
VERTEX

Environmental Inc.

239 Montrose Street North, Unit 1, Cambridge, Ontario, Canada N3H 2J3
Tel: 519.653.8444 Fax: 519.653.8494 E-mail: info@vertexenvironmental.ca

MEMORANDUM

To:	Client
From:	Bruce Tunncliffe
Subject:	In-Situ Remediation Information required for Budget Estimation
Pages:	1

The following information is useful to allow Vertex to provide cost estimates. It may be that not all of this information is available for your Site, please contact Vertex to discuss Site objectives and we can discuss the minimum data requirements.

- Site Location and Access (i.e. paved, grassed, indoors, ceiling clearance, etc.)
- Remedial Objective
- Remedial Timeframe
- Contaminant Chemistry
 - presence of free phase,
 - maximum and average concentrations (water and soil),
 - distribution (area extent, depth, on and/or off site),
 - breakdown products, and
 - trace compounds, etc.
- Geology
 - fractured vs. unconsolidated, and
 - heterogeneity, lens, seams, secondary porosity.
- Hydrogeology
 - groundwater flow direction,
 - hydrostratigraphic units (i.e. aquitards, aquifers),
 - vertical and horizontal hydraulic conductivities, and
 - vertical and horizontal gradients.
- Inorganic Chemistry
 - oxygen, iron, sulphate, nitrate, methane, pH, ORP, etc.
- Natural Oxidant / Reductant Demand
- Location of Utilities, Structures
- Utilities Present (i.e. water, electrical)