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Draft Agenda
Contaminated Site: Investigation and Remediation Process

For Development of Clean up Strategy by the Environmental Response Program
Lac du Flambeau Tribal Natural Resource Department and EPA Region 5
(April 28, 2015, updated with vapor intrusion concerns Nov 5, 2015)

Site Investigation

Characterize the nature and degree of contamination

Delineate degree and extent (horizontal and vertical, all media)

Identify and Evaluate All Receptors

Conceptual Site Model

Interim Action (can be completed during investigation)

Source Removal and/or Source Soil Removal

Evaluate Complete Site Investigation

Characterize the nature and degree of contamination?

Known

- VOCs Benzene, Ethylbenzene, Toluene, TMBs, Xylenes, 1,1 Dibromoethane, MTBE, n-propylbenzene, others PAHs Naphthalene, others, Cadmium, Lead
- In contact with bedrock
- High concentrations at depth
- Full depth of aquifer (water table - 50-61 feet below grade) contaminated above standards

Unknown

- Plume extends into bedrock?
- Down gradient characterization
- Degree and Extent- soil, gw, lake
- Vapor intrusion – bait shop and hotel
- Effects on Ecosystem
- Effects to Rice Potential
- Methylation of Mercury

Delineate degree and extent (horizontal and vertical, all media)?
Undefined Degree and Extent
Soil- Degree and Extent- suspect source soils remain due to current pre-remedial gw concentrations-
Degree and Extent- undefined
Groundwater- Degree and Extent- undefined
Impacts to Lake – Degree and Extent- undefined
Vapor Intrusion- Undefined

Identify and Evaluate All Receptors?
Groundwater- Private Wells- Some identified and sampled
Groundwater Lake Interaction- not evaluated
Vapor Intrusion- Hotel and Bait Shop
Ecosystem evaluation- not evaluated- incomplete degree and extent
Vapor Intrusion- Hotel and Bait shop

Conceptual Site Model Makes Sense?
No viable conceptual site model presented to date-

Approved Complete Site Investigation

Evaluate Remedial Alternatives

Possible Method: Remedial Alternatives Report

Choose Remedial Alternative

Remedial Action Plan

Implement Remedial Action Plan/ Corrective Actions

Evaluate Remediation

Return Site back to Reuse