

ENVIRONMENTAL · CONTAMINATED LAND

# Environmental Characterization







Comprehensive Phase I & Phase II environmental site assessments, contamination delineation, and remediation design for industrial, oil & gas, and legacy sites across Kuwait — defensible findings that stand up to EPA Kuwait, KOC HSE, and lender scrutiny.



Since 2004 · EPA Kuwait aligned · ISO 14001 certified · KOC HSE compliant · ASTM E1527

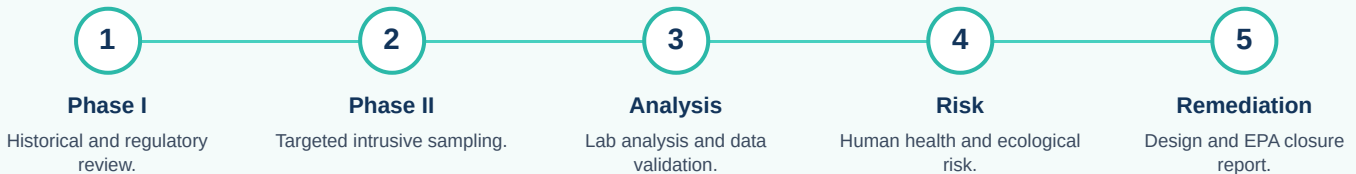
## Characterize the risk before it becomes a liability.

Vision International supports industrial operators, developers, KOC-area contractors, and regulators with comprehensive **environmental due diligence** — from Phase I desktop assessments through full Phase II intrusive investigations (soil, groundwater, soil vapour), human-health and ecological risk assessment, and remediation design. We work to **EPA Kuwait guidelines, ASTM E1527/E1903, BS 10175, and KOC HSE standards** to deliver defensible findings for land transactions, permit renewals, tender support, and legacy-spill closure.

 <p><b>Phase I ESA</b> Desktop regulatory review, site reconnaissance, and Recognized Environmental Conditions (RECs) per ASTM E1527 and BS 10175.</p>	 <p><b>Phase II Investigation</b> Intrusive sampling of soil, groundwater, and soil vapour to delineate contamination extent and magnitude.</p>	 <p><b>Groundwater Quality</b> Monitoring-well networks, low-flow sampling, plume characterization, and long-term monitoring programmes.</p>
 <p><b>Contaminant Delineation</b> 3D plume modelling using CPT, MIP, and direct-push methods for lateral and vertical delineation.</p>	 <p><b>Risk Assessment</b> Tier 1 / Tier 2 human-health and ecological risk assessment to site-specific target levels (SSTLs).</p>	 <p><b>Remediation Design</b> Excavation, bioremediation, SVE, pump-and-treat design with cost modelling and EPA closure reporting.</p>

HOW WE WORK

## From Screening to Remediation — One Environmental Team



**Land transaction, permit renewal, or legacy spill?**

Project scoped within 3 business days · EPA Kuwait and KOC HSE compliant scopes of work

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# Full Environmental & Contaminated Land Offering

EPA Kuwait Aligned

KOC HSE Compliant

ASTM E1527 / E1903

ISO 14001 Certified

## SITE ASSESSMENT

- Phase I Environmental Site Assessment (ASTM E1527)
- Phase II intrusive investigation (ASTM E1903)
- Regulatory and historical desktop review
- Site reconnaissance and stakeholder interviews
- Recognized Environmental Conditions (RECs)
- KOC, KNPC, KGOC-area HSE pre-clearance
- Pre-acquisition environmental due diligence

## SAMPLING & MONITORING

- Soil, groundwater, and vapour sampling
- Monitoring well installation & development
- Low-flow groundwater sampling (EPA protocol)
- Membrane Interface Probe (MIP) profiling
- Direct-push sampling (Geoprobe)
- Long-term monitoring programmes
- Chain-of-custody protocols

## CHARACTERIZATION & RISK

- Contaminant plume delineation
- 3D contaminant modelling
- Tier 1 / Tier 2 risk assessment
- Fate and transport modelling
- Site-specific target levels (SSTLs)
- Vapour intrusion assessment
- Ecological risk screening

## REMEDIATION & CLOSURE

- Remediation strategy and feasibility study
- Excavation and ex-situ treatment
- Soil vapour extraction (SVE) design
- Bioremediation and monitored natural attenuation
- Pump-and-treat and permeable reactive barriers
- Remediation oversight and confirmation sampling
- Closure reporting to EPA Kuwait

## The Vision Difference — Why Clients Choose Us



### Integrated Delivery

Field crews, senior engineers, and accredited ISO 17025 laboratory under one roof — no hand-off delays, no subcontractor gaps.



### Engineer-Led Reports

Every deliverable is signed by a senior chartered engineer — findings interpreted for design, not delivered as raw data.



### Schedule-Driven

Owned equipment, owned laboratory, owned teams. We hit tight oil & gas, MPW, KOC, and EPC schedules — every time.

## Sectors We Serve

Oil & Gas

Infrastructure

Marine & Ports

Buildings & Towers

Industrial

Government

2004

ESTABLISHED

2000+

PROJECTS DELIVERED

4

ISO CERTIFICATIONS

Kuwait

& GCC COVERAGE



Vision International General Trading & Contracting Co. W.L.L.

Established 2004 · Kuwait-based · GCC delivery

### OFFICE

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