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275433 - KPS NBH02
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
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- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

TEST REPORT

59082A

Test Description: Polychlorinated Biphenyls

Test Method: EPL-T-036

Client and Project Information

Client: Aquatico Scientific (Pty) Ltd
Address: PO Box 905008, Garsfontein
 Pretoria
 0042

Attention: Pieter-Willem Botha
Tel: (012) 450-3800
Email: pw@aquatico.co.za

Project number: Batch 226541
Project name: N/A

Sample Information

Sample ID: 275434 - KPS NBH03
Dilution: No Dilution
Container: Plastic

Matrix: Water
Storage: Fridge at 0-6°C

Date Received: 2025/07/03
Date Analysed: 2025/07/05
Date Issued: 2025/07/10

Trichlorobiphenyls

PARAMETER	RESULT
PCB 28	<0.1 µg/liter

Tetrachlorobiphenyls

PARAMETER	RESULT
PCB 44	<0.1 µg/liter
PCB 49	<0.1 µg/liter
PCB 52	<0.1 µg/liter
PCB 60	<0.1 µg/liter
PCB 66	<0.1 µg/liter
PCB 70	<0.1 µg/liter
PCB 74	<0.1 µg/liter
PCB 77	<0.1 µg/liter

Pentachlorobiphenyls

PARAMETER	RESULT
PCB 82	<0.1 µg/liter
PCB 87	<0.1 µg/liter
PCB 99	<0.1 µg/liter
PCB 101	<0.1 µg/liter
PCB 105	<0.1 µg/liter
PCB 114	<0.1 µg/liter
PCB 118	<0.1 µg/liter
PCB 126	<0.1 µg/liter

Hexachlorobiphenyls

PARAMETER	RESULT
PCB 128	<0.1 µg/liter
PCB 138+158	<0.1 µg/liter
PCB 153	<0.1 µg/liter
PCB 156	<0.1 µg/liter
PCB 166	<0.1 µg/liter
PCB 169	<0.1 µg/liter

Heptachlorobiphenyls

PARAMETER	RESULT
PCB 170	<0.1 µg/liter
PCB 180	<0.1 µg/liter
PCB 183	<0.1 µg/liter
PCB 187	<0.1 µg/liter
PCB 189	<0.1 µg/liter

Estimated Total

PARAMETER	RESULT
Estimated Total PCB's	<1 µg/liter

Disclaimers

- 1) The results only relate to the test items provided, in the condition as received.
- 2) This report may not be reproduced, except in full, without the prior written approval of the laboratory.
- 3) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.

Reinardt Cromhout
 Authorised Signatory

APPENDIX D

Data Tables



LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS BH01	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Western Perimeter - Toe of Ash Dam B	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.21	258	2080	1317	193	203	152	41.7	439	98.2	1098	0.746	0.685	0.399	<0.009	<0.002	<0.004	<0.001	0	1
25 Sep 2024	7.36	251	1958	1338	205	201	147	37.1	357	131	995	0.784	0.376	0.179	<0.009	<0.002	<0.004	0.028	0	11
23 Dec 2024	7.76	250	1857	1244	180	193	155	36	366	110	934	3.66	0.301	0.109	<0.009	<0.002	<0.004	0.014	0	110
26 Mar 2025	7.92	249	1876	1274	234	168	131	30.7	449	71.5	949	0.29	0.461	0.028	0.041	<0.002	<0.004	<0.001	0	2
25 Jun 2025	7.39	240	1914	1295	215	184	117	26.7	502	79	961	<0.263	0.211	0.041	<0.009	<0.002	<0.004	<0.001	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	7.73	250	1937	1294	205	190	140	34.4	422	97.9	987	1.12	0.407	0.151	0.012	0.001	0.002	0.009	0.5	24.9
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.21	258	2080	1338	234	203	155	41.7	502	131	1098	3.66	0.685	0.399	0.041	0.001	0.002	0.028	0.5	110
Median value	7.76	250	1914	1295	205	193	147	36	439	98.2	961	0.746	0.376	0.109	0.004	0.001	0.002	0	0.5	2
Minimum value	7.36	240	1857	1244	180	168	117	26.7	357	71.5	934	0.1315	0.211	0.028	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	7.36	240	1857	1244	180	168	117	26.7	357	71.5	934	0.132	0.211	0.028	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	7.76	250	1914	1295	205	193	147	36	439	98.2	961	0.746	0.376	0.109	0.004	0.001	0.002	0	0.5	2
95 Percentile	8.21	258	2080	1338	234	203	155	41.7	502	131	1098	3.66	0.685	0.399	0.041	0.001	0.002	0.028	0.5	110
Standard Dev ±	±0.361	±6.45	±88.8	±36.8	±20.6	±14.4	±16.0	±5.84	±60.7	±23.9	±65.7	±1.45	±0.181	±0.151	±0.017	±0.000	±0.000	±0.012	±0.000	±47.8

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS BH02	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Southern Toe of Ash Dam B	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.14	112	745	616	48.2	120	17.3	0.975	246	186	174	0.396	1.5	0.008	<0.009	<0.002	<0.004	0.002	0	51
25 Sep 2024	7.5	111	743	649	49.5	128	15.3	0.753	207	172	203	0.275	1.28	0.046	0.21	0.006	<0.004	<0.001	0	0
23 Dec 2024	7.86	111	692	615	46.4	121	15.2	0.413	220	157	171	1.21	1.28	<0.008	<0.009	<0.002	<0.004	<0.001	0	0
26 Mar 2025	8.31	114	648	599	46.3	117	14.7	0.467	210	131	169	0.422	1.19	0.021	0.014	<0.002	<0.004	<0.001	0	170
25 Jun 2025	7.57	109	661	577	44.5	113	15.2	<0.015	250	104	180	<0.263	1.66	0.036	<0.009	<0.002	<0.004	<0.001	0	20

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	7.88	111	698	611	47	120	15.6	0.523	226	150	179	0.486	1.38	0.023	0.047	0.002	0.002	0.001	0.5	48.4
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.31	114	745	649	49.5	128	17.3	0.975	250	186	203	1.21	1.66	0.046	0.21	0.006	0.002	0.002	0.5	170
Median value	7.86	111	692	615	46.4	120	15.2	0.467	220	157	174	0.396	1.28	0.021	0.004	0.001	0.002	0	0.5	20
Minimum value	7.5	109	648	577	44.5	113	14.7	0.0075	207	104	169	0.1315	1.19	0.004	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	7.5	109	648	577	44.5	113	14.7	0.008	207	104	169	0.132	1.19	0.004	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	7.86	111	692	615	46.4	120	15.2	0.467	220	157	174	0.396	1.28	0.021	0.004	0.001	0.002	0	0.5	20
95 Percentile	8.31	114	745	649	49.5	128	17.3	0.975	250	186	203	1.21	1.66	0.046	0.21	0.006	0.002	0.002	0.5	170
Standard Dev ±	±0.351	±1.65	±45.1	±26.4	±1.91	±5.32	±1.01	±0.367	±20.3	±33.1	±13.7	±0.418	±0.193	±0.018	±0.091	±0.002	±0.000	±0.001	±0.000	±71.0

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS BH04	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Western Perimeter	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.31	107	724	629	56.1	119	17.9	1.28	329	73.5	207	0.531	0.825	0.101	<0.009	<0.002	<0.004	0.376	0	13
25 Sep 2024	7.61	104	715	631	53.7	121	16.9	0.973	273	79.2	225	<0.263	1.25	0.106	<0.009	<0.002	<0.004	<0.001	0	0
23 Dec 2024	8.16	104	700	624	53.7	119	17.6	0.92	294	76.8	201	1.93	1.03	<0.008	<0.009	<0.002	<0.004	<0.001	0	0
26 Mar 2025	8.46	107	670	566	49.2	108	16.2	1.24	284	77.9	202	<0.263	0.806	0.332	0.121	<0.002	<0.004	<0.001	2	3
25 Jun 2025	7.79	104	712	590	51.8	112	16.1	0.309	332	73.3	206	<0.263	0.461	0.053	<0.009	<0.002	<0.004	<0.001	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	8.07	105	704	608	52.9	116	16.9	0.944	302	76.2	208	0.571	0.876	0.119	0.028	0.001	0.002	0.076	0.8	3.5
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.46	107	724	631	56.1	121	17.9	1.28	332	79.2	225	1.93	1.25	0.332	0.121	0.001	0.002	0.376	2	13
Median value	8.16	104	712	624	53.7	119	16.9	0.973	294	76.8	206	0.132	0.825	0.101	0.004	0.001	0.002	0	0.5	0.5
Minimum value	7.61	104	670	566	49.2	108	16.1	0.309	273	73.3	201	0.1315	0.461	0.004	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	7.61	104	670	566	49.2	108	16.1	0.309	273	73.3	201	0.132	0.461	0.004	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	8.16	104	712	624	53.7	119	16.9	0.973	294	76.8	206	0.132	0.825	0.101	0.004	0.001	0.002	0	0.5	0.5
95 Percentile	8.46	107	724	631	56.1	121	17.9	1.28	332	79.2	225	1.93	1.25	0.332	0.121	0.001	0.002	0.376	2	13
Standard Dev ±	±0.356	±1.76	±21.1	±28.7	±2.56	±5.57	±0.817	±0.389	±26.7	±2.65	±9.53	±0.779	±0.295	±0.126	±0.052	±0.000	±0.000	±0.168	±0.671	±5.42

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS BH05	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on SOuthern Perimeter - South of Ash Dam A	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.34	90.4	565	525	31.5	108	9.07	3.09	289	87.3	95.9	0.343	0.893	<0.008	<0.009	<0.002	<0.004	0.004	0	1
25 Sep 2024	7.88	90.3	572	529	32.3	109	7.95	2.92	248	95.3	119	0.371	0.735	0.053	0.274	0.018	<0.004	<0.001	0	38
23 Dec 2024	8.01	90.3	564	532	32.2	110	7.61	3.04	270	93.8	100	0.353	0.596	0.021	<0.009	<0.002	<0.004	<0.001	0	100
26 Mar 2025	8.46	92.7	511	487	29.9	100	6.96	3.03	247	94.2	81.2	0.354	0.583	0.029	0.028	<0.002	<0.004	0.205	0	60
25 Jun 2025	8.04	87.8	558	477	29.5	97.9	6.42	2.2	295	87.6	97.7	<0.263	0.629	0.033	<0.009	<0.002	<0.004	<0.001	0	30

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	8.15	90.3	554	510	31.1	105	7.61	2.85	270	91.6	98.8	0.31	0.687	0.028	0.063	0.004	0.002	0.042	0.5	45.8
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.46	92.7	572	532	32.3	110	9.07	3.09	295	95.3	119	0.371	0.893	0.053	0.274	0.018	0.002	0.205	0.5	100
Median value	8.04	90.3	564	525	31.5	108	7.61	3.03	270	93.8	97.7	0.353	0.629	0.029	0.004	0.001	0.002	0	0.5	38
Minimum value	7.88	87.8	511	477	29.5	97.9	6.43	2.2	247	87.3	81.2	0.1315	0.583	0.004	0.0045	0.001	0.002	0.0005	0.5	1
5 Percentile	7.88	87.8	511	477	29.5	97.9	6.43	2.2	247	87.3	81.2	0.132	0.583	0.004	0.004	0.001	0.002	0	0.5	1
50 Percentile	8.04	90.3	564	525	31.5	108	7.61	3.03	270	93.8	97.7	0.353	0.629	0.029	0.004	0.001	0.002	0	0.5	38
95 Percentile	8.46	92.7	572	532	32.3	110	9.07	3.09	295	95.3	119	0.371	0.893	0.053	0.274	0.018	0.002	0.205	0.5	100
Standard Dev ±	±0.243	±1.74	±24.3	±25.9	±1.35	±5.49	±1.01	±0.372	±22.5	±3.86	±13.4	±0.101	±0.130	±0.018	±0.118	±0.008	±0.000	±0.091	±0.000	±36.9

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS BH07	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on South Western Perimeter	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.14	91.4	631	546	37.5	110	10.8	0.529	280	63	169	<0.263	2.87	0.022	<0.009	<0.002	<0.004	<0.001	0	0
25 Sep 2024	7.65	90	625	558	38.1	112	9.48	0.428	251	66.7	167	0.342	3.63	0.069	<0.009	<0.002	<0.004	<0.001	0	2
23 Dec 2024	7.93	88.9	611	544	36.4	110	9.34	0.433	260	60.6	159	0.326	3.24	0.011	<0.009	<0.002	<0.004	<0.001	0	0
26 Mar 2025	7.63	57.8	334	262	16.3	53.7	23.4	0.322	119	19.7	129	0.458	0.379	0.017	<0.009	<0.002	<0.004	<0.001	1	1500
25 Jun 2025	7.6	47	297	218	13.1	44.9	20.3	<0.015	133	14.2	104	<0.263	0.361	0.06	0.048	<0.002	<0.004	<0.001	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	7.79	75	500	425	28.3	86.2	14.7	0.344	208	44.9	146	0.278	2.1	0.036	0.013	0.001	0.002	0	0.6	301
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.14	91.4	631	558	38.1	112	23.4	0.529	280	66.7	169	0.458	3.63	0.069	0.048	0.001	0.002	0.0005	1	1500
Median value	7.65	88.9	611	544	36.4	110	10.8	0.428	251	60.6	159	0.326	2.87	0.022	0.004	0.001	0.002	0	0.5	0.5
Minimum value	7.6	47	297	218	13.1	45	9.35	0.0075	119	14.2	104	0.1315	0.361	0.011	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	7.6	47	297	218	13.1	45	9.35	0.008	119	14.2	104	0.132	0.361	0.011	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	7.65	88.9	611	544	36.4	110	10.8	0.428	251	60.6	159	0.326	2.87	0.022	0.004	0.001	0.002	0	0.5	0.5
95 Percentile	8.14	91.4	631	558	38.1	112	23.4	0.529	280	66.7	169	0.458	3.63	0.069	0.048	0.001	0.002	0	1	1500
Standard Dev ±	±0.236	±21.0	±169	±170	±12.5	±33.8	±6.66	±0.202	±76.3	±25.6	±28.3	±0.143	±1.60	±0.027	±0.019	±0.000	±0.000	±0.000	±0.224	±670

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON01	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Northern Perimeter next to Coal Stockpile	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.28	153	1067	612	29.1	131	128	6.48	245	163	411	<0.263	3.17	0.048	<0.009	<0.002	<0.004	0.521	0	0
25 Sep 2024	7.58	162	1116	642	30.6	137	134	5.84	223	216	394	<0.263	4.57	0.133	0.239	0.024	<0.004	0.177	0	0
23 Dec 2024	8.05	159	1096	662	31.3	142	132	5.49	240	173	405	1.36	4.54	<0.008	<0.009	<0.002	<0.004	0.26	0	200
26 Mar 2025	7.59	102	609	317	9.09	71.4	97.2	7.97	163	91.8	229	<0.263	0.485	0.104	<0.009	<0.002	<0.004	0.717	0	1
25 Jun 2025	8.03	86.1	532	226	7.39	50.4	95.9	7.28	185	71.6	175	<0.263	0.458	0.059	<0.009	<0.002	<0.004	0.288	0	10

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	7.91	132	884	492	21.5	106	117	6.61	211	143	323	0.378	2.64	0.07	0.051	0.006	0.002	0.392	0.5	42.4
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.28	162	1116	662	31.3	142	134	7.97	245	216	411	1.36	4.57	0.133	0.239	0.024	0.002	0.717	0.5	200
Median value	8.03	153	1067	612	29.1	131	128	6.48	223	163	394	0.132	3.17	0.059	0.004	0.001	0.002	0.288	0.5	1
Minimum value	7.58	86.1	532	226	7.39	50.4	95.9	5.49	163	71.6	175	0.1315	0.458	0.004	0.0045	0.001	0.002	0.177	0.5	0.5
5 Percentile	7.58	86.1	532	226	7.39	50.4	95.9	5.49	163	71.6	175	0.132	0.458	0.004	0.004	0.001	0.002	0.177	0.5	0.5
50 Percentile	8.03	153	1067	612	29.1	131	128	6.48	223	163	394	0.132	3.17	0.059	0.004	0.001	0.002	0.288	0.5	1
95 Percentile	8.28	162	1116	662	31.3	142	134	7.97	245	216	411	1.36	4.57	0.133	0.239	0.024	0.002	0.717	0.5	200
Standard Dev ±	±0.309	±35.7	±288	±204	±12.1	±42.3	±19.2	±1.02	±35.9	±59.8	±112	±0.550	±2.06	±0.050	±0.105	±0.010	±0.000	±0.222	±0.000	±88.2

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON02	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Northern Perimeter South of Coal Stockpile	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.23	47	303	231	8.75	50.8	17	2.05	96.1	18.6	133	<0.263	1.33	0.546	<0.009	<0.002	<0.004	0.04	0	10
25 Sep 2024	8.38	48.4	306	237	9.24	52	13.6	1.85	97.6	23.1	134	<0.263	0.459	0.57	0.236	0.006	<0.004	0.067	0	0
23 Dec 2024	8.06	46.2	308	246	9.38	54.1	14.4	1.89	90.9	22.9	137	0.493	0.245	0.379	<0.009	<0.002	<0.004	0.101	0	0
26 Mar 2025	7.63	22.3	123	67	5.27	13	13.7	1.43	28.6	14.4	54.1	<0.263	0.266	1.92	<0.009	<0.002	<0.004	0.167	0	0
25 Jun 2025	8.89	23.2	127	72	4.16	14.9	14.2	0.97	36.1	16.8	51.1	<0.263	0.211	0.868	0.033	<0.002	<0.004	0.016	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	8.24	37.4	233	171	7.36	37	14.6	1.64	69.9	19.2	102	0.204	0.502	0.857	0.056	0.002	0.002	0.078	0.5	2.4
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.89	48.4	308	246	9.38	54.1	17	2.05	97.6	23.1	137	0.493	1.33	1.92	0.236	0.006	0.002	0.167	0.5	10
Median value	8.23	46.2	303	231	8.75	50.8	14.2	1.85	90.9	18.6	133	0.132	0.266	0.57	0.004	0.001	0.002	0.067	0.5	0.5
Minimum value	7.63	22.3	123	66.8	4.16	13	13.6	0.97	28.6	14.4	51.1	0.1315	0.211	0.379	0.0045	0.001	0.002	0.016	0.5	0.5
5 Percentile	7.63	22.3	123	66.8	4.16	13	13.6	0.97	28.6	14.4	51.1	0.132	0.211	0.379	0.004	0.001	0.002	0.016	0.5	0.5
50 Percentile	8.23	46.2	303	231	8.75	50.8	14.2	1.85	90.9	18.6	133	0.132	0.266	0.57	0.004	0.001	0.002	0.067	0.5	0.5
95 Percentile	8.89	48.4	308	246	9.38	54.1	17	2.05	97.6	23.1	137	0.493	1.33	1.92	0.236	0.006	0.002	0.167	0.5	10
Standard Dev ±	±0.460	±13.4	±99.1	±92.8	±2.46	±21.1	±1.37	±0.437	±34.4	±3.79	±45.0	±0.162	±0.472	±0.622	±0.101	±0.002	±0.000	±0.059	±0.000	±4.25

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON03	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole North of Ash Dump - North Western Perimeter	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 Sep 2024	9.01	62	369	352	5.08	82.4	8.07	2.25	184	49.4	98.6	0.426	0.394	0.483	0.26	0.005	<0.004	0.005	0	150
23 Dec 2024	8.87	52.9	318	321	4.7	75	7.98	3.27	194	32.4	70.4	0.755	0.546	<0.008	<0.009	<0.002	<0.004	<0.001	0	50
26 Mar 2025	8.05	29.8	160	136	6.22	29.4	5	1.68	55.8	29.7	49.4	0.323	0.684	0.512	<0.009	<0.002	<0.004	0.085	0	190
25 Jun 2025	9.32	29.6	159	134	3.51	30.5	5.95	1.34	66.1	31.4	43.7	<0.263	0.267	0.039	<0.009	<0.002	<0.004	0.005	0	100

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	8.81	43.6	251	236	4.88	54.3	6.75	2.13	125	35.7	65.5	0.409	0.473	0.26	0.068	0.002	0.002	0.024	0.5	123
Count	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Maximum value	9.32	62	369	352	6.22	82.4	8.07	3.27	194	49.4	98.6	0.755	0.684	0.512	0.26	0.005	0.002	0.085	0.5	190
Median value	8.94	41.4	239	229	4.89	52.7	6.96	1.96	125	31.9	59.9	0.374	0.47	0.261	0.004	0.001	0.002	0.005	0.5	125
Minimum value	8.05	29.6	159	134	3.51	29.4	5	1.34	55.8	29.7	43.7	0.1315	0.267	0.004	0.0045	0.001	0.002	0.0005	0.5	50
5 Percentile	8.05	29.6	159	134	3.51	29.4	5	1.34	55.8	29.7	43.7	0.132	0.267	0.004	0.004	0.001	0.002	0	0.5	50
50 Percentile	8.87	29.8	160	136	4.7	30.5	5.95	1.68	66.1	31.4	49.4	0.323	0.394	0.039	0.004	0.001	0.002	0.005	0.5	100
95 Percentile	9.32	62	369	352	6.22	82.4	8.07	3.27	194	49.4	98.6	0.755	0.684	0.512	0.26	0.005	0.002	0.085	0.5	190
Standard Dev ±	±0.542	±16.5	±108	±117	±1.12	±28.3	±1.52	±0.843	±74.2	±9.17	±24.9	±0.261	±0.181	±0.275	±0.128	±0.002	±0.000	±0.041	±0.000	±60.8

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON04	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Western Perimeter between the Ash Dump and Ash Dam B	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.32	112	832	686	33.2	146	12.5	0.781	287	48	364	<0.263	1.91	0.136	<0.009	<0.002	<0.004	0.051	0	102000
25 Sep 2024	7.83	106	773	665	32.7	142	11.6	0.663	237	52.3	352	0.4	0.973	0.083	<0.009	<0.002	<0.004	0.038	0	300
23 Dec 2024	8.09	106	746	670	33	143	12.4	0.649	251	49.7	321	1.31	0.356	0.025	<0.009	<0.002	<0.004	0.025	0	0
26 Mar 2025	8.74	86.4	555	459	8.71	106	11.4	0.667	119	47.6	305	<0.263	0.508	0.033	<0.009	<0.002	<0.004	0.134	16	60
25 Jun 2025	8.95	77.2	523	417	7.56	96.7	10.8	<0.015	121	49.1	280	<0.263	0.216	0.034	<0.009	<0.002	<0.004	<0.001	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	8.39	97.5	686	579	23	127	11.7	0.553	203	49.3	324	0.421	0.793	0.062	0.004	0.001	0.002	0.05	3.6	20472
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.95	112	832	686	33.2	146	12.5	0.781	287	52.3	364	1.31	1.91	0.136	0.0045	0.001	0.002	0.134	16	102000
Median value	8.32	106	746	665	32.7	142	11.6	0.663	237	49.1	321	0.132	0.508	0.034	0.004	0.001	0.002	0.038	0.5	60
Minimum value	7.83	77.2	523	417	7.56	96.7	10.8	0.0075	119	47.6	280	0.1315	0.216	0.025	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	7.83	77.2	523	417	7.56	96.7	10.8	0.008	119	47.6	280	0.132	0.216	0.025	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	8.32	106	746	665	32.7	142	11.6	0.663	237	49.1	321	0.132	0.508	0.034	0.004	0.001	0.002	0.038	0.5	60
95 Percentile	8.95	112	832	686	33.2	146	12.5	0.781	287	52.3	364	1.31	1.91	0.136	0.004	0.001	0.002	0.134	16	102000
Standard Dev ±	±0.459	±14.9	±138	±130	±13.6	±23.4	±0.719	±0.310	±77.8	±1.85	±34.2	±0.511	±0.688	±0.047	±0.000	±0.000	±0.000	±0.051	±6.93	±45576

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON05	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Southern Perimeter on southern toe of Ash Dam A	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.25	157	1081	288	80	21.5	214	46.1	106	182	413	<0.263	8.72	0.07	0.192	0.006	<0.004	0.045	0	130
25 Sep 2024	8.55	151	1043	239	72.1	14.2	208	43.2	102	188	393	0.386	8.64	0.089	0.292	<0.002	<0.004	0.017	0	5000
23 Dec 2024	7.68	167	1154	318	113	9.04	227	43.1	148	196	407	0.651	9.56	0.089	0.166	<0.002	<0.004	0.031	0	61
26 Mar 2025	7.3	166	1103	264	96.2	5.76	210	41.7	76.5	196	460	<0.263	5.56	0.036	0.043	<0.002	<0.004	0.088	0	170
25 Jun 2025	8.37	144	959	229	65.1	16.2	183	34.4	85.6	128	429	<0.263	6.83	0.061	0.012	<0.002	<0.004	<0.001	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	8.03	157	1068	268	85.2	13.3	209	41.7	104	178	420	0.286	7.86	0.069	0.141	0.002	0.002	0.037	0.5	1072
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.55	167	1154	318	113	21.5	227	46.1	148	196	460	0.651	9.56	0.089	0.292	0.006	0.002	0.088	0.5	5000
Median value	8.25	157	1081	264	80	14.2	210	43.1	102	188	413	0.132	8.64	0.07	0.166	0.001	0.002	0.031	0.5	130
Minimum value	7.3	144	959	229	65.1	5.76	183	34.4	76.5	128	393	0.1315	5.56	0.036	0.012	0.001	0.002	0.0005	0.5	0.5
5 Percentile	7.3	144	959	229	65.1	5.76	183	34.4	76.5	128	393	0.132	5.56	0.036	0.012	0.001	0.002	0	0.5	0.5
50 Percentile	8.25	157	1081	264	80	14.2	210	43.1	102	188	413	0.132	8.64	0.07	0.166	0.001	0.002	0.031	0.5	130
95 Percentile	8.55	167	1154	318	113	21.5	227	46.1	148	196	460	0.651	9.56	0.089	0.292	0.006	0.002	0.088	0.5	5000
Standard Dev ±	±0.522	±10.0	±72.8	±36.6	±19.2	±6.17	±16.1	±4.37	±27.5	±28.7	±25.9	±0.232	±1.63	±0.022	±0.115	±0.002	±0.000	±0.033	±0.000	±2197

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON06	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Between Ash Dam A and Southern Coal Stockpile	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.22	167	1127	207	81.2	0.969	249	53.2	46.9	212	447	<0.263	9.07	2.96	0.501	<0.002	<0.004	<0.001	0	0
25 Sep 2024	8.69	162	1075	144	56.3	0.887	251	49.6	37	245	437	0.353	0.564	7.13	0.393	<0.002	<0.004	0.03	0	0
23 Dec 2024	7.56	253	2046	1603	50.7	359	58.7	0.544	299	57.9	1255	4.16	5.48	0.119	<0.009	<0.002	<0.004	<0.001	0	30
26 Mar 2025	8.96	177	1168	278	106	3.33	238	41.1	68.4	189	433	0.403	20.9	0.062	0.57	0.051	<0.004	0.004	0	13
25 Jun 2025	7.53	147	848	58	22.1	0.57	247	44.4	103	161	308	<0.263	<0.194	0.983	0.328	<0.002	<0.004	0.063	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	8.19	181	1253	458	63.2	72.9	209	37.8	111	173	576	1.04	7.22	2.25	0.359	0.011	0.002	0.02	0.5	8.9
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.96	253	2046	1603	106	359	251	53.2	299	245	1255	4.16	20.9	7.13	0.57	0.051	0.002	0.063	0.5	30
Median value	8.22	167	1127	207	56.3	0.969	247	44.4	68.4	189	437	0.353	5.48	0.983	0.393	0.001	0.002	0.004	0.5	0.5
Minimum value	7.53	147	848	57.6	22.1	0.57	58.7	0.544	37	57.9	308	0.1315	0.097	0.062	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	7.53	147	848	57.6	22.1	0.57	58.7	0.544	37	57.9	308	0.132	0.097	0.062	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	8.22	167	1127	207	56.3	0.969	247	44.4	68.4	189	437	0.353	5.48	0.983	0.393	0.001	0.002	0.004	0.5	0.5
95 Percentile	8.96	253	2046	1603	106	359	251	53.2	299	245	1255	4.16	20.9	7.13	0.57	0.051	0.002	0.063	0.5	30
Standard Dev ±	±0.647	±41.3	±460	±645	±31.7	±160	±84.0	±21.3	±108	±71.4	±384	±1.75	±8.49	±2.97	±0.219	±0.022	±0.000	±0.027	±0.000	±13.0

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON07	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole South East of Southern Coal Stockpile	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.42	147	1058	856	51.2	177	43.4	2.69	517	64	374	<0.263	2.12	1.18	<0.009	<0.002	<0.004	0.26	0	0
25 Sep 2024	7.49	218	1647	1392	88.2	285	53.5	1.64	627	87.2	707	<0.263	0.863	0.421	0.266	<0.002	<0.004	0.164	0	0
23 Dec 2024	7.81	220	1556	1340	99	265	56.3	1.14	657	84.4	606	4.64	0.391	0.185	<0.009	<0.002	<0.004	0.189	0	20
26 Mar 2025	8.65	60.1	353	285	10.5	63	29.5	2.91	185	27.5	99.2	<0.263	0.361	0.022	<0.009	<0.002	<0.004	<0.001	0	0
25 Jun 2025	8.33	61.7	383	328	16.1	69.9	21.3	0.754	264	41.9	59.7	<0.263	0.422	0.03	0.03	<0.002	<0.004	0.03	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	8.14	141	999	840	53	172	40.8	1.83	450	61	369	1.03	0.831	0.368	0.062	0.001	0.002	0.129	0.5	4.4
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.65	220	1647	1392	99	285	56.3	2.91	657	87.2	707	4.64	2.12	1.18	0.266	0.001	0.002	0.26	0.5	20
Median value	8.33	147	1058	856	51.2	177	43.4	1.64	517	64	374	0.132	0.422	0.185	0.004	0.001	0.002	0.164	0.5	0.5
Minimum value	7.49	60.1	353	285	10.5	63	21.3	0.754	185	27.5	59.7	0.1315	0.361	0.022	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	7.49	60.1	353	285	10.5	63	21.3	0.754	185	27.5	59.7	0.132	0.361	0.022	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	8.33	147	1058	856	51.2	177	43.4	1.64	517	64	374	0.132	0.422	0.185	0.004	0.001	0.002	0.164	0.5	0.5
95 Percentile	8.65	220	1647	1392	99	285	56.3	2.91	657	87.2	707	4.64	2.12	1.18	0.266	0.001	0.002	0.26	0.5	20
Standard Dev ±	±0.476	±78.9	±619	±530	±40.4	±105	±15.1	±0.946	±214	±26.1	±291	±2.02	±0.749	±0.483	±0.115	±0.000	±0.000	±0.110	±0.000	±8.72



LEADERS IN ENVIRONMENTAL MONITORING

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON09	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Background deep	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.16	42	298	252	8.37	56	4.46	0.789	181	28.9	25.6	<0.263	2.81	0.063	<0.009	<0.002	<0.004	<0.001	0	3
25 Sep 2024	7.91	40.3	278	224	7.26	49.9	3.67	0.62	159	27.9	24.9	0.778	3.16	0.063	<0.009	0.013	<0.004	<0.001	0	2
23 Dec 2024	8.18	41.6	274	236	7.67	52.7	2.96	0.515	160	26	22.1	0.681	2.73	0.021	<0.009	<0.002	<0.004	<0.001	1	1
26 Mar 2025	7.5	42.3	257	225	7.93	49.9	4.01	0.664	146	28	24.1	<0.263	1.98	0.704	0.076	<0.002	<0.004	<0.001	0	0
25 Jun 2025	7.57	40.8	273	211	7.23	46.9	4.31	0.206	161	25.8	24.1	<0.263	2.5	0.131	<0.009	<0.002	<0.004	<0.001	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	7.86	41.4	276	230	7.69	51.1	3.88	0.559	161	27.3	24.2	0.371	2.64	0.196	0.019	0.003	0.002	0	0.6	1.4
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.18	42.3	298	252	8.37	56	4.47	0.789	181	28.9	25.6	0.778	3.16	0.704	0.076	0.013	0.002	0.0005	1	3
Median value	7.91	41.6	274	225	7.67	49.9	4.01	0.62	160	27.9	24.1	0.132	2.73	0.063	0.004	0.001	0.002	0	0.5	1
Minimum value	7.5	40.3	257	211	7.23	46.9	2.96	0.206	146	25.8	22.1	0.1315	1.98	0.021	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	7.5	40.3	257	211	7.23	46.9	2.96	0.206	146	25.8	22.1	0.132	1.98	0.021	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	7.91	41.6	274	225	7.67	49.9	4.01	0.62	160	27.9	24.1	0.132	2.73	0.063	0.004	0.001	0.002	0	0.5	1
95 Percentile	8.18	42.3	298	252	8.37	56	4.47	0.789	181	28.9	25.6	0.778	3.16	0.704	0.076	0.013	0.002	0	1	3
Standard Dev ±	±0.320	±0.842	±14.7	±15.1	±0.479	±3.42	±0.600	±0.220	±12.5	±1.33	±1.31	±0.329	±0.438	±0.286	±0.032	±0.005	±0.000	±0.000	±0.224	±1.08

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON10	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Background shallow	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	7.32	45.3	322	266	7.78	59.9	5.85	0.489	153	40.4	51.5	<0.263	2.89	0.059	<0.009	<0.002	<0.004	0.063	0	10
25 Sep 2024	7.12	45.3	308	254	7.01	57.4	5.84	0.457	128	39.4	54.3	0.543	3.09	0.066	<0.009	0.012	<0.004	<0.001	0	5
23 Dec 2024	7.44	45.6	304	254	7.15	57.4	5.35	0.258	133	38.2	53.2	0.571	2.84	0.012	<0.009	<0.002	<0.004	<0.001	0	40
26 Mar 2025	7.19	47.2	290	247	7.28	55.5	6.11	0.455	116	39.9	57.4	<0.263	2.02	0.101	0.028	<0.002	<0.004	<0.001	0	8
25 Jun 2025	7.13	44.1	307	230	6.45	51.9	5.62	<0.015	145	35.3	57.6	<0.263	2.07	0.029	<0.009	<0.002	<0.004	<0.001	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	7.24	45.5	306	250	7.14	56.4	5.76	0.333	135	38.6	54.8	0.302	2.58	0.053	0.009	0.003	0.002	0.013	0.5	12.7
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	7.44	47.2	322	266	7.78	59.9	6.11	0.489	153	40.4	57.6	0.571	3.09	0.101	0.028	0.012	0.002	0.063	0.5	40
Median value	7.19	45.3	307	254	7.15	57.4	5.84	0.455	133	39.4	54.3	0.132	2.84	0.059	0.004	0.001	0.002	0	0.5	8
Minimum value	7.12	44.1	290	230	6.45	51.9	5.35	0.0075	116	35.3	51.5	0.1315	2.02	0.012	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	7.12	44.1	290	230	6.45	51.9	5.35	0.008	116	35.3	51.5	0.132	2.02	0.012	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	7.19	45.3	307	254	7.15	57.4	5.84	0.455	133	39.4	54.3	0.132	2.84	0.059	0.004	0.001	0.002	0	0.5	8
95 Percentile	7.44	47.2	322	266	7.78	59.9	6.11	0.489	153	40.4	57.6	0.571	3.09	0.101	0.028	0.012	0.002	0.063	0.5	40
Standard Dev ±	±0.137	±1.10	±11.7	±13.3	±0.482	±2.97	±0.284	±0.204	±14.4	±2.00	±2.65	±0.233	±0.502	±0.035	±0.011	±0.005	±0.000	±0.028	±0.000	±15.7

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON11	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Fuel storage	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	7.65	23.1	155	93	9.21	17	10.4	1.6	45.5	9.81	39	<0.263	3.04	0.061	0.032	0.002	<0.004	0.396	0	0
25 Sep 2024	7.04	23.8	163	105	9.95	19.5	9.44	1.75	61.9	11.8	44.8	0.669	0.762	0.062	0.037	<0.002	<0.004	0.181	0	30
23 Dec 2024	6.92	24.9	146	85	17.6	9.97	7.12	4.58	69.4	6.19	42.1	0.608	<0.194	5.11	0.599	<0.002	0.287	0.062	120	1000
26 Mar 2025	6.99	14.2	79	56	14.1	4.98	2.16	1.95	25.7	1.1	29.7	0.4	0.775	0.386	0.071	<0.002	<0.004	0.504	140	102000
25 Jun 2025	7.07	10.9	71	39	8.42	4.31	3.53	0.342	32.4	0.815	15.6	<0.263	0.279	0.029	0.029	<0.002	<0.004	0.017	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	7.13	19.4	123	75.6	11.9	11.2	6.52	2.04	47	5.95	34.3	0.388	0.99	1.13	0.154	0.001	0.059	0.232	52.3	20606
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	7.65	24.9	163	105	17.6	19.5	10.4	4.58	69.4	11.8	44.8	0.669	3.04	5.11	0.599	0.002	0.287	0.504	140	102000
Median value	7.04	23.1	146	85	9.95	9.97	7.12	1.75	45.5	6.19	39	0.4	0.762	0.062	0.037	0.001	0.002	0.181	0.5	30
Minimum value	6.92	10.9	70.9	38.8	8.42	4.31	2.16	0.342	25.7	0.815	15.6	0.1315	0.097	0.029	0.029	0.001	0.002	0.017	0.5	0.5
5 Percentile	6.92	10.9	70.9	38.8	8.42	4.31	2.16	0.342	25.7	0.815	15.6	0.132	0.097	0.029	0.029	0.001	0.002	0.017	0.5	0.5
50 Percentile	7.04	23.1	146	85	9.95	9.97	7.12	1.75	45.5	6.19	39	0.4	0.762	0.062	0.037	0.001	0.002	0.181	0.5	30
95 Percentile	7.65	24.9	163	105	17.6	19.5	10.4	4.58	69.4	11.8	44.8	0.669	3.04	5.11	0.599	0.002	0.287	0.504	140	102000
Standard Dev ±	±0.294	±6.36	±44.2	±27.4	±3.89	±6.90	±3.59	±1.55	±18.6	±4.98	±11.9	±0.255	±1.18	±2.23	±0.250	±0.001	±0.127	±0.211	±71.3	±45503

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON12	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	HFO storage	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8	126	919	702	77.3	124	33.8	2.96	311	44.4	317	0.532	16.8	0.071	<0.009	<0.002	<0.004	<0.001	0	0
25 Sep 2024	7.12	114	859	681	62	128	27.6	2.4	288	38.3	285	0.331	18.5	0.135	0.042	<0.002	<0.004	<0.001	0	0
23 Dec 2024	7.38	110	781	590	57.4	109	27.2	2.06	289	36.6	244	0.534	16.9	0.201	0.016	<0.002	<0.004	<0.001	0	0
26 Mar 2025	7.66	121	770	621	59.8	115	27.9	7.78	361	41.6	233	<0.263	1.97	6.25	2.21	<0.002	<0.004	0.06	0	0
25 Jun 2025	6.93	200	1485	1067	153	167	54.3	7.58	509	110	569	<0.263	11.3	9.6	1.35	<0.002	<0.004	0.049	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	7.42	134	963	733	81.9	128	34.1	4.56	352	54.2	330	0.332	13.1	3.25	0.723	0.001	0.002	0.022	0.5	0.5
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8	200	1485	1067	153	167	54.3	7.78	509	110	569	0.534	18.5	9.6	2.21	0.001	0.002	0.06	0.5	0.5
Median value	7.38	121	859	681	62	124	27.9	2.96	311	41.6	285	0.331	16.8	0.201	0.042	0.001	0.002	0	0.5	0.5
Minimum value	6.93	110	770	590	57.4	109	27.2	2.06	288	36.6	233	0.1315	1.97	0.071	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	6.93	110	770	590	57.4	109	27.2	2.06	288	36.6	233	0.132	1.97	0.071	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	7.38	121	859	681	62	124	27.9	2.96	311	41.6	285	0.331	16.8	0.201	0.042	0.001	0.002	0	0.5	0.5
95 Percentile	8	200	1485	1067	153	167	54.3	7.78	509	110	569	0.534	18.5	9.6	2.21	0.001	0.002	0.06	0.5	0.5
Standard Dev ±	±0.426	±37.2	±298	±193	±40.4	±22.7	±11.6	±2.87	±92.6	±31.3	±138	±0.201	±6.77	±4.43	±1.01	±0.000	±0.000	±0.030	±0.000	±0.000

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON13	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Brick Yard	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	7.89	253	2100	1736	47.3	393	54.8	0.755	340	55.7	1266	<0.263	4.13	0.162	<0.009	<0.002	<0.004	0.003	0	0
25 Sep 2024	7.03	249	2138	1716	47.5	388	54.2	0.66	281	60.2	1335	<0.263	6.04	0.157	<0.009	<0.002	<0.004	0.012	0	0
23 Dec 2024	7.29	251	2083	1620	50.6	363	59.6	0.533	305	58.6	1280	4.26	5.87	0.115	<0.009	<0.002	<0.004	<0.001	0	7
26 Mar 2025	7.18	248	2031	1554	41.5	352	50	0.382	275	56.6	1292	<0.263	5.29	0.164	<0.009	<0.002	<0.004	<0.001	0	0
25 Jun 2025	7.02	237	2019	1572	39.6	358	46.1	<0.015	337	53.4	1236	<0.263	5.22	0.153	<0.009	<0.002	<0.004	<0.001	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	7.28	247	2074	1640	45.3	371	52.9	0.468	308	56.9	1282	0.957	5.31	0.15	0.004	0.001	0.002	0.003	0.5	1.8
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	7.89	253	2138	1736	50.6	393	59.6	0.755	340	60.2	1335	4.26	6.04	0.164	0.0045	0.001	0.002	0.012	0.5	7
Median value	7.18	249	2083	1620	47.3	363	54.2	0.533	305	56.6	1280	0.132	5.29	0.157	0.004	0.001	0.002	0	0.5	0.5
Minimum value	7.02	237	2019	1554	39.6	352	46.1	0.0075	275	53.4	1236	0.1315	4.13	0.115	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	7.02	237	2019	1554	39.6	352	46.1	0.008	275	53.4	1236	0.132	4.13	0.115	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	7.18	249	2083	1620	47.3	363	54.2	0.533	305	56.6	1280	0.132	5.29	0.157	0.004	0.001	0.002	0	0.5	0.5
95 Percentile	7.89	253	2138	1736	50.6	393	59.6	0.755	340	60.2	1335	4.26	6.04	0.164	0.004	0.001	0.002	0.012	0.5	7
Standard Dev ±	±0.358	±6.02	±49.2	±83.0	±4.60	±18.5	±5.09	±0.293	±30.6	±2.59	±36.5	±1.85	±0.752	±0.020	±0.000	±0.000	±0.000	±0.005	±0.000	±2.91

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON14	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Switch yard	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	7.45	103	763	608	13.3	140	18.7	0.785	138	32.4	418	<0.263	3.88	0.052	<0.009	<0.002	<0.004	0.043	0	10
25 Sep 2024	7.35	93.6	733	551	11.6	127	15.2	0.655	114	35.5	416	0.512	4.66	0.064	<0.009	0.069	<0.004	0.024	0	4
23 Dec 2024	7.53	99.2	756	621	14.5	142	15.4	0.56	122	35.1	398	0.667	6.11	0.011	<0.009	<0.002	<0.004	<0.001	0	0
26 Mar 2025	7.56	89.6	643	497	10.2	115	14.9	0.662	60.5	32.9	410	<0.263	2.34	0.018	<0.009	<0.002	<0.004	0.2	0	51
25 Jun 2025	8.31	86.5	607	477	9.93	110	14.2	<0.015	107	32.1	355	<0.263	1.69	0.025	0.031	<0.002	<0.004	<0.001	0	10

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	7.64	94.4	700	551	11.9	127	15.7	0.534	108	33.6	399	0.315	3.73	0.034	0.01	0.015	0.002	0.054	0.5	15.1
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.31	103	763	621	14.5	142	18.7	0.785	138	35.5	418	0.667	6.11	0.064	0.031	0.069	0.002	0.2	0.5	51
Median value	7.53	93.6	733	551	11.6	127	15.2	0.655	114	32.9	410	0.132	3.88	0.025	0.004	0.001	0.002	0.024	0.5	10
Minimum value	7.35	86.5	607	477	9.93	110	14.2	0.0075	60.5	32.1	355	0.1315	1.69	0.011	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	7.35	86.5	607	477	9.93	110	14.2	0.008	60.5	32.1	355	0.132	1.69	0.011	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	7.53	93.6	733	551	11.6	127	15.2	0.655	114	32.9	410	0.132	3.88	0.025	0.004	0.001	0.002	0.024	0.5	10
95 Percentile	8.31	103	763	621	14.5	142	18.7	0.785	138	35.5	418	0.667	6.11	0.064	0.031	0.069	0.002	0.2	0.5	51
Standard Dev ±	±0.383	±6.84	±70.9	±64.4	±1.98	±14.5	±1.75	±0.305	±29.1	±1.58	±26.2	±0.257	±1.78	±0.023	±0.012	±0.030	±0.000	±0.084	±0.000	±20.5

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON16	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Clinker dump (replace KPS-MON03)	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
24 Jun 2024	8.02	186	1486	1213	111	227	16.2	0.441	224	61.5	852	0.84	4.06	1.18	1.88	<0.002	<0.004	0.002	0	0
25 Sep 2024	6.99	185	1506	1254	111	237	16.3	0.319	194	65.4	873	0.359	5.55	0.109	<0.009	<0.002	<0.004	0.022	0	80
23 Dec 2024	7.25	176	1439	1180	110	220	16	0.166	208	63.8	816	1.77	5.23	0.061	<0.009	<0.002	<0.004	<0.001	0	14
26 Mar 2025	7.38	166	1299	1045	96	196	14	0.123	194	62.6	741	<0.263	4.56	0.04	<0.009	<0.002	<0.004	<0.001	0	21
25 Jun 2025	6.96	198	1561	1323	122	247	15.9	<0.015	238	57.6	887	<0.263	3.75	0.078	0.044	<0.002	<0.004	<0.001	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	7.32	182	1458	1203	110	226	15.7	0.211	212	62.2	834	0.646	4.63	0.294	0.388	0.001	0.002	0.005	0.5	23.2
Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Maximum value	8.02	198	1561	1323	122	247	16.4	0.441	238	65.4	887	1.77	5.55	1.18	1.89	0.001	0.002	0.022	0.5	80
Median value	7.25	185	1486	1213	111	227	16	0.166	208	62.6	852	0.359	4.56	0.078	0.004	0.001	0.002	0	0.5	14
Minimum value	6.96	166	1299	1045	96	196	14	0.0075	194	57.6	741	0.1315	3.75	0.04	0.0045	0.001	0.002	0.0005	0.5	0.5
5 Percentile	6.96	166	1299	1045	96	196	14	0.008	194	57.6	741	0.132	3.75	0.04	0.004	0.001	0.002	0	0.5	0.5
50 Percentile	7.25	185	1486	1213	111	227	16	0.166	208	62.6	852	0.359	4.56	0.078	0.004	0.001	0.002	0	0.5	14
95 Percentile	8.02	198	1561	1323	122	247	16.4	0.441	238	65.4	887	1.77	5.55	1.18	1.89	0.001	0.002	0.022	0.5	80
Standard Dev ±	±0.429	±11.9	±99.1	±103	±9.39	±19.6	±0.946	±0.170	±19.4	±2.95	±58.4	±0.690	±0.759	±0.498	±0.837	±0.000	±0.000	±0.010	±0.000	±33.0

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-NBH01	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Newly drilled monitoring borehole - Mar 2025	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
26 Mar 2025	8.49	101	523	474	17.3	105	20.2	1.16	167	121	153	<0.263	0.223	1.01	<0.009	<0.002	<0.004	0.077	0	200
25 Jun 2025	7.95	94.3	506	480	29	99	8.05	<0.015	214	115	115	<0.263	0.204	0.047	<0.009	<0.002	<0.004	0.073	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	8.22	97.7	515	477	23.1	102	14.1	0.583	191	118	134	0.132	0.214	0.528	0.004	0.001	0.002	0.075	0.5	100
Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Maximum value	8.49	101	523	480	29	105	20.2	1.16	214	121	153	0.1315	0.223	1.01	0.0045	0.001	0.002	0.077	0.5	200
Median value	8.22	97.7	515	477	23.1	102	14.1	0.583	191	118	134	0.132	0.214	0.528	0.004	0.001	0.002	0.075	0.5	100
Minimum value	7.95	94.3	506	474	17.3	99	8.05	0.0075	167	115	115	0.1315	0.204	0.047	0.0045	0.001	0.002	0.073	0.5	0.5
5 Percentile	7.95	94.3	506	474	17.3	99	8.05	0.008	167	115	115	0.132	0.204	0.047	0.004	0.001	0.002	0.073	0.5	0.5
50 Percentile	7.95	94.3	506	474	17.3	99	8.05	0.008	167	115	115	0.132	0.204	0.047	0.004	0.001	0.002	0.073	0.5	0.5
95 Percentile	8.49	101	523	480	29	105	20.2	1.16	214	121	153	0.132	0.223	1.01	0.004	0.001	0.002	0.077	0.5	200
Standard Dev ±	±0.382	±4.87	±11.8	±4.02	±8.29	±4.05	±8.59	±0.814	±32.9	±4.64	±26.6	±0.000	±0.013	±0.680	±0.000	±0.000	±0.000	±0.003	±0.000	±141

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-NBH02	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Newly drilled monitoring borehole - Mar 2025	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
26 Mar 2025	8.07	129	850	730	49.2	147	12.8	0.857	209	89.9	413	<0.263	0.287	0.997	<0.009	<0.002	<0.004	0.128	0	80
25 Jun 2025	8.09	119	793	659	37.3	137	12.5	<0.015	228	85.1	377	<0.263	0.227	0.023	0.052	<0.002	<0.004	0.085	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	8.08	124	822	695	43.2	142	12.7	0.432	218	87.5	395	0.132	0.257	0.51	0.028	0.001	0.002	0.107	0.5	40.3
Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Maximum value	8.09	129	850	730	49.2	147	12.8	0.857	228	89.9	413	0.1315	0.287	0.997	0.052	0.001	0.002	0.128	0.5	80
Median value	8.08	124	822	695	43.2	142	12.7	0.432	218	87.5	395	0.132	0.257	0.51	0.028	0.001	0.002	0.107	0.5	40.3
Minimum value	8.07	119	793	659	37.3	137	12.5	0.0075	209	85.1	377	0.1315	0.227	0.023	0.0045	0.001	0.002	0.085	0.5	0.5
5 Percentile	8.07	119	793	659	37.3	137	12.5	0.008	209	85.1	377	0.132	0.227	0.023	0.004	0.001	0.002	0.085	0.5	0.5
50 Percentile	8.07	119	793	659	37.3	137	12.5	0.008	209	85.1	377	0.132	0.227	0.023	0.004	0.001	0.002	0.085	0.5	0.5
95 Percentile	8.09	129	850	730	49.2	147	12.8	0.857	228	89.9	413	0.132	0.287	0.997	0.052	0.001	0.002	0.128	0.5	80
Standard Dev ±	±0.014	±7.18	±40.2	±50.1	±8.41	±7.08	±0.165	±0.601	±13.9	±3.39	±25.9	±0.000	±0.042	±0.689	±0.034	±0.000	±0.000	±0.030	±0.000	±56.2

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-NBH03	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Newly drilled monitoring borehole - Mar 2025	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)	Value exceeds the assessment set	

DATA TABLE

VARIABLE	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
UNITS	pH	mS/m	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	CFU/100ml	CFU/100ml
ASSESSMENT SET	6.0 / 9.0	70	-	650	-	100	400	-	-	600	600	1.5	10	-	-	-	1	1	0	5
26 Mar 2025	8.12	77.5	419	412	20.6	87.5	8.55	1.05	245	52.3	81.7	0.618	2.11	1.4	<0.009	<0.002	<0.004	0.976	0	0
25 Jun 2025	8.93	67.6	403	383	11.8	85.8	8.83	0.692	248	54.4	84	<0.263	<0.194	2.41	<0.009	<0.002	<0.004	0.054	0	0

STATISTICAL SUMMARY

Variable	pH	EC	TDS cal	Total Hardness	Ca	Mg	Na	K	Total Alkalinity	Cl	SO ₄	F	NO ₃ -N	NH ₄ -N	PO ₄ -P	Al	Fe	Mn	E.coli	Total coliforms
Average	8.53	72.5	411	397	16.2	86.6	8.69	0.871	247	53.3	82.8	0.375	1.1	1.9	0.004	0.001	0.002	0.515	0.5	0.5
Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Maximum value	8.93	77.5	419	412	20.6	87.5	8.83	1.05	248	54.4	84	0.618	2.11	2.41	0.0045	0.001	0.002	0.976	0.5	0.5
Median value	8.53	72.5	411	397	16.2	86.6	8.69	0.871	247	53.3	82.8	0.375	1.1	1.9	0.004	0.001	0.002	0.515	0.5	0.5
Minimum value	8.12	67.6	403	383	11.8	85.8	8.55	0.692	245	52.3	81.7	0.1315	0.097	1.4	0.0045	0.001	0.002	0.054	0.5	0.5
5 Percentile	8.12	67.6	403	383	11.8	85.8	8.55	0.692	245	52.3	81.7	0.132	0.097	1.4	0.004	0.001	0.002	0.054	0.5	0.5
50 Percentile	8.12	67.6	403	383	11.8	85.8	8.55	0.692	245	52.3	81.7	0.132	0.097	1.4	0.004	0.001	0.002	0.054	0.5	0.5
95 Percentile	8.93	77.5	419	412	20.6	87.5	8.83	1.05	248	54.4	84	0.618	2.11	2.41	0.004	0.001	0.002	0.976	0.5	0.5
Standard Dev ±	±0.573	±7.00	±11.8	±20.5	±6.23	±1.20	±0.200	±0.252	±2.40	±1.50	±1.67	±0.344	±1.42	±0.713	±0.000	±0.000	±0.000	±0.652	±0.000	±0.000

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS BH01	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Western Perimeter - Toe of Ash Dam B	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	0.007	0.035	<0.004	<0.002	8.24	-	<0.001	432	6.59	0.08						
25 Sep 2024	<0.002	<0.003	<0.003	0.025	0.054	<0.004	<0.002	8.31	-	<0.001	356	0.766	0.01						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	0.021	<0.004	<0.002	7.78	<0.006	0.072	364	1.97	0.03						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	0.014	<0.004	<0.002	5.99	-	0.086	445	3.48	0.04						
25 Jun 2025	0.003	0.007	<0.003	<0.002	0.028	<0.004	<0.002	9.11	-	<0.001	501	1.16	0.01						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.003	0.002	0.007	0.03	0.002	0.001	7.89	0.003	0.032	420	2.79	0.035						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.003	0.007	0.0015	0.025	0.054	0.002	0.001	9.11	0.003	0.086	501	6.59	0.081						
Median value	0.001	0.002	0.002	0.001	0.028	0.002	0.001	8.24	0.003	0	432	1.97	0.029						
Minimum value	0.001	0.0015	0.0015	0.001	0.014	0.002	0.001	5.99	0.003	0.0005	356	0.766	0.011						
5 Percentile	0.001	0.002	0.002	0.001	0.014	0.002	0.001	5.99	0.003	0	356	0.766	0.011						
50 Percentile	0.001	0.002	0.002	0.001	0.028	0.002	0.001	8.24	0.003	0	432	1.97	0.029						
95 Percentile	0.003	0.007	0.002	0.025	0.054	0.002	0.001	9.11		0.086	501	6.59	0.081						
Standard Dev ±	±0.001	±0.002	±0.000	±0.010	±0.015	±0.000	±0.000	±1.16		±0.043	±60.2	±2.36	±0.029						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS BH02	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Southern Toe of Ash Dam B	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	0.006	0.006	<0.004	<0.002	15.2	-	0.001	243	3.15	0.07						
25 Sep 2024	<0.002	<0.003	<0.003	0.056	0.015	<0.004	<0.002	15.8	-	0.002	206	0.612	0.02						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	14.5	<0.006	0.071	218	1.49	0.04						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	0.008	<0.004	<0.002	13.3	-	0.078	206	3.95	0.1						
25 Jun 2025	<0.002	0.005	<0.003	<0.002	0.017	<0.004	<0.002	16.4	-	<0.001	249	0.87	0.02						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.002	0.013	0.009	0.002	0.001	15.1	0.003	0.03	224	2.01	0.048						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.001	0.005	0.0015	0.056	0.017	0.002	0.001	16.4	0.003	0.078	249	3.95	0.102						
Median value	0.001	0.002	0.002	0.001	0.008	0.002	0.001	15.2	0.003	0.002	218	1.49	0.036						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	13.3	0.003	0.0005	206	0.612	0.016						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	13.3	0.003	0	206	0.612	0.016						
50 Percentile	0.001	0.002	0.002	0.001	0.008	0.002	0.001	15.2	0.003	0.002	218	1.49	0.036						
95 Percentile	0.001	0.005	0.002	0.056	0.017	0.002	0.001	16.4		0.078	249	3.95	0.102						
Standard Dev ±	±0.000	±0.002	±0.000	±0.024	±0.007	±0.000	±0.000	±1.21		±0.040	±20.4	±1.46	±0.037						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS BH04	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Western Perimeter	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	0.006	<0.002	<0.004	<0.002	16.6	-	<0.001	323	6.19	0.1						
25 Sep 2024	<0.002	<0.003	<0.003	0.023	0.004	<0.004	<0.002	17.3	-	<0.001	272	1.04	0.02						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	16.4	<0.006	0.07	290	3.94	0.07						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	0.002	<0.004	<0.002	14.2	-	0.076	276	7.48	0.14						
25 Jun 2025	0.006	0.006	<0.003	0.045	0.003	<0.004	<0.002	17.8	-	<0.001	330	1.91	0.03						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.002	0.002	0.002	0.015	0.002	0.002	0.001	16.5	0.003	0.03	298	4.11	0.074						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.006	0.006	0.0015	0.045	0.004	0.002	0.001	17.8	0.003	0.076	330	7.48	0.144						
Median value	0.001	0.002	0.002	0.006	0.002	0.002	0.001	16.6	0.003	0	290	3.94	0.072						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	14.2	0.003	0.0005	272	1.04	0.02						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	14.2	0.003	0	272	1.04	0.02						
50 Percentile	0.001	0.002	0.002	0.006	0.002	0.002	0.001	16.6	0.003	0	290	3.94	0.072						
95 Percentile	0.006	0.006	0.002	0.045	0.004	0.002	0.001	17.8		0.076	330	7.48	0.144						
Standard Dev ±	±0.002	±0.002	±0.000	±0.019	±0.001	±0.000	±0.000	±1.40		±0.040	±26.7	±2.74	±0.051						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS BH05	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on SOuthern Perimeter - South of Ash Dam A	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	0.005	0.005	<0.004	<0.002	18.3	-	<0.001	283	5.82	0.11						
25 Sep 2024	<0.002	<0.003	<0.003	0.03	0.011	<0.004	<0.002	18.8	-	<0.001	246	1.75	0.04						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	18.3	<0.006	0.066	267	2.57	0.05						
26 Mar 2025	<0.002	0.004	<0.003	<0.002	0.019	<0.004	<0.002	15.7	-	0.067	240	6.51	0.14						
25 Jun 2025	<0.002	0.004	<0.003	<0.002	0.019	<0.004	<0.002	19.7	-	<0.001	292	3.01	0.06						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.003	0.002	0.008	0.011	0.002	0.001	18.2	0.003	0.027	266	3.93	0.079						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.001	0.004	0.0015	0.03	0.019	0.002	0.001	19.7	0.003	0.067	292	6.51	0.144						
Median value	0.001	0.002	0.002	0.001	0.011	0.002	0.001	18.3	0.003	0	267	3.01	0.055						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	15.7	0.003	0.0005	240	1.75	0.038						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	15.7	0.003	0	240	1.75	0.038						
50 Percentile	0.001	0.002	0.002	0.001	0.011	0.002	0.001	18.3	0.003	0	267	3.01	0.055						
95 Percentile	0.001	0.004	0.002	0.03	0.019	0.002	0.001	19.7		0.067	292	6.51	0.144						
Standard Dev ±	±0.000	±0.001	±0.000	±0.013	±0.008	±0.000	±0.000	±1.51		±0.036	±22.6	±2.10	±0.045						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS BH07	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on South Western Perimeter	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	0.005	<0.002	<0.004	<0.002	21	-	0.004	276	3.58	0.07						
25 Sep 2024	<0.002	<0.003	<0.003	0.023	<0.002	<0.004	<0.002	22.9	-	0.004	249	1.05	0.02						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	22.6	<0.006	0.076	258	2.07	0.04						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	0.015	<0.004	<0.002	6.14	-	0.048	118	0.474	0.02						
25 Jun 2025	<0.002	0.007	<0.003	0.015	0.012	<0.004	<0.002	6.72	-	<0.001	133	0.496	0.02						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.003	0.002	0.009	0.006	0.002	0.001	15.9	0.003	0.027	207	1.53	0.035						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.001	0.007	0.0015	0.023	0.015	0.002	0.001	22.9	0.003	0.076	276	3.58	0.069						
Median value	0.001	0.002	0.002	0.005	0.001	0.002	0.001	21	0.003	0.004	249	1.05	0.022						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	6.14	0.003	0.0005	118	0.474	0.02						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	6.14	0.003	0	118	0.474	0.02						
50 Percentile	0.001	0.002	0.002	0.005	0.001	0.002	0.001	21	0.003	0.004	249	1.05	0.022						
95 Percentile	0.001	0.007	0.002	0.023	0.015	0.002	0.001	22.9		0.076	276	3.58	0.069						
Standard Dev ±	±0.000	±0.002	±0.000	±0.010	±0.007	±0.000	±0.000	±8.66		±0.034	±75.2	±1.31	±0.021						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON01	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Northern Perimeter next to Coal Stockpile	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	0.006	0.025	<0.004	<0.002	13	-	<0.001	241	4.31	0.1						
25 Sep 2024	<0.002	<0.003	<0.003	0.024	0.026	<0.004	<0.002	15.9	-	<0.001	222	0.794	0.02						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	0.006	<0.004	<0.002	14.6	<0.006	0.071	238	2.51	0.06						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	0.009	<0.004	<0.002	0.34	-	0.06	162	0.592	0.02						
25 Jun 2025	<0.002	<0.003	<0.003	0.017	0.015	<0.004	<0.002	3.56	-	<0.001	183	1.85	0.05						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.002	0.01	0.016	0.002	0.001	9.49	0.003	0.026	209	2.01	0.049						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.001	0.0015	0.0015	0.024	0.026	0.002	0.001	15.9	0.003	0.071	241	4.31	0.095						
Median value	0.001	0.002	0.002	0.006	0.015	0.002	0.001	13	0.003	0	222	1.85	0.054						
Minimum value	0.001	0.0015	0.0015	0.001	0.006	0.002	0.001	0.34	0.003	0.0005	162	0.592	0.019						
5 Percentile	0.001	0.002	0.002	0.001	0.006	0.002	0.001	0.34	0.003	0	162	0.592	0.019						
50 Percentile	0.001	0.002	0.002	0.006	0.015	0.002	0.001	13	0.003	0	222	1.85	0.054						
95 Percentile	0.001	0.002	0.002	0.024	0.026	0.002	0.001	15.9		0.071	241	4.31	0.095						
Standard Dev ±	±0.000	±0.000	±0.000	±0.010	±0.009	±0.000	±0.000	±7.05		±0.036	±34.8	±1.50	±0.032						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON02	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Northern Perimeter South of Coal Stockpile	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	2.84	-	<0.001	94.5	1.51	0.09						
25 Sep 2024	<0.002	<0.003	<0.003	0.017	<0.002	<0.004	<0.002	3.35	-	<0.001	95.3	2.15	0.12						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	4.2	<0.006	0.053	89.8	0.97	0.06						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	0.034	-	0.017	28.5	0.114	0.02						
25 Jun 2025	0.002	0.005	<0.003	<0.002	<0.002	<0.004	<0.002	0.114	-	<0.001	33.3	2.43	0.39						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.002	0.004	0.001	0.002	0.001	2.11	0.003	0.014	68.3	1.43	0.134						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.002	0.005	0.0015	0.017	0.001	0.002	0.001	4.2	0.003	0.053	95.3	2.43	0.388						
Median value	0.001	0.002	0.002	0.001	0.001	0.002	0.001	2.85	0.003	0	89.8	1.51	0.085						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	0.034	0.003	0.0005	28.5	0.114	0.021						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.034	0.003	0	28.5	0.114	0.021						
50 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	2.85	0.003	0	89.8	1.51	0.085						
95 Percentile	0.002	0.005	0.002	0.017	0.001	0.002	0.001	4.2		0.053	95.3	2.43	0.388						
Standard Dev ±	±0.001	±0.001	±0.000	±0.007	±0.000	±0.000	±0.000	±1.92		±0.023	±34.3	±0.930	±0.146						



LEADERS IN ENVIRONMENTAL MONITORING

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON03	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole North of Ash Dump - North Western Perimeter	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 Sep 2024	<0.002	<0.003	<0.003	0.021	<0.002	<0.004	<0.002	2.77	-	<0.001	168	16.1	0.51						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	1.29	<0.006	0.06	181	12.6	0.37						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	0.119	-	0.035	55.2	0.582	0.06						
25 Jun 2025	<0.002	<0.003	<0.003	0.004	<0.002	<0.004	<0.002	0.351	-	<0.001	54.3	10.7	1.05						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.002	0.007	0.001	0.002	0.001	1.13	0.003	0.024	114	10	0.496						
Count	4	4	4	4	4	4	4	4	1	4	4	4	4						
Maximum value	0.001	0.0015	0.0015	0.021	0.001	0.002	0.001	2.77	0.003	0.06	181	16.1	1.05						
Median value	0.001	0.002	0.002	0.003	0.001	0.002	0.001	0.819	0.003	0.018	111	11.6	0.442						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	0.119	0.003	0.0005	54.3	0.582	0.056						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.119	0.003	0	54.3	0.582	0.056						
50 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.351	0.003	0	55.2	10.7	0.371						
95 Percentile	0.001	0.002	0.002	0.021	0.001	0.002	0.001	2.77		0.06	181	16.1	1.05						
Standard Dev ±	±0.000	±0.000	±0.000	±0.010	±0.000	±0.000	±0.000	±1.20		±0.029	±69.2	±6.67	±0.413						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON04	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Western Perimeter between the Ash Dump and Ash Dam B	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	0.007	<0.002	<0.004	<0.002	16.1	-	<0.001	281	5.52	0.1						
25 Sep 2024	<0.002	<0.003	<0.003	0.022	<0.002	<0.004	<0.002	12.3	-	<0.001	235	1.49	0.03						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	11.1	<0.006	0.073	248	2.87	0.06						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	0.208	-	0.072	113	5.85	0.28						
25 Jun 2025	<0.002	0.006	<0.003	0.04	0.003	<0.004	<0.002	1.57	-	<0.001	111	9.29	0.45						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.002	0.014	0.001	0.002	0.001	8.26	0.003	0.029	198	5	0.184						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.001	0.006	0.0015	0.04	0.003	0.002	0.001	16.1	0.003	0.073	281	9.29	0.446						
Median value	0.001	0.002	0.002	0.007	0.001	0.002	0.001	11.1	0.003	0	235	5.52	0.104						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	0.208	0.003	0.0005	111	1.49	0.034						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.208	0.003	0	111	1.49	0.034						
50 Percentile	0.001	0.002	0.002	0.007	0.001	0.002	0.001	11.1	0.003	0	235	5.52	0.104						
95 Percentile	0.001	0.006	0.002	0.04	0.003	0.002	0.001	16.1		0.073	281	9.29	0.446						
Standard Dev ±	±0.000	±0.002	±0.000	±0.017	±0.001	±0.000	±0.000	±7.00		±0.040	±79.9	±3.01	±0.174						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON05	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole on Southern Perimeter on southern toe of Ash Dam A	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	7.79	-	0.048	104	1.75	0.09						
25 Sep 2024	<0.002	<0.003	<0.003	0.006	<0.002	<0.004	<0.002	8.77	-	0.065	99	3.3	0.18						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	9.7	<0.006	0.044	147	0.662	0.02						
26 Mar 2025	<0.002	0.003	<0.003	<0.002	<0.002	<0.004	<0.002	7.74	-	0.014	76.4	0.143	0.01						
25 Jun 2025	<0.002	0.004	<0.003	<0.002	0.009	<0.004	<0.002	7.87	-	0.032	83.6	1.84	0.12						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.002	0.002	0.003	0.002	0.001	8.37	0.003	0.041	102	1.54	0.083						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.001	0.004	0.0015	0.006	0.009	0.002	0.001	9.7	0.003	0.065	147	3.3	0.177						
Median value	0.001	0.002	0.002	0.001	0.001	0.002	0.001	7.87	0.003	0.044	99	1.75	0.089						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	7.74	0.003	0.014	76.4	0.143	0.01						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	7.74	0.003	0.014	76.4	0.143	0.01						
50 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	7.87	0.003	0.044	99	1.75	0.089						
95 Percentile	0.001	0.004	0.002	0.006	0.009	0.002	0.001	9.7		0.065	147	3.3	0.177						
Standard Dev ±	±0.000	±0.001	±0.000	±0.002	±0.003	±0.000	±0.000	±0.851		±0.019	±27.6	±1.22	±0.069						



LEADERS IN ENVIRONMENTAL MONITORING

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON06	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Between Ash Dam A and Southern Coal Stockpile	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	4.47	-	0.037	46.1	0.719	0.08						
25 Sep 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	0.087	-	<0.001	35.1	1.62	0.25						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	0.112	<0.004	<0.002	19.7	<0.006	0.084	298	1.02	0.02						
26 Mar 2025	<0.002	<0.003	0.006	<0.002	<0.002	<0.004	<0.002	8.27	-	0.326	62.6	5.37	0.46						
25 Jun 2025	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	0.302	-	<0.001	103	0.327	0.02						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.002	0.001	0.023	0.002	0.001	6.57	0.003	0.089	109	1.81	0.164						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.001	0.0015	0.006	0.001	0.112	0.002	0.001	19.7	0.003	0.326	298	5.37	0.456						
Median value	0.001	0.002	0.002	0.001	0.001	0.002	0.001	4.47	0.003	0.037	62.6	1.02	0.083						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	0.087	0.003	0.0005	35.1	0.327	0.017						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.087	0.003	0	35.1	0.327	0.017						
50 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	4.47	0.003	0.037	62.6	1.02	0.083						
95 Percentile	0.001	0.002	0.006	0.001	0.112	0.002	0.001	19.7		0.326	298	5.37	0.456						
Standard Dev ±	±0.000	±0.000	±0.002	±0.000	±0.050	±0.000	±0.000	±8.08		±0.137	±109	±2.04	±0.188						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS MON07	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Borehole South East of Southern Coal Stockpile	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	0.008	0.019	<0.004	<0.002	7.38	-	<0.001	504	12.5	0.13						
25 Sep 2024	<0.002	<0.003	<0.003	0.026	0.078	<0.004	<0.002	13.9	-	<0.001	626	1.82	0.02						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	0.033	<0.004	<0.002	13.4	<0.006	0.078	653	3.96	0.03						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	2.1	-	0.058	178	7.46	0.22						
25 Jun 2025	<0.002	0.004	<0.003	0.022	<0.002	<0.004	<0.002	3.8	-	<0.001	258	5.19	0.11						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.002	0.012	0.026	0.002	0.001	8.11	0.003	0.028	444	6.18	0.102						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.001	0.004	0.0015	0.026	0.078	0.002	0.001	13.9	0.003	0.078	653	12.5	0.223						
Median value	0.001	0.002	0.002	0.008	0.019	0.002	0.001	7.39	0.003	0	504	5.19	0.107						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	2.1	0.003	0.0005	178	1.82	0.015						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	2.1	0.003	0	178	1.82	0.015						
50 Percentile	0.001	0.002	0.002	0.008	0.019	0.002	0.001	7.39	0.003	0	504	5.19	0.107						
95 Percentile	0.001	0.004	0.002	0.026	0.078	0.002	0.001	13.9		0.078	653	12.5	0.223						
Standard Dev ±	±0.000	±0.001	±0.000	±0.012	±0.032	±0.000	±0.000	±5.40		±0.038	±216	±4.07	±0.084						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON09	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Background deep	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	18.9	-	<0.001	178	2.42	0.07						
25 Sep 2024	<0.002	<0.003	0.021	0.055	<0.002	<0.004	<0.002	19.3	-	<0.001	157	1.2	0.04						
23 Dec 2024	<0.002	<0.003	0.022	<0.002	<0.002	<0.004	0.008	18.8	<0.006	0.051	158	2.25	0.08						
26 Mar 2025	<0.002	<0.003	0.021	<0.002	<0.002	<0.004	0.022	16.2	-	0.048	145	0.432	0.02						
25 Jun 2025	<0.002	0.003	0.013	0.015	<0.002	<0.004	<0.002	20.3	-	<0.001	161	0.562	0.02						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.016	0.015	0.001	0.002	0.007	18.7	0.003	0.02	160	1.37	0.045						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.001	0.003	0.022	0.055	0.001	0.002	0.022	20.3	0.003	0.051	178	2.42	0.076						
Median value	0.001	0.002	0.021	0.001	0.001	0.002	0.001	18.9	0.003	0	158	1.2	0.041						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	16.2	0.003	0.0005	145	0.432	0.016						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	16.2	0.003	0	145	0.432	0.016						
50 Percentile	0.001	0.002	0.021	0.001	0.001	0.002	0.001	18.9	0.003	0	158	1.2	0.041						
95 Percentile	0.001	0.003	0.022	0.055	0.001	0.002	0.022	20.3		0.051	178	2.42	0.076						
Standard Dev ±	±0.000	±0.001	±0.009	±0.024	±0.000	±0.000	±0.009	±1.51		±0.027	±11.9	±0.926	±0.028						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON10	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Background shallow	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	<0.002	0.027	<0.004	<0.002	18.6	-	<0.001	152	0.298	0.01						
25 Sep 2024	<0.002	<0.003	<0.003	0.018	0.019	<0.004	<0.002	18.8	-	<0.001	128	0.159	0.01						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	18	<0.006	0.054	132	0.343	0.01						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	0.02	<0.004	<0.002	15.9	-	0.054	116	0.168	0.01						
25 Jun 2025	<0.002	<0.003	<0.003	0.016	0.023	<0.004	<0.002	19.3	-	<0.001	145	0.184	0.01						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.002	0.007	0.018	0.002	0.001	18.1	0.003	0.022	135	0.23	0.009						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.001	0.0015	0.0015	0.018	0.027	0.002	0.001	19.3	0.003	0.054	152	0.343	0.014						
Median value	0.001	0.002	0.002	0.001	0.02	0.002	0.001	18.6	0.003	0	132	0.184	0.008						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	15.9	0.003	0.0005	116	0.159	0.007						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	15.9	0.003	0	116	0.159	0.007						
50 Percentile	0.001	0.002	0.002	0.001	0.02	0.002	0.001	18.6	0.003	0	132	0.184	0.008						
95 Percentile	0.001	0.002	0.002	0.018	0.027	0.002	0.001	19.3		0.054	152	0.343	0.014						
Standard Dev ±	±0.000	±0.000	±0.000	±0.009	±0.010	±0.000	±0.000	±1.34		±0.029	±14.4	±0.084	±0.003						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON11	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Fuel storage	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	0.101	9.96	-	0.005	45.3	0.19	0.02						
25 Sep 2024	<0.002	<0.003	<0.003	0.009	<0.002	<0.004	0.091	8.86	-	0.003	61.8	0.064	0.01						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	3.01	<0.006	0.02	69.3	0.054	0						
26 Mar 2025	<0.002	0.01	<0.003	<0.002	<0.002	<0.004	<0.002	1.91	-	0.004	25.7	0.024	0.01						
25 Jun 2025	<0.002	0.004	<0.003	<0.002	<0.002	<0.004	0.196	6.22	-	<0.001	32.3	0.036	0.01						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.004	0.002	0.003	0.001	0.002	0.078	5.99	0.003	0.007	46.9	0.074	0.008						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.001	0.01	0.0015	0.009	0.001	0.002	0.196	9.96	0.003	0.02	69.3	0.19	0.022						
Median value	0.001	0.002	0.002	0.001	0.001	0.002	0.091	6.22	0.003	0.004	45.3	0.054	0.005						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	1.91	0.003	0.0005	25.7	0.024	0.004						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	1.91	0.003	0	25.7	0.024	0.004						
50 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.091	6.22	0.003	0.004	45.3	0.054	0.005						
95 Percentile	0.001	0.01	0.002	0.009	0.001	0.002	0.196	9.96		0.02	69.3	0.19	0.022						
Standard Dev ±	±0.000	±0.004	±0.000	±0.004	±0.000	±0.000	±0.081	±3.52		±0.008	±18.6	±0.067	±0.008						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON12	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	HFO storage	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	0.005	0.005	<0.004	<0.002	20.5	-	<0.001	308	2.9	0.05						
25 Sep 2024	<0.002	<0.003	<0.003	0.05	0.011	<0.004	<0.002	21.5	-	<0.001	288	0.357	0.01						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	0.009	<0.004	<0.002	19.9	<0.006	0.06	289	0.651	0.01						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	0.003	<0.004	<0.002	17.9	-	0.076	359	1.54	0.02						
25 Jun 2025	0.005	0.006	<0.003	0.065	0.059	0.036	0.012	19.3	-	<0.001	508	0.407	0						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.002	0.002	0.002	0.025	0.018	0.009	0.003	19.8	0.003	0.027	350	1.17	0.019						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.005	0.006	0.0015	0.065	0.059	0.036	0.012	21.5	0.003	0.076	508	2.9	0.05						
Median value	0.001	0.002	0.002	0.005	0.009	0.002	0.001	19.9	0.003	0	308	0.651	0.012						
Minimum value	0.001	0.0015	0.0015	0.001	0.003	0.002	0.001	17.9	0.003	0.0005	288	0.357	0.004						
5 Percentile	0.001	0.002	0.002	0.001	0.003	0.002	0.001	17.9	0.003	0	288	0.357	0.004						
50 Percentile	0.001	0.002	0.002	0.005	0.009	0.002	0.001	19.9	0.003	0	308	0.651	0.012						
95 Percentile	0.005	0.006	0.002	0.065	0.059	0.036	0.012	21.5		0.076	508	2.9	0.05						
Standard Dev ±	±0.002	±0.002	±0.000	±0.031	±0.023	±0.015	±0.005	±1.33		±0.037	±92.9	±1.08	±0.019						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON13	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Brick Yard	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	0.011	0.134	<0.004	<0.002	20.6	-	<0.001	338	2.46	0.04						
25 Sep 2024	<0.002	<0.003	0.007	0.025	0.139	<0.004	<0.002	19.8	-	<0.001	281	0.283	0.01						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	0.108	<0.004	<0.002	19.9	<0.006	0.087	304	0.557	0.01						
26 Mar 2025	<0.002	<0.003	0.015	<0.002	0.102	<0.004	0.015	17.2	-	0.099	274	0.39	0.01						
25 Jun 2025	0.003	0.004	0.015	0.098	0.111	<0.004	<0.002	21.3	-	<0.001	337	0.332	0.01						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.008	0.027	0.119	0.002	0.004	19.8	0.003	0.038	307	0.805	0.013						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.003	0.004	0.015	0.098	0.139	0.002	0.015	21.3	0.003	0.099	338	2.46	0.039						
Median value	0.001	0.002	0.007	0.011	0.111	0.002	0.001	19.9	0.003	0	304	0.39	0.008						
Minimum value	0.001	0.0015	0.0015	0.001	0.102	0.002	0.001	17.2	0.003	0.0005	274	0.283	0.005						
5 Percentile	0.001	0.002	0.002	0.001	0.102	0.002	0.001	17.2	0.003	0	274	0.283	0.005						
50 Percentile	0.001	0.002	0.007	0.011	0.111	0.002	0.001	19.9	0.003	0	304	0.39	0.008						
95 Percentile	0.003	0.004	0.015	0.098	0.139	0.002	0.015	21.3		0.099	338	2.46	0.039						
Standard Dev ±	±0.001	±0.001	±0.007	±0.041	±0.016	±0.000	±0.006	±1.53		±0.051	±30.1	±0.933	±0.014						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON14	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Switch yard	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	0.007	<0.002	<0.004	<0.002	14.3	-	<0.001	137	0.367	0.01						
25 Sep 2024	<0.002	<0.003	<0.003	0.024	0.005	<0.004	<0.002	13.7	-	<0.001	113	0.239	0.01						
23 Dec 2024	<0.002	<0.003	0.01	<0.002	<0.002	<0.004	<0.002	18	<0.006	0.07	122	0.388	0.02						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	0.005	<0.004	<0.002	4.37	-	0.073	60.3	0.206	0.02						
25 Jun 2025	0.002	<0.003	<0.003	0.046	0.008	<0.004	<0.002	5.29	-	<0.001	104	2.01	0.1						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.003	0.016	0.004	0.002	0.001	11.1	0.003	0.029	107	0.641	0.032						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.002	0.0015	0.01	0.046	0.008	0.002	0.001	18	0.003	0.073	137	2.01	0.102						
Median value	0.001	0.002	0.002	0.007	0.005	0.002	0.001	13.7	0.003	0	113	0.367	0.017						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	4.37	0.003	0.0005	60.3	0.206	0.011						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	4.37	0.003	0	60.3	0.206	0.011						
50 Percentile	0.001	0.002	0.002	0.007	0.005	0.002	0.001	13.7	0.003	0	113	0.367	0.017						
95 Percentile	0.002	0.002	0.01	0.046	0.008	0.002	0.001	18		0.073	137	2.01	0.102						
Standard Dev ±	±0.000	±0.000	±0.004	±0.019	±0.003	±0.000	±0.000	±5.99		±0.039	±29.0	±0.767	±0.039						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-MON16	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Clinker dump (replace KPS-MON03)	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	0.3	-	-	-	-	-	-	-	-	-	-
24 Jun 2024	<0.002	<0.003	<0.003	0.008	0.005	<0.004	<0.002	22.4	-	0.001	222	2.18	0.05						
25 Sep 2024	<0.002	<0.003	<0.003	0.025	0.013	<0.004	<0.002	22.2	-	<0.001	193	0.178	0.01						
23 Dec 2024	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	22.8	<0.006	0.077	207	0.347	0.01						
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	0.005	<0.004	<0.002	18.8	-	0.086	194	0.437	0.01						
25 Jun 2025	0.004	0.007	<0.003	0.079	0.017	<0.004	<0.002	25.2	-	<0.001	238	0.204	0.01						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.002	0.003	0.002	0.023	0.008	0.002	0.001	22.3	0.003	0.033	211	0.67	0.017						
Count	5	5	5	5	5	5	5	5	1	5	5	5	5						
Maximum value	0.004	0.007	0.0015	0.079	0.017	0.002	0.001	25.2	0.003	0.086	238	2.18	0.052						
Median value	0.001	0.002	0.002	0.008	0.005	0.002	0.001	22.4	0.003	0.001	207	0.347	0.009						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	18.8	0.003	0.0005	193	0.178	0.005						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	18.8	0.003	0	193	0.178	0.005						
50 Percentile	0.001	0.002	0.002	0.008	0.005	0.002	0.001	22.4	0.003	0.001	207	0.347	0.009						
95 Percentile	0.004	0.007	0.002	0.079	0.017	0.002	0.001	25.2		0.086	238	2.18	0.052						
Standard Dev ±	±0.001	±0.002	±0.000	±0.033	±0.007	±0.000	±0.000	±2.29		±0.044	±19.2	±0.853	±0.020						



LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-NBH01	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Newly drilled monitoring borehole - Mar 2025	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	0.468	-	0.075	163	4.72	0.16						
25 Jun 2025	0.002	<0.003	<0.003	0.041	0.016	<0.004	<0.002	3.37	-	<0.001	212	1.78	0.05						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.002	0.002	0.002	0.021	0.009	0.002	0.001	1.92		0.038	187	3.25	0.1						
Count	2	2	2	2	2	2	2	2		2	2	2	2						
Maximum value	0.002	0.0015	0.0015	0.041	0.016	0.002	0.001	3.37		0.075	212	4.72	0.155						
Median value	0.002	0.002	0.002	0.021	0.009	0.002	0.001	1.92		0.038	187	3.25	0.1						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	0.468		0.0005	163	1.78	0.045						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.468		0	163	1.78	0.045						
50 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.468		0	163	1.78	0.045						
95 Percentile	0.002	0.002	0.002	0.041	0.016	0.002	0.001	3.37		0.075	212	4.72	0.155						
Standard Dev ±	±0.001	±0.000	±0.000	±0.028	±0.011	±0.000	±0.000	±2.06		±0.053	±35.1	±2.08	±0.078						



LEADERS IN ENVIRONMENTAL MONITORING

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-NBH02	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Newly drilled monitoring borehole - Mar 2025	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	0.003	<0.004	<0.002	2.48	-	0.08	206	2.28	0.06						
25 Jun 2025	<0.002	<0.003	<0.003	0.054	0.007	<0.004	<0.002	1.48	-	<0.001	225	2.61	0.06						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.002	0.028	0.005	0.002	0.001	1.98		0.04	216	2.44	0.06						
Count	2	2	2	2	2	2	2	2		2	2	2	2						
Maximum value	0.001	0.0015	0.0015	0.054	0.007	0.002	0.001	2.48		0.08	225	2.61	0.062						
Median value	0.001	0.002	0.002	0.028	0.005	0.002	0.001	1.98		0.04	216	2.44	0.06						
Minimum value	0.001	0.0015	0.0015	0.001	0.003	0.002	0.001	1.49		0.0005	206	2.28	0.059						
5 Percentile	0.001	0.002	0.002	0.001	0.003	0.002	0.001	1.49		0	206	2.28	0.059						
50 Percentile	0.001	0.002	0.002	0.001	0.003	0.002	0.001	1.49		0	206	2.28	0.059						
95 Percentile	0.001	0.002	0.002	0.054	0.007	0.002	0.001	2.48		0.08	225	2.61	0.062						
Standard Dev ±	±0.000	±0.000	±0.000	±0.038	±0.003	±0.000	±0.000	±0.704		±0.056	±13.6	±0.233	±0.002						

LOCALITY TABLE:

PROJECT NAME	Kelvin Powers Groundwater Monitoring	DATE COMPILED	31 July 2025
LOCALITY NAME	KPS-NBH03	DATE RANGE	June 2024 to June 2025
LOCALITY DESCRIPTION	Newly drilled monitoring borehole - Mar 2025	COMPILED BY	Pieter-Willem Botha
ASSESSMENT SET	Mine, Health & Safety Act (MHSA)		Value exceeds the assessment set

DATA TABLE

VARIABLE	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg CaCO ₃ /l	mg CaCO ₃ /l	mg CaCO ₃ /l						
ASSESSMENT SET	0.02	-	-	1	-	0.1	5	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar 2025	<0.002	<0.003	<0.003	<0.002	<0.002	<0.004	<0.002	2.38	-	0.066	242	3	0.07						
25 Jun 2025	<0.002	<0.003	<0.003	0.031	<0.002	<0.004	<0.002	0.516	-	<0.001	230	18.4	0.43						

STATISTICAL SUMMARY

Variable	Cd	Co	Cr	Cu	Ni	Pb	Zn	Si	As	V	Bicarbonate alkalinity CaCO ₃	Carbonate alkalinity	Hydroxide alkalinity						
Average	0.001	0.002	0.002	0.016	0.001	0.002	0.001	1.45		0.033	236	10.7	0.246						
Count	2	2	2	2	2	2	2	2		2	2	2	2						
Maximum value	0.001	0.0015	0.0015	0.031	0.001	0.002	0.001	2.38		0.066	242	18.4	0.426						
Median value	0.001	0.002	0.002	0.016	0.001	0.002	0.001	1.45		0.033	236	10.7	0.246						
Minimum value	0.001	0.0015	0.0015	0.001	0.001	0.002	0.001	0.516		0.0005	230	3	0.066						
5 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.516		0	230	3	0.066						
50 Percentile	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.516		0	230	3	0.066						
95 Percentile	0.001	0.002	0.002	0.031	0.001	0.002	0.001	2.38		0.066	242	18.4	0.426						
Standard Dev ±	±0.000	±0.000	±0.000	±0.022	±0.000	±0.000	±0.000	±1.32		±0.046	±8.73	±10.9	±0.255						

APPENDIX E

Photographic Monitoring Catalogue



KELVIN POWERS GROUNDWATER MONITORING - PHOTOGRAPHIC MONITORING CATALOGUE

Locality	KPS BH01
Locality Coordinates	S26.12012 E28.18282
Sample Date	2025-06-25 11:25
Sample By	Jabu Masango

Borehole on Western Perimeter - Toe of Ash Dam B



Locality	KPS BH02
Locality Coordinates	S26.12181 E28.18617
Sample Date	2025-06-25 11:02
Sample By	Jabu Masango

Borehole on Southern Toe of Ash Dam B



Locality	KPS BH04
Locality Coordinates	S26.12238 E28.18394
Sample Date	2025-06-25 10:31
Sample By	Jabu Masango

Borehole on Western Perimeter



Locality	KPS BH05
Locality Coordinates	S26.12411 E28.19104
Sample Date	2025-06-25 09:57
Sample By	Jabu Masango

Borehole on Southern Perimeter - South of Ash Dam A



Locality	KPS BH07
Locality Coordinates	S26.12281 E28.18430
Sample Date	2025-06-25 10:25
Sample By	Jabu Masango

Borehole on South Western Perimeter



Locality	KPS MON01
Locality Coordinates	S26.11185 E28.19266
Sample Date	2025-06-25 13:00
Sample By	Jabu Masango

Borehole on Northern Perimeter next to Coal Stockpile



KELVIN POWERS GROUNDWATER MONITORING - PHOTOGRAPHIC MONITORING CATALOGUE

Locality	KPS MON02
Locality Coordinates	S26.11291 E28.19175
Sample Date	2025-06-25 12:52
Sample By	Jabu Masango

Borehole on Northern Perimeter South of Coal Stockpile



Locality	KPS MON03
Locality Coordinates	S26.11577 E28.18846
Sample Date	2025-06-25 12:12
Sample By	Jabu Masango

Borehole North of Ash Dump - North Western Perimeter



Locality	KPS MON04
Locality Coordinates	S26.11848 E28.18464
Sample Date	2025-06-25 11:44
Sample By	Jabu Masango

Borehole on Western Perimeter between the Ash Dump and Ash Dam B



Locality	KPS MON05
Locality Coordinates	S26.12337 E28.18575
Sample Date	2025-06-25 10:49
Sample By	Jabu Masango

Borehole on Southern Perimeter on southern toe of Ash Dam A



Locality	KPS MON06
Locality Coordinates	S26.11965 E28.19181
Sample Date	2025-06-25 13:38
Sample By	Jabu Masango

Between Ash Dam A and Southern Coal Stockpile



Locality	KPS MON07
Locality Coordinates	S26.12164 E28.19421
Sample Date	2025-06-25 09:46
Sample By	Jabu Masango

Borehole South East of Southern Coal Stockpile



KELVIN POWERS GROUNDWATER MONITORING - PHOTOGRAPHIC MONITORING CATALOGUE

Locality	KPS-MON09
Locality Coordinates	S26.11726 E28.19635
Sample Date	2025-06-25 13:58
Sample By	Jabu Masango

Background deep



Locality	KPS-MON10
Locality Coordinates	S26.11730 E28.19625
Sample Date	2025-06-25 09:37
Sample By	Jabu Masango

Background shallow



Locality	KPS-MON11
Locality Coordinates	S26.11532 E28.19414
Sample Date	2025-06-25 13:12
Sample By	Jabu Masango

Fuel storage



Locality	KPS-MON12
Locality Coordinates	S26.11737 E28.19359
Sample Date	2025-06-25 09:30
Sample By	Jabu Masango

HFO storage



Locality	KPS-MON13
Locality Coordinates	S26.11820 E28.18979
Sample Date	2025-06-25 12:27
Sample By	Jabu Masango

Brick Yard



Locality	KPS-MON14
Locality Coordinates	S26.11476 E28.19195
Sample Date	2025-06-25 12:40
Sample By	Jabu Masango

Switch yard



KELVIN POWERS GROUNDWATER MONITORING - PHOTOGRAPHIC MONITORING CATALOGUE

Locality	KPS-MON16
Locality Coordinates	S26.11742 E28.18218
Sample Date	2025-06-25 11:56
Sample By	Jabu Masango

Clinker dump (replace KPS-MON03)



Locality	KPS-NBH01
Locality Coordinates	S26.12167 E28.18338
Sample Date	2025-06-25 11:15
Sample By	Jabu Masango

Newly drilled monitoring borehole - Mar 2025



Locality	KPS-NBH02
Locality Coordinates	S26.11937 E28.18215
Sample Date	2025-06-25 11:34
Sample By	Jabu Masango

Newly drilled monitoring borehole - Mar 2025



Locality	KPS-NBH03
Locality Coordinates	S26.12415 E28.19326
Sample Date	2025-06-25 10:07
Sample By	Jabu Masango

Newly drilled monitoring borehole - Mar 2025

