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NSA PANAMA CITY  
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BRIEF FROM THE APRIL 2013 TIER II MEETING NSA PANAMA CITY FL  
4/10/2013  
NAVFAC SOUTHEAST



# Florida Tier II Brief Naval Support Activity Panama City

**NAVFAC Southeast**

# Overview



- General Information**
- Partnering Team Members**
- Ongoing Work**
  - IR program
  - UST Program
- Schedules**
- Questions**



# Naval Support Activity Panama City



*Provide research, development, test and evaluation, engineering and fleet support for:*

**Mine Warfare**



**Expeditionary Maneuver Warfare**



**Operations in Extreme Environments**



**Maritime Special Operations**



# General Information



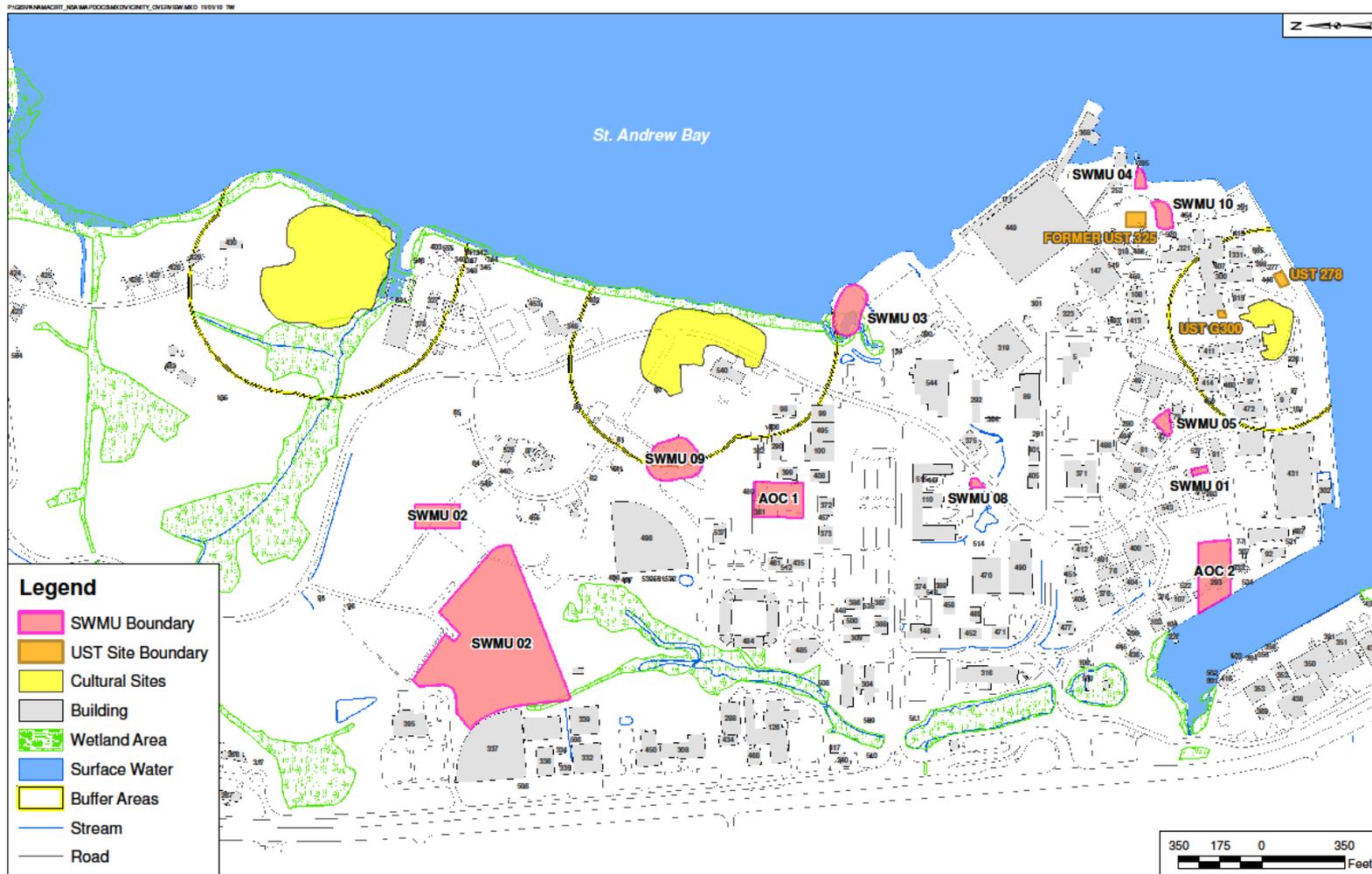
## ❑ Partnering Team Member Changes

- Charles Cook NAVFAC (IR Sites, Petroleum Sites)
- \* Erico Latham, NAVFAC (Petroleum Sites)( gone to Italy)
- John Winters, FDEP
- Richard Lee, NSA PC
- Mike Clayton, NSA PC
- Tom Johnston, TtNUS (IR Sites)
- \* Gerry Walker, TtNUS - UST Manager

## ❑ Partnering Support Members

- Rich May, TtNUS - Tier II
- Pat Franklin, Facilitator
- Libby, Claggett TtNUS - Scribe

# NSA Panama City Facility Information



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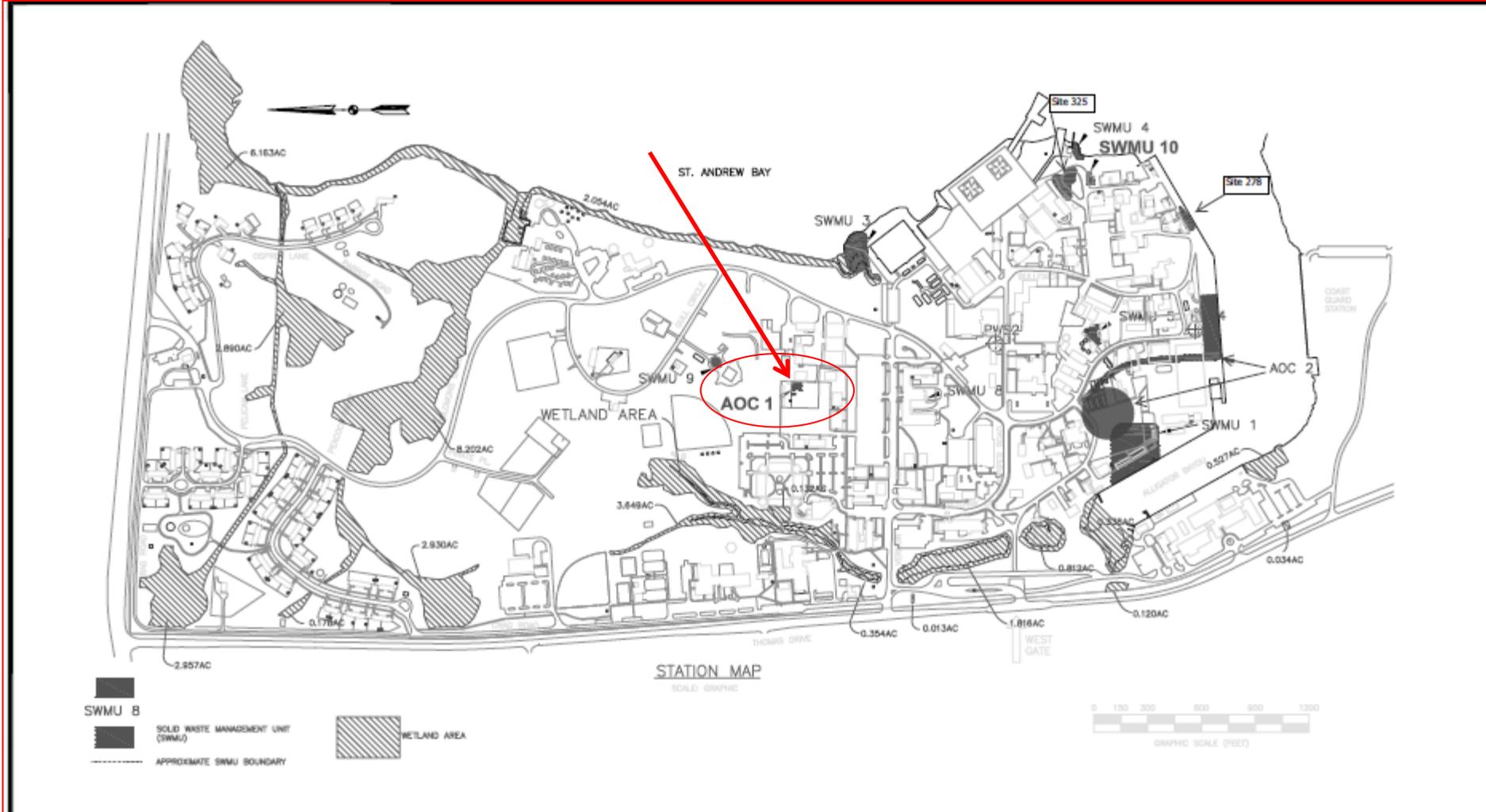


Figure 1  
Facility Map

NSA Panama City  
Annual Monitoring Report  
SWMU 10 & AOC 1

Job No. 070194-EA  
Date 02/20/09  
File No. 070194EA-FIG1  
Drawn By AP  
Checked By MC



# Ongoing Work – Active IR Sites



## •AOC 1 Fire Fighting Training Area No. 1

- Site treated by bioslurping, bioventing & SVE 1997 to 2002
- Surface soil residential LUC
- Groundwater LUCs
- GW MNA (with reduced scope)
- Free product present/monitoring with onsite contractor = cost savings.
- New construction potential

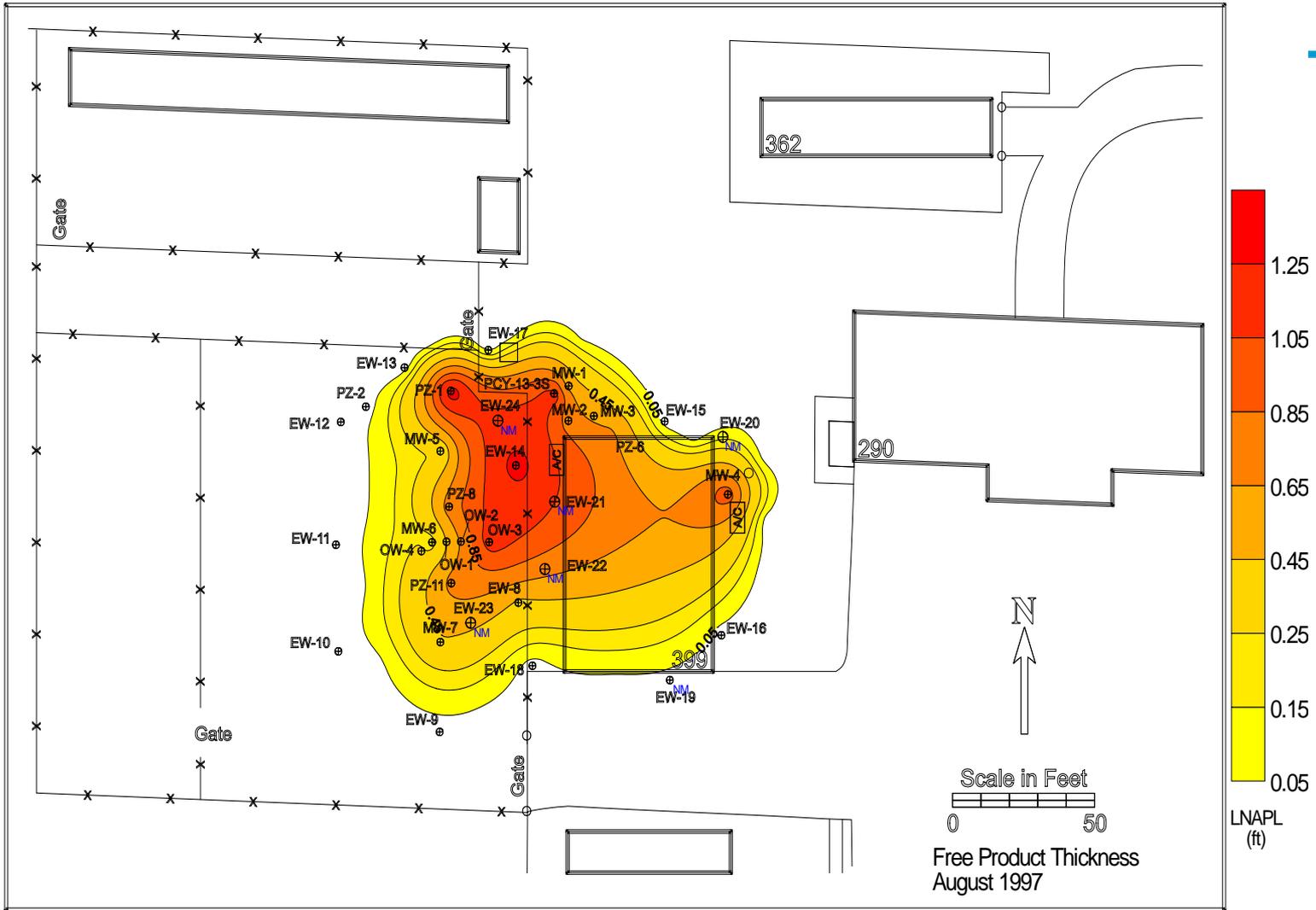


## 1. NSWC – Research Hub

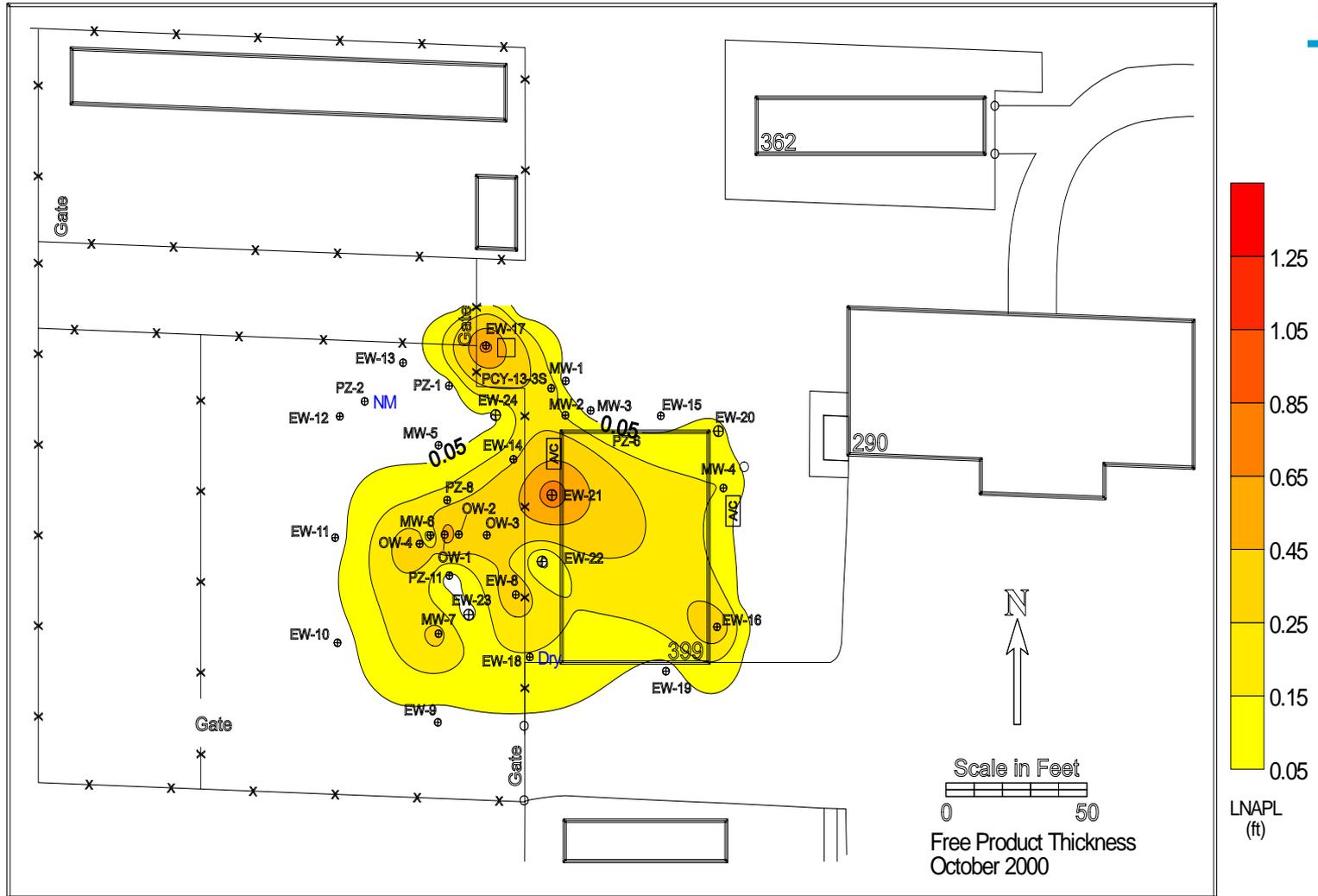
- P383 (FY15)  
Littoral Warfare  
Systems Replacement  
(#18)
  - The development of this facility requires the relocation of the FISC compound
  - Current programming reflects a deficit of approximately 200 seats



# Baseline LNAPL Thickness

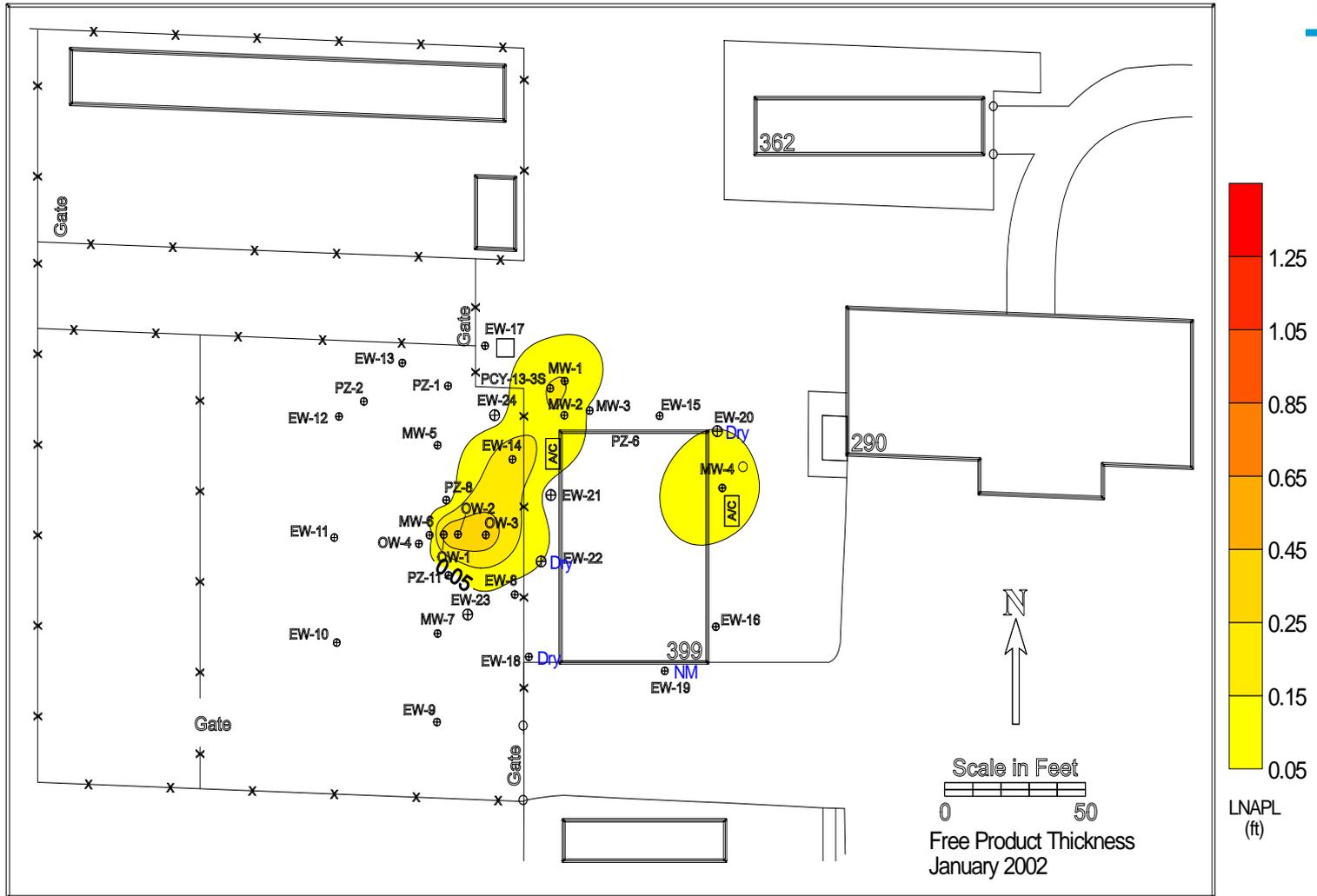


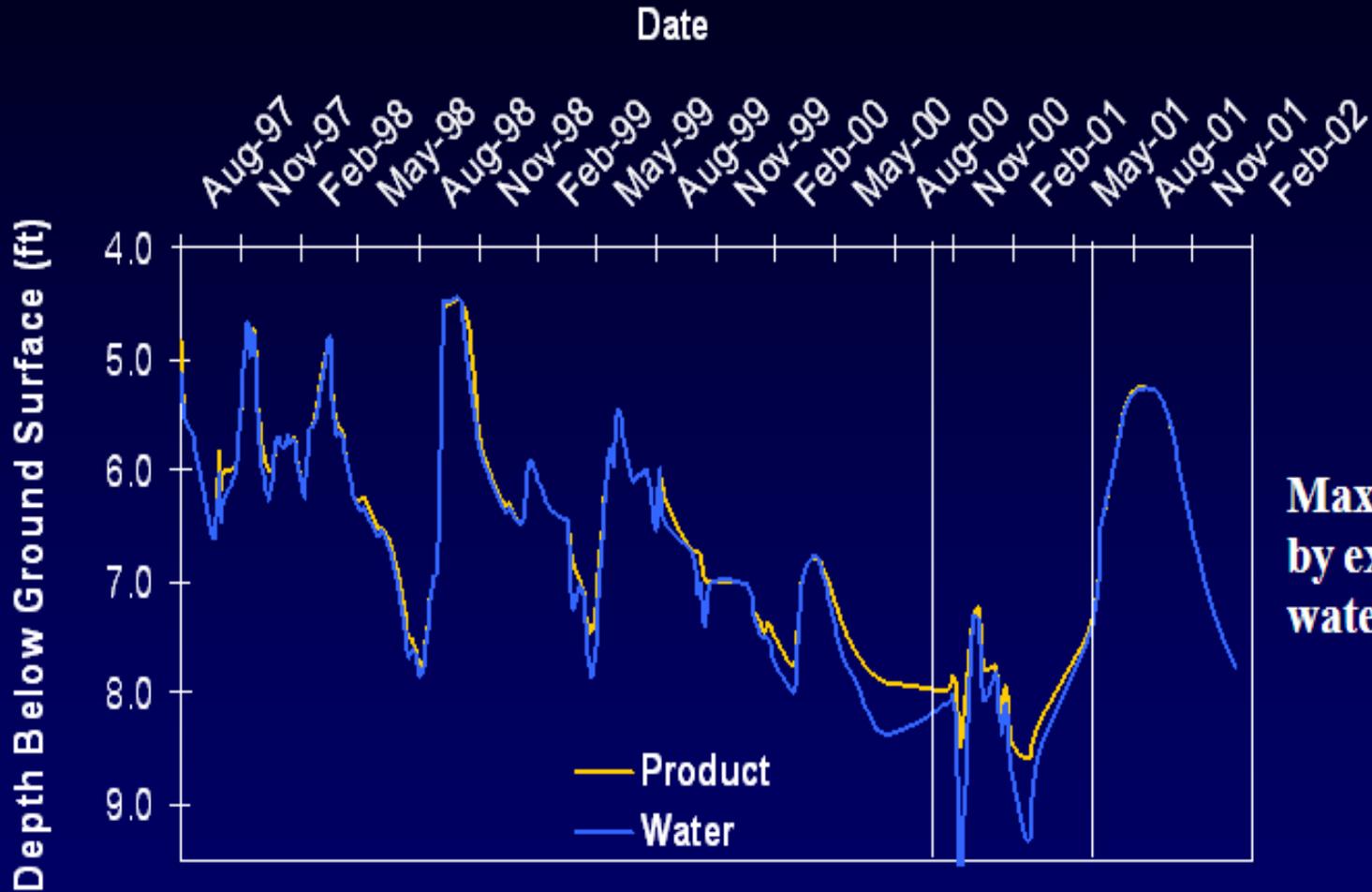
# LNAPL Thickness – Post Op 1 – 1 Year





# LNAPL Thickness – Post Op 2 – 9 Months



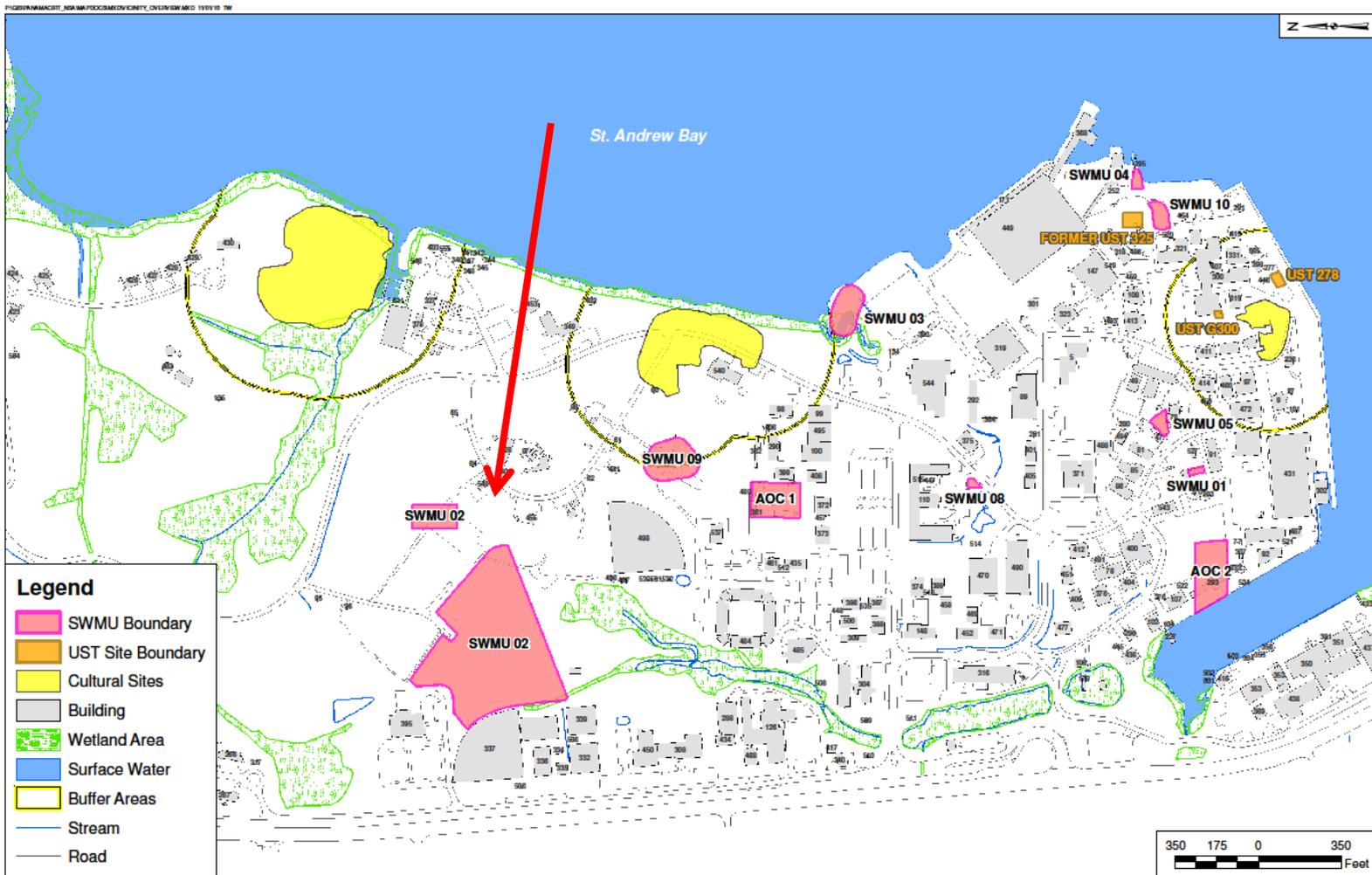


**Maximized recovery  
by extracting when  
water table was lowest**

# AOC 2



# SWMU-2



## •SWMU 2 Burn and Disposal Area

- Soil industrial/residential LUCs
- Groundwater (and SW) monitoring discontinued;
- LUCs remain

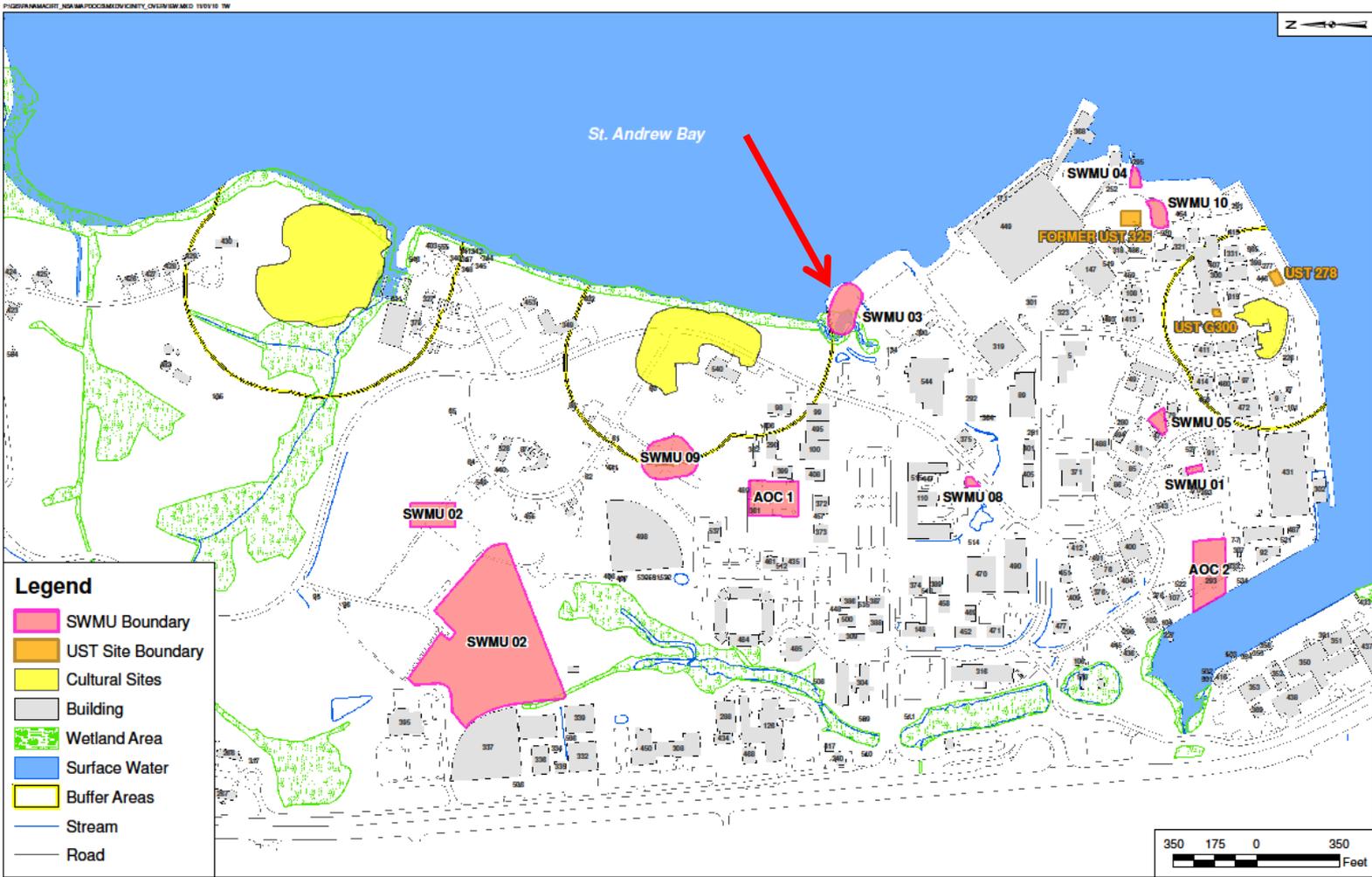


# SWMU-2 LUC Signage Replaced



**Signage needs to change to reflect land use control,  
“ No Digging or construction work without prior approval”**

# SWMU 03



# Ongoing Work – Active IR Sites



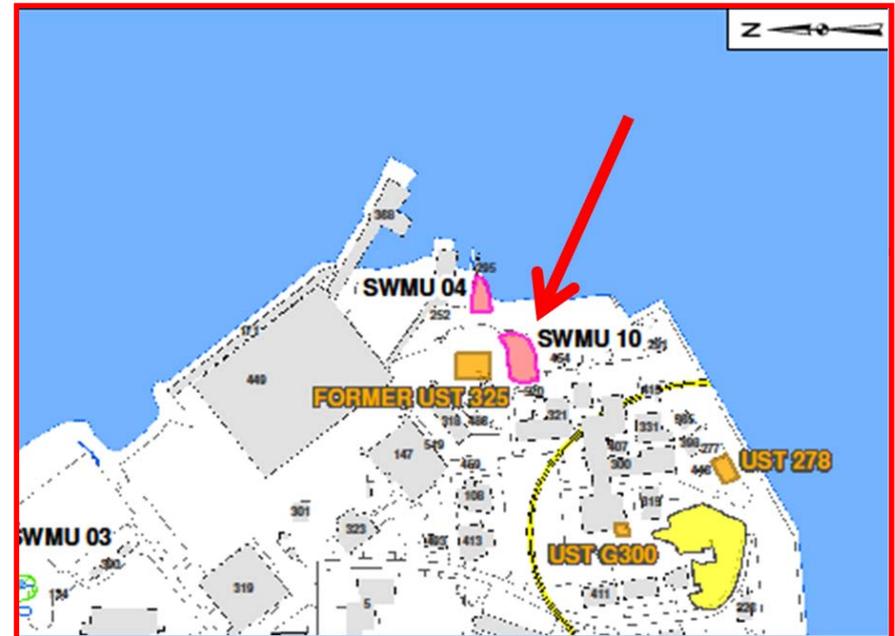
- **SWMU 3 Burn and Disposal Area**
  - Surface soil/sediment
  - Industrial/residential LUCs



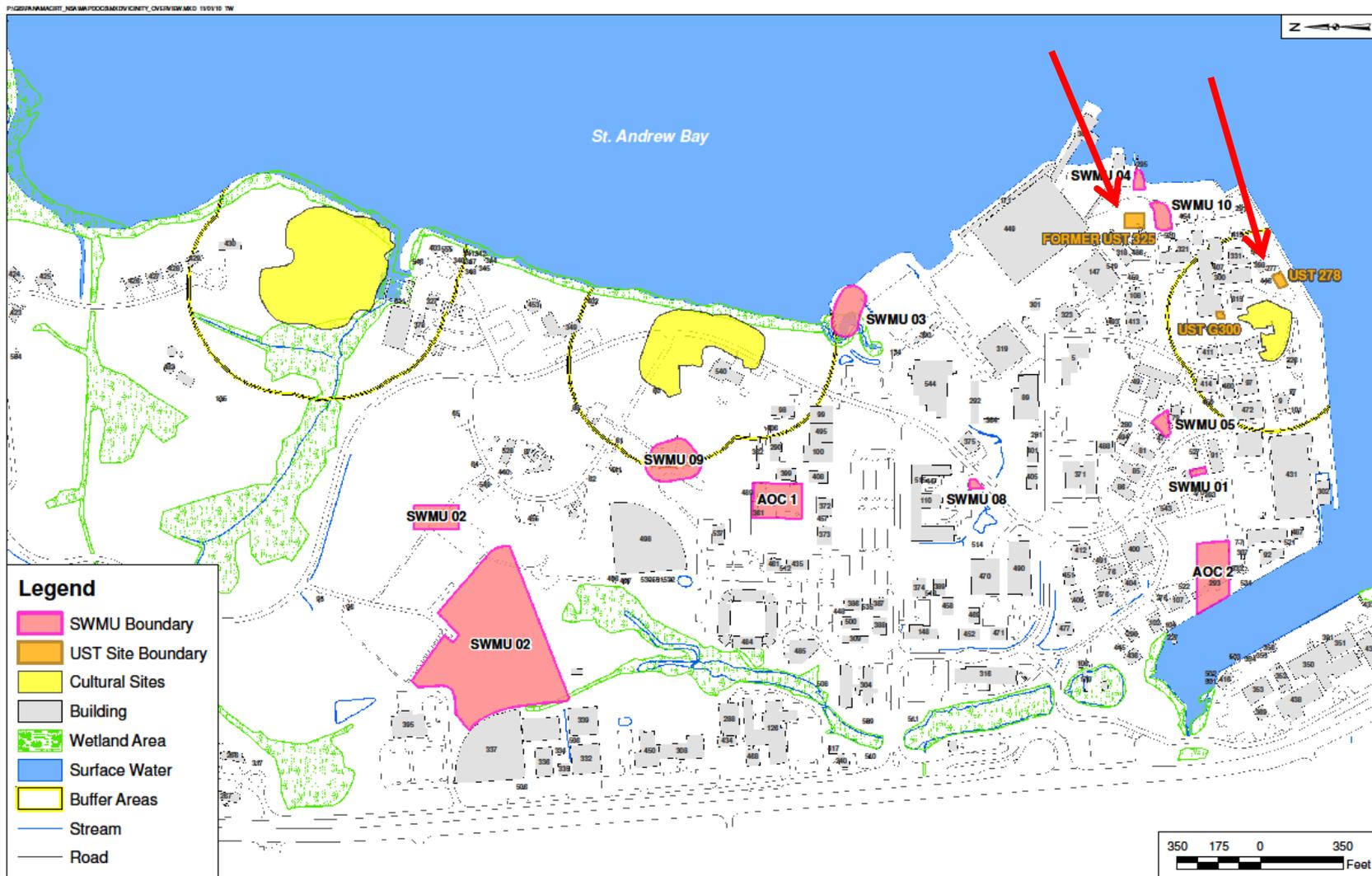


- **SWMU 10 Building 363 Oil-Water Separator**

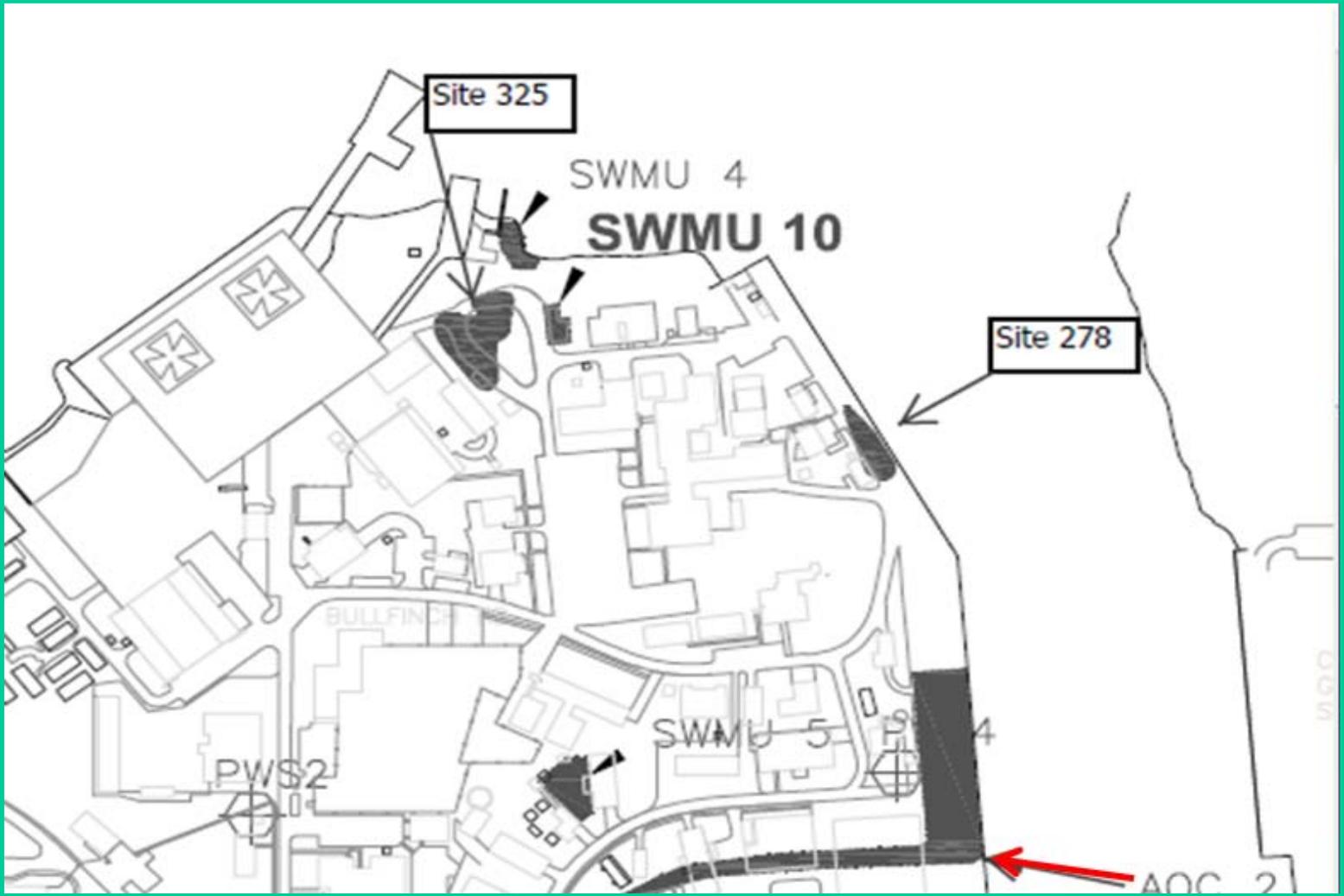
- GW MNA (with reduced scope)
- GW Industrial/residential LUCs
- Low levels Arsenic in GW  
Attributed to background



# Sites 325 & 278



# Sites 325 & 278

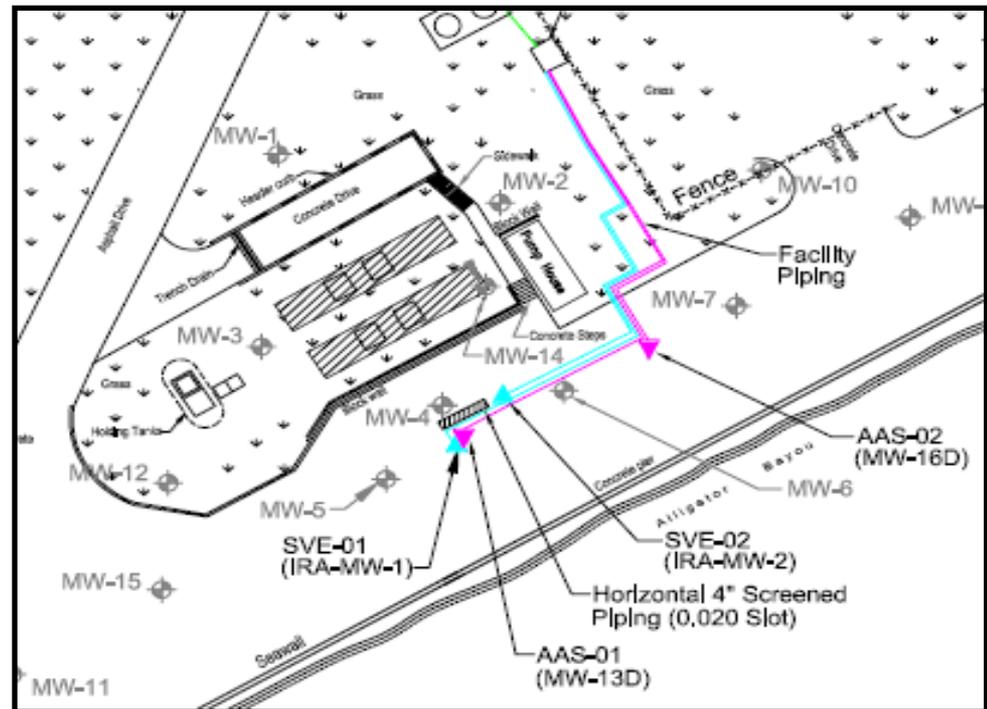


# Site 278



## Site 278 – SVE/AS Treatment Completed 2006

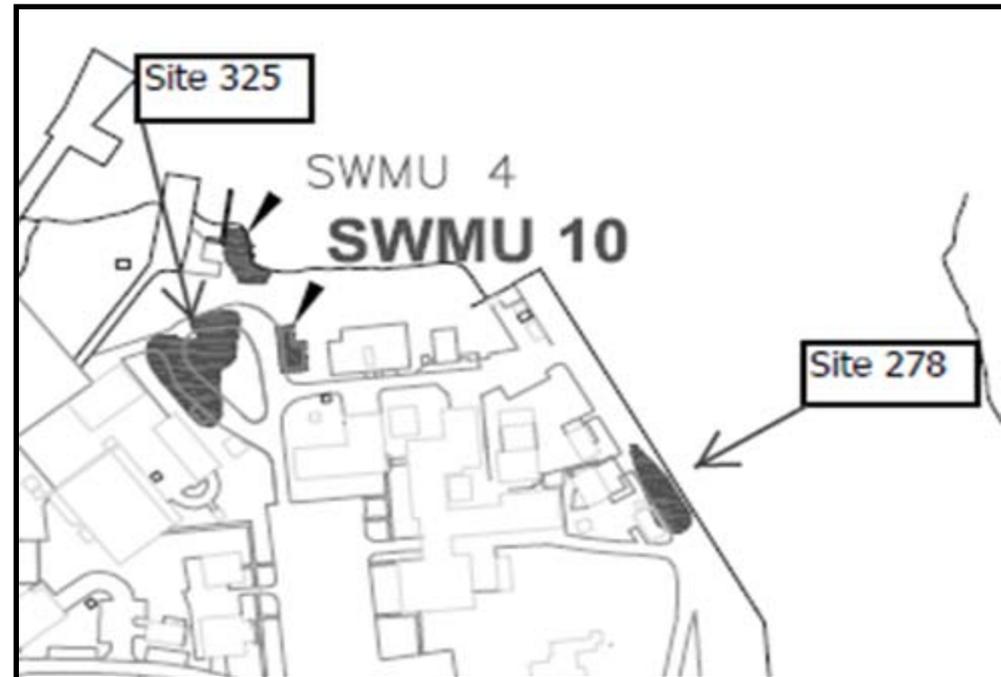
- Soil Sampling in 2009 for FI Petro-WG had no exceedences
- SRCR issued on March 18, 2011, NFA, no monitoring required .  
Wells abandoned, Abandonment report approved



# Site 325



- **Site 325**
- **Low levels GW exceedences.**
- **Evaluating none-invasive soil treatment, ISOCS & ORC**
- **Soil confirmation sampling performed 2012, Report Pending**
- **Either small excavation or LUCs required**



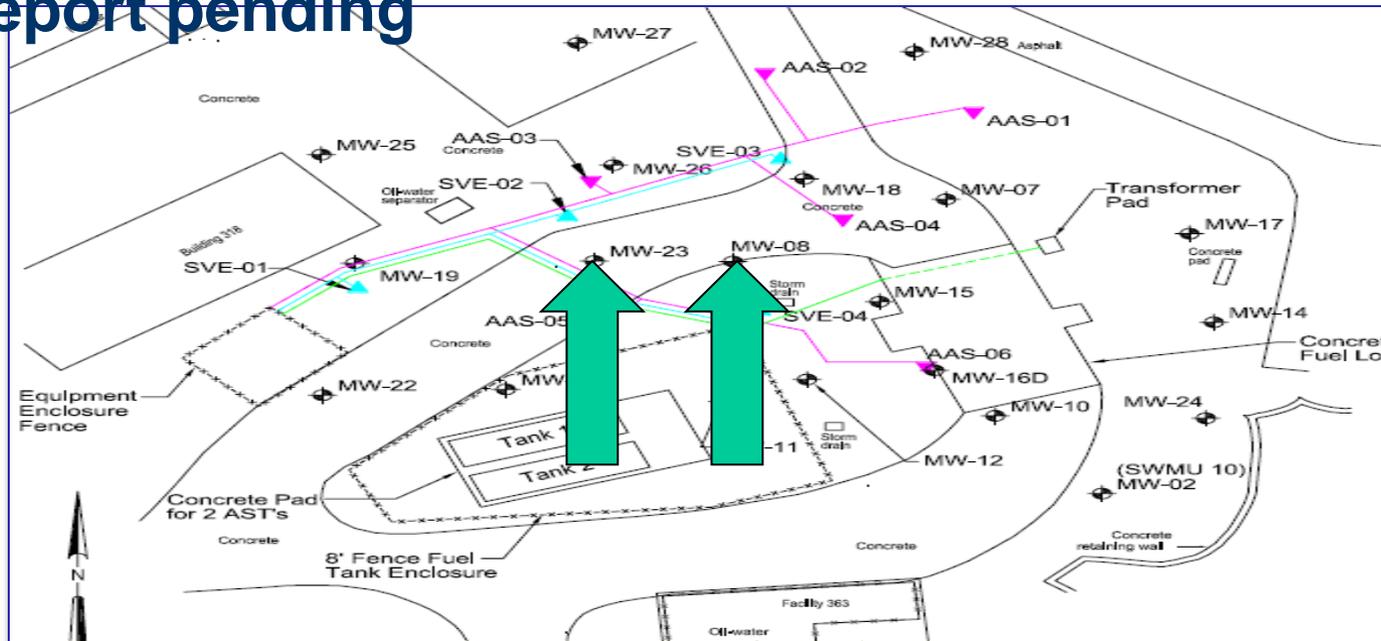
# Site 325



1997-2001 Bioslurping Product Removal

2002-2006 SVE/AS System treatment

2012 GW Confirmation sampling is complete (Well 8 and 23 ) approximately 6 ppm TRPH each in 2012 , compared to 2010 TRPH results(well 8, 5 ppm, well 23, 12 ppm)  
final report pending



# Site 325

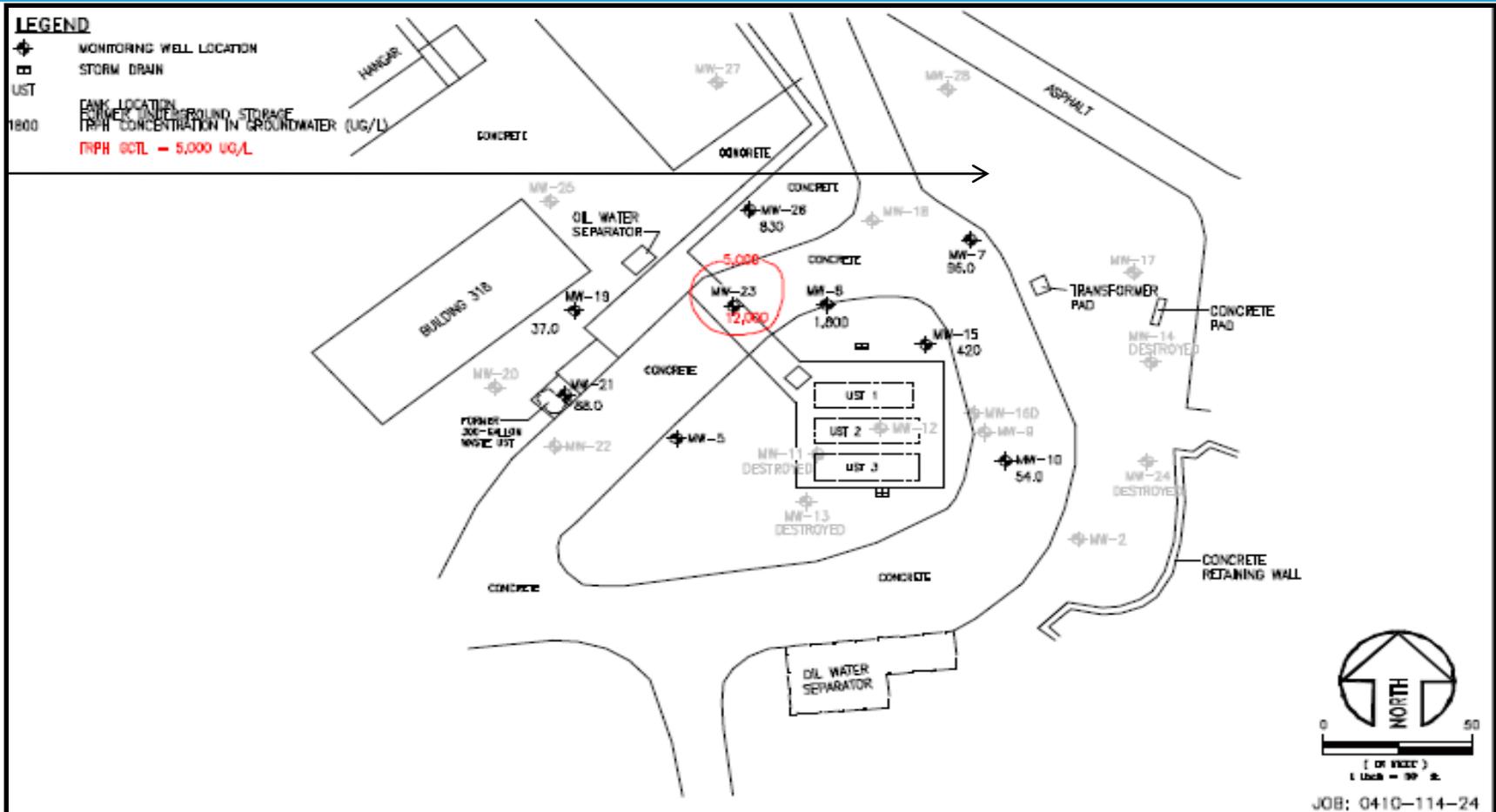


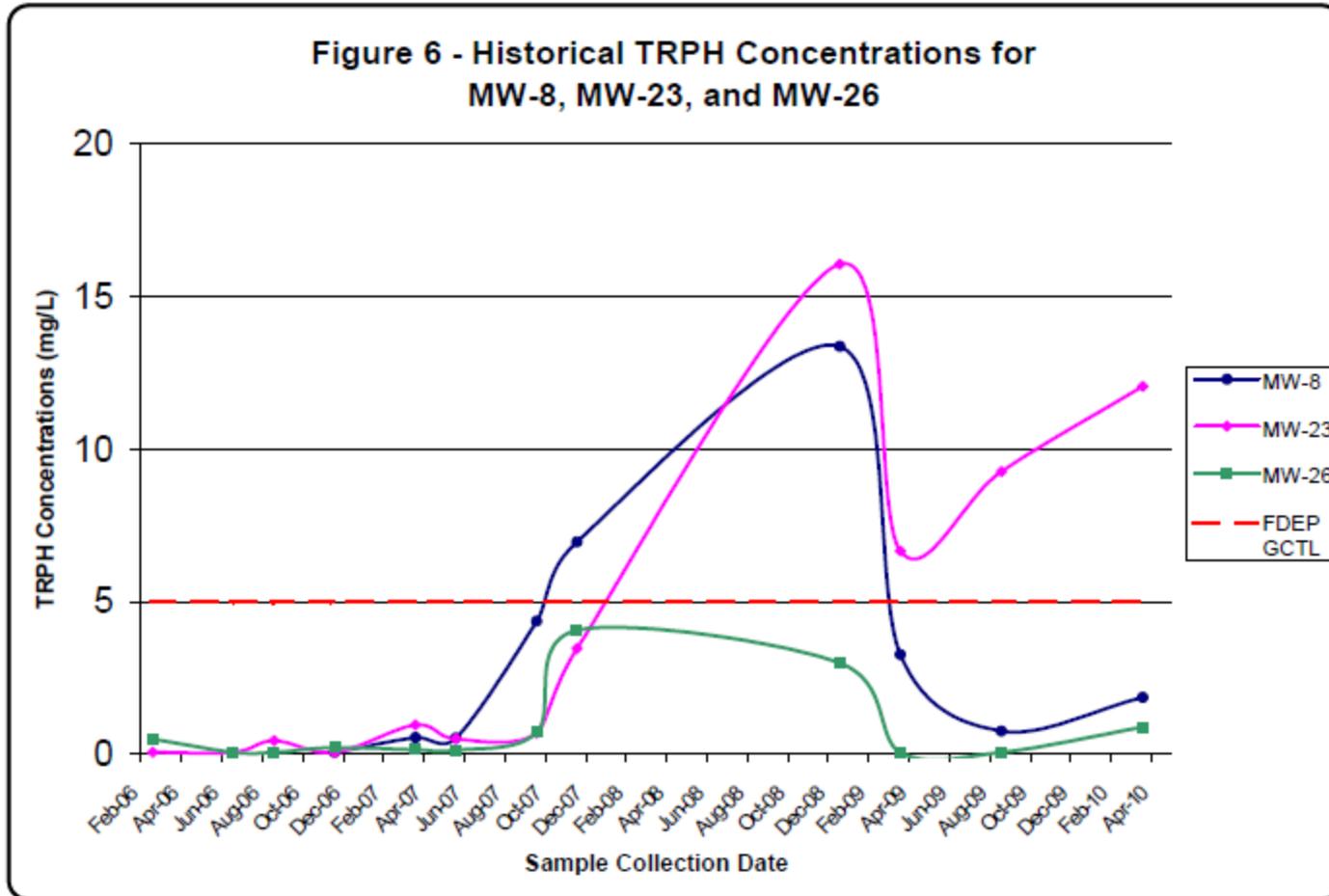
FIGURE 5 – TRPH CONCENTRATIONS IN GROUNDWATER (MARCH 30, 2010)



SITE 325  
NSA – PANAMA CITY  
PANAMA CITY BEACH, BAY COUNTY, FLORIDA

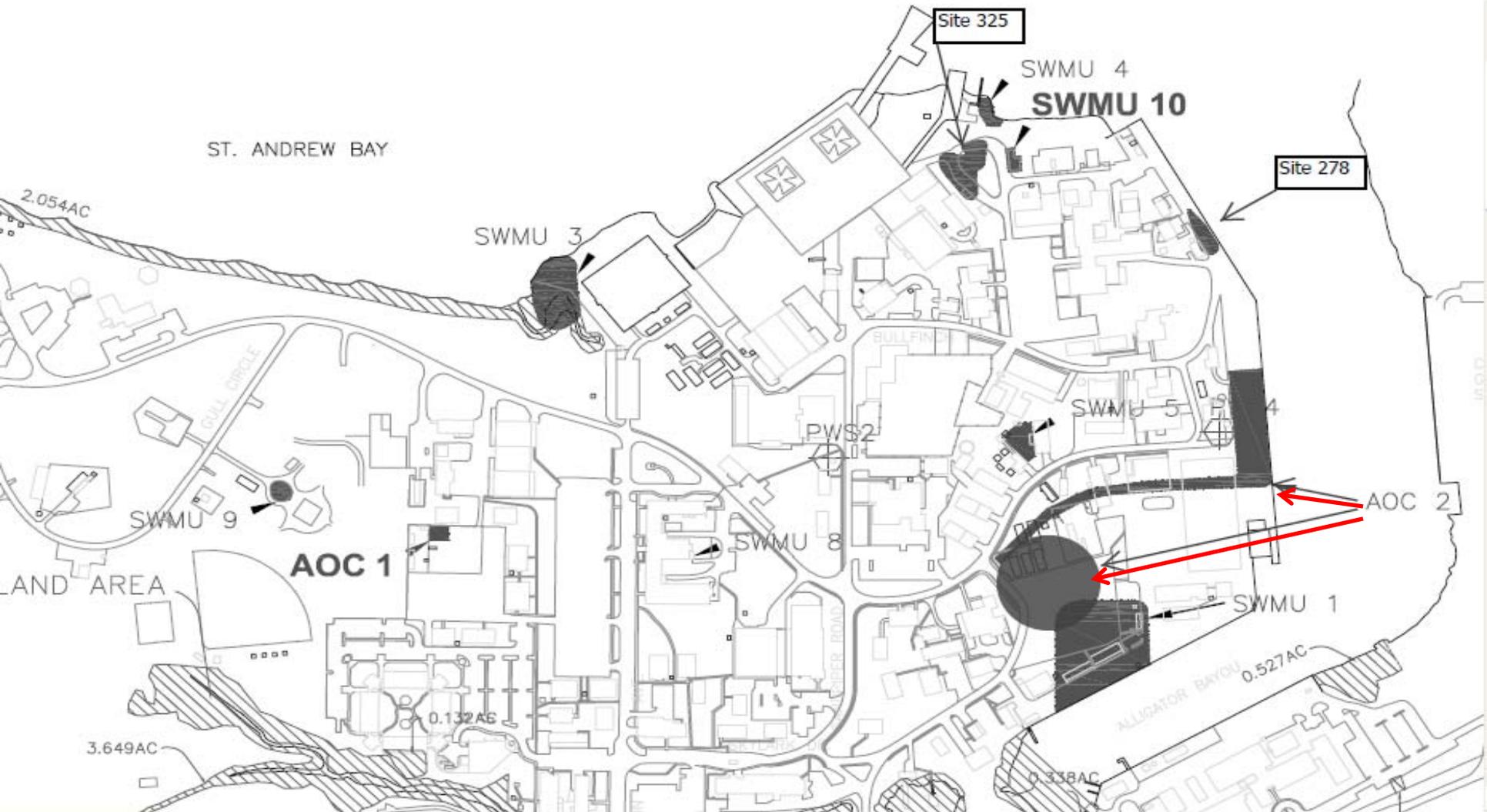
DRAWN BY: MILLS  
DATE: APRIL 2010

# Site 325





# AOC-2



# Ongoing Work – UST Sites



## •AOC 2

- Remedial action 2008 dig & haul
- Possible contaminated soil still onsite, thought to have much of the contamination removed or covered by extensive construction

- 4 Qtrs GW monitoring

- No GCTL exceedances

Team Discussions: proposed LUC to Prohibit digging deeper than 4 ft, GW Monitoring before the five year review

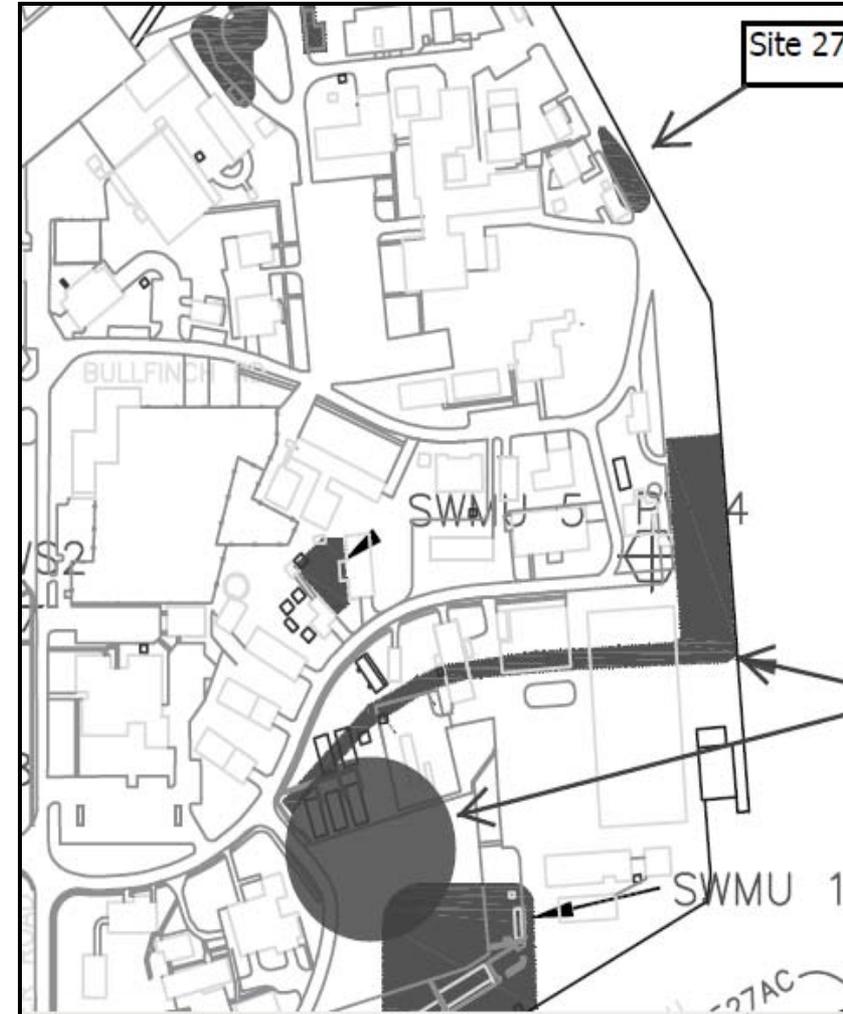


# SWMU 1 South Dock



## South Dock SWMU 1.

- South Dock reconstruction Project
- 695 tons impacted soil removed during Dock Reconstruction
- Oily contaminated soil remains trapped under subsurface concrete slab
- Impractical to clean-up all soil contamination. Report to document this is pending.
- Ground water evaluated to determine LUC boundary



# Ongoing Work – UST Sites



## •Site G300

- Free product not detected for over 1 year (last detection was Jan 20, 2009, 0.04 ft in MW-1)
- SRCR approved, SRCO issued 2/13/2013
- LUCs on GW/soil at capillary zone. LTM for free product



# Ongoing Work – UST Sites



- **Building 278**
  - SRCR approved
  - SRCO issued 5/17/2012
- **Building 325**
  - Confirmation Study completed field work 2012, Report Pending



- **Building 89 – Elevator, Command to make a decision whether to rebuild or not. If the elevator is rebuilt, sampling of ground water for potential impact to GW . If the elevator is not repaired soil sampling beneath the pit for impact due to leaking hydraulic fluid may be warranted.**
- **Tallahassee Naval Operations Support Center (NOSC)**
  - 1991 tank removed
  - DCE detected in GW above GCTLs
  - Work plan to further investigate approved by FDEP
  - Work plan implementation planned for summer 2013

- **Implement CMIPs at SWMUs 2, 3, 10, & AOC 1**
  - Possibly terminate or suspend MNA at SWMU 10 and AOC 1
  - Continue LUCs at SWMUs 2, 3, 10, and AOC 1
  - Possibly construct new facility at AOC 1 & removal of contaminated soil & free product
  
- **HSWA Permit Revision**
  - Permit expires November 2013
  - Preliminary Draft Due end of March.
  - Final Draft Due in May
  
- **G300 GW monitoring 4 quarters of sampling completed. LNAPL beneath building's 3 foot thick foundation.**
- **Technical impracticability waiver with LUCs on GW and deep soil to be proposed**
  
- **AOC 2 Proposing NFA on GW**
- **Proposing confirmatory soil sampling to support LUCs on minimal soil foot**

# Exit Strategy



- **Reduce GW contamination to below FDEP GCTLs and/or background concentrations at SWMUs 10, AOC 1**
- **Show technical impracticability of achieving FDEP GCTLs at G300. SRCR issued request LUC on GW or soil > 6 FT BLS**
- **Maintain LUCs at SWMUs 2, 3, 10, and AOC 1 until no longer needed for protection of human health and environment**



## QUESTIONS

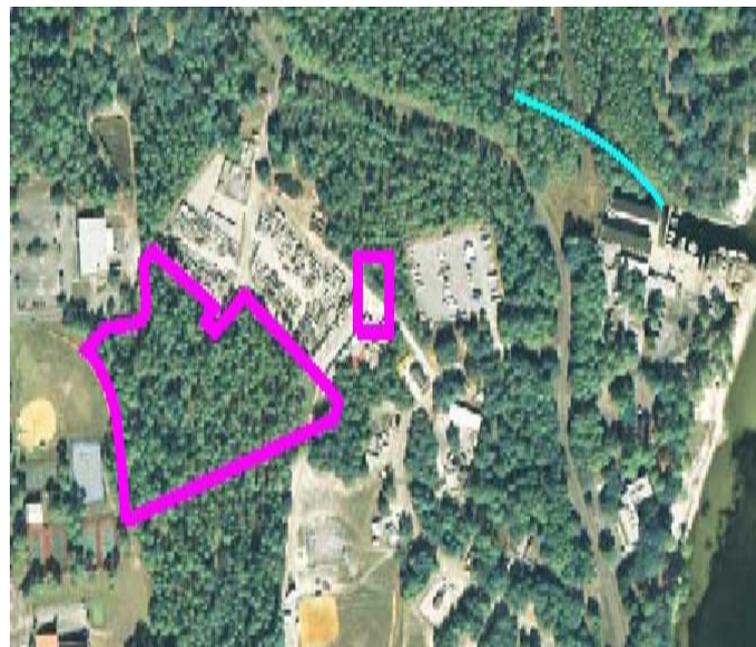


# Partnering Team Success Story – SWMU 2 Expedited Remedy in Place



- **Disposal History SWMU 2 – Landfill  
B Burn and Disposal Area**

- Wastes included paint, solvents, ash, general household food and non-food waste, bilge water
- Disposal started in late 1940s but increased from 1957 to mid 1970s
- Initial COCs were aluminum, antimony, iron, benzene in GW
- Manganese and arsenic later added to support GW background determination
- Identified soil contaminants were PCBs, PAHs, metals



# Partnering Team Success Story – SWMU 2 Expedited Remedy in Place



- **Achieved: Remedy in Place by Sep 2007**
  - Remediated SWMU 2 soils and monitored GW and SW for: aluminum, antimony, iron, manganese, benzene. Contaminant concentrations achieved GCTLs or were shown to be background except iron. Iron contamination limited in area and not spreading.
  - Collected global background As and Mn data for GW in conjunction with SMWU 2 MNA
  
- **Pathway to Success:**
  - Continue LUCs

# Partnering Team Success Story – Building 278



- **Site History – Bldg 278**
  - Most of the contamination was removed when construction of the South Dock was completed

# Partnering Team Success Story – Building 278



- **Achieved**

- Investigation completed
- SRCO Approved March 18, 2011
- NFA
- Wells Abandoned

## •Completed Documents

- Administrative Record
- Building 278 SRCR approved by FDEP on 5/17/2012, well abandonment report submitted/approved 3/18/2011
- G300 SRCO issued by FDEP 6/1/2011, LUC Certificate approved 2/18/2013
- AOC 1 and SWMU 10 LTM Report rev 1, rev 2 approved 8/12/2011, 2/23/2012
- LUC certifications approved SWMU 10, AOC 1, G300

## •Remaining Work

- Continued monitoring and LUC implementation until acceptable to stop