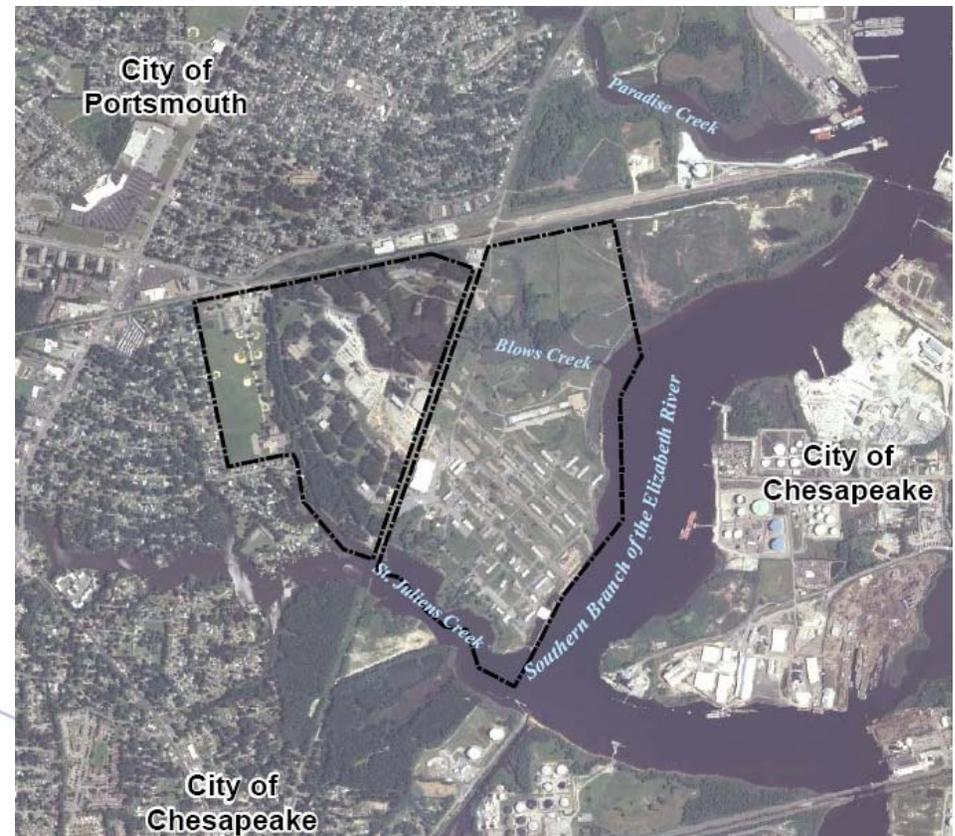


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RESTORATION ADVISORY BOARD SLIDES "FISCAL YEAR 2014 GOALS AND SCHEDULE"  
ST JULIENS CREEK ANNEX VA  
11/13/2013  
CH2M HILL

# Fiscal Year 2014 Goals and Schedule

St. Juliens Creek Annex  
RAB Meeting  
November 13, 2013

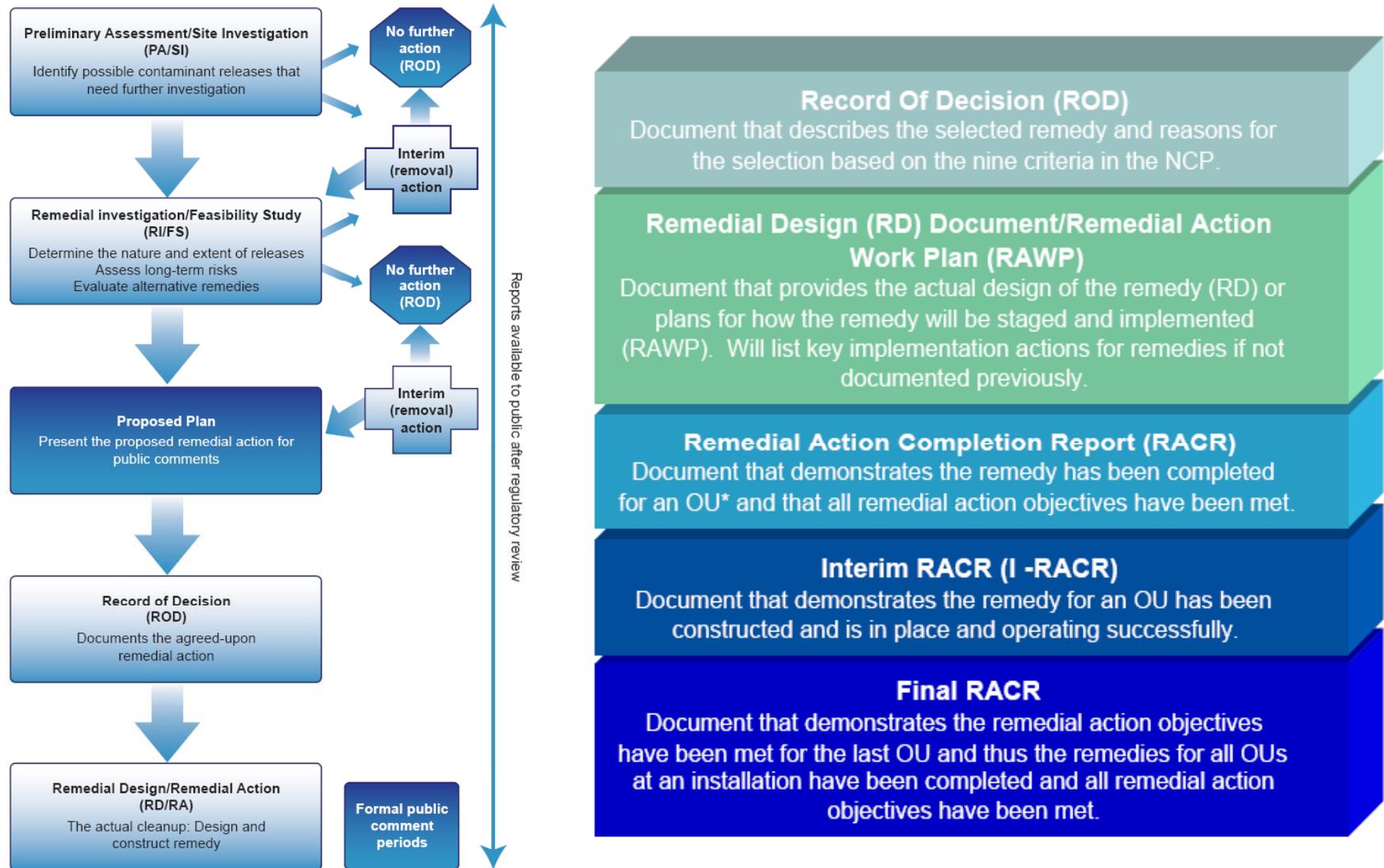


# Purpose



- Provide an overview of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process
- Provide an update of the Environmental Restoration Program (ERP) sites and Fiscal Year (FY) 2014 Goals
- Highlight FY 2013 Successes
- Solicit questions or comments

# CERCLA Process



# St. Juliens Creek Annex Goals



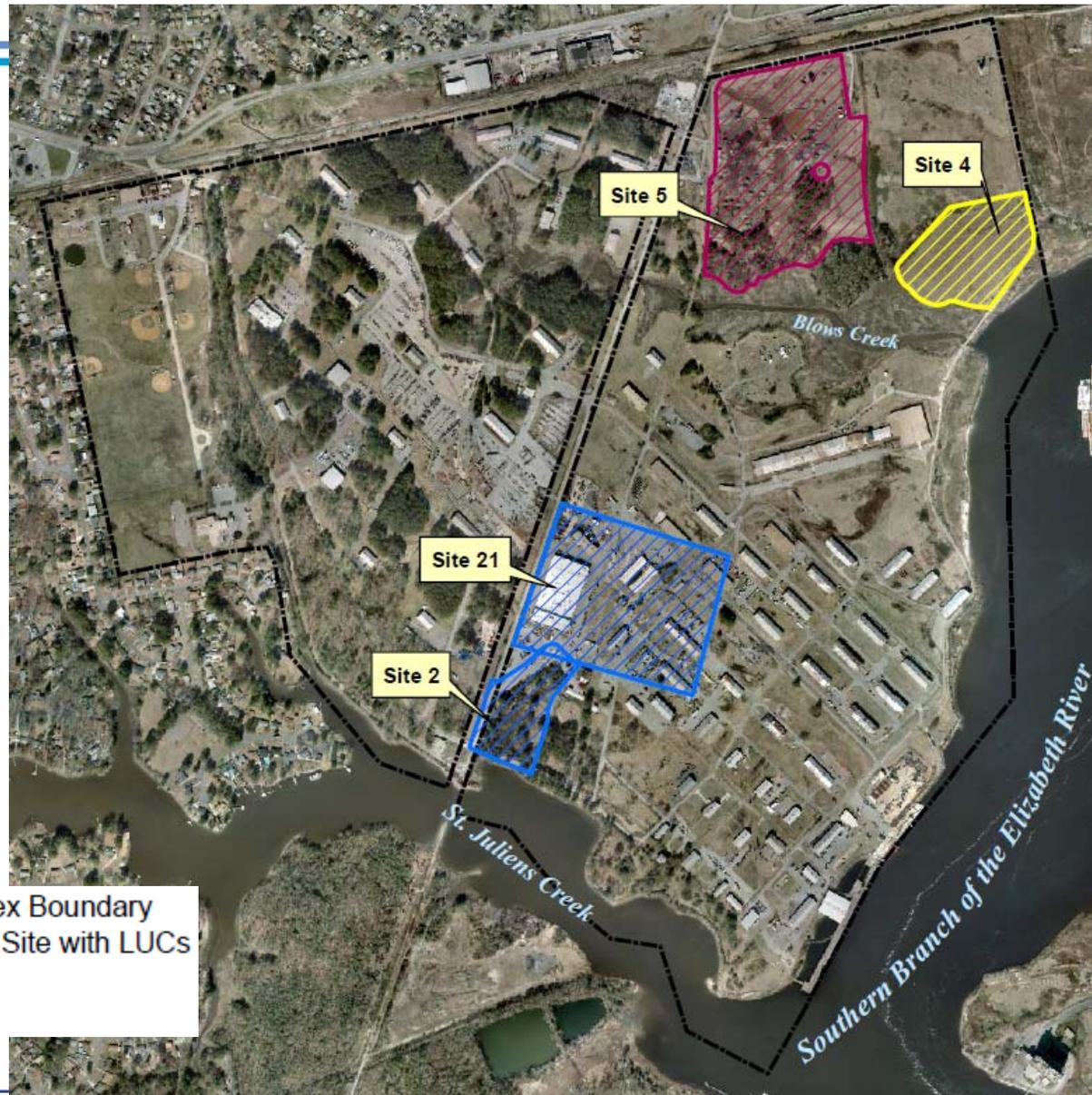
- Established yearly by FY
  - FY 2014 began October 1, 2013 and ends September 30, 2014
- Serve as a budgeting tool for allocating funding
- Prioritize sites to be investigated and remediated based on potential risk to human health and the environment
- Keep remediation projects on schedule

# 55 No Further Action ERP Sites!



 St. Juliens Creek Annex Boundary  
 Response Complete - No Further Action Site

# 4 IRP Sites Currently Active



- St. Juliens Creek Annex Boundary
- Response Complete - Site with LUCs
- RI/FS Site
- RD/RA Site

# IRP Site 2: Waste Disposal Area B



# IRP Site 2: Waste Disposal Area B



- Background

- Unlined waste disposal area for construction debris, blasting grit, waste ordnance, and solvents operated from 1921 to 1942

Media	Environmental Concern	ROD Selected Remedy
Shallow aquifer groundwater	Chlorinated solvents, one polychlorinated biphenyl (PCB), one pesticide	Primary: Enhanced reductive dechlorination (ERD), monitored natural attenuation (MNA), and land use controls (LUCs) Contingency: Permeable reactive barrier
Surface water	Chlorinated solvents and metals	Cover (eliminates site surface water)
Soil	Waste, polycyclic aromatic hydrocarbons (PAHs), pesticides, PCBs, and metals	Cover and LUCs
Sediment (within site)	PAHs, pesticides, PCBs, and metals	Cover and LUCs
Sediment (within St. Juliens Creek at culvert outfall)	PAHs, pesticides, PCBs, and metals	Excavation and off-site disposal

- Status:

- Remedial Action (RA)–Construction phase (*separate RAB topic*)

- FY 2014 Goals:

- Final Construction Completion Report by June 30, 2014

# IRP Site 4: Landfill D



# IRP Site 4: Landfill D



- **Background**

- Sanitary landfill operated from 1970 to 1981

Media	Environmental Concern	ROD Selected Remedy
Soil	Waste, PAHs, PCBs, and metals	Cover & LUCs
Sediment (drainage ditch)	Metal (mercury)	Excavation and off-site disposal

- RA completed in 2005

- First Five-Year Review completed in 2010

- Incorporated results of voluntary groundwater monitoring conducted following completion of the RA to evaluate the site's impact on groundwater quality
    - Concluded that the remedy is protective of human health and the environment

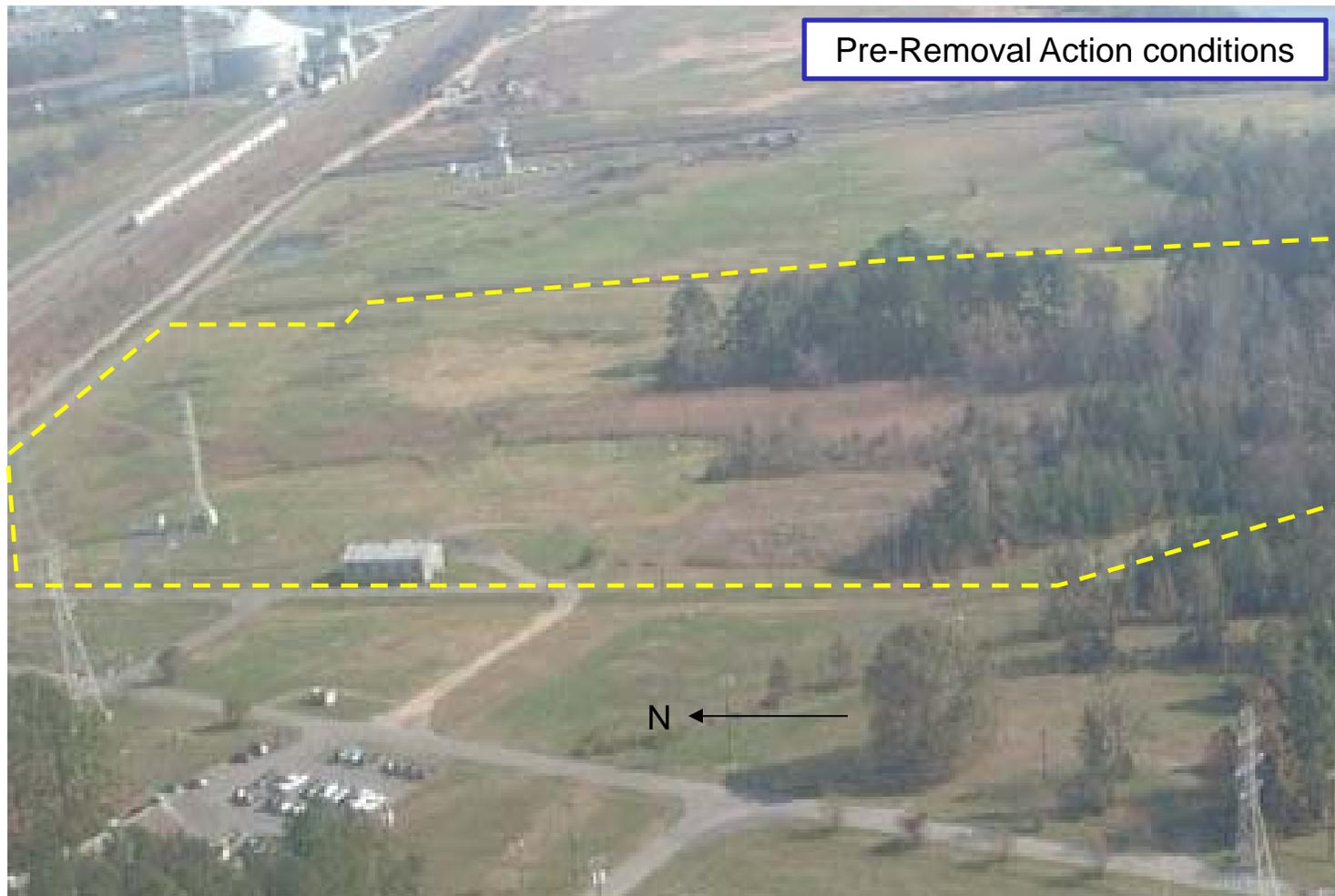
- **Status**

- Maintenance of LUCs (survey plat / annual inspections)

- Five-Year Reviews

- **No site-specific FY 2014 Goals established**

# IRP Site 5: Burning Grounds



# IRP Site 5: Burning Grounds



- Background

- Burning grounds for ordnance operated from 1930 to 1970s; various wastes reportedly disposed (solvents, paint sludge, pesticides, and refuse)

Media	Environmental Concern	Removal Action Alternative
Soil	Waste, PAHs, pesticides, and metals	Excavation and off-site disposal
Sediment (drainage)	Waste, PAHs, pesticides, and metals	Excavation and off-site disposal

- Removal action to address soil and sediment completed 2012

- Status:

- Supplemental Remedial Investigation (SRI) planning to evaluate metals in shallow aquifer groundwater

- FY 2014 Goals:

- Final Site 5 SRI Sampling and Analysis Plan by March 31, 2014
  - Final Site 5 SRI Report by June 30, 2014
  - Final Site 5 Proposed Plan by September 30, 2014
  - Final Site 5 Record of Decision by September 30, 2014

# IRP Site 21: Industrial Area



# IRP Site 21: Industrial Area



- Background

- Industrial area

- Buildings historically used as maintenance and electrical shops and munitions loading facilities; and outdoor areas used for equipment and chemical storage
    - Fuel service station (no longer present)

Media	Environmental Concern	ROD Selected Remedy
Shallow aquifer groundwater	Chlorinated solvents	In situ chemical reduction, ERD, LUCs

- RA-Construction completed in 2011

- Status

- RA-Operation, including groundwater, storm water, and vapor intrusion monitoring

- FY 2014 Goals:

- Final Site 21 4th RA-Operation Groundwater Monitoring Report by December 31, 2013
  - Final Site 21 5th RA-Operation Groundwater Monitoring Report by June 30, 2014

# Facility-wide FY 2014 Goals



- Final Site 4 Groundwater Monitoring for the 2015 Five-Year Review Sampling and Analysis Plan by March 31, 2014
- Draft Site Management Plan update by June 15, 2014
- Success story for SJCA by September 30, 2014

## St. Juliens Creek Annex Environmental Restoration Program Tier I Partnering Team uses Innovative Approach to Investigate an Underwater Munitions Response Program Site St. Juliens Creek Annex, Chesapeake, Virginia



During Fiscal Year 2012, the St. Juliens Creek Annex (SJCA) Tier I Partnering Team selected an innovative approach to conduct the Munitions Response Program (MRP) Area Unexploded Ordnance (UXO) 1 Expanded Site Inspection (SI). Use of the innovative approach minimized the environmental impacts and resulted in cost savings associated with a shortened field schedule and reduced investigation-derived waste (IDW) generation in comparison to standard approaches, and is being considered for implementation at other similar sites. The approach highlights the SJCA Partnering Team's commitment to its Mission Statement: Using principles of partnering and the CERCLA process, the St. Juliens Creek Annex Team shall seek to protect human health and the environment. The sites will be addressed, and ultimately de-listed, through innovative, streamlined, consensus-based strategies in a cost-effective, proactive manner. St. Js Rocks!

### Area UXO 1 Description and Background

Area UXO 1 comprises approximately 2,230 linear feet of current and former wharf area along the shoreline of the Southern Branch of the Elizabeth River (Figure 1). The northern wharf area was constructed in 1917 for loading ordnance. Pilings are all that remain of this wharf area. A second wharf area was constructed in the southern portion of SJCA in 1898 to support increased ordnance loading activities. Ordnance loading activities ceased in the early 1970s; however, portions of the wharf are still active to support other facility operations.

A Preliminary Assessment was completed for Area UXO 1 in 2009. Although no records were found indicating that munitions had been dropped or confirming the presence of munitions in the vicinity of the wharf areas, further investigation was recommended based on anecdotal evidence (employee interviews) that munitions may have been dropped during ordnance loading operations. An SI, including a geophysical investigation, was conducted in 2010 and identified metallic debris within the sediment of both wharf areas. The SI

Figure 1 - Area UXO 1 Location



# FY 2013 Successes



- All FY 2013 goals met except Site 5 Proposed Plan and Record of Decision
- SJCA received two awards recognizing ER successes at the facility
  - Chief of Naval Operations Environmental Award for “Environmental Restoration – Installation” for FY 2012
  - Secretary of Navy Environmental Award for “Environmental Restoration – Installation” for FY 2012



# Questions/Comments?