

# Effective Planning, Communication, and Stakeholder Collaboration during the Execution of a Complex Remedial Design



**Presented by Amy Callaway, PG, PMP – Black & Veatch**

With Support From:

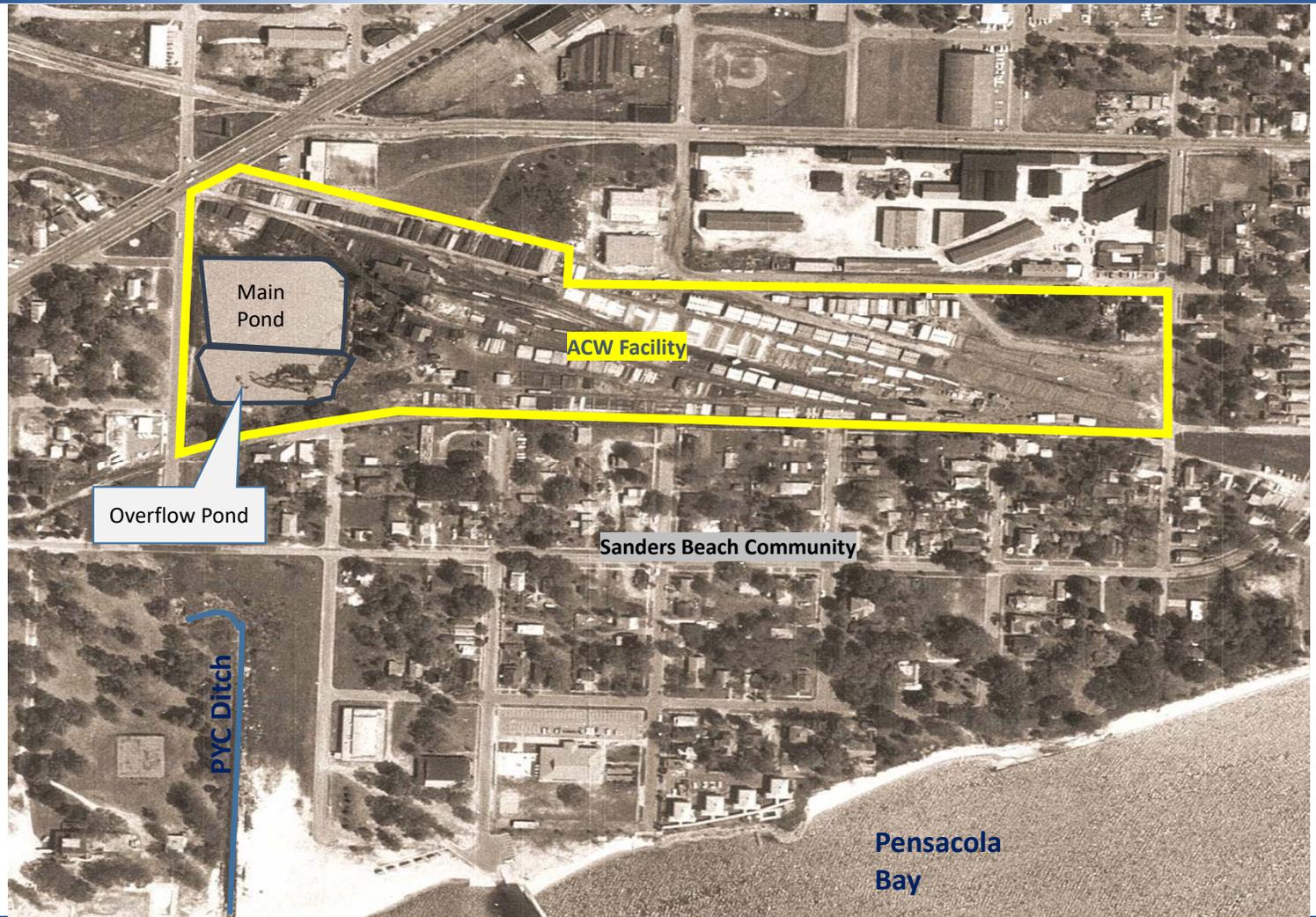
Peter Thorpe, USEPA Region 4

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March 29, 31 and April 1, 2021

AMERICAN  
CREOSOTE  
WORKS  
SUPERFUND SITE  
PENSACOLA, FLORIDA



**1902-1981 – Wood-preserving operations were conducted at the ACW Facility**

1983 – Site placed on the NPL

1985 – ROD signed – On-facility containment Cell

**1994 – OU2 ROD –NAPL extraction**

1998 – Construction completion of the NAPL Recovery system

1999 – Soil Removal Actions / OU1 ROD - Construction of low-permeability cap over the stabilized surface impoundments

2009 – Black & Veatch issued Task Order for OU3 – off-facility dioxin and PAH contamination

**2011 - NAPL Recovery system terminated**

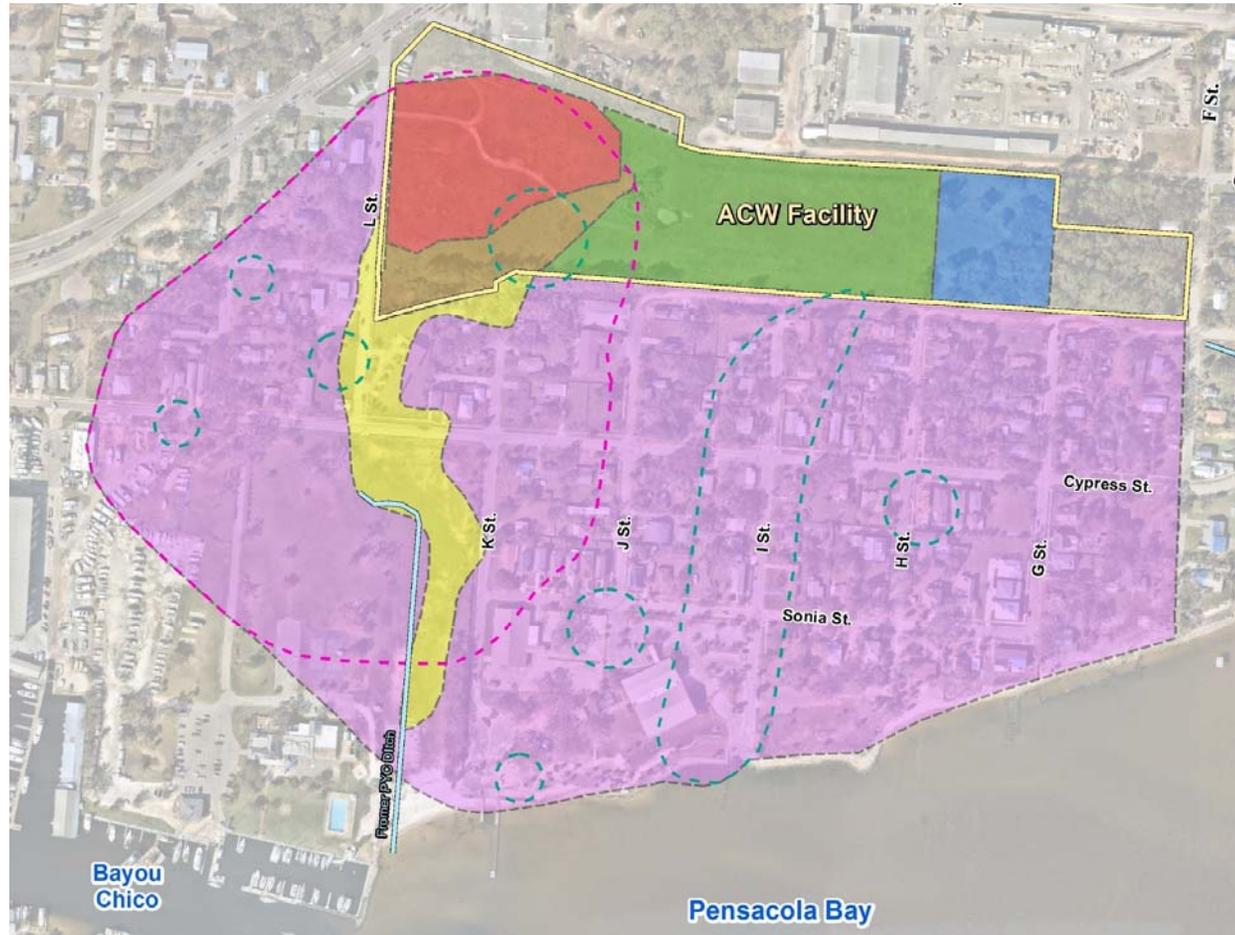
**2016 – Site-wide ROD signed**

# Identify Stakeholders

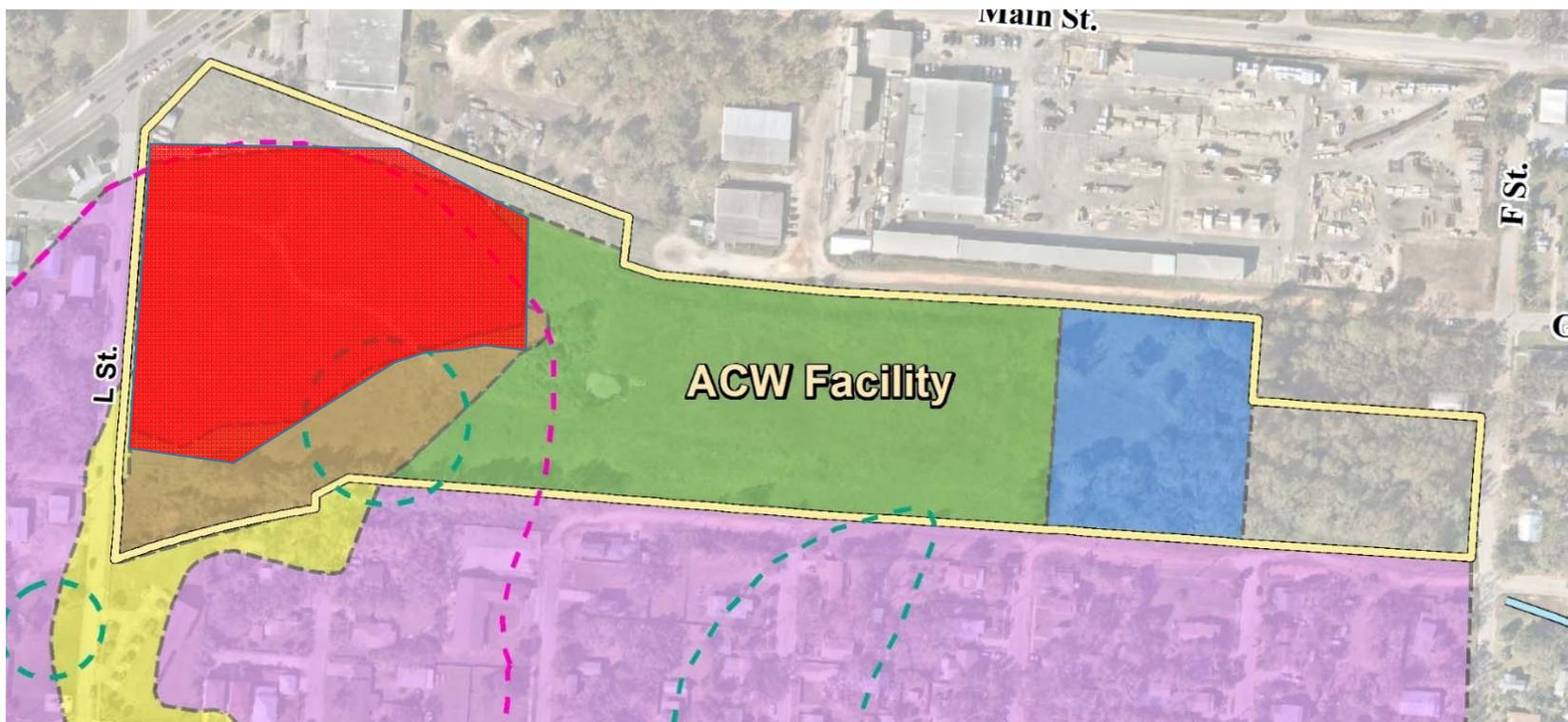
- ❖ Sanders Beach Community (surrounding residential community)
- ❖ Pensacola Yacht Club
- ❖ City of Pensacola
- ❖ Escambia County
- ❖ Florida Dept. of Environmental Protection (FDEP)
- ❖ Environmental Project Agency

## Contaminated Media Zones

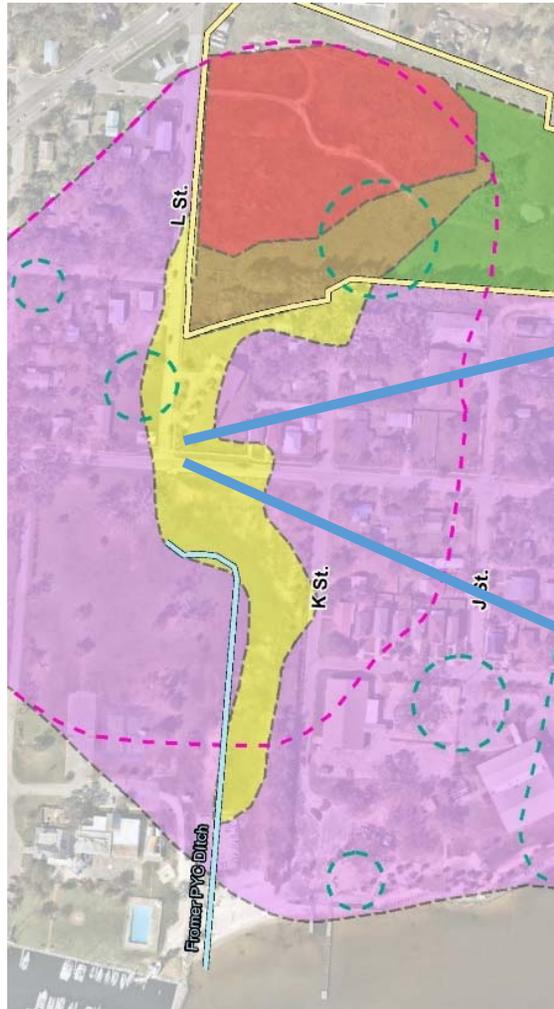
Areas that have common characteristics which effect the remedial alternative selection.



## CMZ-1 : Main Source Area/ Barrier Wall with Cap

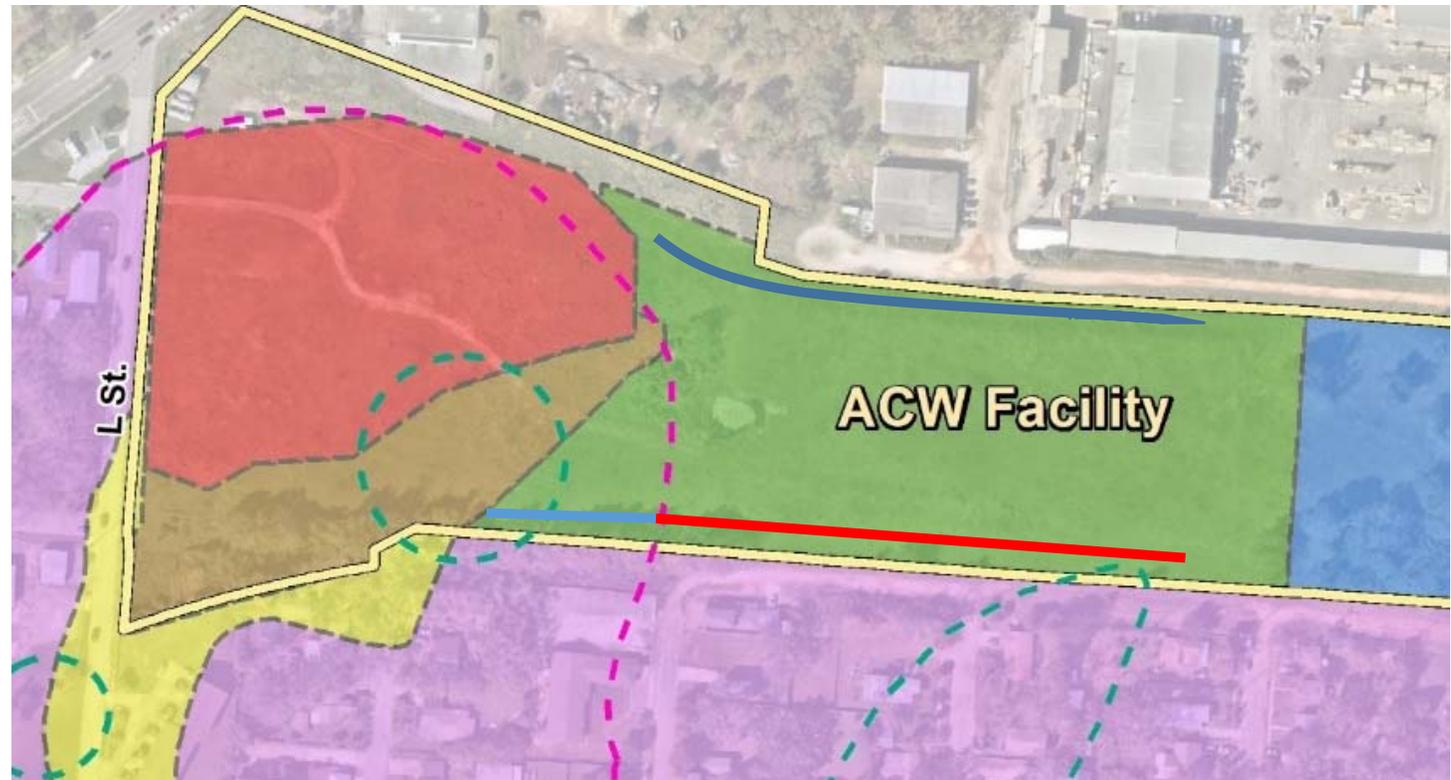


**CMZ-2 :  
Extended NAPL  
PLUME / Steam  
Enhanced  
Extraction**



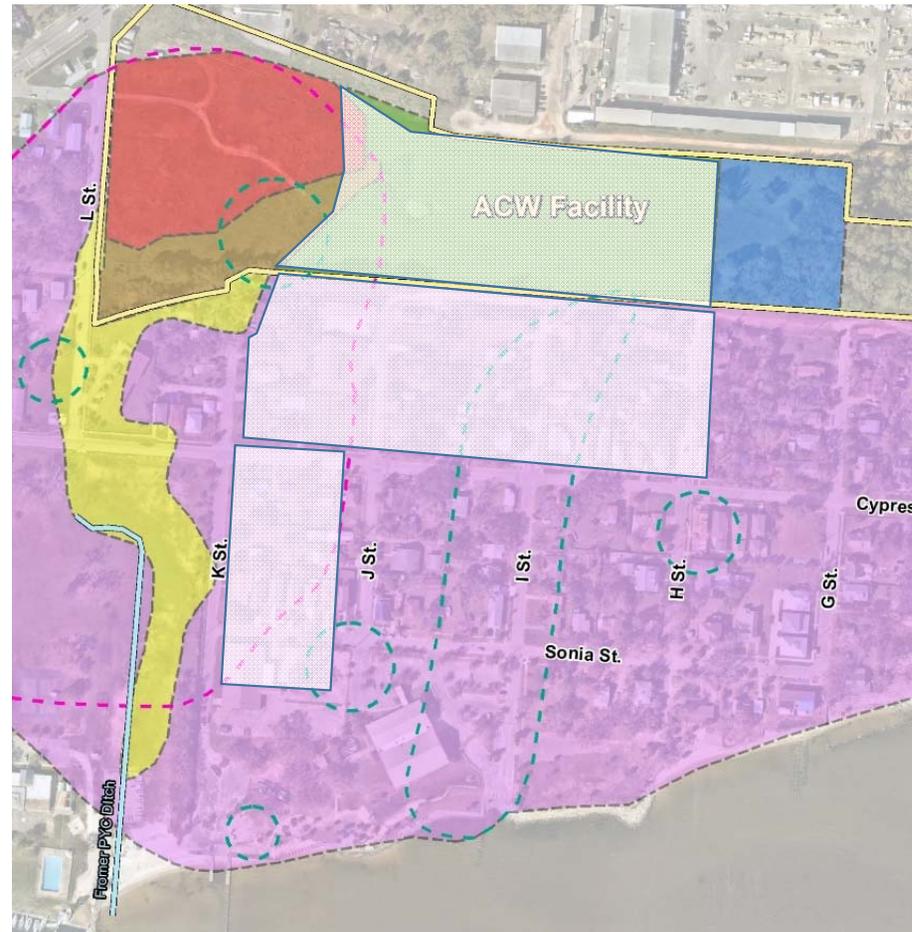
## CMZ-3 : Secondary Source Zone / ISCO/ISEB Barriers

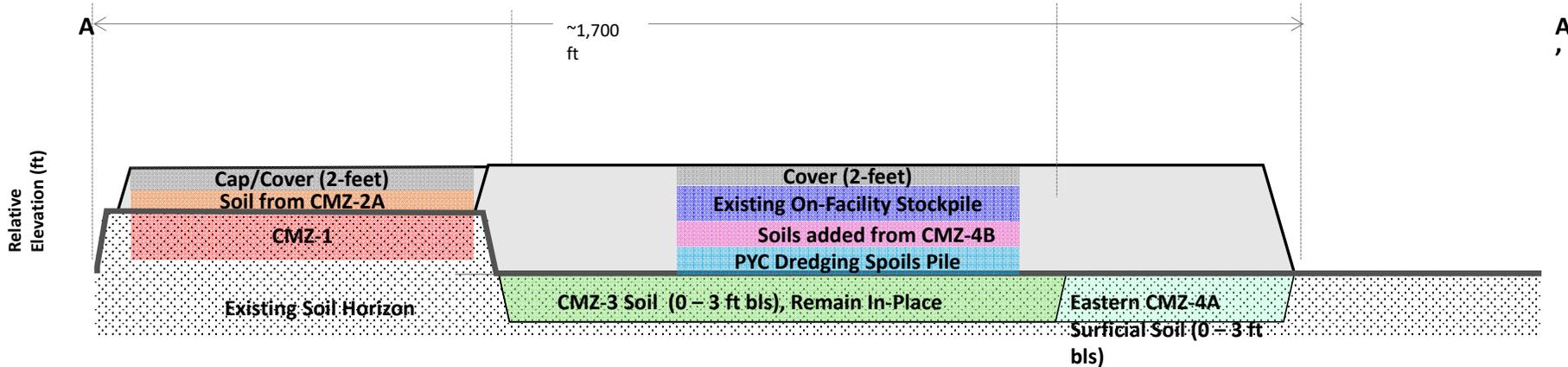
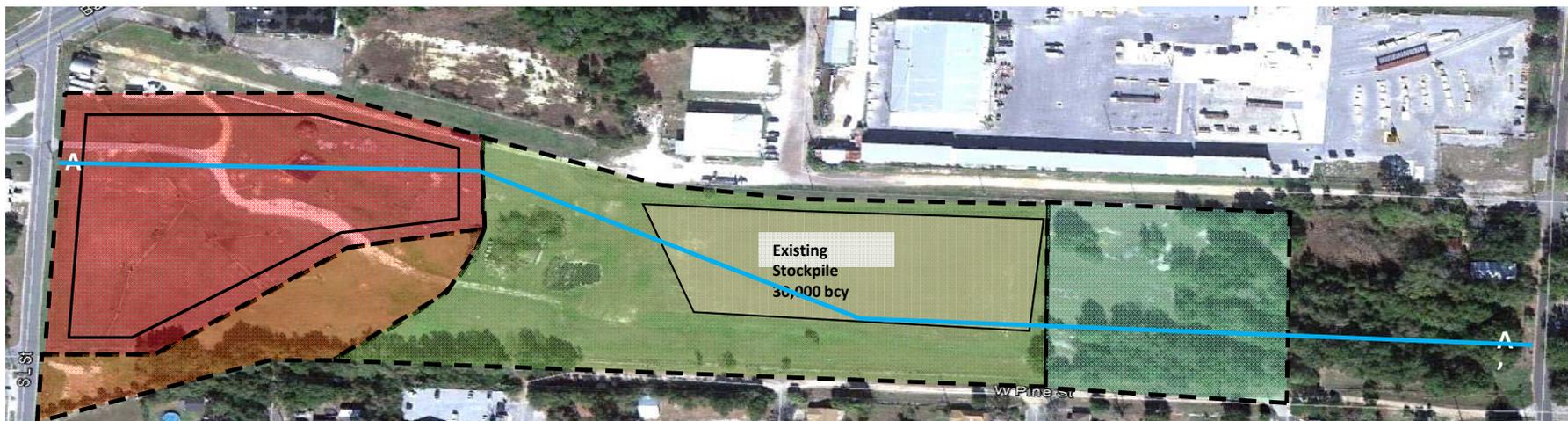
Adsorbed and dissolved phase creosote and PCP contamination



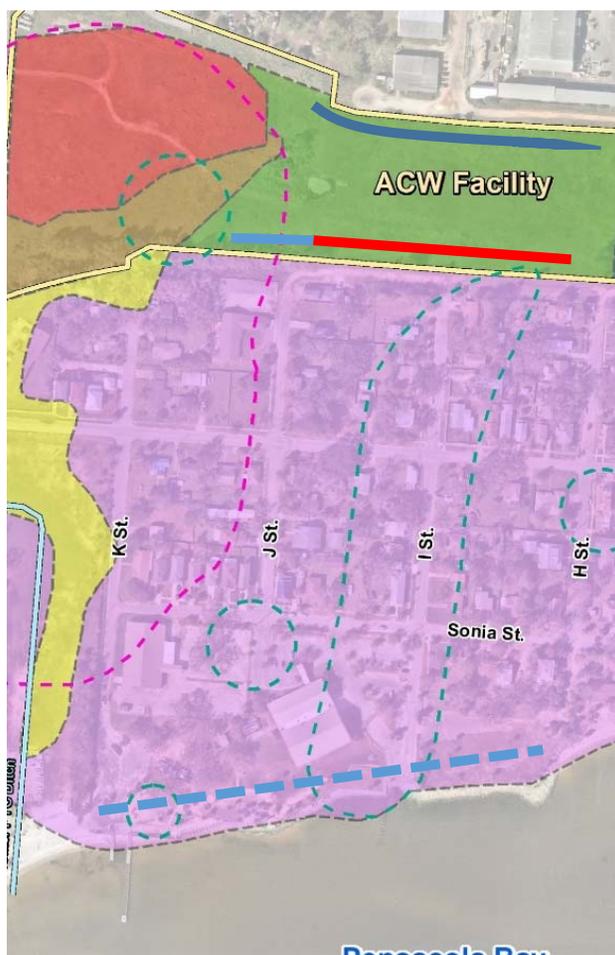
## CMZ – 4 : Surface Soil Contamination / Excavation

Dioxin  
concentrations  
exceed Land  
Disposal Restriction  
are considered  
Principal Threat  
Waste





## CMZ – 5 : Groundwater Plume / ISEB Barrier

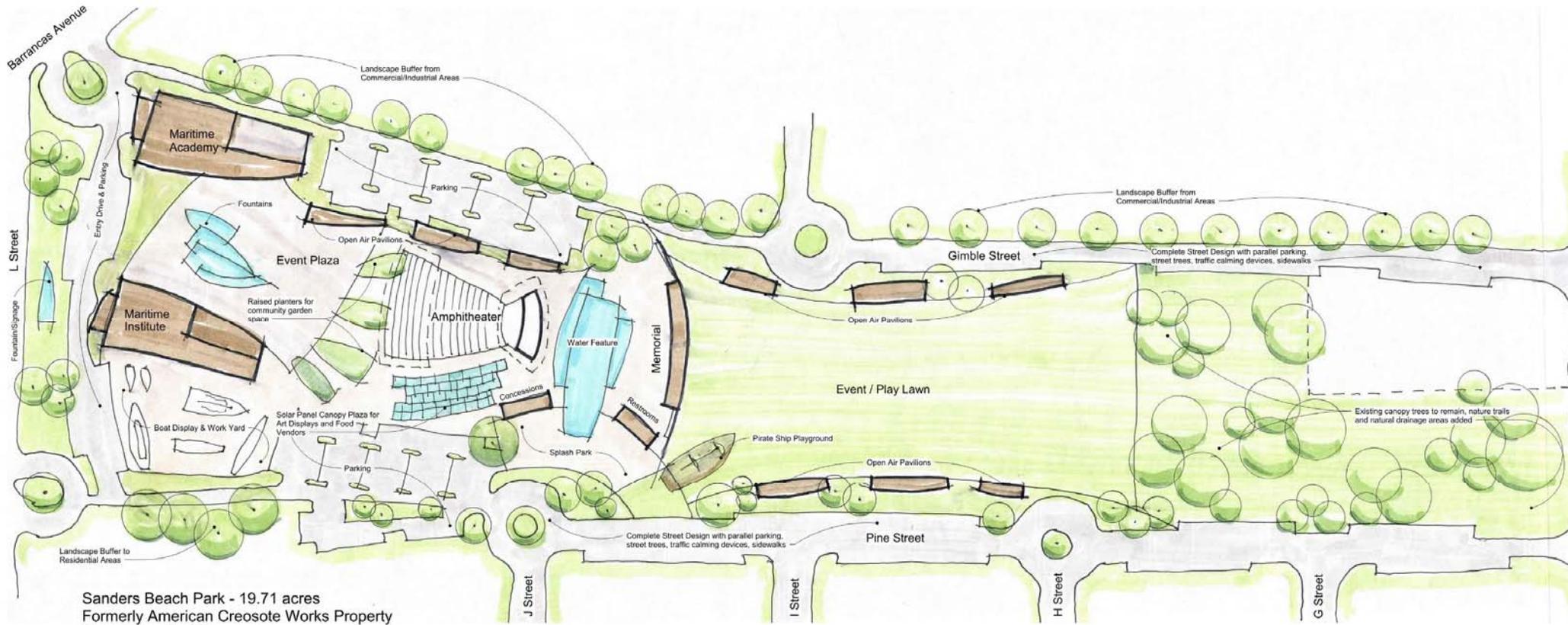


## Projected Remedial Sequencing

RA Schedule Sequence	Why?
Off-Facility Soil Excavation and Onsite Consolidation	Protect against direct contact threat to the surrounding community (Sanders Beach)
Steam Enhanced Extraction	Effect on Barrier Wall; remove second largest mass of NAPL off site
On-Facility Surface Soil Excavation, ECC Construction	Eliminate Principal Threat Waste
Barrier Wall w/ Cap Construction	Containment of Source Area (largest mass of NAPL)
ISCO/ISEB Biobarriers Construction / Operation	Protection of Bay

# Projected Remedial Phasing

Part 1 	Barrier Wall with Cap and Offsite Residential Surface Soil Excavation
Part 2 	Steam Enhanced Extraction
Part 3 	ISCO/ ISEB Barriers



Sanders Beach Park - 19.71 acres  
Formerly American Creosote Works Property  
Pensacola, Florida



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# Stakeholder Engagement Activities

- Assisted EPA with Property Access within Sanders Beach Community
- Meetings with EPA and FDEP throughout FS / Remedy Selection Process
- Assisted EPA with Proposed Plan and Record of Decision
- Meetings with City officials to determine Site Reuse Plans throughout Remedial Design Process

