



Remediation of the RVSD Larkspur Landing Property:

Progress Update: Obtaining USEPA Approval for Site Remediation and Closure

(March 16th, 2016)

Introduction

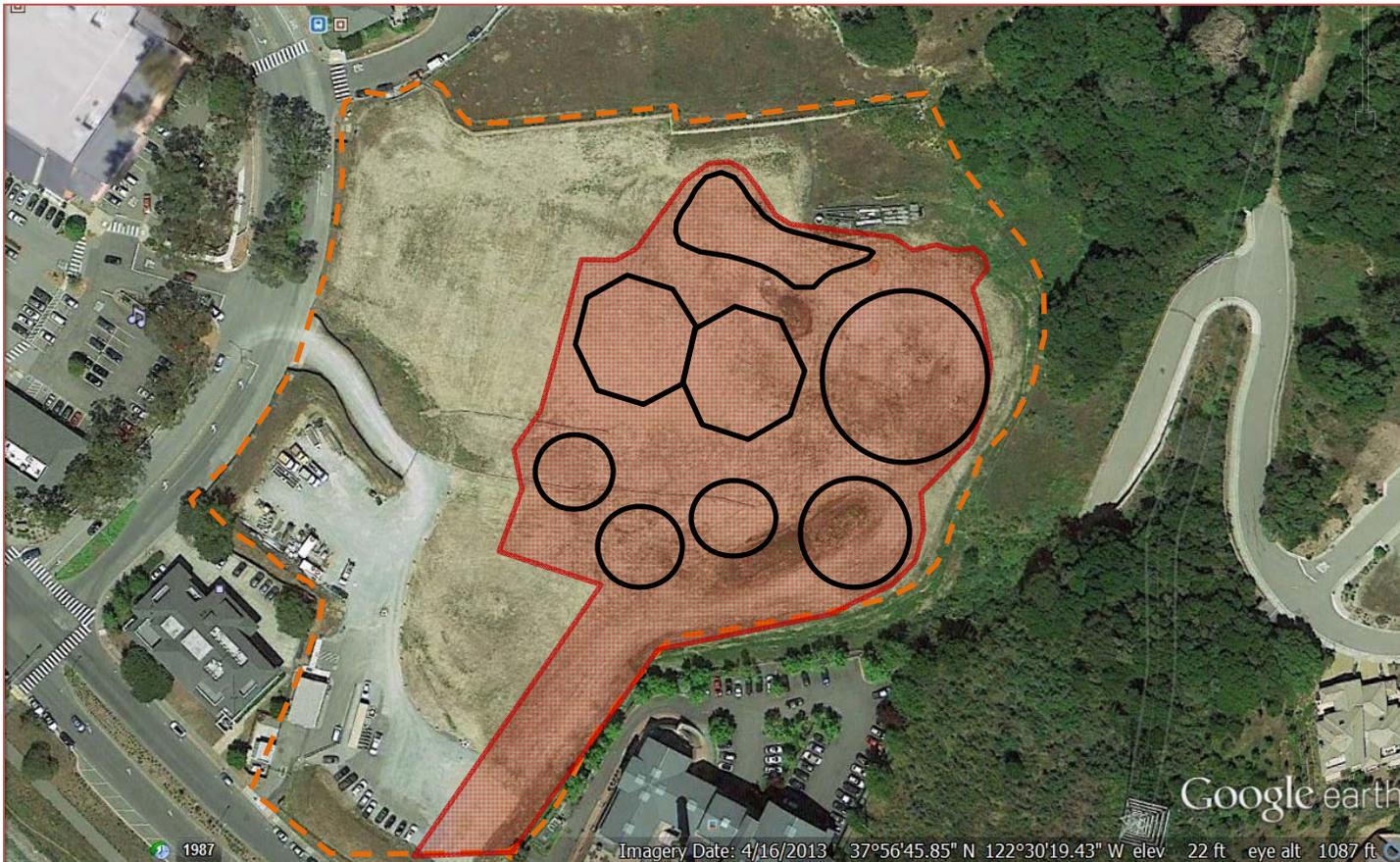
- PCB Impact Summary
- USEPA Meeting Summary
- Path Forward
- Characterization Areas
- Remedial Activities
- Remediation Timeline
- Questions, Answers and Discussions

Site Map



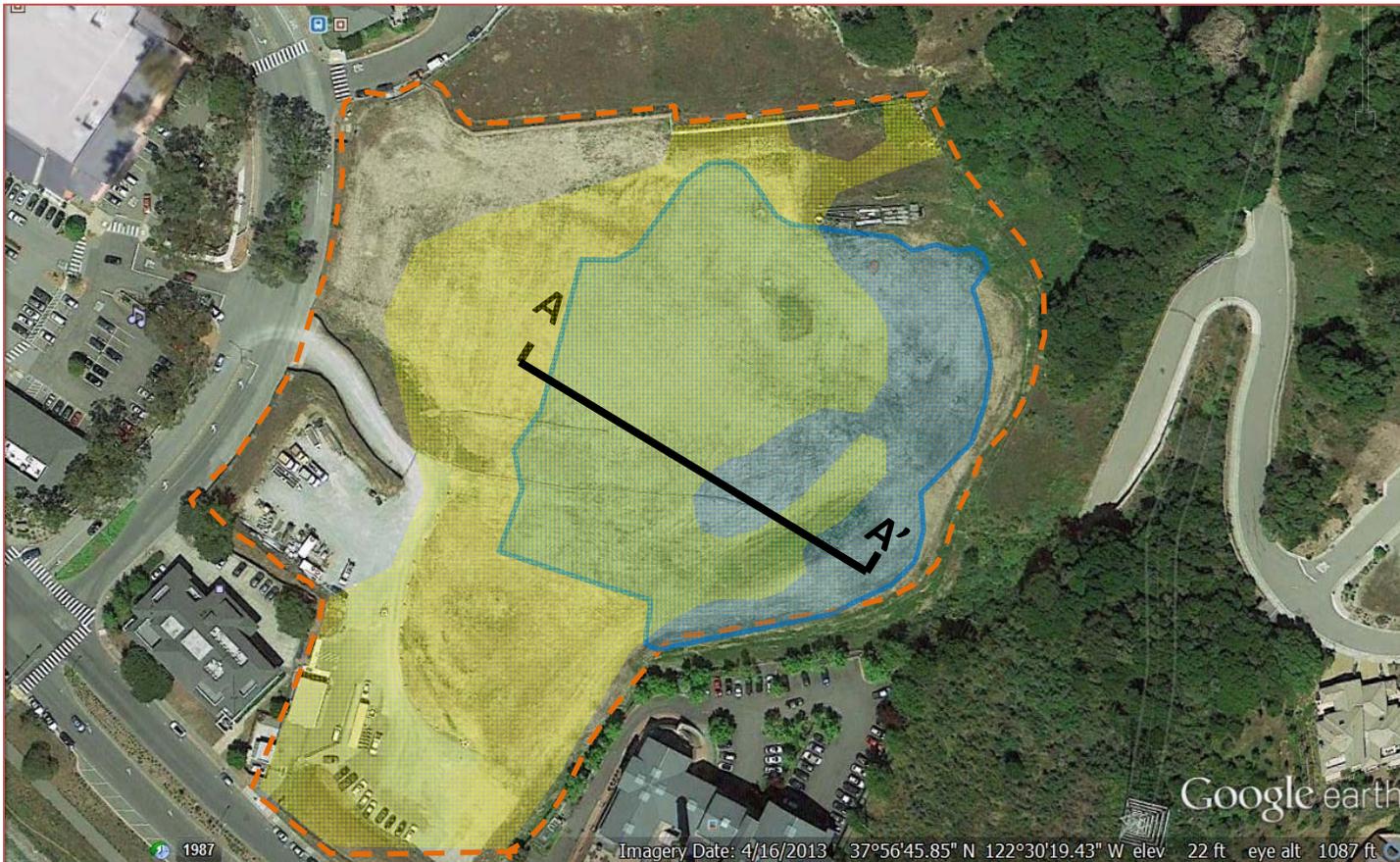
 Site Boundary

WWTP Demolition Limits



-  Site Boundary
-  Limits of WWTP Demolition
-  Location of Demolished Structure (Approximate)

Backfill Limits



Site Boundary



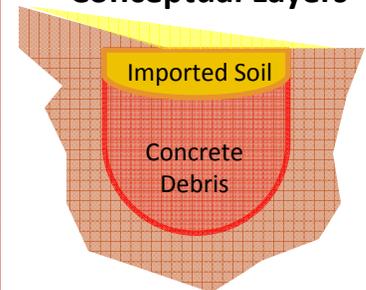
Limits of Construction Backfill

(Initial Imported Soil & crushed concrete)

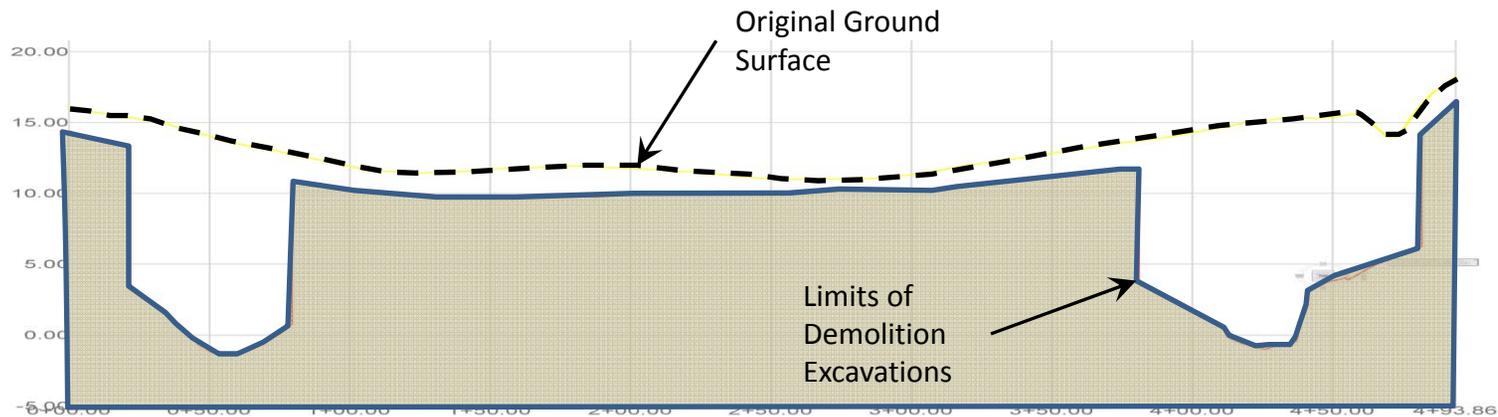


2012 Regraded Area

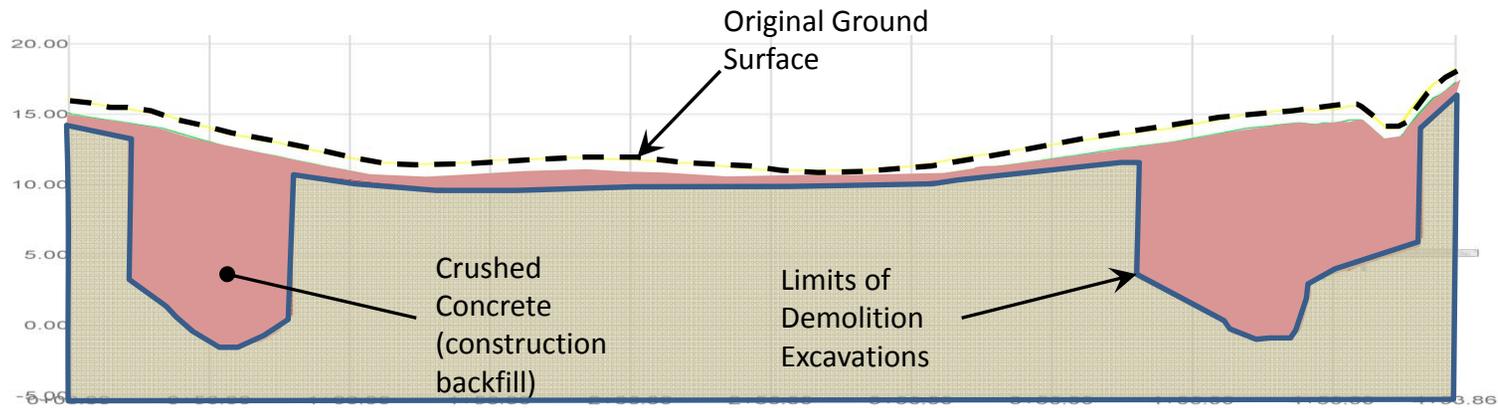
Conceptual Layers



Representative Cross Sections



Representative Cross Sections

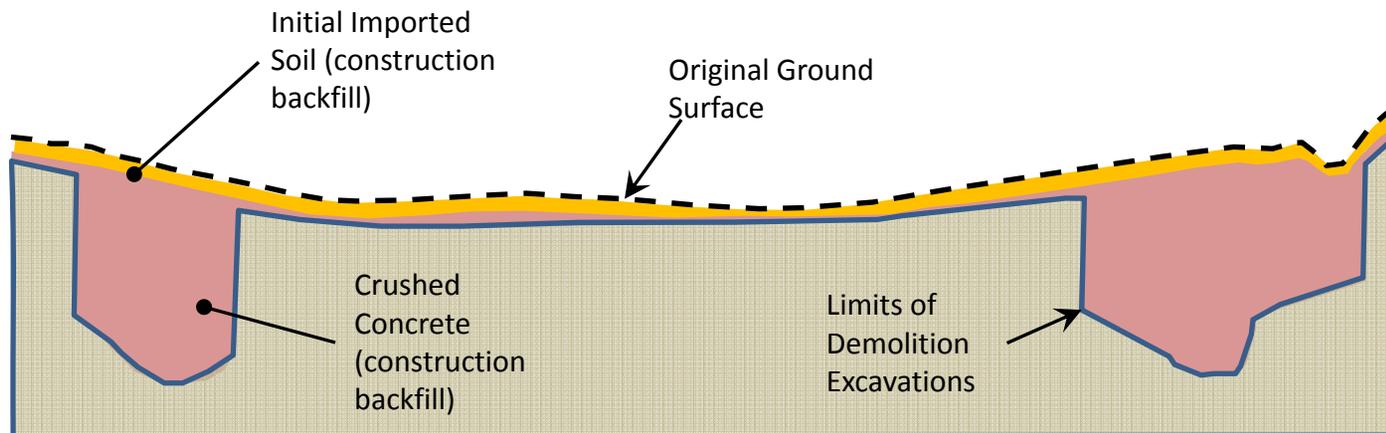


Slide 7

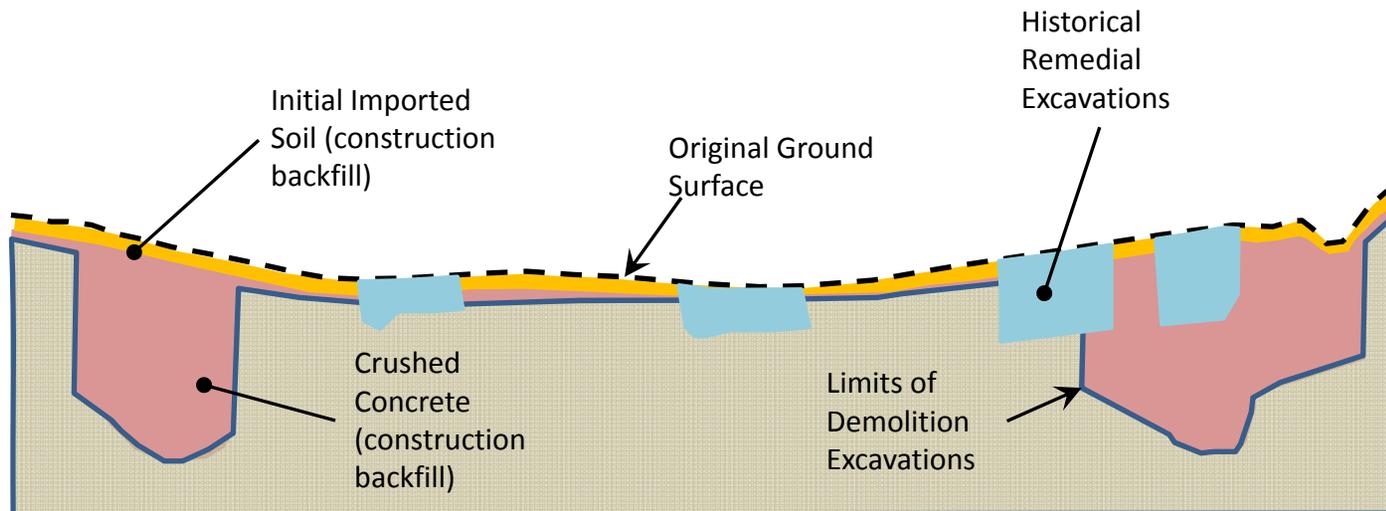
GN10

Greg Norby, 3/10/2016

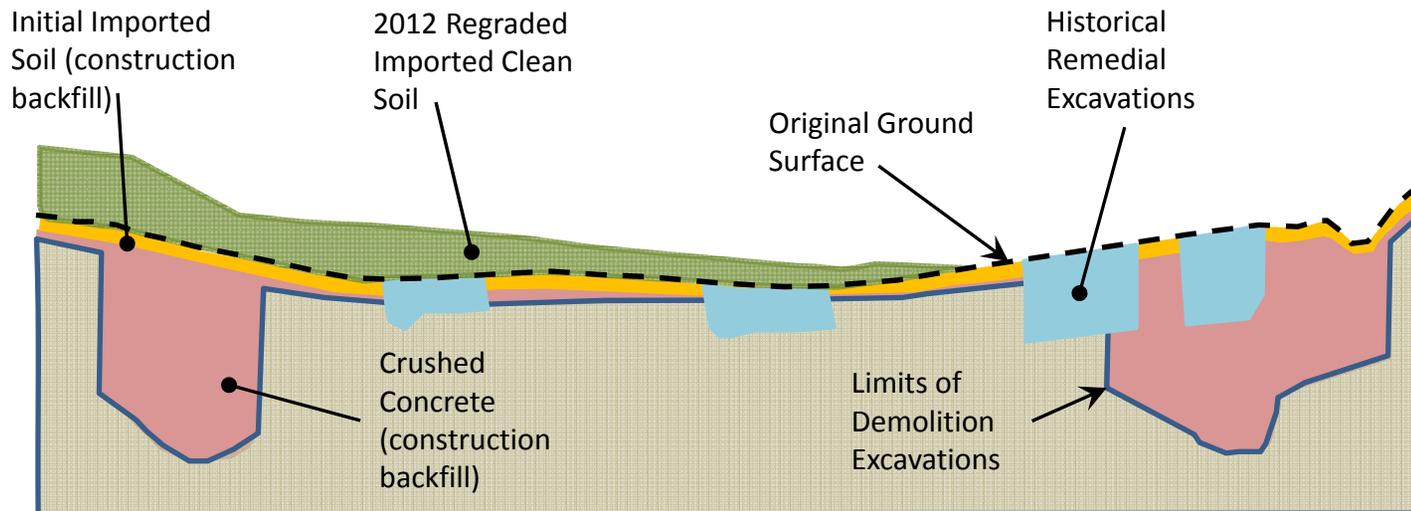
Representative Cross Sections



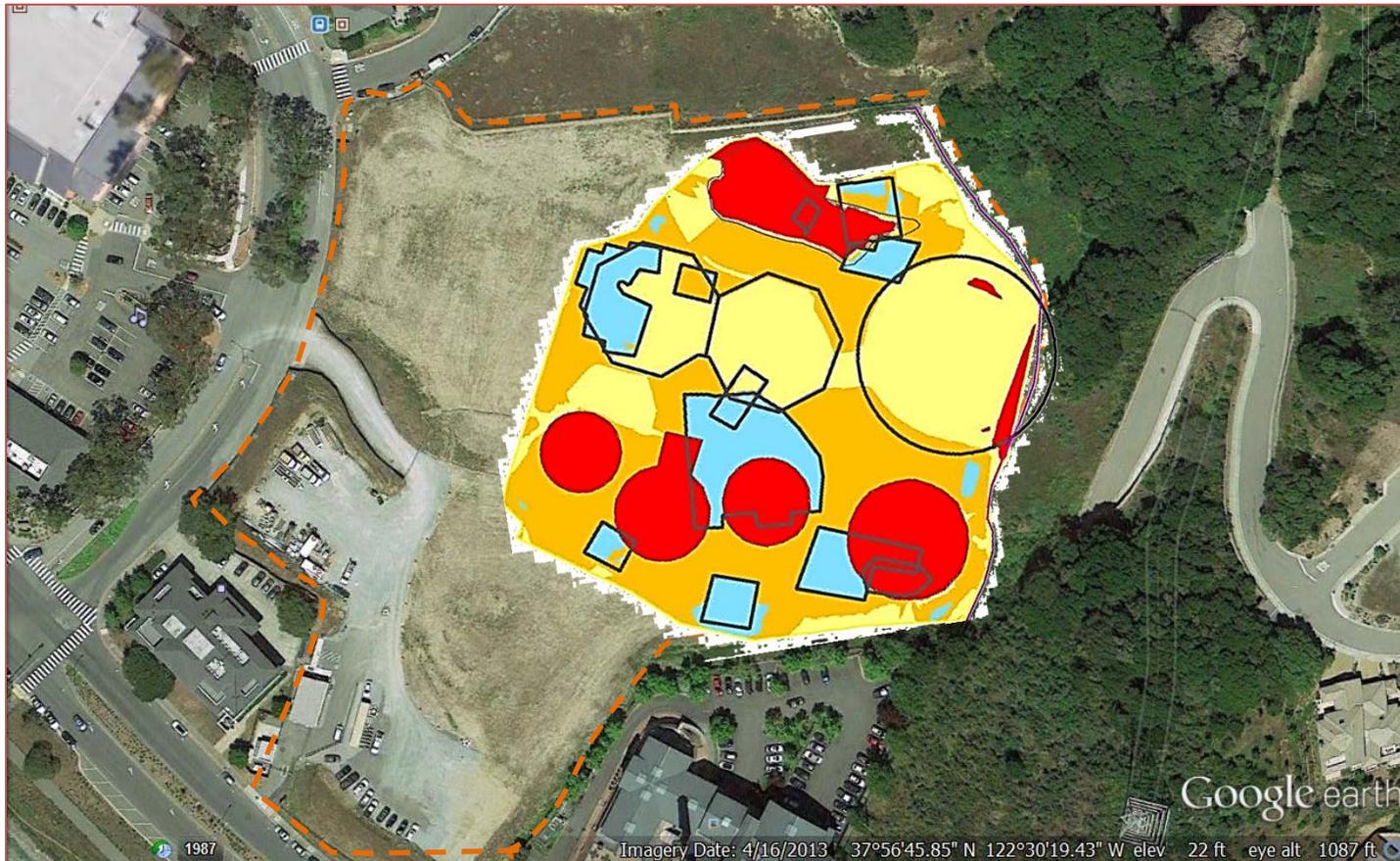
Representative Cross Sections



Representative Cross Sections



Impacted Areas



-  Site Boundary
-  Historical Remedial Excavations
-  Construction Backfill 0-2 ft
-  Construction Backfill 2-4 ft
-  Construction Backfill 4-20 ft

USEPA Meeting Summary

- Proposed self-directed remediation option to USEPA:
 - Known remediation endpoint
 - Less discretionary input from USEPA
- USEPA strongly suggests risk-based remediation approach:
 - Can still use known remediation endpoint (0.24 mg/kg)
 - Provides for flexibility in approach and remedial activities

Path Forward

- Identify areas requiring further characterization.
- Prepare Characterization/Remediation Work Plan and obtain USEPA approval.
- Use approved work plan to prepare contractor bid package.
- Characterize Site to address data gaps.
- Implement the remediation project.
- Report results to USEPA for closure approval.

Characterization Areas



-  Site Boundary
-  Limits of Construction Backfill
-  Sidewalk Area
-  Drainage Swale

Remedial Activities

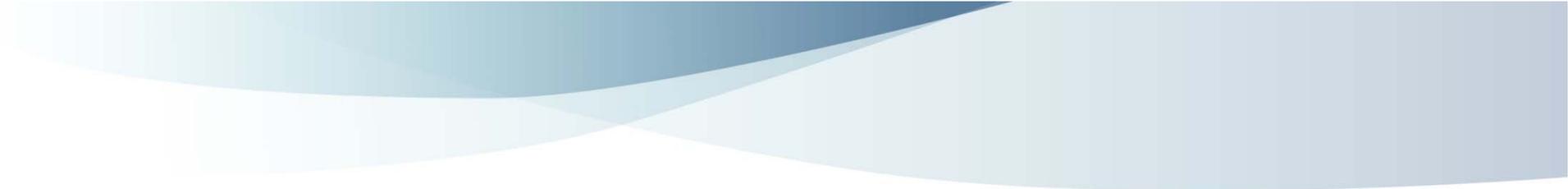
- Investigation to characterize materials:
 - Sidewalk area
 - Drainage swale
 - Construction backfill area
- Excavate clean surface materials and stockpile on-site.
- Excavate PCB-impacted soils and dispose:
 - Excavate materials in 1-foot lifts
 - Characterize each lift and dispose
 - Collect confirmation soil samples

Remedial Activities (cont'd)

- Collect confirmation samples.
- Backfill with clean imported material and regrade.
- Obtain no further action determination from USEPA.
- Site is now ready for unrestricted use.

Remediation Timeline

- Work Plan Preparation: 2 months
- USEPA Review/Approve Work Plan: 3 to 4 months
- Contractor Team selection, contract: 2 to 4 months.
- Remediation Work on Site: 3 to 6 months
- Prepare Closure Report: 2 to 3 months
- USEPA Approve Closure Report, Issue NFA: 3 to 6 months
- Overall timeline of 18 to 24 months, with consistent effort.



QUESTIONS, ANSWERS,
DISCUSSION....