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PHASE 1 DUE DILIGENCE ASSESSMENT REPORT FOR MOOV ENERGY, KRAAIFONTEIN INDUSTRIA, CAPE TOWN, WESTERN CAPE



JULY 2025

K&T PROJECT REFERENCE: 17307C

CLIENT REFERENCE: PO124596

REVISION 0



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Details of this report

Client Name	Moov Energy (Pty) Ltd
Document Title	Phase 1 Due Diligence Assessment Report for Moov Energy, Kraaifontein Industria, Cape Town, Western Cape.
K&T Project Reference	17307C
File Name	17307C_Moov Kraaifontein_DD_July 2025 (Rev 0)
Prepared By	Riaan Delport
Reviewed By	Alistair Fyfe

Report Revision Record

Revision	Date	Description
A – F	June - July 2025	Draft Phase 1 Due Diligence Assessment Reports
0	July 2025	Final Submitted Phase 1 Due Diligence Assessment Report

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For and on behalf of Kantey & Templer (Pty) Ltd

For and on behalf of	
Kantey & Templer (Pty) Ltd	
Approved by:	<u>Alistair Fyfe</u>
Signed:	
Position:	<u>Executive Associate</u>
Date:	<u>28 July 2025</u>

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**PHASE 1 DUE DILIGENCE ASSESSMENT REPORT FOR MOOV ENERGY, KRAAIFONTEIN
INDUSTRIA, CAPE TOWN, WESTERN CAPE**

TABLE OF CONTENTS

ITEM	PAGE
Executive Summary	1
1. Introduction	3
1.1 Terms of Reference	3
2. Scope of Work	3
3. Site Description	4
3.1 Site Location	4
3.2 Sources and Receptors	4
3.3 Site Specific Geology / Geohydrology	4
3.4 Site History	5
3.5 Fuel Infrastructure – Tank Details	5
3.6 Fuel Infrastructure – Other	6
3.7 Stock Keeping Information	6
4. Fieldwork	6
4.1 GPR Scanning	6
4.2 Soil Vapour Survey Results	6
4.3 Discussion of Headspace Testing Results	7
4.4 Soil and Groundwater Sampling	7
5. Laboratory Results	10
5.1 Quality Control / Quality Assurance Protocol (Trip Blank)	14
5.2 Discussion of Analytical Results – Soil	14
5.3 Discussion of Analytical Results – Groundwater	14
6. Contamination Risk Assessment	14
7. Conceptual Site Model	15
8. Summary and Conclusions	1

LIST OF FIGURES

Figure 1: Site Layout Showing SVS, Auger Holes and Sampling Locations	9
Figure 2: Conceptual Site Model Illustration.	16

LIST OF TABLES

Table 1: VOC Concentrations During SVS	6
Table 2: Analytical Schedule.....	7
Table 3: Sampling Schedule.	8
Table 4: Soil Results – TPH Banding.....	10
Table 5: Soil Results - BTEXNM & TAME.	11
Table 6: Groundwater Results – TPH-Banding.....	12
Table 7: Groundwater Results – BTEXN & MTBE & TAME.	13

LIST OF APPENDICES

APPENDIX A: MAP & FIGURES
APPENDIX B: SITE PHOTOGRAPHS
APPENDIX C: AUGER LOGS AND SOIL PROFILE
APPENDIX D: UNDERGROUND UTILITY SCAN REPORT
APPENDIX E: CHAIN OF CUSTODY DOCUMENT
APPENDIX F: CERTIFIED LABORATORY RESULTS
APPENDIX G: PERMIT TO WORK

EXECUTIVE SUMMARY

Moov Energy (Pty) Ltd appointed Kantey & Templer (Pty) Ltd (K&T) to conduct a Phase 1 Due Diligence Assessment at their facility in Kraaifontein Industria, Cape Town, Western Cape.

The findings and results of the assessment can be summarised as follows:

- The Moov Kraaifontein site operates as a fuel and lubricants storage and distribution facility.
- The site contains two 23m³ 50 ppm¹ diesel ASTs² within a concrete bund with associated fuel infrastructure.
- Prior to the site visit, K&T conducted a search of the NGA³ geo-referenced geohydrological database of registered groundwater abstractions. No registered groundwater abstraction points were identified within a 1 km radius of the site.
- According to the site manager, there are no records of any spills, leaks or overflows associated with the fuel infrastructure.
- The assessment was conducted in areas where contamination was suspected to have been present, designated as Study Area 1 and Study Area 2 (staging areas for fuel tankers on-site) and the Tank Farm Area located within close proximity to the two 23 m³ diesel ASTs.
- GPR⁴ scanning for the detection of underground infrastructure/services across the designated study areas was undertaken prior to any intrusive work on 11 June 2025.
- A total of eight hand auger locations were advanced across the three designated areas on-site: AH1 and AH2 within Study Area 1, AH3 and AH4 within Study Area 2, and AH5 to AH8 within the Tank Farm Area in close proximity to the two ASTs.
- Headspace testing was conducted on soil recovered at 0.3 m intervals during hand augering, wherein VOC⁵ readings ranged from:
 - 0.4 to 15.5 ppm in AH1;
 - 0.0 to 0.9 ppm in AH2;
 - 0.6 to 15.1 ppm in AH3;
 - 0.4 to 7.7 ppm in AH4;
 - 6.4 to 200 ppm in AH5;
 - 0.3 to 7.2 ppm in AH6;
 - 1.8 to 5.8 ppm in AH7;
 - 12.6 to 36.6 ppm in AH8.
- Soil samples (designated SS1 to SS8) were collected from within each of the eight hand auger locations, at depths with the highest VOC readings.
- Groundwater was encountered at a depth of 1.5 m bgl⁶ in the auger locations AH1 to AH4, and at 1.2 m bgl in AH5 to AH8.
- Groundwater samples were collected from four of the eight auger holes, namely AH1 W1 from AH1, AH4 W2 from AH4, AH5 W3 from AH5 and AH6 W4 from AH6.
- The eight soil and four groundwater samples collected were submitted to a SANAS⁷-accredited laboratory for analyses of BTEXN⁸, MTBE⁹, TAME¹⁰ and TPH¹¹-banding.

¹ Ppm parts per million.
² AST Aboveground Storage Tank.
³ NGA: National Groundwater Archive
⁴ GPR: Ground Penetration Radar.
⁵ VOCs: Volatile Organic Compounds.
⁶ m bgl: meters below ground level.
⁷ SANAS: South African National Accreditation System.
⁸ BTEXN: Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene.
⁹ MTBE: Methyl Tert-Butyl Ether.
¹⁰ TAME: Tert-Amyl Methyl Ether.
¹¹ TPH: Total Petroleum Hydrocarbon.

- Concentrations of TPH (C₁₅-C₃₆) were detected in soil samples SS3, SS4, SS7 and SS8, and toluene in SS7, at concentrations that did not exceed any of the SSV¹² guidelines.
- Targeted hydrocarbon compound concentrations were below detection limits in soil samples SS1, SS2, SS5 and SS6.
- A concentration of TPH (C₁₀-C₁₄) was detected in groundwater sample AH5 W3 which exceeded the Tier 1 RBSL¹³ for the ingestion of groundwater in a residential scenario. Additionally, a concentration of TPH (C₆-C₁₀) was also detected in AH5 W3; however, did not exceed any applicable Tier 1 RBSLs. The remaining hydrocarbon compounds in this sample were below detection limits.
- Targeted hydrocarbon compound concentrations in the remaining groundwater samples were all below detection limits.
- Adsorbed phase concentrations detected in soil samples SS3, SS4, SS7 and SS8 did not exceed any applicable SSV criteria. Consequently, the source-pathway-receptor linkages via soil are considered incomplete at this stage and do not pose a risk to on- and off-site receptors.
- The TPH (C₁₀-C₁₄) concentration detected in groundwater sample AH5 W3 exceeded the Tier 1 RBSL for the ingestion of groundwater in a residential scenario, however, no groundwater users were identified within close proximity to the site. Thus, the source-pathway-receptor linkage via the ingestion of groundwater is considered incomplete at this stage.
- Furthermore, targeted hydrocarbon compound concentrations within the groundwater sample collected adjacent to the off-site wetland to the southwest (AH4 W2) were below the detection limit. Consequently, dissolved phase concentrations detected on-site is considered to not pose a risk to the wetland at this stage as the source-pathway-linkage is considered incomplete.

This report must be considered in light of the fact that this is an investigation limited to the area of sampling. While all reasonable care has been taken towards ensuring that sample distribution is as representative as possible, it must be noted that the results of the investigation/assessment are limited to the locations and depths from which the samples were obtained and therefore may not represent the status of the respective site in its entirety.

¹² SSV Soil Screening Value.

¹³ RBSLs: Risk based Screening Levels.

1. INTRODUCTION

Moov Energy (Pty) Ltd appointed Kantey & Templer (Pty) Ltd (K&T) to conduct a Phase 1 Due Diligence Assessment at their facility in Kraaifontein Industria, Cape Town, Western Cape

1.1 Terms of Reference

<i>Requested by:</i>	Moov Energy (Pty) Ltd.		
<i>Client Contact:</i>	Roger Rispel	<i>Phone:</i>	063 295 0220
		<i>Email:</i>	roger@moovenergy.co.za
<i>Document Title:</i>	Phase 1 Due Diligence Assessment Report for Moov Energy, Kraaifontein Industria, Cape Town, Western Cape.		
<i>K&T Project Reference:</i>	17307C		
<i>Client Reference:</i>	PO124596		
<i>File Name:</i>	17307C_Moov Kraaifontein_DD_July 2025 (Rev 0)		
<i>Authorised by:</i>	Alistair Fyfe	<i>Date:</i>	28/07/2025

The site was visited on 11 and 12 June 2025 and information gathered and reported on is in line with the proposal titled “*Cost Proposal for a Phase 1 Due Diligence Assessment at Moov Kraaifontein, Western Cape,*” dated 5 May 2025.

2. SCOPE OF WORK

As per the Scope of Work, the purpose of the study was to understand and document the information gathered during the site investigation as it pertains to the local topography, geology, hydrogeology, and potential contamination sources, potential exposure pathways and receptors on- and off-site. The methodology followed was:

- Desktop Study: All available topographical, geological and geohydrological maps are to be studied to determine the general environmental sensitivity of the site.
- Site and Area Walkover: An interview is to be conducted with the site manager or representative. Potential contamination sources, exposure pathways and sensitive receptors on- and off-site are to be identified.
- Conduct GPR scanning to identify the locations of underground utilities and provide ground clearance before breaking of ground.
- Site Assessment: A site map is to be drawn, signs of surface contamination as well as the condition of any equipment present on site will be recorded. An SVS is to be undertaken and a minimum of eight hand auger holes are to be advanced in areas of concern to a minimum depth of 2 m bgl, where possible.
- Soil Sampling: A maximum of 8 No. soil samples will be collected from within the auger holes for headspace and laboratory analysis.
- Groundwater sampling: A maximum of 4 No. groundwater samples will be collected from hand auger holes (if groundwater is intercepted).
- Laboratory Analysis: Soil and groundwater samples will be submitted to a SANAS-accredited laboratory for analyses of BTEXN, TAME, MTBE and TPH-banding.
- Reporting: Compilation of a Phase 1 Due Diligence Assessment Report for submission to Moov Energy (Pty) Ltd.

3. SITE DESCRIPTION

3.1 Site Location

<i>Date of Site Assessment:</i>	11-12 June 2025
<i>Completed by:</i>	Ashraf Isaacs, Mishumo Bohwana and Vhutshilo Netshimbupfe
<i>Site Name:</i>	Moov Kraaifonten
<i>Location:</i>	13 Kiaat Rd, Kraaifontein Industria, Cape Town, 7570
<i>Co-ordinates:</i>	33°50'29.66"S, 18°43'42.30"E
<i>Site Manager:</i>	Roger Rispel
<i>Tel:</i>	028 424 1810 / 063 295 0220
<i>E-mail:</i>	roger@moovenergy.co.za

3.2 Sources and Receptors

<i>Current Land-use:</i>	Industrial.
<i>Activities On-site:</i>	The site operates as a fuel and lubricants storage and distribution facility.
<i>Potential Contamination Sources:</i>	On-site: The site contains two 23m³ bunded 50 ppm diesel ASTs and associated fuel infrastructure. Off-site (within 500 m): The site is located within an industrial area surrounded by potential operational contamination sources towards the north, east and south of the site.
<i>Surrounding Land-use (within 500 m):</i>	North: Industrial properties extending towards the N1 highway. East: Industrial properties. South: Industrial properties followed by residential properties from 280 m onwards and Eben Dönges High School located 450 m SE. West: A depression wetland located adjacent to the site, followed by a railway, and residential properties from 200 m onwards.
<i>Topography:</i>	The site is located at 104 m amsl ¹⁴ with on-site topography gently sloping towards the southwest, while the regional topography gently slopes west-northwest.
<i>Sensitive Receptors:</i>	On-site: Employees working on-site and visitors to the site. Off-site (within 500 m): Staff and customers of the surrounding industrial properties, residential areas towards the west and south, and a depression wetland adjacent to the site.

3.3 Site Specific Geology / Geohydrology

<i>Geology:</i>	According to the 1:125 000 Geological map of Cape Town 3318, the site is underlain by Quaternary age light grey to pale-red sandy soil of the Springfontyn Formation.
<i>Rainfall:</i>	According to the Cape Farm Mapper rainfall mapping tool, the area has a mean annual rainfall of 541 mm/year.
<i>Groundwater Occurrence:</i>	According to the DWS ¹⁵ 1:500 000 Hydrogeological Map of Cape Town (3318), the site is underlain by a fractured aquifer with a median borehole yield of 2.0 – 5.0 l/s (Meyer P.S., 1998).

¹⁴ m amsl: metres above mean sea level.

¹⁵ DWAF: Department of Water and Sanitation.

Groundwater Levels and Flow:	There are no groundwater monitoring wells present on-site, and therefore a groundwater survey has not been conducted; however, the inferred groundwater flow direction is in a south-westerly direction following the local on-site topography. During the current assessment, groundwater was encountered at a depth of 1.5 m bgl in auger locations AH1 to AH4, and at 1.2 m bgl in AH5 to AH8.
Closest Surface Water (within 5 km):	The closest surface water bodies are: • A series of NWM5¹⁶-classified depression wetlands from 2 m west, 565 m north and 3 km northeast of the site. • A series of unchanneled valley-bottom wetlands from 974 m northeast and 1.1 km southeast of the site. • NFEPA¹⁷-classified wetlands located from 2.2 km north, 3.13 km northwest, 3.5 km west, 2.5 km south and 1.8 km northeast of the site. • The Bak Oor Jakkels Draai dam located 3.8 km northeast. • A series of seep wetlands from 2.6 km north and 4.26 km south. • Bottelary River 4.25 km east. • Mosselbank River 4.3 km northeast and 2.9 km southwest.
DWA Aquifer Classification:	The aquifer is classified as a major aquifer ¹⁸ of most vulnerability ¹⁹ and high susceptibility ²⁰ . The site not classified as a sole source aquifer. (Jones S. and Conrad J., 1998).
Local Abstractions:	Prior to the site visit, K&T conducted a search of the NGA geo-referenced geohydrological database of registered groundwater abstractions. No registered groundwater abstraction points were identified within a 1 km radius of the site.

3.4 Site History

June 2025 (current)	K&T was appointed by Moov Energy (Pty) Ltd to conduct a Due Diligence Assessment aimed at determining the contamination status of the site, specifically in areas where contamination was suspected to have been present, designated as Study Area 1, Study Area 2 and the Tank Farm Area located within close proximity to the two 23 m³ 50 ppm diesel ASTs. According to the site manager, there are no records of any spills, leaks or overflows associated with the fuel infrastructure. A total of eight soil samples and four groundwater samples were collected from eight auger hole locations advanced on-site.
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3.5 Fuel Infrastructure – Tank Details

No.	Capacity (m ³)	Product	Type	AST/UST	Approx. Age (years)	Condition
1	23	50 ppm diesel	Steel	AST	Unknown	Good. In use.
2	23					

¹⁶ NWM5

National Wetlands Map 5.

¹⁷ NFEPA:

National Freshwater Ecosystem Priority Area.

¹⁸ Major aquifer:

A high yielding aquifer system of good quality water.

Minor aquifer:

A moderately yielding aquifer system of variable water quality.

Poor aquifer:

A low to negligible yielding aquifer system of moderate to poor water quality.

¹⁹ Vulnerability:

The tendency or likelihood for contaminants to reach a specified position in the groundwater system after introduction at some location above the uppermost aquifer.

²⁰ Susceptibility:

A qualitative measure of the relative ease with which a groundwater body can be potentially contaminated by anthropogenic activities and includes both aquifer vulnerability and the relative importance of the aquifer in terms of its classification.

3.6 Fuel Infrastructure – Other

<i>Leak Wells:</i>	None
<i>Filler Points:</i>	Two (direct filler points)
<i>Vent Lines:</i>	Two
<i>Containment Bund:</i>	Concrete
<i>Separator:</i>	No

3.7 Stock Keeping Information

<i>Frequency of Dips:</i>	Daily.		
<i>Reconciliation:</i>	Daily.		
<i>Water Detection Paste Used (Y/N):</i>	Yes	<i>Water Detected (Y/N):</i>	No

4. FIELDWORK

This section details information gathered during fieldwork conducted on 11-12 June 2025 during the Phase 1 Due Diligence Assessment (site photographs can be found in Appendix B).

The assessment was conducted in areas where contamination was suspected to have been present, designated as Study Area 1 and Study Area 2 (staging areas for fuel tankers on-site) and the Tank Farm Area located within close proximity to the two 23 m³ diesel ASTs.

4.1 GPR Scanning

GRP scanning for the detection of underground infrastructure/services was undertaken across the site prior to any intrusive work on the 11th of June 2025 (refer to Appendix D for the Underground Utility Scan Report).

4.2 Soil Vapour Survey Results

The SVS technique is based on the principle that VOCs²¹ present in the sub-surface, as a result of a hydrocarbon spill or leak, will attempt to reach equilibrium with the air present in voids in the soil matrix. By extracting a sample of this air, it is possible to determine the concentration of VOCs at different points over a site. This enables the surveyor to establish zones of high or low vapour phase hydrocarbon concentrations that can be used to determine the size and location of a subsurface contamination plume.

A MiniRAE 2000 PID²² was used to conduct the SVS, which comprised of forty-two locations that were GPR-approved, with the highest reading of 170.1 ppm recorded at SVS point 12 within Study Area 1. VOC concentrations recorded are presented in Table 1 below.

Table 1: VOC Concentrations During SVS

<i>Position</i>	<i>VOC (ppm)</i>	<i>Position</i>	<i>VOC (ppm)</i>
1	0.0	22	2.0
2	0.0	23	2.0
3	1.5	24	3.0
4	1.1	25	2.8
5	5.5	26	2.0
6	3.7	27	0.1
7	4.1	28	0.1
8	47.1	29	0.0
9	11.4	30	0.1

²¹ VOCs: Volatile Organic Compounds

²² PID: Photo-ionization detector

Position	VOC (ppm)	Position	VOC (ppm)
10	11.2	31	0.7
11	111.2	32	8.6
12	170.1	33	1.5
13	0.0	34	0.9
14	0.0	35	0.9
15	0.0	36	0.8
16	0.0	37	0.6
17	0.0	38	0.8
18	0.0	39	1.5
19	1.2	40	61.4
20	2.3	41	48.7
21	2.8	42	31.1

4.3 Discussion of Headspace Testing Results

The headspace procedure is a quick field screening procedure used to determine the presence of VOCs in soil sub-slab. The “headspace” is the area between the sample and the top of the container [Minnesota Pollution Control Agency, 1990]. To perform a headspace test, a container is half-filled with potentially contaminated soil. The sample container is sealed and allowed to stand for 10 to 15 minutes (in ambient shady conditions) for the vapours in the soil to equalise with the air void within the container. A PID is then used to measure the concentration of VOCs in the air void.

Auger holes were advanced in “hotspot” areas identified during the SVS and to allow for coverage around areas identified where contamination was suspected to have been present and within the vicinity of the ASTs. Soil samples were collected at 0.3 m intervals (where possible) and headspace tested.

Eight soil samples (SS1 to SS8) were collected from depths of 1.2 m bgl in AH1, 0.3 m bgl in AH2, 0.9 m bgl in AH3 to AH7 and 0.6 m bgl in AH8, with the highest VOC concentration of 200 ppm recorded for sample SS5 within the Tank farm Area. Results of headspace testing can be found in Appendix C.

4.4 Soil and Groundwater Sampling

A total of eight soil samples (SS1 to SS8) were collected from the auger holes. Groundwater was encountered at a depth of 1.5 m bgl in auger locations AH1 to AH4, and at 1.2 m bgl in AH5 to AH8. Groundwater samples were collected from four of the eight auger holes, namely AH1 W1 from AH1, AH4 W2 from AH4, AH5 W3 from AH5 and AH6 W4 from AH6.

Table 2 and Table 3 present information on the analytical and sampling schedule followed during the site visit.

Table 2: Analytical Schedule.

	Organic Analysis
Laboratory:	Environmental Pollution Laboratory
Analysis:	BTEXN, MTBE, TAME and TPH-banding
Test Methods:	- EPL-T-011 (TPH) - EPL-T-012 (BTEX/GRO)

Table 3: Sampling Schedule.

<i>Sample ID</i>	<i>Date sampled</i>	<i>Matrix</i>	<i>Sample Description</i>
SS1	11/06/2025	Soil	Slightly moist, light brown, loose, fine SAND with no hydrocarbon odour or staining.
SS2			Slightly moist, brown, loose, fine SAND with no hydrocarbon odour or staining.
SS3			Slightly moist, grey, loose, fine SAND with no hydrocarbon odour or staining.
SS4			Slightly moist, light brown, loose, fine SAND with no hydrocarbon odour or staining.
SS5	12/06/2025		Slightly moist, brown, loose, fine SAND with a slight hydrocarbon odour but no staining.
SS6			Moist, light brown, loose, fine SAND with no hydrocarbon odour or staining.
SS7			Moist, light brown, loose, fine SAND with no hydrocarbon odour or staining.
SS8			Moist, light brown, loose, fine SAND with no hydrocarbon odour or staining.
AH1 W1	11/06/2025	Groundwater	Brown, sediment-rich water with no hydrocarbon odour or sheen.
AH4 W2			
AH5 W3	12/06/2025		
AH6 W4			
Sampling Deviation Plan			No groundwater monitoring wells were identified on-site.

A site layout drawing indicating the SVS, auger holes and sampling locations are presented in Figure 1 overleaf.

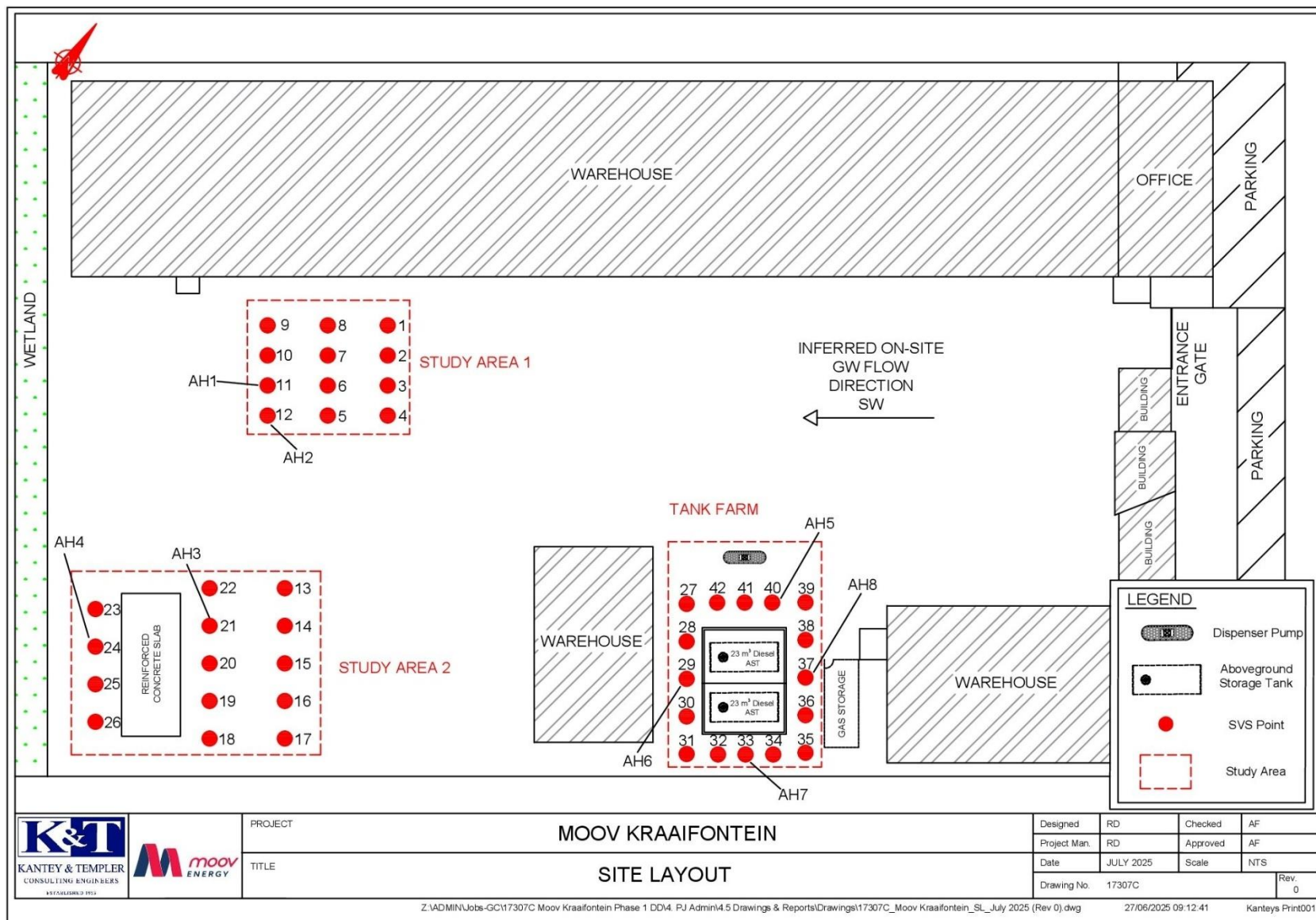


Figure 1: Site Layout Showing SVS, Auger Holes and Sampling Locations

5. LABORATORY RESULTS

Soil and groundwater samples were collected and submitted to Environmental Pollution Laboratory for the analysis of targeted hydrocarbon compounds. The results of the analysis are summarised in Table 4 to Table 7.

Table 4: Soil Results – TPH Banding.

<i>Sample ID</i>	<i>Depth (m bgl)</i>	<i>PID Headspace (ppm)</i>	<i>TPH (C₇-C₉)</i>	<i>TPH (C₁₀-C₁₄)</i>	<i>TPH (C₁₅-C₃₆)</i>
SS1	1.2	15.5	BDL	BDL	BDL
SS2	0.3	0.9	BDL	BDL	BDL
SS3	0.9	15.1	BDL	BDL	46
SS4	0.9	7.7	BDL	BDL	37
SS5	0.9	200	BDL	BDL	BDL
SS6	0.9	7.2	BDL	BDL	BDL
SS7	0.9	5.8	BDL	BDL	96
SS8	0.6	36.6	BDL	BDL	190
SSV1: Protective of the Water Resource (All Land-Uses)			2 300	440	45 000
SSV2: Informal Residential			2 300	440	45 000
SSV2: Standard Residential			2 400	500	91 000
SSV2: Commercial / Industrial			23 000	4 400	740 000
<u>Notes:</u> - All soil results as mg/kg. - BDL – Below Detection Limit. - SSVs as per the national Norms and Standards for the Remediation of Contaminated Land and Soil Quality, May 2014. - Certified analytical results attached as Appendix F.					

Table 5: Soil Results - BTEXNM & TAME.

<i>Sample ID</i>	<i>Depth (m bgl)</i>	<i>PID Headspace (ppm)</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethylbenzene</i>	<i>Xylenes</i>	<i>Naphthalene</i>	<i>MTBE</i>	<i>TAME</i>
SS1	1.2	15.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SS2	0.3	0.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SS3	0.9	15.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SS4	0.9	7.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SS5	0.9	200	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SS6	0.9	7.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SS7	0.9	5.8	BDL	0.093	BDL	BDL	BDL	BDL	BDL
SS8	0.6	36.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SSV1: Protective of the Water Resource (All Land Uses)			0.03	25	26	45	28	0.0036	-
SSV2: Informal Residential			1.3	120	57	91	28	360	-
SSV2: Standard Residential			1.4	120	60	95	33	370	-
SSV2: Commercial / Industrial			10	1 100	540	890	290	5 800	-
Notes: - All soil results as mg/kg. - BDL – Below Detection Limit. - SSVs as per the national Norms and Standards for the Remediation of Contaminated Land and Soil Quality, May 2014. - Certified analytical results attached as Appendix F.									

Table 6: Groundwater Results – TPH-Banding.

Sample ID	Depth (m bgl)	TPH (C ₆ -C ₁₀)	TPH (C ₁₀ -C ₁₄)	TPH (C ₁₄ -C ₁₆)	TPH (C ₁₆ -C ₂₁)	TPH (C ₂₁ -C ₃₆)
AH1 W1	1.5	BDL	BDL	BDL	BDL	BDL
AH4 W2	1.5	BDL	BDL	BDL	BDL	BDL
AH5 W3	1.2	180	690	BDL	BDL	BDL
AH6 W4	1.2	BDL	BDL	BDL	BDL	BDL
Trip Blank	N/A	BDL	NA	NA	NA	NA
Tier 1 RBSL: Ingestion of groundwater	Residential	312	312	312	234	>Sol
	Commercial / Industrial	4 088	4 088	4 088	>Sol	>Sol
Tier 1 RBSL: Inhalation of indoor air vapours	Residential	239	21 196	>Sol	>Sol	>Sol
	Commercial / Industrial	389 688	>Sol	>Sol	>Sol	>Sol
Tier 1 RBSL: Inhalation of outdoor air vapours	Residential	>Sol	>Sol	>Sol	>Sol	>Sol
	Commercial / Industrial	>Sol	>Sol	>Sol	>Sol	>Sol
<u>Notes:</u> - Groundwater results as µg/L. - RBCA Tier 1 – Residential and Commercial / industrial land-use scenario, 10⁻⁶ and 10⁻⁵ risk levels respectively, and hazard quotient of one. >Sol – calculated RBSL exceeds aqueous solubility of compound of concern. - BDL – Below Detection Limit. - TPH – Total Petroleum Hydrocarbons. - NA – Not Analysed. - N/A – Not Applicable - Certified analytical results attached in Appendix F.						

Table 7: Groundwater Results – BTEXN & MTBE & TAME.

<i>Sample ID</i>	<i>Depth (m bgl)</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethylbenzene</i>	<i>Xylenes</i>	<i>Naphthalene</i>	<i>MTBE</i>	<i>TAME</i>
AH1 W1	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AH4 W2	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AH5 W3	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AH6 W4	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trip Blank	N/A	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tier 1 RBSL: Ingestion of groundwater	Residential	2	1 564	782	1 564	156	6 700	-
	Commercial / Industrial	99	20 440	10 220	20 440	2 044	88 000	-
Tier 1 RBSL: Inhalation of indoor air vapours	Residential	66	27 685	72 406	8 147	2 993	2.4E+06	-
	Commercial / Industrial	4 757	445 730	> Sol	131 171	> Sol	3.9E+07	-
Tier 1 RBSL: Inhalation of outdoor air vapours	Residential	26 265	> Sol	> Sol	> Sol	> Sol	>Sol	-
	Commercial / Industrial	573 630	> Sol	> Sol	> Sol	>Sol	>Sol	-
Notes: - Groundwater results as µg/L. - RBCA Tier 1 – Residential and Commercial / industrial land-use scenario, 10⁻⁶ and 10⁻⁵ risk levels respectively, and hazard quotient of one. >Sol – calculated RBSL exceeds aqueous solubility of compound of concern.					- N/A – Not Applicable. - BDL – Below Detection Limit. - Certified analytical results attached in Appendix F.			

5.1 Quality Control / Quality Assurance Protocol (Trip Blank)

Concentrations of BTEXMN within the Trip Blank samples were less than the laboratory lower limit of detection indicating that cross-contamination of the groundwater samples during sample handling and transport did not occur.

5.2 Discussion of Analytical Results – Soil

Concentrations of TPH (C₁₅-C₃₆) were detected in soil samples SS3, SS4, SS7 and SS8, and toluene in SS7, at concentrations that did not exceed any of the applicable SSV guidelines.

Targeted hydrocarbon compound concentrations were below detection limits in soil samples SS1, SS2, SS5 and SS6.

5.3 Discussion of Analytical Results – Groundwater

A concentration of TPH (C₁₀-C₁₄) was detected in groundwater sample AH5 W3 which exceeded the Tier 1 RBSL for the ingestion of groundwater in a residential scenario. Additionally, a concentration of TPH (C₆-C₁₀) was also detected in AH5 W3; however, did not exceed any applicable Tier 1 RBSLs. The remaining hydrocarbon compounds in this sample were below detection limits.

Targeted hydrocarbon compound concentrations in the remaining groundwater samples were all below detection limits.

6. CONTAMINATION RISK ASSESSMENT

The concentrations of targeted hydrocarbon compounds detected in the soil samples were compared to the SSVs as defined by the Framework for the Management of Contaminated Land, National Department of Environmental Affairs, May 2014, and hydrocarbon compounds detected in groundwater samples were compared to the Tier 1 RBSLs in order to determine the potential health risks posed to human and environmental receptors.

In terms of the source, pathways and receptors assessment methodology, consideration was given to the following potential exposure pathways for both residential and commercial/industrial settings:

- Accidental ingestion of contaminated soil/water, dermal contact with soil and/or inhalation of soil particles.
- Indoor inhalation of air impacted with volatilised contaminants.
- Outdoor inhalation of air impacted with volatilised contaminants.

Adsorbed phase concentrations detected in soil samples SS3, SS4, SS7 and SS8 did not exceed any applicable SSV criteria. Consequently, the source-pathway-receptor linkages via soil are considered incomplete at this stage and do not pose a risk to on- and off-site receptors.

The TPH (C₁₀-C₁₄) concentration detected in groundwater sample AH5 W3 exceeded the Tier 1 RBSL for the ingestion of groundwater in a residential scenario, however, no groundwater users were identified within close proximity to the site. Thus, the source-pathway-receptor linkage via the ingestion of groundwater is considered incomplete at this stage.

Furthermore, targeted hydrocarbon compound concentrations within the groundwater sample collected adjacent to the off-site wetland to the southwest (AH4 W2) were below the detection limit. Consequently, dissolved phase concentrations detected on-site is considered to not pose a risk to the wetland at this stage as the source-pathway-linkage is considered incomplete.

7. CONCEPTUAL SITE MODEL

Fundamental to understanding the potential for a complete source-pathway-receptor link and contamination risk depends on the development of a CSM²³. For exposure to be considered possible a pathway must exist by which contamination from a source can reach a receptor.

In order for there to be a risk related to land affected by contamination, a 'pollutant linkage' of (source-pathway-receptor) must exist. If one of these pollutant linkages is not present or active, there are no adverse risks. If there is an active pollutant linkage, then there is the potential for adverse human health or environmental impacts, requiring further assessment to quantify the risk.

The CSM presented in Figure 2 overleaf was based on site observations, investigation results and analytical data from samples collected on-site during the current assessment.

²³ CSM: *Conceptual Site Model.*

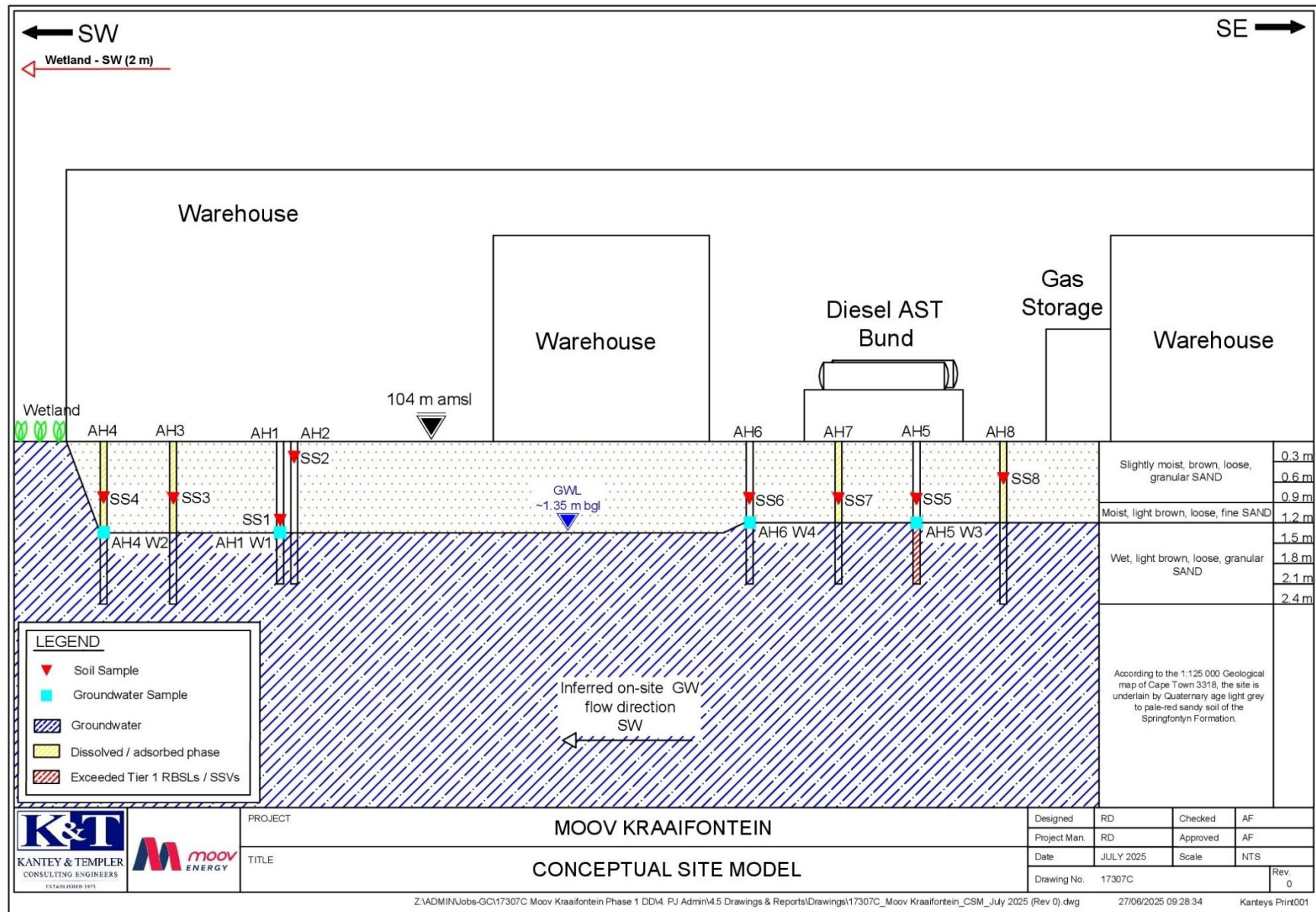


Figure 2: Conceptual Site Model Illustration.

8. SUMMARY AND CONCLUSIONS

Based on the desk study, fieldwork observations, results of laboratory analyses and the contamination risk assessment, several conclusions can be made.

- The Moov Kraaifontein site operates as a fuel and lubricants storage and distribution facility.
- The site contains two 23m³ 50 ppm diesel ASTs within a concrete bund with associated fuel infrastructure.
- Prior to the site visit, K&T conducted a search of the NGA geo-referenced geohydrological database of registered groundwater abstractions. No registered groundwater abstraction points were identified within a 1 km radius of the site.
- According to the site manager, there are no records of any spills, leaks or overflows associated with the fuel infrastructure.
- The assessment was conducted in areas where contamination was suspected to have been present, designated as Study Area 1 and Study Area 2 (staging areas for fuel tankers on-site) and the Tank Farm Area located within close proximity to the two 23 m³ diesel ASTs.
- GPR scanning for the detection of underground infrastructure/services across the designated study areas was undertaken prior to any intrusive work on 11 June 2025.
- A total of eight hand auger locations were advanced across the three designated areas on-site: AH1 and AH2 within Study Area 1, AH3 and AH4 within Study Area 2, and AH5 to AH8 within the Tank Farm Area in close proximity to the two ASTs.
- Headspace testing was conducted on soil recovered at 0.3 m intervals during hand augering, wherein VOC readings ranged from:
 - 0.4 to 15.5 ppm in AH1;
 - 0.0 to 0.9 ppm in AH2;
 - 0.6 to 15.1 ppm in AH3;
 - 0.4 to 7.7 ppm in AH4;
 - 6.4 to 200 ppm in AH5;
 - 0.3 to 7.2 ppm in AH6;
 - 1.8 to 5.8 ppm in AH7;
 - 12.6 to 36.6 ppm in AH8.
- Soil samples (designated SS1 to SS8) were collected from within each of the eight hand auger locations, at depths with the highest VOC readings.
- Groundwater was encountered at a depth of 1.5 m bgl in the auger locations AH1 to AH4, and at 1.2 m bgl in AH5 to AH8.
- Groundwater samples were collected from four of the eight auger holes, namely AH1 W1 from AH1, AH4 W2 from AH4, AH5 W3 from AH5 and AH6 W4 from AH6.
- The eight soil and four groundwater samples collected were submitted to a SANAS-accredited laboratory for analyses of BTEXN, MTBE, TAME and TPH-banding.
- Concentrations of TPH (C₁₅-C₃₆) were detected in soil samples SS3, SS4, SS7 and SS8, and toluene in SS7, at concentrations that did not exceed any of the SSV guidelines.
- Targeted hydrocarbon compound concentrations were below detection limits in soil samples SS1, SS2, SS5 and SS6.
- A concentration of TPH (C₁₀-C₁₄) was detected in groundwater sample AH5 W3 which exceeded the Tier 1 RBSL for the ingestion of groundwater in a residential scenario. Additionally, a concentration of TPH (C₆-C₁₀) was also detected in AH5 W3; however, did not exceed any applicable Tier 1 RBSLs. The remaining hydrocarbon compounds in this sample were below detection limits.

- Targeted hydrocarbon compound concentrations in the remaining groundwater samples were all below detection limits.
- Adsorbed phase concentrations detected in soil samples SS3, SS4, SS7 and SS8 did not exceed any applicable SSV criteria. Consequently, the source-pathway-receptor linkages via soil are considered incomplete at this stage and do not pose a risk to on- and off-site receptors.
- The TPH (C₁₀-C₁₄) concentration detected in groundwater sample AH5 W3 exceeded the Tier 1 RBSL for the ingestion of groundwater in a residential scenario, however, no groundwater users were identified within close proximity to the site. Thus, the source-pathway-receptor linkage via the ingestion of groundwater is considered incomplete at this stage.
- Furthermore, targeted hydrocarbon compound concentrations within the groundwater sample collected adjacent to the off-site wetland to the southwest (AH4 W2) were below the detection limit. Consequently, dissolved phase concentrations detected on-site is considered to not pose a risk to the wetland at this stage as the source-pathway-linkage is considered incomplete.

CURRICULUM VITAE



ALISTAIR WAYNE FYFE

Executive Associate (Environmental Team Lead)

MSc Freshwater Ecology

SACNASP: 127083

Professional Qualifications	:	University of Cape Town – M.Sc. Freshwater Ecology; University of Cape Town – B.Sc. (Hons) in Zoology, Ecology and Marine Ecology
Specialisation In Firm	:	Environmental Compliance Monitoring, Contamination, Remediation and Freshwater Ecology

CAPABILITY SUMMARY:

I have worked in the environmental field since August 2013 wherein I commenced my working career as a Junior Wetland Specialist at SiVEST SA (Pty) Ltd in Rivonia, Johannesburg, where I undertook the design, organisation, fieldwork and reporting of surface water impact assessments for new developments and expansion projects. I was also involved in environmental impact assessments, basic assessments, water use license applications, strategic environmental assessments, due diligence assessments, liaison with specialists, public participation and regulatory bodies, preparation of specifications, budget estimates and proposals.

In May 2015 I commenced work in Greenside, Johannesburg, for Mills & Otten Environmental Consultants (Pty) Ltd as an Environmental Scientist. My main focus was on land contamination projects for petrochemical corporations, private enterprises and developers. These projects typically include determining potential hazards and associated risks to human health and the environment, whereby the source, extent and significance of vapour, soil and groundwater contamination were determined. I was also involved in the developed and implementation of monitoring programmes following remediation activities.

In September 2018 I started employment with Kantey & Templer (Pty) Ltd as an Environmental Scientist, thereafter, being promoted to Snr Environmental Scientist in 2022, to Associate in 2024, and to Executive Associate in 2025. My role involves the management of the K&T Cape Town Environmental division, which specialises in project management of land contamination and groundwater monitoring assessments, and includes cost development, income forecasting, project racking, liaising with clients, landowners and contractors, undertaking site investigations, identifying associated risks, the supervision of sub-contractors, data analysis, derivation of site-specific remedial actions, and the compilation and review of assessment reports.

EXPERIENCE TO DATE

Sept 2018 to present : **Kantey & Templer (Pty) Ltd**

Alistair joined the firm in September 2018 with the aim of assisting and complementing the Environmental Team in Cape Town. Subsequently, through just short of a seven-year involvement,

Alistair now is responsible for the management of the environmental division, which specialises in environmental investigations, remediation projects, soil and groundwater assessments, project management, client liaison and financial management. .

May 2015 to Aug 2018

: Mills & Otten (Pty) Ltd (Environmental Scientist)

- Contamination assessments and environmental monitoring (soil and groundwater).
- Development and implementation of monitoring programmes following remediation activities.
- Wetland risk assessment studies for new and existing facilities (e.g. golf courses, road-margin expansions).
- Implementation and management of in-house ISO equivalent Health and Safety policies and procedures in accordance with the OHS Act.
- Developed corrective action company procedures including improving cost control and reducing on site incidents.
- Mentoring of junior colleagues.

Aug 2013 to April 2015

: SiVEST (Pty) Ltd

- Surface water impact assessments for new and existing facilities (e.g. power lines, substations, industrial operation expansions).
- Environmental licensing in the form of environmental impacts assessments and basic assessments.
- Water use license applications.
- Strategic environmental assessments for local municipalities.
- Surface water due diligence assessments.
- Responsible for the liaison with specialists, public participation and regulatory bodies.
- Preparing of specifications, budget estimates and proposals for new projects.



herewith certifies that

Alistair Wayne Fyfe

Registration Number: 127083

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Environmental Science (Professional Natural Scientist)

Effective **22 January 2020**

Expires **31 March 2026**



A handwritten signature in black ink, appearing to read 'A. Fyfe'.

Chairperson

A handwritten signature in black ink, appearing to read 'N. Maseko'.

Chief Executive Officer



To verify this certificate scan this code

CURRICULUM VITAE



Riaan Delpont

Senior Environmental Consultant

BSc.Hons (Hydrology and Geohydrology), 2017, North-West University, Potchefstroom Campus.

BSc (Geology – Geography) 2016, North-West University, Potchefstroom Campus.

Professional Qualifications : SACNASP (Pr.Sci.Nat - 127620)

Specialisation In Firm : Environmental Scientist

CAPABILITY SUMMARY:

Riaan Delpont is an experienced Environmental Consultant with 4 years of professional experience in the environmental industry. He holds a BSc degree in Geology and Geography, as well as a BSc Honours degree in Geohydrology and Hydrology. Riaan's expertise lies in conducting environmental assessments, monitoring and reporting on environmental impacts, and ensuring compliance with environmental regulations.

Throughout his career, Riaan has demonstrated strong analytical and problem-solving skills, as well as the ability to effectively communicate technical information to both technical and non-technical audiences. He has experience working with a variety of stakeholders, including government agencies, private clients, and community groups.

Riaan's specific capabilities include:

- Conducting environmental assessments and impact studies;
- Developing and implementing environmental management plans;
- Monitoring and reporting on environmental impacts;
- Ensuring compliance with environmental regulations and standards;
- Conducting site investigations and risk assessments;
- Providing technical support and advice to clients and stakeholders;
- Managing projects and project teams;
- Communicating technical information to both technical and non-technical audiences.

Overall, Riaan is a highly capable and experienced Environmental Consultant with a strong track record of delivering high-quality environmental solutions to clients.

EXPERIENCE TO DATE**01 September 2021 – Current****Kantey & Templer (Pty) Ltd**

Senior Environmental Consultant

CONTAMINATOIN INVESTIGATION AND REMEDIATOIN:

- Client liaison,
- Groundwater monitoring and contaminated soil assessments including water (including oils, chemicals, etc.) and soil sampling for laboratory analysis, followed by an interpretation of the results and possible remediation techniques.
- Post petrochemical underground storage tank removal contamination assessment.
- Pipeline spill and leak assessment and monitoring.
- Contaminant plume delineation.
- Phase 1 contaminated land assessment.
- Groundwater monitoring well installation.
- Data analysis and report writing.

01 April 2021 – 31 July 2021**Liquor Runners**

Administrative assistant

- Order capturing.
- Info filing.
- Invoice crediting.
- Invoice debriefing.
- Stock check.
- Import and export of orders.

01 October 2019 – 28 February 2021**Thuni Farms Engineering Services**

Geohydrologist

- Geohydrological Reports.
- Hydrological Study.
- Return flow analysis.
- Environmental desktop research.
- e-WULAAS registration process.
- Site Visits (Phase 2 e-WULAAS).
- Pre-consultation meetings with Department of Water and Sanitation.
- Communications with the Department of Water and Sanitation.
- Client queries, quotes and communication.
- Social media advertisements and posts (Facebook & LinkedIn).
- Event organising.
- General office admin.

01 July 2019 – 30 September 2019**Tricon Agric Services**

Geohydrologist

- Geohydrological Reports.
- Hydrological Study.
- Return flow analysis.

- e-WULAAS registration process.
- Site Visits (Phase 2 e-WULAAS).
- Pre-consultation meetings with Department of Water and Sanitation.
- Client communication.

01 February 2018 – 30 June 2019 :

Little Einsteins Umhlanga Ridge

Head Administrator

- General Office Admin.
- Filing.
- Business Accounts.
- Petty Cash / Cash Flow.
- Fee allocations.
- Handling of telephone.
- Client queries.
- Client registration.
- Staff supervisor.
- Staff contracts and misconducts.
- School pantry & equipment supervisor.
- Personal assistant duties to Principal / Owner.

Vacation job (Dec every year 2011 – 2016) :

Liquor Runners

Casual Office Assistant

- Order capturing.
- Info Filing.
- Crediting.
- Invoice Debriefing.



herewith certifies that

Riaan Delport

Registration Number: 127620

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Earth Science (Professional Natural Scientist)

Effective **8 July 2020**

Expires **31 March 2026**



A handwritten signature in black ink, appearing to read 'S. Neph'.

Chairperson

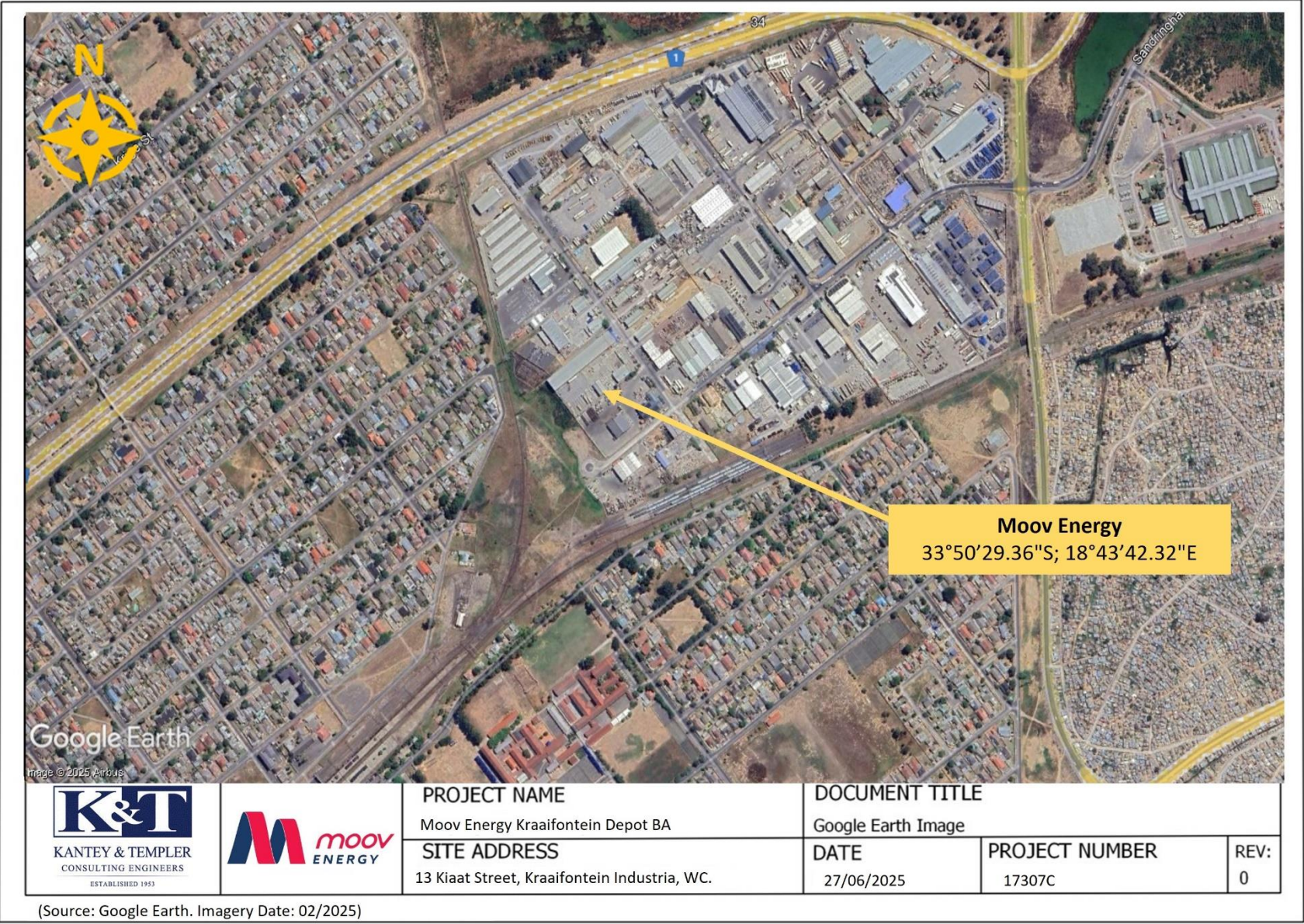
A handwritten signature in black ink, appearing to read 'N. Erasmus'.

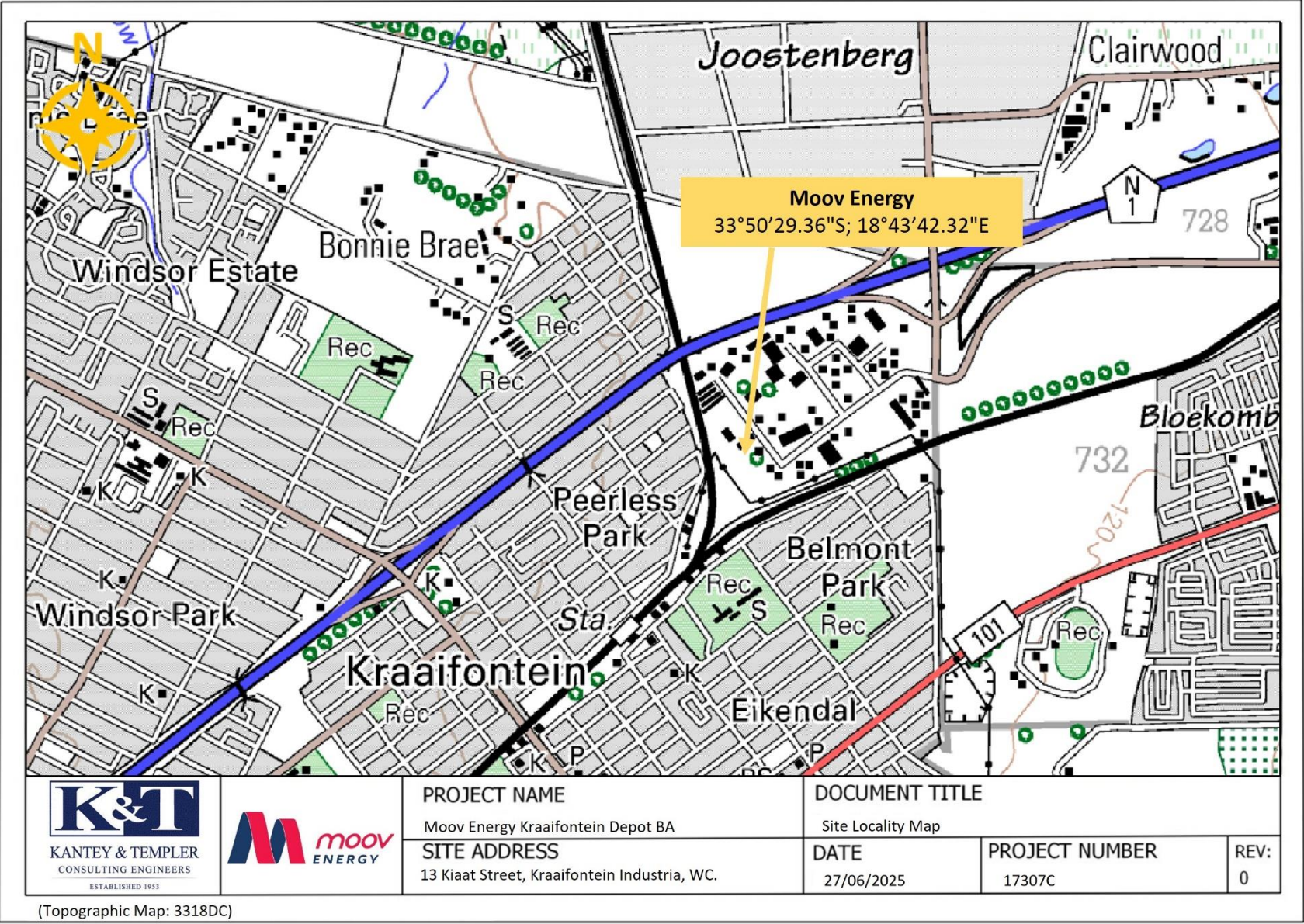
Chief Executive Officer



APPENDIX A

MAPS AND FIGURES





APPENDIX B

PHOTOGRAPHS



PHOTO 1: View of GPR Utility Scanning.

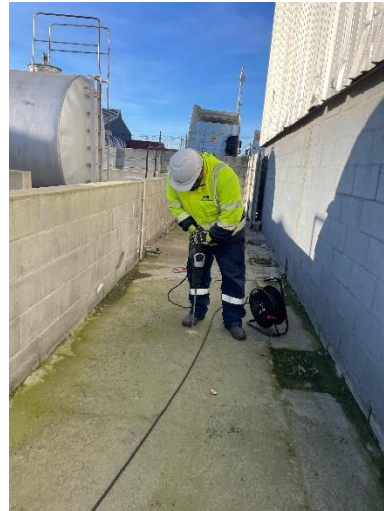


PHOTO 2: View of SVS conducted on site.



PHOTO 3: Core drilling to break through concrete surfacing.



PHOTO 4: View of diesel AST.

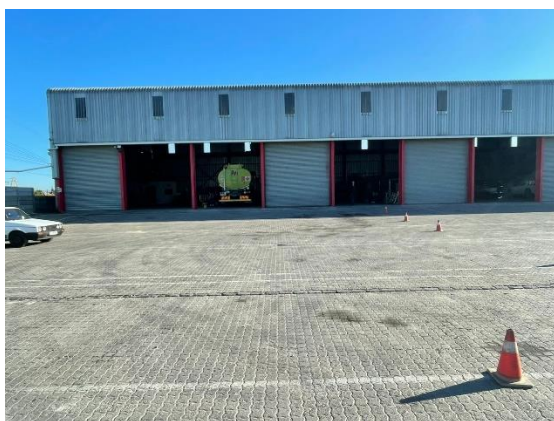


PHOTO 5: View of Study Area 1.

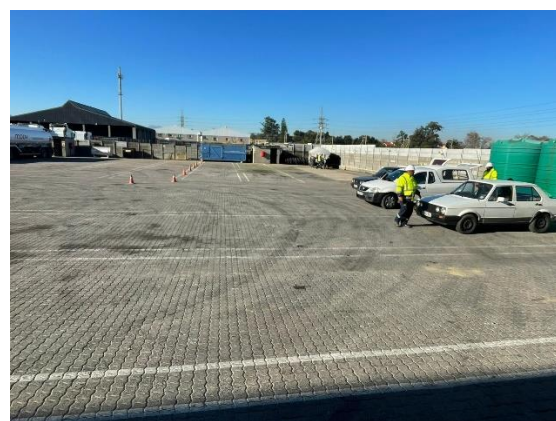


PHOTO 6: View of Study Area 2.

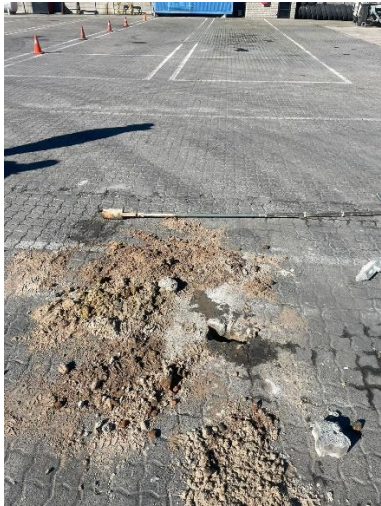
	
PHOTO 7: View of auger hole AH1.	PHOTO 8: View of soil samples from AH1.
	
PHOTO 9: View of auger hole AH2.	PHOTO 10: View of soil samples from AH2.
	
PHOTO 11: View of auger hole AH3.	PHOTO 12: View of soil samples from AH3.



PHOTO 14: View of soil samples from AH4.



PHOTO 16: View of soil samples from AH5.



PHOTO 18: View of soil samples from AH6.

			
PHOTO 19: View of auger hole AH7.		PHOTO 20: View of soil samples from AH7.	
			
PHOTO 21: View of auger hole AH8.		PHOTO 22: View of soil samples from AH8.	
		SITE PHOTOGRAPHS	11-12 June 2025
		MOOV KRAAIFONTEIN	17307C

APPENDIX C

AUGER LOGS AND SOIL PROFILES

Auger Hole No.	Depth (m bgl)	PID Reading (ppm)	Sample ID	Soil Description	Hydrocarbon Staining	Hydrocarbon Odour
AH1	0.3	0.4	-	Slightly moist, brown, loose, gravelly SAND.	None	None
	0.6	3.0	-			
	0.9	4.3	-			
	1.2	15.5	SS1	Slightly moist, light brown, loose, fine SAND.		
	1.5	Saturated	-	Wet, light brown, loose, fine SAND.		
	1.8		-			
	2.1		-			
AH2	0.3	0.9	SS2	Slightly moist, brown, loose, fine SAND.	None	None
	0.6	0.0	-			
	0.9	0.0	-			
	1.2	0.0	-	Moist, light brown, loose, fine SAND.		
	1.5	Saturated	-	Wet, light brown, loose, fine SAND.		
	1.8		-			
	2.1		-			
AH3	0.3	0.6	-	Slightly moist, brown, loose, fine SAND.	None	None
	0.6	6.8	-	Slightly moist, grey, loose, fine SAND.		
	0.9	15.1	SS3			
	1.2	10.2	-	Moist, grey, loose, fine SAND.		
	1.5	Saturated	-	Wet, light brown, loose, fine SAND.		
	1.8		-			
	2.1		-			
	2.4		-			
AH4	0.3	0.4	-	Slightly moist, light brown, loose, fine SAND.	None	None
	0.6	1.2	-			
	0.9	7.7	SS4			
	1.2	4.4	-	Moist, grey, loose, fine SAND.		

Auger Hole No.	Depth (m bgl)	PID Reading (ppm)	Sample ID	Soil Description	Hydrocarbon Staining	Hydrocarbon Odour
AH4 (cont.)	1.5	Saturated	-	Wet, grey, loose, fine SAND.	None	None
	1.8		-			
	2.1		-			
	2.4		-			
AH5	0.3	6.4	-	Slightly moist, reddish, loose, gravelly SAND.	None	None
	0.6	8.2	-	Slightly moist, brown, loose, fine SAND.		Slight
	0.9	200	SS5			
	1.2	Saturated	-	Wet, light brown, loose, fine SAND.		None
	1.5		-			
	1.8		-			
	2.1		-			
AH6	0.3	0.5	-	Slightly moist, reddish, loose, gravelly SAND.	None	None
	0.6	0.3	-	Moist, brown, loose, fine SAND.		
	0.9	7.2	SS6	Moist, light brown, loose, fine SAND.		
	1.2	Saturated	-	Wet, light brown, loose, fine SAND.		
	1.5		-			
	1.8		-			
	2.1		-			
AH7	0.3	2.1	-	Slightly moist, reddish, loose, gravelly SAND.	None	None
	0.6	1.8	-	Slightly moist, light brown, loose, fine SAND.		
	0.9	5.8	SS7	Moist, light brown, loose, fine SAND.		
	1.2	Saturated	-	Wet, light brown, loose, fine SAND.		
	1.5		-			
	1.8		-			
	2.1		-			
AH8	0.3	12.6	-	Slightly moist, brown, loose, fine SAND.	None	None

Auger Hole No.	Depth (m bgl)	PID Reading (ppm)	Sample ID	Soil Description	Hydrocarbon Staining	Hydrocarbon Odour
AH8 (cont.)	0.6	36.6	SS8	Moist, light brown, loose, fine SAND.	None	None
	0.9	19.2	-			
	1.2	Saturated	-	Wet, light brown, loose, fine SAND.		
	1.5		-			
	1.8		-			
	2.1		-			
	2.4		-			

APPENDIX D
UNDERGROUND UTILITY SCAN REPORT

Underground Utility Location CC

Registration Number: 2007/063786/23

Richard Schacht
Cell No: 079 329 4441

e-mail address: uulservices@gmail.com

Tel No: 021 704 6835
Address: P O Box 32028, Ottery, 7808

UNDERGROUND UTILITY DETECTION SCANNING REPORT

Moov Fuel – Kraaifontein

Scope of Work

Date: 11 June 2025

Underground Utility Location CC was appointed by Kantey & Templer to do an underground utility detection survey at the above site to locate and map underground utilities/services in a designated area shown to us by Kantey & Templer. This survey was aimed at marking out the position and direction of all services.

The following colours are used for the marking of detected services:

Red	-	Electrical Cables
Blue	-	Water Pipes
White	-	Storm Water Pipes
Yellow	-	Sewer Pipes
Green	-	Area Cleared / Coms Cables
Orange Dotted	-	Oil Pipes
Black Dotted	-	Unknown

Area 1

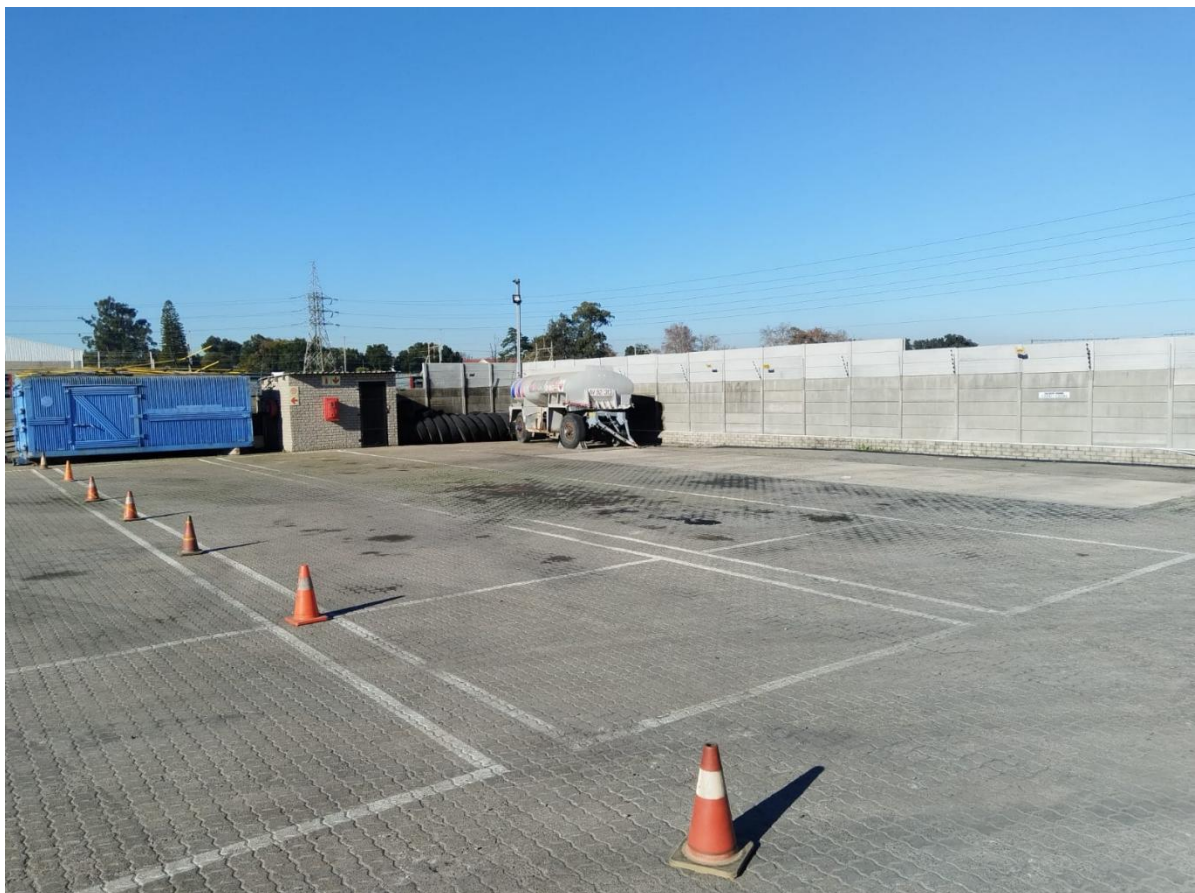
No Services Detected





Area 2

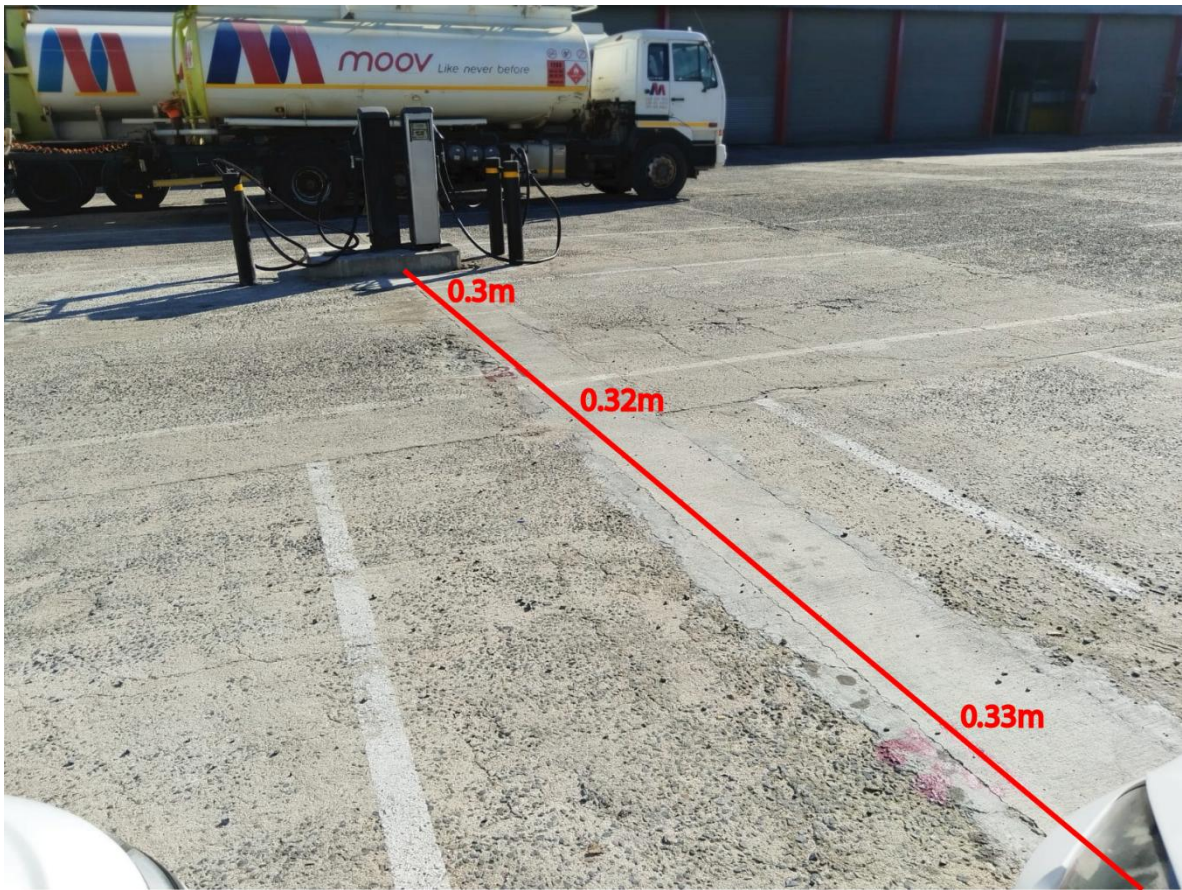
No Services Detected





Area 3





PRODUCT PIPES IN SAME TRENCH AS CABLE







Description of Equipment:

RD7200 – Cable and Pipe Location Kit

Used to locate metallic cables and pipes by inducing a signal onto the utility by means of:

1. Direct Connection at tap, light pole, etc.
2. Placing clamp around a cable in a manhole.

Accuracy: 5% of depth.

Cat and Genny Kit:

Used to scan for any unknown cables and pipes by detecting existing magnetic fields around the utility and by remotely inducing a magnetic field from the transmitter.

No depth reading.

RD1000 – Ground Penetrating Radar

Used to scan for and locate non-metallic cables and pipes.

By scanning the area with GPR, changes in ground conductivity are detected. The alignment of several positions of this nature usually indicates the existence of non-metallic services. GPR will only be used to locate services that could not be located by means of electromagnetic methods.

The GPR is not without its limitations. GPR radio wave signals are absorbed by the ground with some soils (clay, saline) greatly limiting exploration depths. GPR effectiveness is thus site specific and varies greatly from place to place. GPR also responds to changes in soil type, density, water content, rocky, as well as many other buried objects: making unique identification of the desired target difficult at times.

Accuracy: 10% of depth.

Site Specific Limitations:

GPR Confidence: 80%

GPR only seeing down to 0.9 meter in depth due to ground conditions.

Every effort has been made to locate all the buried services using current location technology. This equipment is developed and produced by Radiodetection (PTY) Ltd in Bristol in the UK. This specialist company has been in business for over 40 years. I have 20 years' experience using Radiodetection equipment.

Care should always be taken when digging and drilling on site. All the necessary weigh leaves and maps should be obtained from the local authorities before work commences. These must be used together with all the above mentioned information Underground Utility Location CC has provided.

Please note: Location work carried out by Underground Utility Location CC staff in no way guarantees that all pipes and cables have been identified and located. Underground Utility Location CC accepts no risk or responsibility if any pipes and cables are damaged or any personnel are injured in any way whatsoever or if any damage relating to water spillage or burst pipes occurs.

Yours faithfully



Richard Schacht
Owner
Underground Utility Location CC

STOP! Before you dig, call the specialist.

APPENDIX E
CHAIN OF CUSTODY DOCUMENT

APPENDIX F
CERTIFIED LABORATORY RESULTS

TEST REPORT

58698A

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011(TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: SS1

Dilutions: BTEX/GRO = 20, TPH = No Dilution

Container: Glass

Matrix: Soil
Storage: Fridge at 0-6°C

Date Received: 2025/06/13
Date Analysed: 2025/06/17
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

PARAMETER	RESULT
MTBE	<100 µg/kg
TAME	<100 µg/kg
Benzene	<8 µg/kg
Toluene	<20 µg/kg
Ethylbenzene	<8 µg/kg
m+p-Xylene	<16 µg/kg
o-Xylene	<8 µg/kg
1,3,5-Trimethylbenzene	<8 µg/kg
1,2,4-Trimethylbenzene	<8 µg/kg
Naphthalene	<8 µg/kg
TPH GRO C7-C9	<200 µg/kg

Total Petroleum Hydrocarbon (C10-C36)

PARAMETER	RESULT
TPH C10-C14	<20 mg/kg
TPH C15-C36	<22 mg/kg
TPH C10-C36 Total	<22 mg/kg

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

58698A

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011(TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: SS2

Dilutions: BTEX/GRO = 20, TPH = No Dilution

Container: Glass

Matrix: Soil
Storage: Fridge at 0-6°C

Date Received: 2025/06/13
Date Analysed: 2025/06/17
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

<u>PARAMETER</u>	<u>RESULT</u>
MTBE	<100 µg/kg
TAME	<100 µg/kg
Benzene	<8 µg/kg
Toluene	<20 µg/kg
Ethylbenzene	<8 µg/kg
m+p-Xylene	<16 µg/kg
o-Xylene	<8 µg/kg
1,3,5-Trimethylbenzene	<8 µg/kg
1,2,4-Trimethylbenzene	<8 µg/kg
Naphthalene	<8 µg/kg
TPH GRO C7-C9	<200 µg/kg

Total Petroleum Hydrocarbon (C10-C36)

<u>PARAMETER</u>	<u>RESULT</u>
TPH C10-C14	<20 mg/kg
TPH C15-C36	<22 mg/kg
TPH C10-C36 Total	<22 mg/kg

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

58698A

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011(TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: SS3

Dilutions: BTEX/GRO = 20, TPH = No Dilution

Container: Glass

Matrix: Soil
Storage: Fridge at 0-6°C

Date Received: 2025/06/13
Date Analysed: 2025/06/17
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

PARAMETER	RESULT
MTBE	<100 µg/kg
TAME	<100 µg/kg
Benzene	<8 µg/kg
Toluene	<20 µg/kg
Ethylbenzene	<8 µg/kg
m+p-Xylene	<16 µg/kg
o-Xylene	<8 µg/kg
1,3,5-Trimethylbenzene	<8 µg/kg
1,2,4-Trimethylbenzene	<8 µg/kg
Naphthalene	<8 µg/kg
TPH GRO C7-C9	<200 µg/kg

Total Petroleum Hydrocarbon (C10-C36)

PARAMETER	RESULT
TPH C10-C14	<20 mg/kg
TPH C15-C36	46 mg/kg
TPH C10-C36 Total	46 mg/kg

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

58698A

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011(TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: SS4

Dilutions: BTEX/GRO = 20, TPH = No Dilution

Container: Glass

Matrix: Soil
Storage: Fridge at 0-6°C

Date Received: 2025/06/13
Date Analysed: 2025/06/17
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

PARAMETER	RESULT
MTBE	<100 µg/kg
TAME	<100 µg/kg
Benzene	<8 µg/kg
Toluene	<20 µg/kg
Ethylbenzene	<8 µg/kg
m+p-Xylene	<16 µg/kg
o-Xylene	<8 µg/kg
1,3,5-Trimethylbenzene	<8 µg/kg
1,2,4-Trimethylbenzene	<8 µg/kg
Naphthalene	<8 µg/kg
TPH GRO C7-C9	<200 µg/kg

Total Petroleum Hydrocarbon (C10-C36)

PARAMETER	RESULT
TPH C10-C14	<20 mg/kg
TPH C15-C36	37 mg/kg
TPH C10-C36 Total	37 mg/kg

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

58698A

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011(TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: SS5

Dilutions: BTEX/GRO = 20, TPH = No Dilution

Container: Glass

Matrix: Soil
Storage: Fridge at 0-6°C

Date Received: 2025/06/13
Date Analysed: 2025/06/17
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

PARAMETER	RESULT
MTBE	<100 µg/kg
TAME	<100 µg/kg
Benzene	<8 µg/kg
Toluene	<20 µg/kg
Ethylbenzene	<8 µg/kg
m+p-Xylene	<16 µg/kg
o-Xylene	<8 µg/kg
1,3,5-Trimethylbenzene	<8 µg/kg
1,2,4-Trimethylbenzene	<8 µg/kg
Naphthalene	<8 µg/kg
TPH GRO C7-C9	<200 µg/kg

Total Petroleum Hydrocarbon (C10-C36)

PARAMETER	RESULT
TPH C10-C14	<20 mg/kg
TPH C15-C36	<22 mg/kg
TPH C10-C36 Total	<22 mg/kg

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

58698A

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011(TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: SS6

Dilutions: BTEX/GRO = 20, TPH = No Dilution

Container: Glass

Matrix: Soil
Storage: Fridge at 0-6°C

Date Received: 2025/06/13
Date Analysed: 2025/06/17
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

<u>PARAMETER</u>	<u>RESULT</u>
MTBE	<100 µg/kg
TAME	<100 µg/kg
Benzene	<8 µg/kg
Toluene	<20 µg/kg
Ethylbenzene	<8 µg/kg
m+p-Xylene	<16 µg/kg
o-Xylene	<8 µg/kg
1,3,5-Trimethylbenzene	<8 µg/kg
1,2,4-Trimethylbenzene	<8 µg/kg
Naphthalene	<8 µg/kg
TPH GRO C7-C9	<200 µg/kg

Total Petroleum Hydrocarbon (C10-C36)

<u>PARAMETER</u>	<u>RESULT</u>
TPH C10-C14	<20 mg/kg
TPH C15-C36	<22 mg/kg
TPH C10-C36 Total	<22 mg/kg

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

58698A

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011(TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: SS7

Dilutions: BTEX/GRO = 20, TPH = No Dilution

Container: Glass

Matrix: Soil
Storage: Fridge at 0-6°C

Date Received: 2025/06/13
Date Analysed: 2025/06/17
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

PARAMETER	RESULT
MTBE	<100 µg/kg
TAME	<100 µg/kg
Benzene	<8 µg/kg
Toluene	93 µg/kg
Ethylbenzene	<8 µg/kg
m+p-Xylene	<16 µg/kg
o-Xylene	<8 µg/kg
1,3,5-Trimethylbenzene	<8 µg/kg
1,2,4-Trimethylbenzene	<8 µg/kg
Naphthalene	<8 µg/kg
TPH GRO C7-C9	<200 µg/kg

Total Petroleum Hydrocarbon (C10-C36)

PARAMETER	RESULT
TPH C10-C14	<20 mg/kg
TPH C15-C36	96 mg/kg
TPH C10-C36 Total	96 mg/kg

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

58698A

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011(TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: SS8

Dilutions: BTEX/GRO = 20, TPH = No Dilution

Container: Glass

Matrix: Soil
Storage: Fridge at 0-6°C

Date Received: 2025/06/13
Date Analysed: 2025/06/17
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

PARAMETER	RESULT
MTBE	<100 µg/kg
TAME	<100 µg/kg
Benzene	<8 µg/kg
Toluene	<20 µg/kg
Ethylbenzene	<8 µg/kg
m+p-Xylene	<16 µg/kg
o-Xylene	<8 µg/kg
1,3,5-Trimethylbenzene	<8 µg/kg
1,2,4-Trimethylbenzene	<8 µg/kg
Naphthalene	<8 µg/kg
TPH GRO C7-C9	<200 µg/kg

Total Petroleum Hydrocarbon (C10-C36)

PARAMETER	RESULT
TPH C10-C14	<20 mg/kg
TPH C15-C36	190 mg/kg
TPH C10-C36 Total	190 mg/kg

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

58698B

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011 (TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: AH1 W1

Dilutions: BTEX/GRO = No Dilution, TPH = No Dilution

Container: Glass

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

Date Received: 2025/06/13
Date Analysed: 2025/06/14
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

PARAMETER	RESULT
MTBE	<5 µg/liter
TAME	<5 µg/liter
Benzene	<0.4 µg/liter
Toluene	<1 µg/liter
Ethylbenzene	<0.4 µg/liter
m+p-Xylene	<0.8 µg/liter
o-Xylene	<0.4 µg/liter
1,3,5-Trimethylbenzene	<0.4 µg/liter
1,2,4-Trimethylbenzene	<0.4 µg/liter
Naphthalene	<0.4 µg/liter
TPH GRO C7-C9	<10 µg/liter
TPH GRO C6-C10	<10 µg/liter

Total Petroleum Hydrocarbons (C10-C40)

PARAMETER	RESULT
TPH C10-C14	<60 µg/liter
TPH C14-C15	<60 µg/liter
TPH C15-C16	<60 µg/liter
TPH C16-C21	<82 µg/liter
TPH C21-C28	<120 µg/liter
TPH C28-C36	<90 µg/liter
TPH C36-C40	<50 µg/liter

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

58698B

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011 (TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: AH4 W2

Dilutions: BTEX/GRO = No Dilution, TPH = No Dilution

Container: Glass

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

Date Received: 2025/06/13
Date Analysed: 2025/06/14
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

PARAMETER	RESULT
MTBE	<5 µg/liter
TAME	<5 µg/liter
Benzene	<0.4 µg/liter
Toluene	<1 µg/liter
Ethylbenzene	<0.4 µg/liter
m+p-Xylene	<0.8 µg/liter
o-Xylene	<0.4 µg/liter
1,3,5-Trimethylbenzene	<0.4 µg/liter
1,2,4-Trimethylbenzene	<0.4 µg/liter
Naphthalene	<0.4 µg/liter
TPH GRO C7-C9	<10 µg/liter
TPH GRO C6-C10	<10 µg/liter

Total Petroleum Hydrocarbons (C10-C40)

PARAMETER	RESULT
TPH C10-C14	<60 µg/liter
TPH C14-C15	<60 µg/liter
TPH C15-C16	<60 µg/liter
TPH C16-C21	<82 µg/liter
TPH C21-C28	<120 µg/liter
TPH C28-C36	<90 µg/liter
TPH C36-C40	<50 µg/liter

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

58698B

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011 (TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: AH5 W3

Dilutions: BTEX/GRO = No Dilution, TPH = No Dilution

Container: Glass

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

Date Received: 2025/06/13
Date Analysed: 2025/06/14
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

PARAMETER	RESULT
MTBE	<5 µg/liter
TAME	<5 µg/liter
Benzene	<0.4 µg/liter
Toluene	<1 µg/liter
Ethylbenzene	<0.4 µg/liter
m+p-Xylene	<0.8 µg/liter
o-Xylene	<0.4 µg/liter
1,3,5-Trimethylbenzene	<0.4 µg/liter
1,2,4-Trimethylbenzene	<0.4 µg/liter
Naphthalene	<0.4 µg/liter
TPH GRO C7-C9	62 µg/liter
TPH GRO C6-C10	180 µg/liter

Total Petroleum Hydrocarbons (C10-C40)

PARAMETER	RESULT
TPH C10-C14	690 µg/liter
TPH C14-C15	<60 µg/liter
TPH C15-C16	<60 µg/liter
TPH C16-C21	<82 µg/liter
TPH C21-C28	<120 µg/liter
TPH C28-C36	<90 µg/liter
TPH C36-C40	<50 µg/liter

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

58698B

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011 (TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: AH6 W4

Dilutions: BTEX/GRO = No Dilution, TPH = No Dilution

Container: Glass

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

Date Received: 2025/06/13
Date Analysed: 2025/06/14
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

PARAMETER	RESULT
MTBE	<5 µg/liter
TAME	<5 µg/liter
Benzene	<0.4 µg/liter
Toluene	<1 µg/liter
Ethylbenzene	<0.4 µg/liter
m+p-Xylene	<0.8 µg/liter
o-Xylene	<0.4 µg/liter
1,3,5-Trimethylbenzene	<0.4 µg/liter
1,2,4-Trimethylbenzene	<0.4 µg/liter
Naphthalene	<0.4 µg/liter
TPH GRO C7-C9	<10 µg/liter
TPH GRO C6-C10	<10 µg/liter

Total Petroleum Hydrocarbons (C10-C40)

PARAMETER	RESULT
TPH C10-C14	<60 µg/liter
TPH C14-C15	<60 µg/liter
TPH C15-C16	<60 µg/liter
TPH C16-C21	<82 µg/liter
TPH C21-C28	<120 µg/liter
TPH C28-C36	<90 µg/liter
TPH C36-C40	<50 µg/liter

Disclaimers

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Reinardt Cromhout
Authorised Signatory

TEST REPORT

58698B

Test Description BTEXMN/Gasoline Range Organics and Total Petroleum Hydrocarbons

Test Method: EPL-T-012 (BTEX/GRO) and EPL-T-011 (TPH)

Client and Project Information

Client: Kantey & Templer Cape Town

Address: Box 3132
Cape Town
8000

Attention: Alistair Fyfe
Tel: (021) 405-9600
Email: afyfe@ct.kanteys.co.za

Project number: 17307C
Project name: Moov Kraaifontein

Sample Information

Sample ID: Trip Blank

Dilutions: BTEX/GRO = No Dilution, TPH = No Dilution

Container: Glass

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

Date Received: 2025/06/13
Date Analysed: 2025/06/14
Date Issued: 2025/06/23

BTEXMN and Gasoline Range Organics

PARAMETER	RESULT
MTBE	<5 µg/liter
TAME	<5 µg/liter
Benzene	<0.4 µg/liter
Toluene	<1 µg/liter
Ethylbenzene	<0.4 µg/liter
m+p-Xylene	<0.8 µg/liter
o-Xylene	<0.4 µg/liter
1,3,5-Trimethylbenzene	<0.4 µg/liter
1,2,4-Trimethylbenzene	<0.4 µg/liter
Naphthalene	<0.4 µg/liter
TPH GRO C7-C9	<10 µg/liter
TPH GRO C6-C10	<10 µg/liter

Total Petroleum Hydrocarbons (C10-C40)

PARAMETER	RESULT
TPH C10-C14	Not Analysed
TPH C14-C15	Not Analysed
TPH C15-C16	Not Analysed
TPH C16-C21	Not Analysed
TPH C21-C28	Not Analysed
TPH C28-C36	Not Analysed
TPH C36-C40	Not Analysed

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) Parameters marked " * " are not included in the SANAS Schedule of Accreditation for this laboratory.
- 4) A = Concentration outside calibration range, O = Outsourced analysis, UTD = Unable to Determine.
- 5) Uncertainty of measurement for all methods included in the SANAS Schedule of Accreditation is available on request.

Reinardt Cromhout
Authorised Signatory

APPENDIX G

PERMIT TO WORK

WORK PERMIT

0028

1 Date: <u>11/06/2025</u>		Time: <u>10h30</u>		Area: <u>Moov Kraaifontein Depot</u>		Permit Nr: <u>GV0028</u>	
2. Issuing of Permit							
Permit Issuer		Employee(s) / Artisan(s)				Standby	
Issued By: <u>Go Venter</u>		Name 1. <u>ASHLEY ISAKS</u>		3. <u>MISHAMO BOHWANA</u>		Name <u>MISHAMO NETSHIMBE</u>	
Signature: <u>[Signature]</u>		Signature 2. <u>[Signature]</u>		4. <u>[Signature]</u>		Signature <u>[Signature]</u>	
3. Transfer of Permit							
Date: <u>11/06/2025</u> Time: <u>10h30</u>		Employee(s) / Artisan(s)				Standby	
Issued By: <u>Go Venter</u>		Name 1. _____		3. _____		Name _____	
Signature: <u>[Signature]</u>		Signature 2. _____		4. _____		Signature _____	
4. Description of Task(s)				5. Special Instructions			
<u>Drilling</u>							
6. Precautions taken by Permit Issuer(s)				7. Instructions for employees(s) / artisan(s)			
	YES	NO	N/A		YES	NO	N/A
Work area clean (free from chemicals etc.)	☒	☐	N/A	Ensure all energy shut off and locked out	☒	☐	☒ N/A
Equipment decontaminated (Tanks etc.)	☒	☐	N/A	Wear suitable PPE (special PPE if needed)	☒	☐	N/A
All forms of energy locked out	☒	☐	N/A	Use special equipment (breathing aids, etc.)	☒	☐	N/A
Confined space atmosphere tested 0 for all readings & 20.9 for Oxygen	☒	☐	☒ N/A	Hot Work permitted (attached)	☒	☐	N/A
Warnings affixed and area fenced off	☒	☐	N/A	Confined space entry permitted (attached)	☒	☐	☒ N/A
Other:	☒	☐	N/A	Other:			
8. Instructions to Standby				9. Special Authorisation by Facility Manager			
				SIGNATURE			
May assist employee(s) / artisan(s)				Drill / Saw / Fire Work			
Decontamination certificate required				Hot Work			
May leave artisan for 5 min (max period)				Working in Confined Spaces			
Other:				Decontamination certificate required			
10. Completion of Work / Certificate				DATE			
				SIGNATURE			
Work Completed	YES	NO	N/A	Employee/Artisan:	Date:	Sig:	<u>[Signature]</u>
Work Area Clean	YES	NO	N/A	Stand-by:	Date:	Sig:	
Equipment/Area safe for work	YES	NO	AREA	Permit Issuer:	Date:	Sig:	
11. Note: Everyone who signed this permit, acknowledges hereby that they are acquainted with the contents hereof as well as the requirements of their maintenance policy. Any further instructions can be written on the reverse side of this form.							

WORK PERMIT

0029

1 Date: <u>12/06/2025</u>		Time: <u>09h00</u>		Area: <u>Moov Kraai-Entein Depot</u>		Permit Nr: <u>GV0029</u>	
2. Issuing of Permit							
Permit Issuer		Employee(s) / Artisan(s)				Standby	
Issued By: <u>Go Venter</u>	Name	1. <u>ASH RAY ISMA</u>	3. <u>Vhutshilo Mkhumbi</u>	5. <u>Mishu mo Bheume</u>	Name	<u>Vhutshilo Mkhumbi</u>	
Signature: <u>[Signature]</u>	Signature	2. <u>[Signature]</u>	4. <u>[Signature]</u>	6. <u>[Signature]</u>	Signature	<u>[Signature]</u>	
3. Transfer of Permit							
Date: <u>12/06/2025</u> Time: _____		Employee(s) / Artisan(s)				Standby	
Issued By: <u>Go Venter</u>	Name	1. _____	3. _____	5. _____	Name	_____	
Signature: <u>[Signature]</u>	Signature	2. _____	4. _____	6. _____	Signature	_____	
4. Description of Task(s)				5. Special Instructions			
<u>Drilling</u>							
6. Precautions taken by Permit Issuer(s)			YES	NO	N/A	7. Instructions for employees(s) / artisan(s)	
Work area clean (free from chemicals etc.)			☒	☐	N/A	Ensure all energy shut off and locked out	
Equipment decontaminated (Tanks etc.)			☒	☐	N/A	Wear suitable PPE (special PPE if needed)	
All forms of energy locked out			☒	☐	N/A	Use special equipment (breathing aids, etc.)	
Confined space atmosphere tested 0 for all readings & 20.9 for Oxygen			☒	☐	N/A	Hot Work permitted (attached)	
Warnings affixed and area fenced off			☒	☐	N/A	Confined space entry permitted (attached)	
Other:			☒	☐	N/A	Other:	
8. Instructions to Standby			YES	NO	N/A	9. Special Authorisation by Facility Manager	
May assist employee(s) / artisan(s)			☒	☐	N/A	Drill / Saw / Fire Work	
Decontamination certificate required			☒	☐	N/A	Hot Work	
May leave artisan for 5 min (max period)			☒	☐	N/A	Working in Confined Spaces	
Other:						Decontamination certificate required	
10. Completion of Work / Certificate						DATE	
Work Completed						Sig: <u>[Signature]</u>	
Work Area Clean						Date: <u>12/06/2025</u>	
Equipment/Area safe for work						Date: <u>12/06/2025</u>	
Employee/Artisan:						Sig: <u>[Signature]</u>	
Stand-by:						Date: <u>12/06/2025</u>	
Permit Issuer:						Sig: <u>[Signature]</u>	
11. Note: Everyone who signed this permit, acknowledges hereby that they are acquainted with the contents hereof as well as the requirements of their maintenance policy. Any further instructions can be written on the reverse side of this form.							



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