Han Lu, P.Eng., Toronto Economic Development Corporation
Meggan Jones, M.Sc., RMF, P.Eng., Earth Tech Canada
Christine Patterson, P.Eng., Earth Tech Canada
Tom Li, P.Eng., Earth Tech Canada

Remediation Strategies in an Urban Park Setting

Casestudy: Cherry Beach, Toronto's Waterfront

EarthTech
a tyco International Ltd. Company

CHERRY BEACH REMEDIATION

The Project

The Solution

The Challenges

Lessons Learned

THE future

EarthTech
a tyco International Ltd. Company

THE SOLUTION

THE CHALLENGES

Complexities in the Regulatory Process
Multiple & high level contaminants
High profile location with valued trees
Multiple Stakeholders

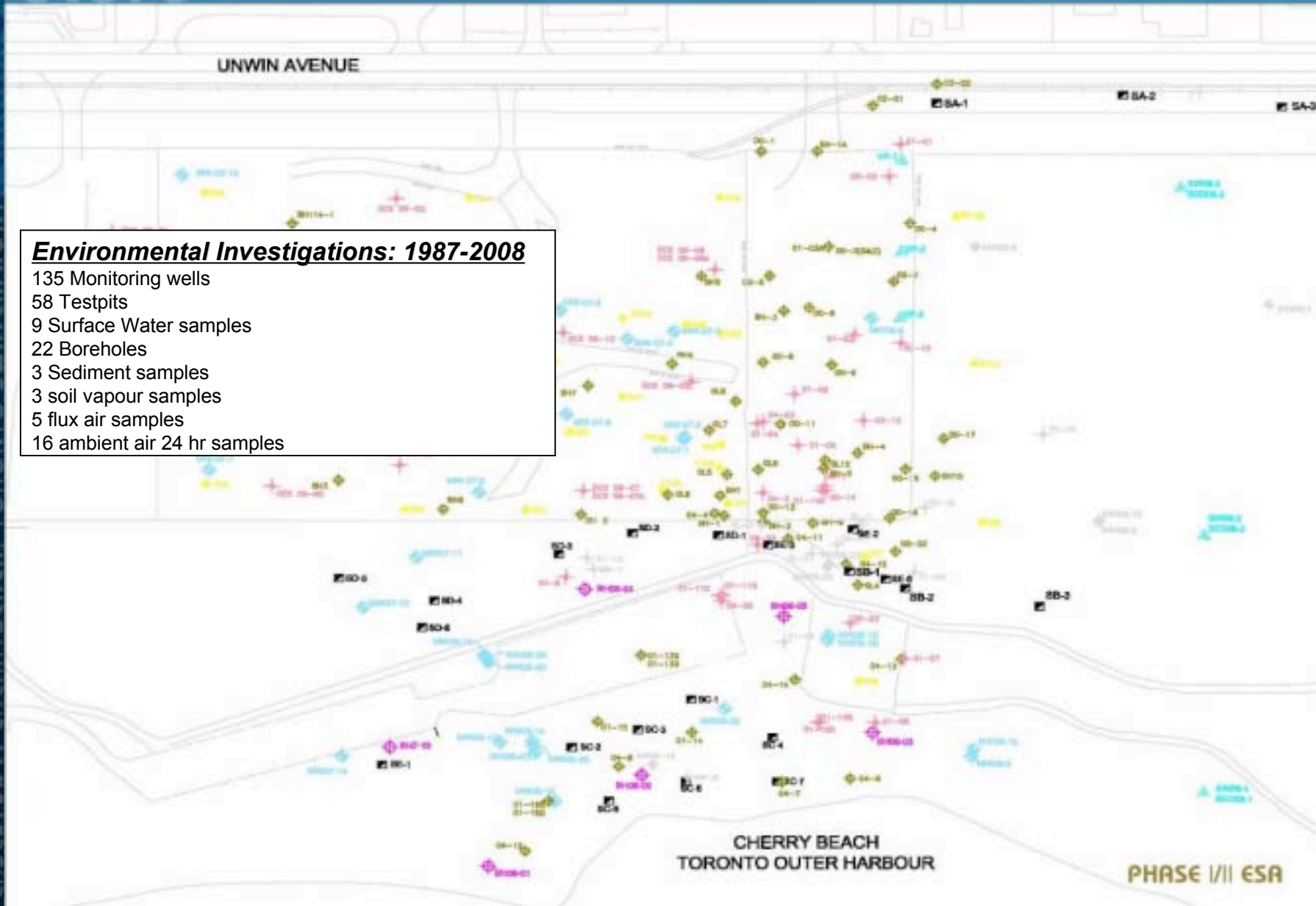
THE REGULATORY PROCESS

CONTAMINATED SITE ASSESSMENT

EarthTech
tyco International Ltd. Company

THE future

CASESTUDY: CHERRYBEACH, TORONTO'SWATERFRONT PLANNING



Environmental Investigations: 1987-2008

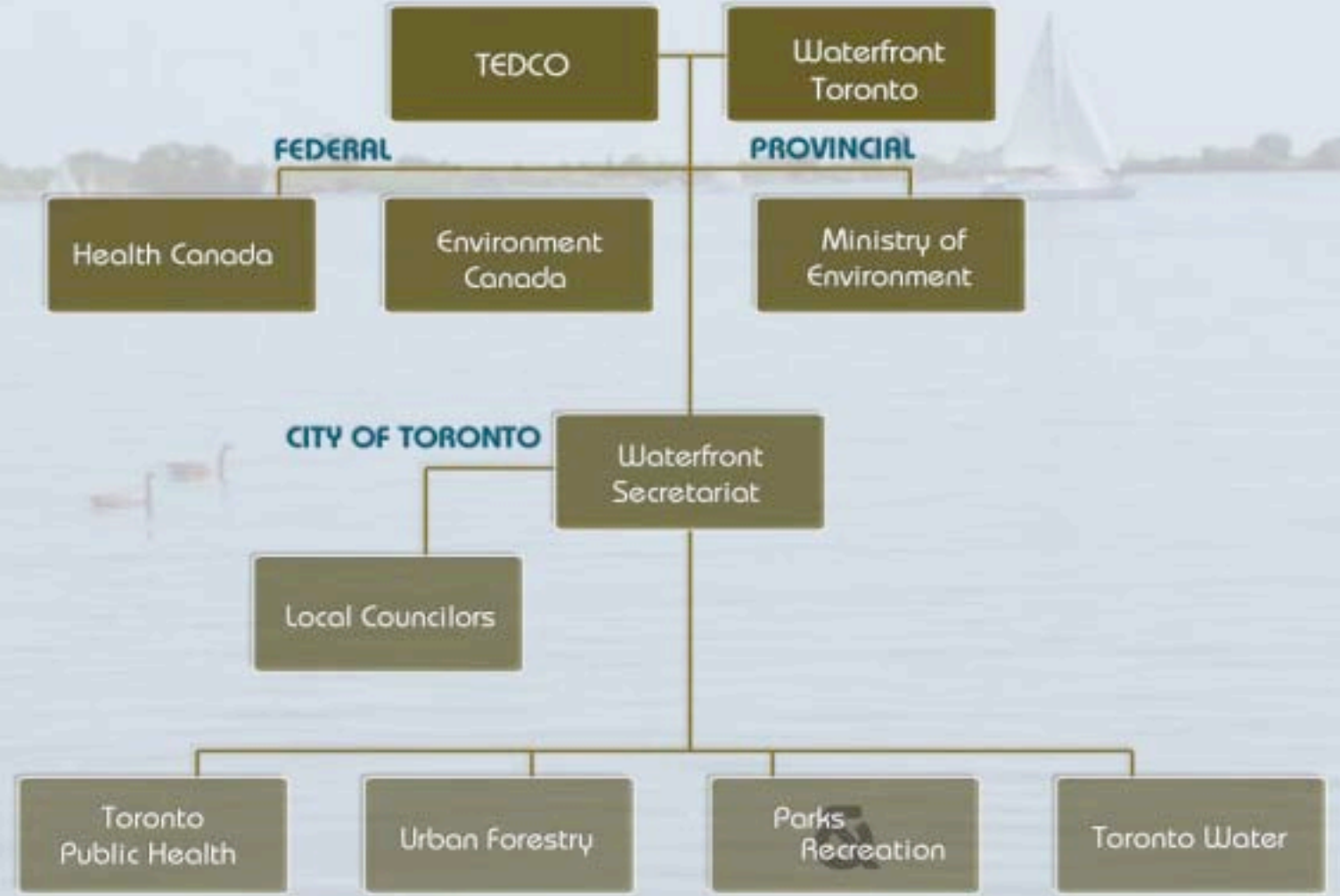
135 Monitoring wells
58 Testpits
9 Surface Water samples
22 Boreholes
3 Sediment samples
3 soil vapour samples
5 flux air samples
16 ambient air 24 hr samples

CONTAMINATED SITE ASSESSMENT

EarthTech
a tyco International Ltd. Company

THE STAKEHOLDERS

EarthTech
tyco International Ltd. Company



THE PROCESS

Brownfield Re-development Process

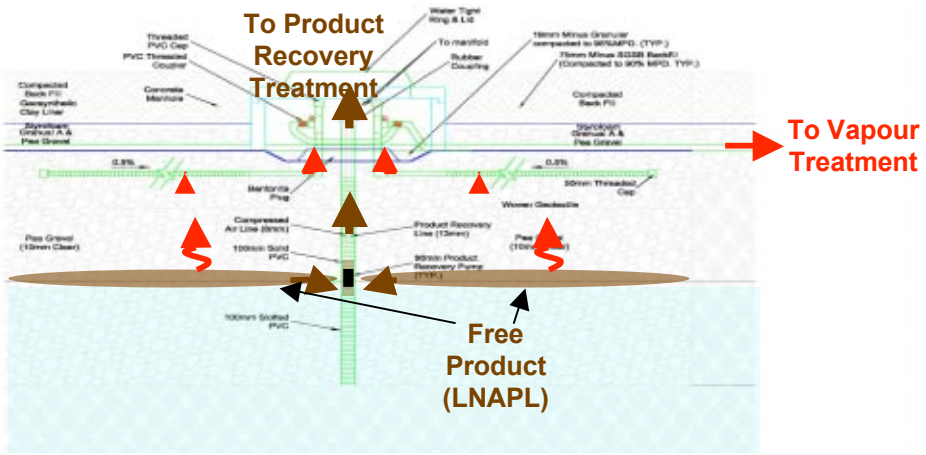
Risk Assessment and Risk Management Plan

Remedial Action Plan and Remedial Design

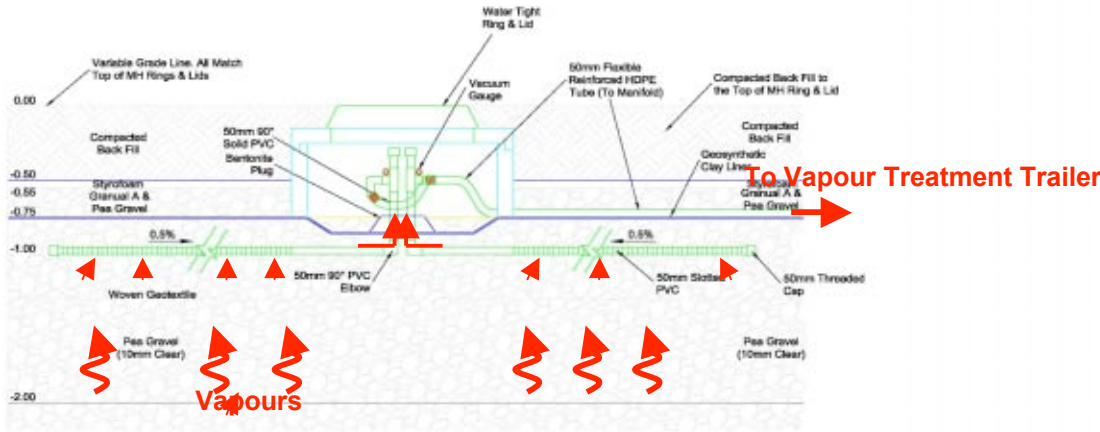
Remediation Installation

RISK ASSESSMENT AND RISK MANAGEMENT PLAN

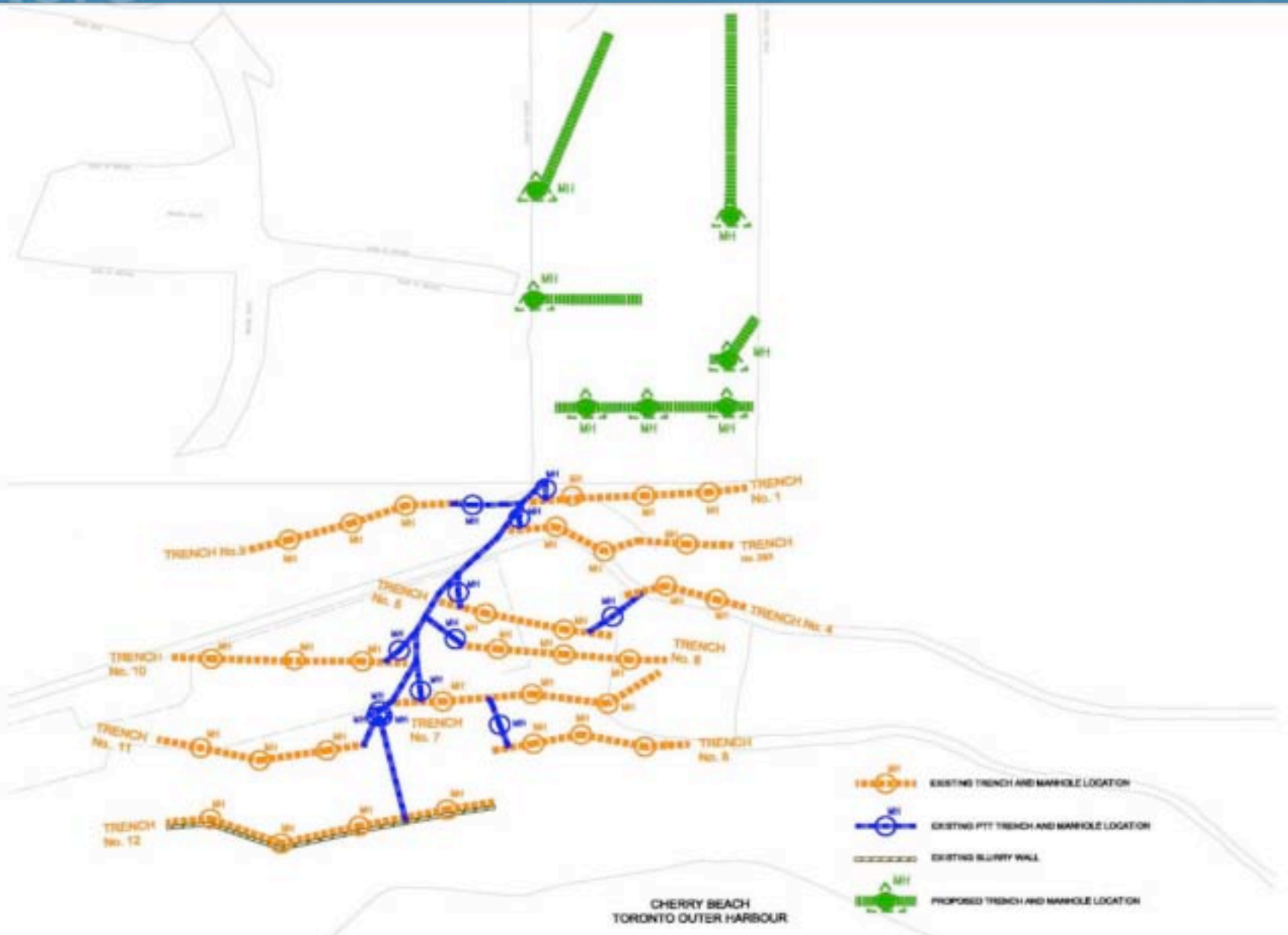
Enhanced LNAPL Recovery



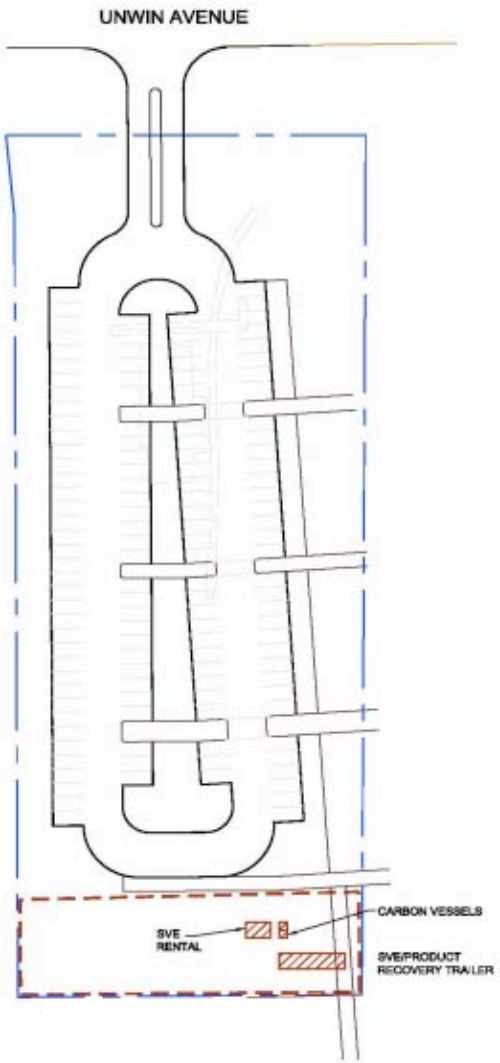
Soil Vapour Extraction



REMEDIATION INSTALLATION



PRODUCT AND SOIL VAPOUR TREATMENT



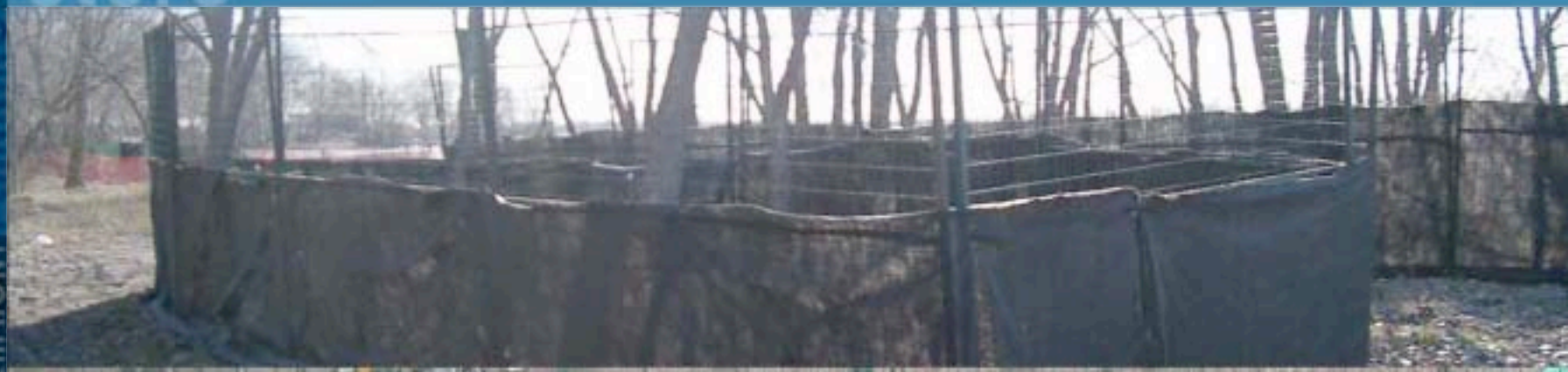
Soil vapours and product collected from trenches and pumped to treatment station on 115 Unwin Avenue

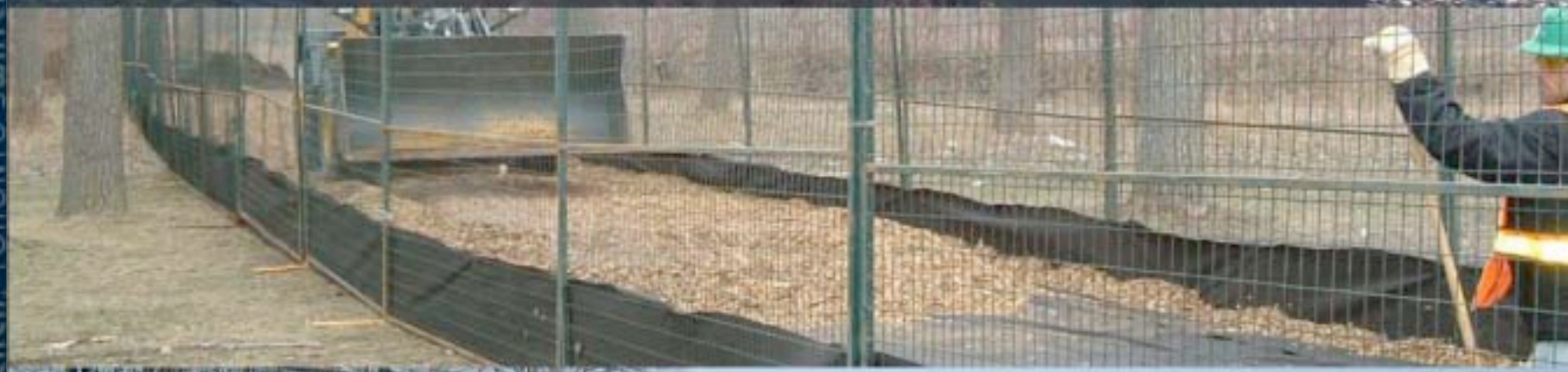
Treatment equipment housed in two containers within a secure, fenced area

REMEDIATION INSTALLATION

PRODUCT REMOVAL INSTALLATION

SITE PREPARATION





SITE RESTORATION

THE RESULT

THE RESULT

THE RESULT

Establish Stakeholder Consultation
& Review Process *(apply consistently)*

Frequently Communication of Key Decisions

Project Documentation through all phases,
with circulation

Political process and media attention
can affect the project

Significant Ministry of the Environment role

Acknowledgements:

Hon Lu, Manager Urban Environmental Services, TEDCO

Jane McGrath, Construction Manager, WaterfronToronto

Kathleen Anderson Brown, Ministry of Environment

Carrie Randall & Eric Bedard, Environment Canada


QUESTIONS & ANSWERS
Remediation Strategies
in
AN URBAN PARK SETTING
CASESTUDY: CHERRY BEACH, TORONTO'S WATERFRONT
EarthTech
a tyco International Ltd. Company