High-Resolution Resistivity Surveys

Stacked HRR Slices

Resistivity

Apparent Resistivity (ohm-m)

6 106 206 306 406 506 606 706 806

PNLL / FLUOR
A4 Crib & PUREX Site
Hanford, WA

Date: March 2006  Figure: 1
High-Resolution Resistivity Surveys

Geophysical Test Line Coverage of the PUREX Plant

MAP LEGEND

- Inaccessible areas
- Completed HRR Lines
- Additional HRR Lines

Geophysical Survey

Floor
PUREX Plant
Hanford, WA

Date: Nov 2009

hydroGEOPHYSICS, Inc.
Drilling

Sample Collection Depth

Drill Head

Loading Split Spoon

Geophysical Logging

Drilling

Drill Rig

Sample Collection
Test Pits

U-Pond Test Pits, Direct Pushes, and Boreholes Planned

Preparing Site for Test Pit

Sampling from Excavator Bucket

Excavation

Sample Bowl

Excavating Test Pit

Sample Set
Direct Push

Example Direct Push Sample Strategy

Geoprobe

Pushing with Diesel Hammer

Diesel Hammer Push Technique

Field Measurements at the Geoprobe Head

Geoprobe Sampling

Direct Push Legend

Soil Sample Intervals

Lithology

216-B-55

Lithofacies

Hanford Formation

Source: C3246

NOTE: Soil sample depths are approximate and are for illustration purposes only.

Field Measurements at the Geoprobe Head

Geoprobe Sampling

Pushing with Diesel Hammer

Diesel Hammer Push Technique

Geoprobe

Example Direct Push Sample Strategy

Direct Push

Geoprobe

Pushing with Diesel Hammer

Diesel Hammer Push Technique

Field Measurements at the Geoprobe Head

Geoprobe Sampling

Pushing with Diesel Hammer
Model Groups

Model Group 1: Shallow Sites

Model Group 2: Deep Sites

Model Group 3: Large PU Sites

Model Group 4: Small to Medium PU Sites

Model Group 5: Large Ponds

Model Group 6: Shallow and Deep Sites

Model Group 7: Unique Conceptual Sites

200-MG-1 & 200-MG-2 Feasibility Studies

Supplemental Work Plan