

# Remediation of the RVSD Property at 2000 Larkspur Landing Circle:

## Overview of Remediation Work Plan and Issuance of RFP for Site Characterization

(August 17<sup>th</sup> 2016)

# Introduction

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- Overview of Past Actions
- Site Conceptual Model Review
- EPA Consultations
- Site Characterization and Remediation Sequence
- Schedule for Completion
- Q&A, Discussion

# Overview of Recent Actions

- July 2015: Board approved remediation objective of unrestricted future land use.
- March 2016: Board direction to draft remediation work plan in consultation with EPA Region 9
- March-July 2016: EPA consultations on alternatives for remediation approach.
- Shift to Risk-Based Remediation Basis
- Development of EPA-Approved Work Plan

# Site Conceptual Model Review- WWTP Demolition Limits



 Site Boundary

 Limits of WWTP Demolition

 Location of Demolished Structure (Approximate)

# Site Conceptual Model Review Backfill Limits

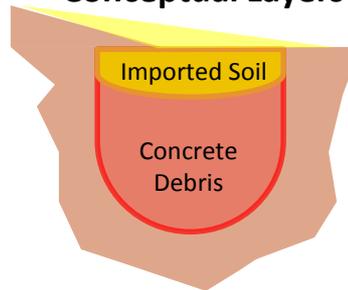


 Site Boundary

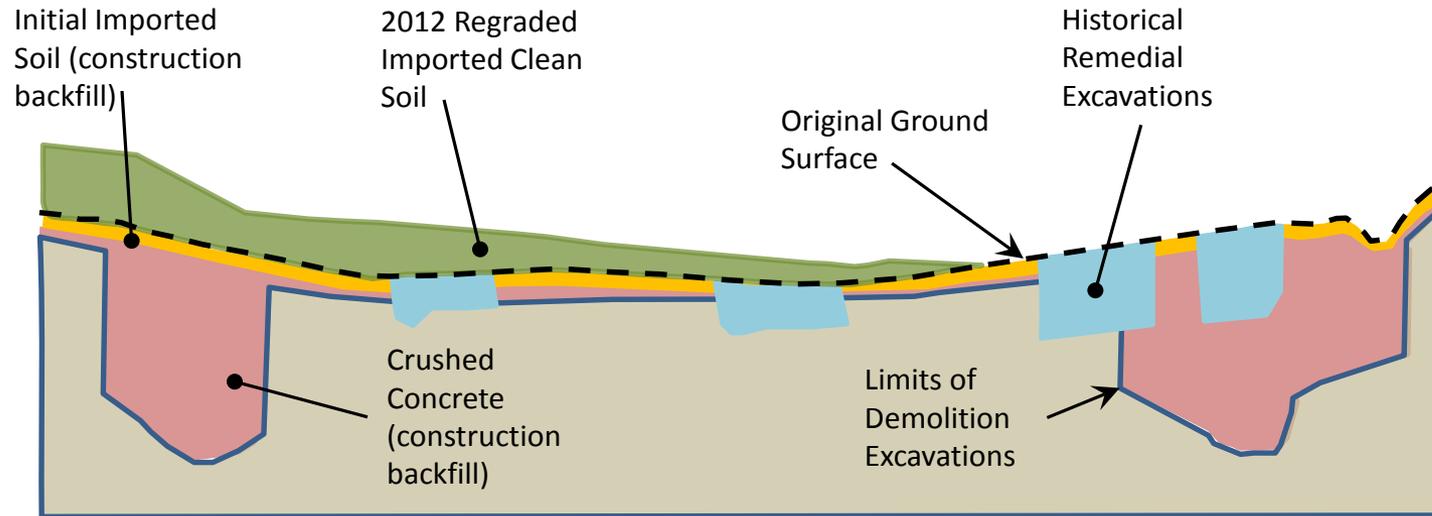
 Limits of Construction Backfill  
(Initial Imported Soil & crushed concrete)

 2012 Regraded Area

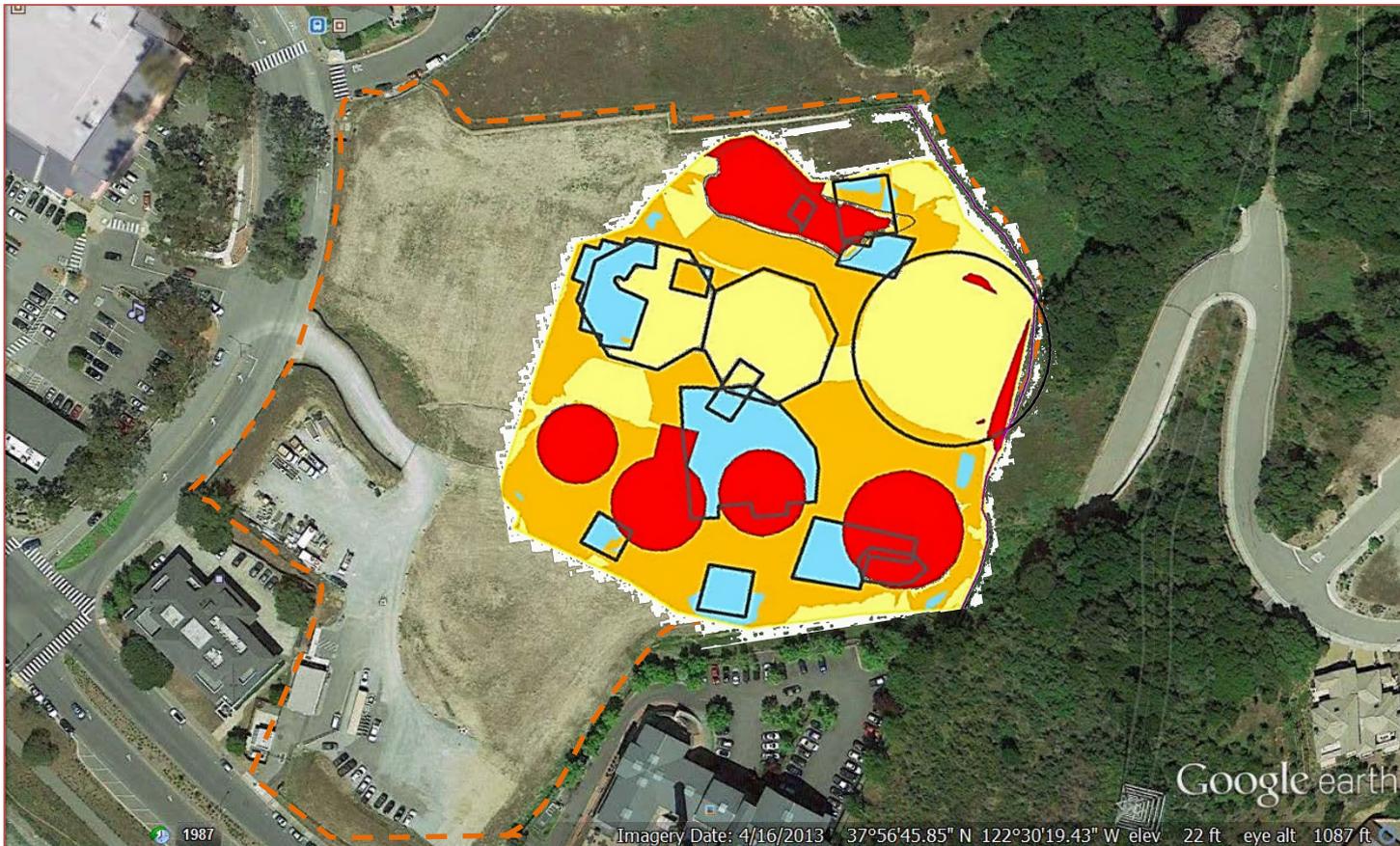
## Conceptual Layers



# Site Conceptual Model Review Representative Cross Sections



# Site Conceptual Model: Impacted Areas



Site Boundary

Historical Remedial Excavations

Construction Backfill 0-2 ft

Construction Backfill 2-4 ft

Construction Backfill 4-20 ft

# Site Characterization Areas



 Site Boundary

 Limits of Construction Backfill

 Sidewalk Area

 Drainage Swale

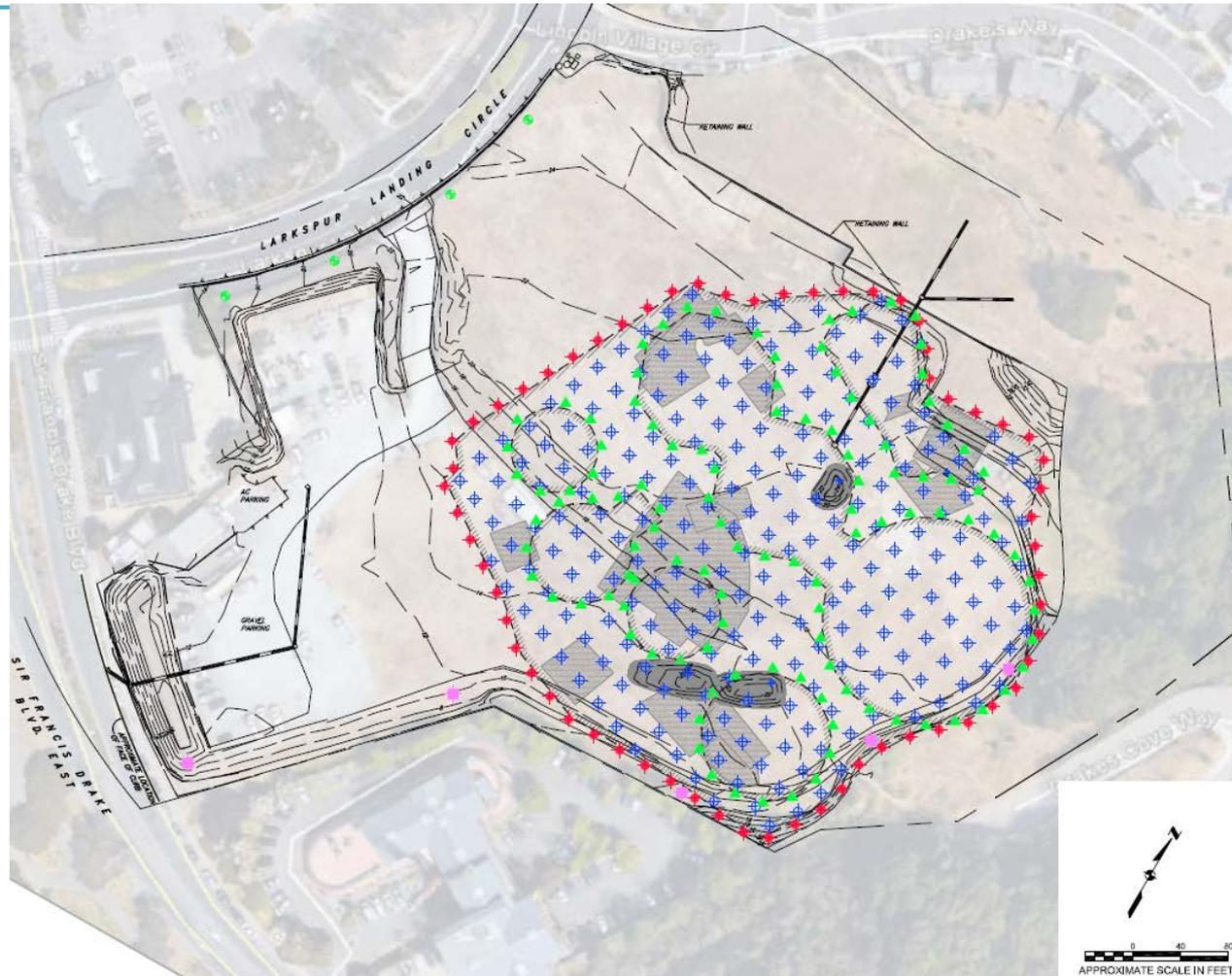
# EPA Consultation

- Consultations from March through July 2016
- Refined approach to “risk based” remediation.
- Considered four primary options for sequence of characterization and remediation work.
- EPA and RVSD technical team concurrence on recommended sequence for characterization, remediation, confirmation sampling.
- EPA will review final remediation work plan in late 2016, based on characterization results.

# Overview of Remedial Activities

- Investigation to characterize materials.
- Excavate clean surface materials and stockpile on-site.
- Excavate PCB-impacted soils and dispose
- Collect confirmation samples.
- Backfill with clean imported material and regrade.
- Obtain “no further action” determination from USEPA.

# Characterization Sample Grid



## LEGEND

- ◆ Grid Boring Location  
(Graded Surface, Near Surface, Demolition Backfill, Pre-confirmation Depth Samples)  
25' x 25' Grid  
Approximately 250 Locations
- ★ Perimeter Boring Location  
(Pre-confirmation Perimeter Samples)  
25-ft Spacing  
Approximately 60 Locations
- ▲ Internal Perimeter Locations  
(Pre-confirmation Interior Samples)  
25-ft Spacing  
Approximately 100 Locations
- ★ Drainage Swale Sediment Samples (5 Locations)
- Sidewalk Samples (4 Locations)

▨ Limits of Previous Demolition Excavation

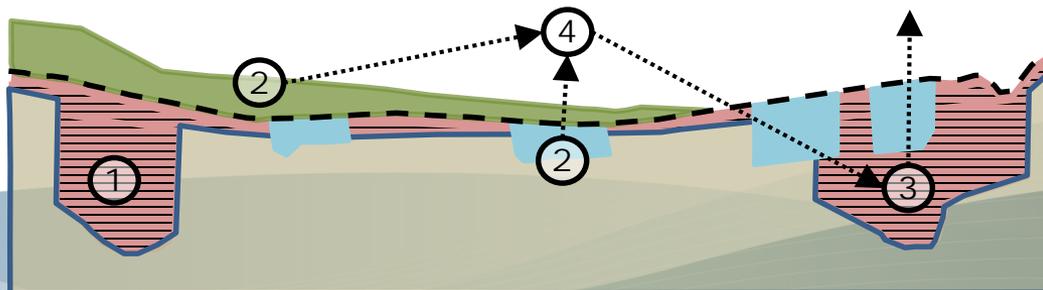
▨ Limits of Previous Remedial Excavation

● Stockpile

# Characterization and Remediation Sequence



-  Site Boundary
-  Clean Stockpile Area
-  Loading and Off Haul Operation
-  Excavation Area with Sampling Grid
-  ① Sampling to Pre-Characterize Waste and Pre-Confirm Limits
-  ② Excavate and Stockpile Clean Fill
-  ③ Excavate, Direct Load, and Off Haul Soil and Debris
-  ④ Restoration Backfill with Stockpiled Clean Fill and Import



# Project Schedule

- June 2016: Draft Work Plan Submitted
- July 2016: USEPA Comments Received
- August 2016: Final Work Plan Submitted
- Sep-Dec 2016: Characterization Field Work
- Jan-Feb 2017: Draft Cleanup Plan Submitted
- March 2017: USEPA Cleanup Plan Approval
- Apr-Sep 2017: Remediation Work Complete
- Dec 2017: Parcel clear for unrestricted future land use.



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QUESTIONS, ANSWERS,  
DISCUSSION....