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NAS JACKSONVILLE
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MINUTES AND AGENDA FROM 23 TO 24 JULY 2013 PARTNERING TEAM MEETING WITH
ATTACHMENTS PARTNERING TEAM MEETING NAS JACKSONVILLE FL
7/24/2013
NAVFAC SOUTHEAST

NAS JACKSONVILLE PARTNERING TEAM MEETING MINUTES

July 23-24, 2013

Jacksonville, Florida

Attendees: Jennifer Conklin, FDEP
Tim Curtin, NAVFAC SE
Pete Dao, USEPA
Eric Davis, CH2M HILL

Todd Haverkost, Resolution Consultants
Mark Peterson, Chair
Adrienne Wilson, NAVFAC SE, Timekeeper

Sarah Reed, NAVFAC SE, Tier II (Day 2)
Tim Flood, TME, Facilitator
Mike Maughon, Tetra Tech
Alan Pate, Tetra Tech (Day 1)
Brad Peebles, Tetra Tech (Day 1)

Mike Singletary, NAVFAC SE
Libby Claggett, Tetra Tech, Scribe
Donald Hardison, Tetra Tech (Day 1)
Laura Smith, Tetra Tech

1.0 Team Meeting and Introduction

- 1.1 Team member greeting, introductions, and check in – Done
Assignment of Team Roles: Chair – Mark Peterson, Gate/Timekeeper – Adrienne Wilson, Scribe – Libby Claggett
- 1.2 Read Team Ground Rules – Ground rules were read by Team members and attendees.

2.0 Initial Agenda Items

- 2.1 Review, submit revisions to, and reach consensus on previous meeting minutes. Done

Consensus: Team members approved the minutes from the May 2013 meeting.

- 2.2 Report on Assigned Action Items and Parking Lot Items. Done
- 2.3 NAVFAC presents current budget execution plan. The plan for this year has been awarded.

3.0 Agenda

- 3.1 Schedules/SCAP/Exit Strategy/FDEP Document Tracker/FFA SMP/ Petroleum SMP: The Tier II Exit Strategy revision is still in the process.
 - 3.1.1 Team Development – Tim Flood – Tim provided Team members with an exercise to officially induct Jennifer onto the Team. Team members shared their strengths, weaknesses, Partnering experience, and MBTI score. In turn, Jennifer provided her information back to the rest of the Team. Tim further explained how the MBTI effects interaction between Team members.
- 3.2 OU 1
 - 3.2.1 LTM Update and Landfill Maintenance – Tim Curtin – One acre of geotextile was laid and covered with sand and stone in order to keep the birds off the runway. The electric fence to protect the nests has not been installed at this time. The “bird sanctuary” will eventually be 3 acres when more funding is received.
 - 3.2.2 Update on System Decommissioning LNAPL Structures at OU 1 – Eric Davis – The structures are scheduled to be demolished starting this week. Building 780 is currently being demolished.

3.3 OU 3

- 3.3.1 Risk Assessment – Brad Peebles provided a presentation on the RI Addendum. Proposed action items for updating the Risk Assessment include 1) calculations on residential exposure to soil and groundwater unnecessary (groundwater exceeded criteria for occupation worker and LUCs under RMO Level III) and 2) need to address vapor intrusion data gaps for occupational and residential.

Discussion ensued regarding the need to make the LUC boundaries smaller and why. During, the FS stage, additional soil data can be collected in order to shrink the LUC boundary. Because of time limitations, the RI Addendum needs to be completed before additional data can be collected. Further discussion was held regarding the cost of collecting additional soil samples in lieu of a LUC versus the cost of site workers needing HAZWOPER training in order to work at the site. Soil at OU 3 is addressed in the ROD via LUCs. The Navy will discuss the issue of LUCs at OU 3 separate from this meeting.

Consensus: The Team reached consensus to go forward with the OU 3 RI Addendum Risk Assessment per the presentation given by Brad Peebles.

Action Item: Mark will review the data going into the Human Health Risk Assessment for OU 3 for indoor air vapor intrusion to determine if it includes all data (GeoSyntech).

- 3.3.2 Groundwater Model Update – Included in Risk Assessment discussion above.

- 3.3.3 Vapor Intrusion Discussion – Eric Davis – The temporal study is planned for this winter (December to January). Comments were received from the USEPA and FDEP on the Phase 2 Evaluation Report in mid-June, and both agencies approved the document as final. CH2M HILL will issue a response to clarify questions from the agencies.

- 3.4 OU 6 – PSC 52 Hangar 1000 – Donald Hardison – There is nothing new to report.
- 3.5 OU 7 – PSC 46 Update – DRMO – The revised Technical Memorandum was submitted this week. The recommendations in the Technical Memorandum were presented at the RAB meeting.
- 3.6 OU 8 – PSC 47 – Eric Davis – The 1st semiannual groundwater monitoring event and metals NMA investigation will occur on September 1st. The 2012 Annual Groundwater Monitoring Report was submitted. The FDEP agrees with the recommendations, but had other comments that did not affect the scope. The USEPA agreed with the recommendations with no questions. A response to comments will be prepared.

Action Item: Eric is to arrange a conference call with Mike, Adrienne, and Tim to discuss the evaluation of new data (soils investigation) at OU 8, PSC 47.

- 3.7 OU 9 – PSC 45 – Building 200 – Alan Pate – The draft-final RI Report has been submitted (June 6, 2013). Tetra Tech is waiting on approval from the Navy and FDEP; the USEPA approved draft Revision 1.

The EE/CA is planned to be submitted later this month. Mark asked if the EE/CA should be submitted draft or as draft-final. A non-time critical work plan has already been submitted and approved. Adrienne suggested submitting the EE/CA as draft, and if there are no comments, going directly to final (no draft-final stage). Team members agreed this would be the best approach.

- 3.8 OU 10 – MRP Sites – The internal draft of the MRP RI is being reviewed by the Navy. After Navy comments are incorporated, the draft will be sent to the Team in mid-August. There were more

exceedances at UXOs 1 and 3 than anticipated. Additional data is needed to fully define the boundaries of contamination at UXOs 1 and 3.

Action Item: Mark and Adrienne are to talk with Barb to evaluate what additional data is needed for UXOs 1 and 3 and evaluate whether to submit the RI or delay to include additional rounds of sampling.

- 3.9 OU 11 – PSC Sites with LUCs and no RODs and PSC 8/55 – Laura Smith – Industrial exceedances (low levels of PAHs and metals) are along the same lines at the PSC sites. Additional sampling needs to be conducted at the PSC sites in order to get full delineation. At PSC 9, delineation could run into the river. Mike S. suggested looking at an anthropogenic background for the low levels to determine if the PAHs are from another source.

PSC 32 has PCBs concentrations that exceed industrial criteria; it is expected the PCB concentrations are related to PSC 32. Team members agreed the PCB concentrations are probably not related to PSC 32. A step-out samples should be collected at PSC 32 further evaluate of the PCB is site related or not.

Tim stated that PSC 28 has no LUC and he would like stop inspecting it. Adrienne stated PSC 28 has been NFA in the permit for years.

Action Item: Jennifer is to determine if she can concur that PSC 28 no longer needs LUC inspections.

PSC 44 (across the street from Hangar 1000) was lined with concrete pillows; and thus, there are no sediments anymore (completely capped). Tim stated the LUC signs state to be careful of the sediments (and there are not any).

Action Item: Mark is to present historical information on PSC 44 at the next meeting.

3.10 Petroleum Sites

3.10.1 Gas Hill (PCA 4) – Eric Davis – The draft Revision 1 2012 Annual Groundwater Monitoring Report comments were received from FDEP. The document was approved as final with no further revision required.

3.10.2 Hawkins' Property – Solutions, IES will sample later this month.

3.10.3 PCA 25 – Boat House Area – Solutions IES sampled in June and will sample again in September. Jennifer stated that since there is soil contamination present, RMO I is not an option at PSC 25. Waiting on FDEP comments to the Groundwater Monitoring Report submitted in May.

3.10.4 Kemen Test Cell – There is nothing to report; this site is currently not funded.

3.10.5 Firefighter Training Facility (OU 2) – Solutions IES sampled in June and will sample again in September. Tim stated the Installation is thinking about taking the current Firefighter Training Facility permanently out of service.

3.11 PSC 38 – Torpedo Rework Facility – PSC 38 has TCE exceedances in groundwater. TCE exceedances could be from the ditch. Additional sampling will be collected to determine if the TCE is site related or not. However, there is no obvious other source of TCE in the area. A mobile laboratory will be used in order to obtain the data in a timely fashion. The dig permit has been submitted in order to start the sampling.

3.12 PSC 56 – NEX Gas Station – There is nothing to report.

3.13 PSC 57 – S-3 High Power Turn-up Pad – Todd Haverkost – The redline version of the UFP-SAP was submitted.

4.0 Miscellaneous

- 4.1 Proposed Construction Update – Tim Curtin – Tim gave an update of the proposed and current construction projects.
- PSC 57 – Dave from Resolution Consultants found all of the wells. The trees have been removed from behind PSC 57.
 - The sliver of land at Yellow Water does belong to NAS Jacksonville and will need to be included in the permit. There are LUCs on the sliver; thus, LUC inspections will need to occur.
 - The change of command will occur on August 13.
 - The air show will be held at NAS Jacksonville in 2014 instead of at the beach.
 - Waiting on funding to repair the runway. Fixed-wing airplanes will be moved to Cecil Field.
 - Wright Street has been repaved.
 - Phase 2 of the water reuse project is complete. Upon completion of Phase 3, water will no longer be discharged into the river.
 - There has been talk about demolishing Building 11; however, there is no funding at this time.
 - Some windows in Building 101 are to be replaced. The final design has been completed. This is an FY13 project and should be completed before September 30.
 - The WWTP at FRC will be upgraded.
 - Hangars 113, 114, and 115 are to be demolished. An environmental assessment will need to be prepared before demolition occurs.

Action Item: Adrienne is to determine if there is a LUC RD for the Yellow Water sliver.

- 4.2 Tier II Update – Sarah Reed – The last Tier II meeting was held June 19-20, 2013, in Jacksonville. Major topics of discussion included reorganization and funding updates; review Tier II goals; review Tier I Team reports; Key West Team presentation; Five-Year review schedules; technical presentation on emerging contaminants; training; lessons learned from conference calls; Exit Strategy revision update; NIRIS/LUC Tracker training; and possible Tier I Team recognition. The next meeting is scheduled for September 17-18, 2013, in Jacksonville.

Sarah suggested having Bob Fisher provide NIRIS training to the Jacksonville Team.

Mike Singletary provided a presentation on emerging contaminants Perfluorinated Compounds (PFCs), Perfluorooctane Sulfonate (PFOS), and Perfluorooctanoic Acid (PFOA). Currently, there are no regulatory criteria for these contaminants and no proven technology for *in situ* treatment. PFOA and PFOS concentrations at the Former Fire Training Area exceeded USEPA provisional health advisory levels (0.4 µg/L for PFOA and 0.2 µg/L for PFOS).

- 4.3 Institutional Controls Implementation Plans Update – Tim Curtin – There is nothing new to report.
- 4.4 RCRA Activities – Tim Curtin – The draft permit application has been submitted.

Action Item: Adrienne is to determine if the Yellow Water sliver is included in the RCRA permit.

- 4.5 Exit Strategy Review – Waiting on a decision to be made on the Exit Strategy revision from Tier II.
- 4.6 BOA Contracts Update and Schedule – The Navy is waiting on FDEP comments on the OU 1 (submitted January 2013) and OU 5 (submitted October 2012) Groundwater Monitoring Reports.
- 4.7 CNO Award – There is nothing new to discuss until the November/December timeframe when applications are sent out.
- 4.8 RAB Meeting, Discuss Presentation – Team members reviewed, edited, and rehearsed the presentation for the July 2013 RAB Meeting.

5.0 Meeting Closing

5.1 Review Meeting Consensus Items – Done

5.2 Review Meeting Understandings – None

5.3 Review Action Items – Done

5.4 Next Meeting Proposed Agenda Changes

Action Item: Adrienne is to check with Bob Fisher to see if he can provide NIRIS training at the next NAS Jacksonville meeting.

Action Item: Adrienne is to invite Rachel Klinger (GeoSyntech) to the next Partnering Team meeting.

5.5 Set the future meeting dates in advance

Meeting Date	Meeting Time	Location	Meeting Chairman
9/17/13	1 p.m. to 5:00 p.m.	Jacksonville	Adrienne Wilson
9/18/13	8:00 a.m. to 12:00 noon		
11/12/13	1 p.m. to 5:00 p.m.	Jacksonville	Jennifer Conklin
11/13/13	8:00 a.m. to 12:00 noon		
01/14/14	1 p.m. to 5:00 p.m.	Jacksonville	Tim Curtin
01/15/14	8:00 a.m. to 12:00 noon		
03/18/14	1 p.m. to 5:00 p.m.	TBD	Pete Dao
03/19/14	8:00 a.m. to 12:00 noon		

5.6 Set the next meeting location, duration, and roles

- Location – Jacksonville
- Dates – September 17-18, 2013
- Duration – 2 days
- Chair – Adrienne Wilson
- Gate/Timekeeper – Jennifer Conklin
- Scribe – Julie Johnson

5.7 Facilitator Plus/Deltas – Done

Plus

Having Libby in attendance
 Mike's presentation on AFFF
 RAB meeting
 RAB preparation
 Team orientation for Jennifer

Deltas

Julie not at the meeting
 Low attendance from public at the RAB meeting

Site	<u>CONSENSUS ITEMS</u>
C-10713	Team approved the meeting minutes from May 2013 meeting
C-20713	The Team reached consensus to go forward with the OU 3 RI Addendum Risk Assessment per the presentation given by Brad Peebles.
Agenda Item No.	<u>PARKING LOT</u>
	A potential success story, identifying plume reduction project at OU 3 Area A, which will reduce requirements for HAZWOPER training (CNO award due in December 2012). Team due every other year and the installation done every year.
	Yellow Water Weapons Housing Area – Part of Site 15 (sweeping for MEC) Natural Resource Corridor. Public Safety. Tim said the station is looking at getting rid of that area. Tim said nobody wants the road (causing hold up). Dave said the main concern is the part of yellow water Site 15 extends out to the area between the ball field and the old fence line. Confirm that the LUCs will be acceptable for both sites. LUC = only good for a pass through (hiking, biking, horseback riding; no attractors). Tim checking on status of transfer (November 2012). Tim said it has to be approved by congress. Expecting congressional approval to transfer ownership from the Navy to the PPV contractor (housing company) the middle of April 2013. Dave concerned about the Site 15 encroaching the housing area. Tim said that part of the property will not be transferred. Dave said that multiple property owners may have to sign off on the permit. Update 05-2013: With Dave departing the Team, this will transition to Pete.
05/20/2013	Per Tim C., the Team will have to recommend whether keep the slabs at Hangars 113, 114, and 115.

ACTION ITEMS

Action Item No.	Responsible Party	Status	Due Date	Site	Action Item
September 6, 2012					
A-50912	Laura S	OBE	Next Meeting	OU 3, VI discussion	Laura S. to provide the Jacksonville Partnering team with the information regarding the Colorado EPA Region 8 VI study, summa canister vs. what other type that was 20 percent the cost of summa canister. Update 07-2013: The person responsible for the study has retired; thus, Laura will not be able to provide the information.
May 20-21, 2013					
A-10513	Julie	Working	TBD		Julie is to provide a 1- to 2-page summary of each site to Team members.
A-30513	Dave	Done	By next week	MRP Sites	Dave is to send the Sediment Quality Assessment Guidelines (SQAGs) to Barb Becker.
A-40513	Rachel	Done	TBD	OU 3	Rachel is to send the well construction detail including screen intervals, methods, etc. to Jennifer and Pete in order to obtain a verbal

ACTION ITEMS

Action Item No.	Responsible Party	Status	Due Date	Site	Action Item
					approval to install monitoring wells and conduct the baseline sampling at OU 3.
A-50513	Mike S.	Working	TBD		Mike S. is to send Team members and Dave Grabka the ESTCP reports.
A-60513	Eric	Done	TBD	Building 103	Eric is to send the TCE Rapid Action Alert Fact Sheet, April 2013 to Team members.
A-70513	Eric	Done	Before the next meeting	Building 103	A follow-up discussion between CH2M HILL and the Navy needs to be held to discuss the Building 103 vapor intrusion results and immediate action path forward (sampling in the near term or wait for Phase 3). Update 07-2013: This will be tied in with the Pesticide Shop for a multi-site teleconference on mid-August, 2013.
A-80513	Eric	Done	TBD	Various	Eric is to prioritize the portions of the JM10 Work Plan (decommissioning, well abandonment, and PSC 45) that need to be accomplished first (and possibly without regulatory approval) and send to Team members for review with email confirmation.
A-100513	Mark	Done	May 30, 2013		Mark is to update the Exit Strategy and send to Team members, Robbie Darby, and Rich May by May 31, 2013.
A-110513	Jennifer Conklin	Done	By next week		Jennifer is to send the FDEP Document Review Excel file to Adrienne.
A-120513	Tim	Done	Mid-June		Tim is to send Team members the draft RAB Meeting Agenda by mid-June.
July 23-24, 2013					
A-10713	Mark	Done	By next week	OU 3	Mark will review the data going into the Human Health Risk Assessment for OU 3 for indoor air vapor intrusion to determine if it includes all data (GeoSyntech).
A-20713	Eric	Done	8/16/2013	OU 8 PSC 47	Eric is to arrange a conference call with Mike, Adrienne, and Tim to discuss the evaluation of new data (soils investigation) at OU 8, PSC 47.
A-30713	Mark, Adrienne	Done	By next week	OU 10, UXOs 1 and 3	Mark and Adrienne are to talk with Barb to evaluate what additional data is needed for UXOs 1 and 3 and evaluate whether to submit the RI or delay to include additional rounds of sampling.
A-40713	Jennifer	Done	8/9/2013	PSC 28	Jennifer is to determine if she can concur that PSC 28 no longer needs LUC inspections. Update: Jennifer said that there are still contaminants so LUCs shall remain in place.
A-50713	Mark	Done	By the next meeting	PSC 44	Mark is to present historical information on PSC 44 at the next meeting.
A-60713	Adrienne	Done	8/2/2013	Yellow Water Sliver	Adrienne is to determine if there is a LUC RD for the Yellow Water sliver.
A-70713	Adrienne	Done	8/2/2013	Yellow Water	Adrienne is to determine if the Yellow Water sliver is included in the RCRA permit.

ACTION ITEMS

Action Item No.	Responsible Party	Status	Due Date	Site	Action Item
				Sliver	
A-80713	Adrienne	Done	Before next meeting	NIRIS	Adrienne is to check with Bob Fisher to see if he can provide NIRIS training at the next NAS Jacksonville meeting.
A-90713	Adrienne	Done	By next meeting		Adrienne is to invite Rachel Klinger (GeoSyntech) to the next Partnering Team meeting.

NAS Jacksonville Team Agenda
Jacksonville, Florida
July 23-24, 2013

Chair – Mark Peterson
Gate/Timekeeper – Adrienne Wilson
Scribe – Libby Claggett

Item	Description	Presenter	Time	Objective
1.0	TEAM MEETING AND INTRODUCTIONS	Team		
1.1	Team member Greeting, Introductions, and Check-in; Guest Introductions	Team		
1.2	Assignment of Team Meeting Organization: Chair, Gate/Time Keeper, Scribe, and Prioritize Agenda.	Chair		
1.3	Read Team Ground Rules	Team		
2.0	INITIAL AGENDA ITEMS FOR EACH MEETING			
2.1	Review, submit revisions to, and reach consensus on previous meeting minutes	Team		
2.2	Reports on assigned action items and parking lot items	Team		
2.3	NAVFAC presents current budget execution plan	Adrienne		
3.0	AGENDA			
3.1	Schedules/SCAP/Exit Strategy/FDEP Document Tracker/FFA SMP/Petroleum SMP, FFA Review	Team		
	3.1.1 Team Development – NIRIS Training	Tim Flood		
3.2	OU 1			
	3.2.1 LTM Update and Landfill Maintenance			
3.3	OU 3			
	3.3.1 Groundwater Model Update	Donald		
	3.3.2 Vapor Intrusion Update	Eric		
3.4	OU 6 – PSC 52 – Hangar 1000	Donald		
3.5	OU 7 – PSC 46 DRMO update	Eric		
3.6	OU 8 – PSC 47 – Pesticide Shop	Eric		
3.7	OU 9 – PSC 45-Building 200 Wash Rack (groundwater only)			
3.8	OU 10 - MRP Sites	Todd		
3.9	OU 11 - PSC Sites with LUCs and no RODs and PSC 55 –			
3.10	Petroleum Sites			
	Gas Hill	Eric		
	Hawkins			
	PCA 25			
	Kemen Test Cell			
	Firefighter Training Facility (OU 2)			
3.11	PSC 38 – Torpedo Rework Facility	Alan		
3.12	PSC 56 – NEX Gas Station			
3.13	PSC 57 – S-3 High Power Turn-up Pad	Todd		
4.0	MISCELLANEOUS			
4.1	Proposed Construction Update	Tim		
4.2	Tier II Update	Sarah		
4.3	Institutional Controls Implementation Update	Tim		
4.4	RCRA Activities			
4.5	Exit Strategy Review	Mark		
4.6	BOA Contracts Update	Tim/Adrienne		

Item	Description	Presenter	Time	Objective
4.7	CNO Award			
4.8	RAB Meeting in July – Discuss presentation			
5.0	MEETING CLOSING			
5.1	Review Meeting Consensus Items			
5.2	Review Meeting Understandings			
5.3	Review Action Items			
5.4	Next Meeting Proposed Agenda			
5.5	Set Dates for Future Meetings			
5.6	Set the Next Meeting Location, Duration, and Roles			
5.7	Facilitator Plus/Deltas			

**NAS Jacksonville Team Agenda
Jacksonville, Florida
September 17-18, 2013**

**Chair – Adrienne Wilson
Gate/Timekeeper – Jennifer Conklin
Scribe – Julie Johnson**

Item	Description	Presenter	Time	Objective
1.0	TEAM MEETING AND INTRODUCTIONS	Team		
1.1	Team member Greeting, Introductions, and Check-in; Guest Introductions	Team		
1.2	Assignment of Team Meeting Organization: Chair, Gate/Time Keeper, Scribe, and Prioritize Agenda.	Chair		
1.3	Read Team Ground Rules	Team		
2.0	INITIAL AGENDA ITEMS FOR EACH MEETING			
2.1	Review, submit revisions to, and reach consensus on previous meeting minutes	Team		
2.2	Reports on assigned action items and parking lot items	Team		
2.3	NAVFAC presents current budget execution plan	Adrienne		
3.0	AGENDA			
3.1	Schedules/SCAP/Exit Strategy/FDEP Document Tracker/FFA SMP/Petroleum SMP, FFA Review	Team		
	3.1.1 Team Development –NIRIS Public Website Training	Bob Fisher	3:30 Day 1	
3.2	OU 1 – LTM Update and Landfill Maintenance			
3.3	OU 3			
	3.3.1 Groundwater Model Update	Donald		
	3.3.2 Vapor Intrusion Update	Eric		
	3.3.3 ESTCP Update- EK Bio Update	Geosyntec	2:30 Day 1	
3.4	OU 6 – PSC 52 – Hangar 1000	Donald		
3.5	OU 7 – PSC 46 DRMO update	Eric		
3.6	OU 8 – PSC 47 – Pesticide Shop	Eric		
3.7	OU 9 – PSC 45-Building 200 Wash Rack (groundwater only)			
3.8	OU 10 - MRP Sites	Todd/Mark Traxler	Day 2	
3.9	OU 11 - PSC Sites with LUCs and no RODs and PSC 8/55 –			
3.10	Petroleum Sites			
	Gas Hill	Eric		
	Hawkins			
	PCA 25			
	Kemen Test Cell			
	Firefighter Training Facility (OU 2)			
3.11	PSC 38 – Torpedo Rework Facility	Alan		
3.12	PSC 56 – NEX Gas Station			
3.13	PSC 57 – S-3 High Power Turn-up Pad	Todd		
4.0	MISCELLANEOUS			
4.1	Proposed Construction Update	Tim		
4.2	Tier II Update	Sarah		
4.3	Institutional Controls Implementation Update	Tim		
4.4	RCRA Activities			

Item	Description	Presenter	Time	Objective
4.5	Exit Strategy Review	Mark		
4.6	BOA Contracts Update	Tim/Adrienne		
4.7	CNO Award	Adrienne/Tim		
5.0	MEETING CLOSING			
5.1	Review Meeting Consensus Items			
5.2	Review Meeting Understandings			
5.3	Review Action Items			
5.4	Next Meeting Proposed Agenda			
5.5	Set Dates for Future Meetings			
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5.7	Facilitator Plus/Deltas			



Document Reviews Underway

FEDERAL FACILITIES DATABASE

List of document reviews within the Federal Facilities database that have no value in the "Date Out" column and no explanation indicated in the "Explanation" column.

JACKSONVILLE NAVAL AIR STATION (NAS JAX)

52 Document Reviews Underway

Document Title	Date In	Date Out	Explanation	BC/RPM	Comments
Draft Rev 2, March 2013 Quarterly Groundwater Monitoring Report, PCA 25, UST Site 119, July 12, 2013	7/16/2013			JRC	w/CD
Draft Rev 2, November 2012 Quarterly Groundwater Monitoring Report, PCA 25, UST Site 119, July 12, 2013	7/16/2013			JRC	w/CD
Draft Remedial Investigation PSC 38-Torpedo Rework Area, June 27, 2013	6/28/2013			JRC	w/CD
Proposed Well Locations and Construction Information for NAS JAX Bioremediation Pilot Study, June 3, 2013	6/7/2013			JRC	E-Mail & E-Mail Attachment Sent Separately
Draft PSC 55 - Response to Comments & Site Investigation Redlined Report, April 24, 2013	4/25/2013			DPG/JC	
Site Investigation Report, PSC 55, April 24, 2013	4/25/2013			DPG/JC	w/CD
Draft Interim Remedial Action Completion Report, Munitions Removal Actions, April 18, 2013	4/19/2013			DPG	w/CD
Draft Annual Monitored Natural Attenuation Evaluation Report, OU 6-Hangar 1000 (Year 3-April 16-17, 2012 & October 16-17, 2012, March 27, 2013	4/1/2013			DPG	w/CD
Long Term Groundwater Monitoring Report - Hangar 1000, OU 6, March 27, 2013	4/1/2013			DPG	Ltrs w/CD
Draft Revision 2 Groundwater Monitoring Report, PCA 16-Hawkins 103rd Street Property, March 21, 2013	3/26/2013			DPG	w/CD
Draft UFP SAP, Groundwater Monitoring, PCA 4-Gas Hill Fuel Farm, Rev 2, January 10, 2013	1/15/2013			DPG	w/CD
Draft Annual Groundwater Monitoring Rpt, OU 1, PSCs 26&27, Revision 2, January 9, 2013	1/11/2013			DPG	w/CD
Final FFA Site Management Plan CY2013 & Response to Comments, December 3, 2012	12/5/2012			DPG	w/CD

JACKSONVILLE NAVAL AIR STATION (NAS JAX)

52 Document Reviews Underway

Document Title	Date In	Date Out	Explanation	BC/RPM	Comments
Draft 2002 Annual Groundwater Monitoring Report, OU 5, PSC 51, October 23, 2012	10/26/2012			DPG	w/CD
Land Use Control Remedial Design, OU 7-DRMO, Revision 1, October 19, 2012	10/24/2012			DPG	w/CD
Draft Sampling & Analysis Plan, FSP&QAPP, Annual Monitoring, OU 5, PSC 51, OU 1, PSCs 26 & 27, and OU 3 - Area A, Rev 2, October 3, 2012	10/9/2012			DPG	
Response to Comments - Draft Site Assessment Report, PCA 25, UST Site 119 Fuel Transfer Sump, September 12, 2012	9/12/2012			DPG	
Final 2013 Federal Facilities Agreement Site Management Plan Amendment, August 28, 2012	9/11/2012			DPG	
B101S Groundwater Monitoring Results, June 2012, (July 13, 2012)	7/27/2012			DPG	w/CD
Draft Final Sampling & Analysis Plan (FSP & QAPP), April 2012, Groundwater Monitoring - Petroleum Contaminated Area (PCA) 15, Fire Fighting Training Facility, (April 25, 2012)	4/27/2012			DPG	w/CD
Draft Land Use Control Remedial Design OU 3, (January 30, 2012)	2/3/2012			DPG	w/CD
Draft Land Use Control Remedial Design OU 4 - Casa Linda Lake, (January 30, 2012)	2/3/2012			DPG	w/CD
Draft Land Use Control Remedial Design OU 7, (January 30, 2012)	2/3/2012			DPG	w/CD
Final Land Use Control Remedial Design OU 1, (January 19, 2012)	2/1/2012			DPG	
Final Annual Monitored Natural Attenuation Evaluation Report, OU 6-Hangar 1000, (October 2011)	10/11/2011			DPG	w/CD
Final 2011 Annual Groundwater Monitoring Report - Potential Source of Contamination 47, Revision 01, (October 2011)	10/6/2011			DPG	w/CD
Annual Sampling Report - Long-Term Monitoring Program, OU 3, Area A, (May 31, 2011)	7/12/2011			DPG	w/CD
Work Plan MR for Soil/Sediment Remediation at OU 7, PSC 46 - Defense Reutilization & Marketing Office, Revision 01, (May 2011)	5/19/2011			DPG	
Annual Monitoring Report - Long-Term Monitoring Program Potential Source of Contamination 51, (October 2010)	5/9/2011			DPG	Received By E-Mail
January 2011 Biannual Monitoring Report OU 3, Site 11 Area B & Site 15 Area G	4/26/2011			DPG	w/CD

JACKSONVILLE NAVAL AIR STATION (NAS JAX)

52 Document Reviews Underway

Document Title	Date In	Date Out	Explanation	BC/RPM	Comments
Munitions Response Site Prioritization Protocol Work Sheets for Munitions Response Program Sites	10/1/2010			DPG	
Site Inspection Report MRP Site Inspection at Former Machine Gun Range Complex, (September 2010)	10/1/2010			DPG	w/2 CDs
Annual Groundwater Monitoring Report - Potential Source of Contamination 47, Revision 00, (June 2010)	6/8/2010			DPG	w/CD
Monitored Natural Attenuation Plan Petroleum Contaminated Area 4-- Gas Hill Fuel Farm, Revision 02	4/29/2010			DPG	w/CD
Sampling Event Report for OU 1 (November 2008)	11/25/2008			DPG	CD w/HASP, SAP, SERs for Additional Assess. @ OU 1 & 3
Final Sampling & Analysis Plan for Groundwater Assessment Upgradient of Building 106 & Area C & Soil Assessment at Building 106, OU 3	11/3/2008			DPG	w/CD
Smoke and Dye Tracer Testing and Sampling of the Eastern Storm Sewer at OU 3, Areas F & G	7/24/2008			DPG	Received by E-mail
PSC 47 Interim Remedial Action-Concrete Placement, Contract N62467-01-D-0331, CTO #0064, Revision No. 03	3/25/2008			DPG	E-Mail
2007 Annual Monitoring Report Storm Sever Sampling OU#3 Areas F & G, Rev. 0	12/4/2007			DG	report with cd
Remedial Action Work Plan Soil/Sediment Remediation and Groundwater Sampling OU#7 PSC 46 Defense Reutilization and Marketing office, Rev.0	10/17/2007			DG	rec. by email
Final Land Use Control Remedial Design for Hangar 1000	10/15/2007			DG	report no cd
Remedial Action Work Plan Soil/Sediment Remediation and Groundwater Sampling at OU#7 and Maintenance office naval air Station Jacksonville, Rev. 0	10/12/2007			DG	report with cd
Final Treatability Study Report for Petroleum Contaminated Area (PCA) 16 (hawkins 103rd. Street Property)	8/20/2007			DG	report with cd
Final Report Annual Long Term monitoring (LTM) Report, Jan. 5-6, 2007 Sampling Event for Area B (PSC 11) and Area G (PSC 15) OU#3	3/5/2007			JHC	report with cd
Final Land Use Control Remedial Design for OU#3 Area A	2/8/2007			JHC	report with cd
Draft Land Use Control Remedial Design OU#3 Area A, Rev. 0	12/27/2006			JHC	report no cd
Final Removal Action Completion Report Gas Hill Fuel Farm Tanks Demolition and Disposal	12/18/2006			JHC	report with cd

JACKSONVILLE NAVAL AIR STATION (NAS JAX)*52 Document Reviews Underway*

Document Title	Date In	Date Out	Explanation	BC/RPM	Comments
Remedial Investigation/Feasibility Study Sampling and Analysis Plan Addendum for Potential Source of Contamination 47	11/30/2006			JHC	report no cd
Final Land Use Control Remedial Design at OU#5 PSC 51	11/27/2006			JHC	report with cd
Final Removal Action Completion Report Gas Hill	10/16/2006			JHC	Report with cd
Closure Assessment report for underground storage tanks 880-6 and 7 at bldg. 429	7/19/2006			JHC	report no cd
SWMU Report for the kemenTest Cell	8/26/2004			JHC	no Cd



Facility Document Reviews

FEDERAL FACILITIES DATABASE

List of document reviews within the Federal Facilities database that were previously tracked in the DODTRS.xls spreadsheet. The documents are grouped by Facility and sorted with the most recent documents first.

JACKSONVILLE NAVAL AIR STATION (NAS JAX)

1038 Document Reviews

Document Title	Date In	Date Out	Explanation	BC/RPM	Comments
Draft Rev 2, March 2013 Quarterly Groundwater Monitoring Report, PCA 25, UST Site 119, July 12, 2013	7/16/2013			JRC	w/CD
Draft Rev 2, November 2012 Quarterly Groundwater Monitoring Report, PCA 25, UST Site 119, July 12, 2013	7/16/2013			JRC	w/CD
Draft Remedial Investigation PSC 38-Torpedo Rework Area, June 27, 2013	6/28/2013			JRC	w/CD
Phase 3 Vapor Intrusion Investigation, OU 3, MNA Investigation & Annual Groundwater Sampling, PSC 47, PSC 45 Soil Excavation Base Wide Well Abandonment & Various Systems Decommissioning/Removal Actions, June 14, 2013	6/17/2013	7/11/2013		JRC	
Proposed Well Locations and Construction Information for NAS JAX Bioremediation Pilot Study, June 3, 2013	6/7/2013			JRC	E-Mail & E-Mail Attachment Sent Separately
Draft Revision 2, Sampling & Analysis Plan, FSP & QAPP, May 2013, Annual Monitoring, OU 2-PSC 48, May 30, 2013	5/31/2013	7/8/2013		JRC	w/CD (Changed OU3 & 5/30/2013)
Draft Remedial Investigation Report, PSC 45, Rev 1, May 2, 2013	5/6/2013	6/4/2013		DG/JRC	w/CD
PSC 45 RI, Rev 1, Redline & Response to Comments, April 24, 2013	5/6/2013	6/4/2013		DG/JRC	
Draft PSC 55 - Response to Comments & Site Investigation Redlined Report, April 24, 2013	4/25/2013			DPG/JC	
Site Investigation Report, PSC 55, April 24, 2013	4/25/2013			DPG/JC	w/CD
Draft Interim Remedial Action Completion Report, Munitions Removal Actions, April 18, 2013	4/19/2013			DPG	w/CD
Tech Memo-Groundwater Sampling & Analysis, OU 7, PSC 46-Former Defense Reutilization & Marketing Office (DRMO), April 4, 2013	4/15/2013	6/24/2013		DPG	Received By E-Mail
Draft Annual Monitored Natural Attenuation Evaluation Report, OU 6-Hangar 1000 (Year 3-April 16-17, 2012 & October 16-17, 2012, March 27, 2013	4/1/2013			DPG	w/CD

JACKSONVILLE NAVAL AIR STATION (NAS JAX)

Document Title	Date In	Date Out	Explanation	BC/RPM	Comments
Final Semiannual Monitored Natural Attenuation Evaluation Report, April 2012, OU 6-Hangar 1000, March 28, 2013	4/1/2013	4/4/2013		DPG	
Long Term Groundwater Monitoring Report - Hangar 1000, OU 6, March 27, 2013	4/1/2013			DPG	Ltrs w/CD
Draft Revision 2 Groundwater Monitoring Report, PCA 16-Hawkins 103rd Street Property, March 21, 2013	3/26/2013			DPG	w/CD
Final Project Completion Report, Soil/Sediment Remediation & Groundwater Sampling, OU 7, PSC 46-Defense Reutilization & Marketing Office, March 18, 2013	3/19/2013	4/4/2013		DPG	
Draft UFP Sampling & Analysis Plan Amendment, MRP, RI - OU 10, UXO's 2, 4 & 6, March 18, 2013	3/18/2013	7/10/2013		DPG	w/CD
Final Remedial Action Completion Report, Soil/Sediment Remediation & Groundwater Sampling - OU 7, PSC 46-Defense Reutilization & Marketing Office, March 8, 2013	3/12/2013	4/4/2013		DPG	w/CD
Phase II Vapor Intrusion Investigation Report, OU 3, Revision 01, March 2013, March 8, 2013	3/11/2013	6/17/2013		DPG	w/CD
Polishing Pond Groundwater Monitoring Results, January 2013, February 8, 2013	3/1/2013		NRR	DPG	w/CD, RCRA
2012 Annual Groundwater Monitoring Report, PSC 47-Pesticide Shop, February 20, 2013	2/22/2013	6/12/2013		DPG	w/CD
2012 Annual Groundwater Monitoring Report, PCA 4-Gas Hill Fuel Farm, Rev 01, February 7, 2013	2/8/2013	6/25/2013		DPG	w/CD
Draft SAP, Site Inspection, PSC 57, S-3 High Power Turn-Up Pad, February 4, 2013	2/6/2013	3/25/2013		DPG	w/CD - Ltr has Rec Date 2/3/2013
Final SAP, FSP & QAPP, November 2012, Groundwater Monitoring - Former Wastewater Polishing Pond, January 16, 2012	1/24/2013		NRR	DPG	w/CD, RCRA
Draft 2012 Annual Groundwater Monitoring Report, OU 3, Area A, Rev 2, January 8, 2013	1/15/2013	3/11/2013		DPG	w/CD
Draft September 2012 Semi-Annual Groundwater Monitoring Report, PCA 15-Fire Fighter Training Facility, Rev 2, January 10, 2013	1/15/2013	3/12/2013		DPG	w/CD
Draft UFP SAP, Groundwater Monitoring, PCA 4-Gas Hill Fuel Farm, Rev 2, January 10, 2013	1/15/2013			DPG	w/CD
Draft August 2012 Quarterly Groundwater Monitoring Report, Rev 2 - Petroleum Contaminated Area 25 UST Site 119, January 8, 2013	1/14/2013	3/11/2013		DPG	w/CD

JACKSONVILLE NAVAL AIR STATION (NAS JAX)

Document Title	Date In	Date Out	Explanation	BC/RPM	Comments
Draft September 2012 Semi-Annual Groundwater Monitoring Report, Rev 2 - Petroleum Contaminated Area 4 Gas Hill Fuel Fm, January 8, 2013	1/14/2013	3/11/2013		DPG	w/CD
Draft Annual Groundwater Monitoring Rpt, OU 1, PSCs 26&27, Revision 2, January 9, 2013	1/11/2013			DPG	w/CD
Draft Remedial Investigation Report, PSC 45, OU 9, Building 200 Washrack, December 19, 2012	12/27/2012	3/11/2013		DPG	w/CD
FL6170024412, Operating/Postclosure/Corrective Action Permit 0072437-HO-010, RCRA Notification of the Discovery of a New SWMU	12/27/2012	1/18/2013		DPG	E-Mail Dated 12/27/2012
Final Remedial Investigation UFP SAP OU 10 MRP Sites, December 3, 2012	12/6/2012		NRR	DPG	Ltrs/Signature Pg w/CD
Final FFA Site Management Plan CY2013 & Response to Comments, December 3, 2012	12/5/2012			DPG	w/CD
Draft Final Tier II Sampling & Analysis Plan, MRP, Remedial Investigation, Former Machine Gun Range Complex, November 2012,	11/9/2012	11/16/2012		DPG	
Final Tier II SAP for Hangar 1000 (Replacement Pages & Living CD for CTO JM66 w/Final Version & Other Documents Submitted Under this CTO	10/29/2012		NRR	DPG	Transmittal, 3 Maps & 2 CDs
Draft 2002 Annual Groundwater Monitoring Report, OU 5, PSC 51, October 23, 2012	10/26/2012			DPG	w/CD
Land Use Control Remedial Design, OU 7-DRMO, Revision 1, October 19, 2012	10/24/2012			DPG	w/CD
Revised Redline/Strikeout Verson & Revised Responses to David Grabka's Original Comments	10/15/2012	11/5/2012		DPG	
Draft Sampling & Analysis Plan, FSP&QAPP, Annual Monitoring, OU 5, PSC 51, OU 1, PSCs 26 & 27, and OU 3 - Area A, Rev 2, October 3, 2012	10/9/2012			DPG	
Final UFP SAP, Groundwater Monitoring PCA 25, UST Site 119-Fuel Transfer Sump	9/27/2012	11/1/2012		DPG	
Response to Comments - Draft Site Assessment Report, PCA 25, UST Site 119 Fuel Transfer Sump, September 12, 2012	9/12/2012			DPG	
Site Assessment Report, PCA 25, UST Site 119 Fuel Transfer Sump, September 10, 2012	9/12/2012	11/1/2012		DPG	w/CD
Final 2013 Federal Facilities Agreement Site Management Plan Amendment, August 28, 2012	9/11/2012			DPG	

JACKSONVILLE NAVAL AIR STATION (NAS JAX)

Document Title	Date In	Date Out	Explanation	BC/RPM	Comments
Draft Tier II Sampling & Analysis Plan, Munitions Response Program, Remedial Investigation of Former Machine Gun Range Complex, April 2012	9/9/2012	11/5/2012		DPG	
Draft Tier II Sampling & Analysis Plan (FSP & QAPP), August 2012, MRP - Remedial Investigation of Former Machine Gun Range Complex	9/6/2012	11/5/2012		DPG	
Response to Comments from Partnering Team on Draft Draft Tier II Sampling & Analysis Plan (FSP & QAPP), August 2012, MRP - Remedial Investigation of Former Machine Gun Range Compl	9/6/2012	11/5/2012		DPG	
Draft Site Investigation Report PSC 55, August 2012	9/4/2012	10/11/2012		DPG	
B101S Groundwater Monitoring Results, June 2012, (July 13, 2012)	7/27/2012			DPG	w/CD
Draft Aite Assessment Report for Petroleum Contaminated Area 25, UST Site 119 Fuel Transfer Sump, July 2, 2012	7/19/2012	7/30/2012		DPG	
Draft Rev 2, Sampling & Analysis Plan, FSP&QAPP, July 2012, Groundwater Monitoring-PCA 25, UST Site 119 Fuel Transfer Sump	7/10/2012	7/16/2012		DPG	w/CD
Draft Semiannual Monitored Natural Attenuation Evaluation Report OU 6, Hangar 1000, July 3, 2012	7/5/2012	3/11/2013		DPG	
Draft Work Plan & Draft UFPSAP, OU 3 Phase II - Vapor Intrusion Evaluation, Response to Comments, May 2012 (May 23, 2012)	5/25/2012	7/19/2012		DPG	w/CD
Draft After Action Report (AAR), MR for Soil/Sediment Remediation, OU7, PSC 46 - Defense Reutilization & Marketing Office, Revision 00, January 2012, (May 2, 2012)	5/8/2012	3/11/2013		DPG	w/CD
Draft Final Sampling & Analysis Plan (FSP & QAPP), April 2012, Groundwater Monitoring - Petroleum Contaminated Area (PCA) 15, Fire Fighting Training Facility, (April 25, 2012)	4/27/2012			DPG	w/CD
Draft Remedial Action Completion Report, Soil/Sediment Remediation & Groundwater Sampling OU 7, PSC 46 - Defense Reutilization & Marketing Office, Rev 01, April 2012, (April 19, 2012)	4/24/2012	3/11/2013		DPG	w/CD
Draft Tier II Sampling & Analysis Plan MRP, Remedial Investigation - Former Machine Gun Range Complex, April 2012, (April 12, 2012)	4/12/2012	7/9/2012		DPG	w/CD
January 2012 RCRA Groundwater Sampling Report - Polishing Pond, March 2012, (April 9, 2012)	4/11/2012		NRR	DPG	w/CD -- RCRA
Semi-Annual Groundwater Monitoring Report - Hangar 101S, December 2011 Sampling Event, (March 27, 2012)	3/30/2012		NRR	DPG	w/CD -- RCRA
OU 2 - Petroleum Contaminated Area 15, Former Fire Fighter Training Area, January 2012 Sampling Event Letter Report, March 23, 2012	3/26/2012	8/22/2012		DPG	w/CD

JACKSONVILLE NAVAL AIR STATION (NAS JAX)

Document Title	Date In	Date Out	Explanation	BC/RPM	Comments
Draft OU 3, Phase II Vapor Intrusion, Evaluation Work Plan, Revision 02, March 2012, (March 22, 2012)	3/23/2012	4/12/2012		DPG	w/CD
Final Tier II SAP - (PSC 52) Hangar 1000, Monitored Natural Attenuation Sampling, OU 6, March 2012, (March 7, 2012)	3/9/2012	3/8/2012		DPG	w/CD
Draft Land Use Control Remedial Design OU 3, (January 30, 2012)	2/3/2012			DPG	w/CD
Draft Land Use Control Remedial Design OU 4 - Casa Linda Lake, (January 30, 2012)	2/3/2012			DPG	w/CD
Draft Land Use Control Remedial Design OU 7, (January 30, 2012)	2/3/2012			DPG	w/CD
Final Land Use Control Remedial Design OU 1, (January 19, 2012)	2/1/2012			DPG	
Final Sampling & Analysis Plan (FSP & QAPP) - Phase I Remedial Investigation, PSC 38 & Responses to Additional Comments, Revision 3, (January 24, 2012)	2/1/2012		NRR	DPG	w/2 CDs
Final Sampling & Analysis Plan (FSP & QAPP), Phase I Remedial Investigation, PSC 38, Revision 3, (January 2012)	1/23/2012	1/23/2012		DPG	Received By E-Mail
Draft Project Completion Report-Soil/Sediment Remediation & Groundwater Sampling OU 7 - PSC 46-Defense Reutilization & Marketing Office, Revision 00, (January 2012)	1/11/2012	3/11/2013		DPG	w/CD
Final Sampling & Analysis Plan (Field Sampling Plan & Quality Assurance Project Plan) - Phase I Remedial Investigation - Potential Source of Contamination 38--Torpedo Rework Facility, (December 2011)	12/14/2011	1/13/2012		DPG	w/CD
Final Summary Form for Final Five-Year Review - OUs 1, 2, 3, 4, 5, 6, 7 & 8, Revision 2, (December 12, 2011)	12/14/2011		NRR	DPG	w/CD
OU 2 - Petroleum Contaminated Area 15 - Former Fire Fighter Training Area, July 2011 Sampling Event Letter Report, (December 2, 2011)	12/5/2011	3/30/2012		DPG	
Site Assessment Report - NEX Gas Station - Former Underground Storage Tanks 880-6 & 880-7, (December 2011)	12/2/2011	2/28/2012		DPG	w/CD
Draft Tier II Sampling & Analysis Plan - Monitored Natural Attenuation Sampling OU 6 (Potential Source of Contamination 52, Hangar 1000), (October 2011)	10/26/2011	2/20/2012		DPG	
Health & Safety Plan for Monitored Natural Attenuation Sampling - Hangar 1000, (October 2011)	10/13/2011		NRR	DPG	
Final Annual Monitored Natural Attenuation Evaluation Report, OU 6- Hangar 1000, (October 2011)	10/11/2011			DPG	w/CD

NAS Jacksonville Partnering Team Document Review Status

Date of Status: 18-Sep-2013

No.	Document Name	Distribution (email or hardcopy)	Date Submitted (or to be submitted)	Deadline for Comments of draft (45 days to comment)	FFA Deadline for Comments of draft (90 days to comment)	Navy Deadline for Redline & RTC& draft final (45 days)	Navy Deadline for draft final submittal (60 days)	Navy Deadline for Extension Letter (10 days prior to deadline for Final or 20 days after DF submittal)	Deadline for Final letter of approval (30 days) **	Comments Received from				
										FDEP	EPA	NAVFAC SE RPM	NAVFAC SE Chemist	NAS JAX
Tetra Tech Documents														
1	Draft OU 4 LUC RD (email to Pete Dao) Sent hardcopy 2/2/12 CTO 19 AND 154	email 12/30/11 hard copy (2/2/12)	30-Dec-2011								X	X	NA	X
2	Draft OU 3 LUC RD CTO 19 AND CTO 154	hard copy	30-Jan-2012								X	X	NA	X
3	Final Annual Monitoring Report - Hangar 1000 - RTC from team CTO 152A	hard copy	10-Oct-2011									X	NA	X
4	Draft Redline Rev. 1 Potential Source of Contamination (PSC) 55 SI Report and Response to Comments CTO JM19	hard copy	24-Apr-2013										NA	
5	Draft-Fnl Response to Comments and Redline Site Assessment Report for PCA 25 (CTO 0003) w/ MNA Work Plan CTO 0003	hard copy	10-Sep-2012									NA		
6	Draft-Final Rev. 2 Potential Source of Contamination (PSC) 45 RI Report CTO 112	hard copy	6-Jun-2013	4-Feb-2013	21-Mar-2013	5-May-2013	20-May-2013	9-Jun-2013	9-Jul-2013	X	X	X	NA	X
7	Draft Annual Monitored Natural Attenuation Evaluation Report for Hangar 1000 CTO JM66	hard copy	3/11/13 (Navy only) 3/28/2013 (team)								X	X	NA	X
8	Potential Source of Contamination (PSC) 38 RI/FS Report CTO JM19	hard copy	27-Jun-2013	30-Jul-2013	26-Sep-2013	10-Nov-2013	25-Nov-2013						NA	
CH2MHILL Documents														
1	Draft Final Building 106 AS/SVE System Decommissioning Work Plan	email	5-Jul-2011	NA	NA	NA	NA	NA	NA			X	X	X
2	Draft Final VI Work Plan	NIRIS and HC replacement pages	24-May-2012		N/A	N/A	N/A	N/A	N/A	X	X	N/A	N/A	N/A
3	Draft Final VI UFP-SAP	NIRIS and HC replacement pages	24-May-2012		N/A	N/A	N/A	N/A	N/A	X	X	N/A	N/A	N/A
4	Draft Final LUC RD - DRMO	hard copy	30-Jan-2012	NA	NA	NA	NA	NA	NA			X	X	X
5	DRMO Letter to EPD Stating Start Date of Remedy	email	March? Letter Prepared by HILL, to be submitted by Navy	NA	NA	NA	NA	NA	NA	NA		X	X	X
6	Draft Final Pesticide Shop Work Plan Revision XX (JM40)	email	18-Dec-2012	NA	NA	NA	NA	NA	NA			X	X	X
7	Draft Final Building 106 AS/SVE System Decommissioning Construction Completion Report	hard copy	30-Sep-2012	N/A	N/A	N/A	N/A	N/A	N/A					
8	Draft 2012 Gas Hill Annual Groundwater Monitoring Report	hard copy	5-Nov-2012	N/A	N/A	N/A	N/A	N/A	N/A			X	N/A	X
9	Draft 2012 Pesticide Shop Annual Groundwater Monitoring Report	hard copy	18-Dec-2012	N/A	N/A	N/A	N/A	N/A	N/A			X	N/A	X
10	Draft OU3 Vapor Intrusion Evaluation Report	hard copy	16-Nov-2012	N/A	N/A	N/A	N/A	N/A	N/A			X	N/A	X
11	Draft DRMO RACR	hard copy	19-Apr-2012	N/A	N/A	N/A	N/A	N/A	N/A	X	X	X	N/A	X
12	Draft DRMO Project Completion Report	hard copy	9-Jan-2012	N/A	N/A	N/A	N/A	N/A	N/A	X	X	X	N/A	X
13	Draft DRMO After Action Report	hard copy	9-Jan-2012	N/A	N/A	N/A	N/A	N/A	N/A	X	X	X	N/A	X
14	Draft, Rev 1 2012 Gas Hill Annual Groundwater Monitoring Report	hard copy	7-Feb-2013	N/A	N/A	N/A	N/A	N/A	N/A	X	X	N/A	N/A	N/A
15	Draft, Rev 1 2012 Pesticide Shop Annual Groundwater Monitoring Report	hard copy	21-Feb-2013	N/A	N/A	N/A	N/A	N/A	N/A	X	X	N/A	N/A	N/A
16	Draft, Rev 1 OU3 Vapor Intrusion Evaluation Report	hard copy	7-Mar-2013	N/A	N/A	N/A	N/A	N/A	N/A	X	X	N/A	N/A	N/A
17	Final DRMO Remedial Action Completion Report	hard copy	8-Mar-2013	N/A	N/A	N/A	N/A	N/A	N/A				N/A	
18	Final DRMO Project Completion Report	hard copy	22-Mar-2013	N/A	N/A	N/A	N/A	N/A	N/A				N/A	

Resolution Consultants Documents														
1	Draft PSC 57 SI UFP-SAP CTO JM19	hard copy	5-Feb-2013	22-Mar-2013	6-May-2013	20-Jun-2013	5-Jul-2013	26-Jul-2013	4-Aug-2013	X	X	X	X	X
2	Draft UXO 2, 4, & 6 RI UFP-SAP CTO JM08	hard copy	15-Mar-2013	29-Apr-2013	13-Jun-2013	28-Jul-2013	12-Aug-2013	1-Sep-2013	11-Sep-2013		X	X	X	X

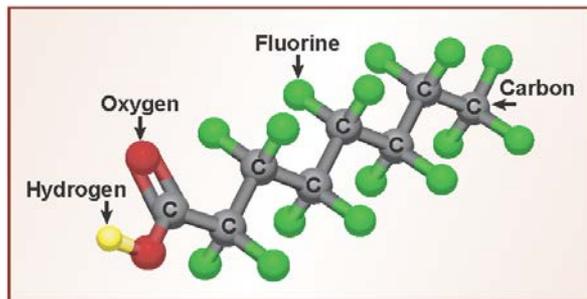
X = Comments have been received from this reviewer
 Blank = No comments have been received from this reviewer
 Shaded - Documents to be submitted in the next 30 days.
 NA = no review required by this reviewer.

** The regulators will issue a letter approving the draft-final as final if no dispute resolution.

FFA Review time restrictions:

- The draft = 90 days to comment,
 - Within 60 days the Navy shall submit red line document and the response to comments, then submit the draft final by the end of the 60 days,
 - There are 30 days to final or dispute resolution from issuance of draft final.
 - The regulators will issue a letter approving the draft-final as final if no dispute resolution.
 - Adrienne will include dates in her transmittal letters.
- Source: NAS Jacksonville Partnering Minutes March 2012.

Perfluorinated Compounds (PFCs): Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoic Acid (PFOA)



PFOA, also known as C8, has 8 carbons.

Mike Singletary, P.E.
NAVFAC Southeast

What are PFCs?

- **Perfluorinated compounds (PFCs) used extensively in a variety of products and industries over the last 50 years**
- **Used in manufacture of Teflon, other non-stick consumer products, and stain resistant coatings**
- **Mist-suppressant in electro-plating operations**
- **Food manufacturing**
- **Photographic industry**
- **Personal care products**
- ***Aqueous film-forming foams (AFFF) in fire suppressants***



PFCs (Cont.)



- **PFCs bioaccumulate and pose human health concerns**
- **Widespread exposure to humans**
- **Insufficient information to properly and accurately assess human health risks at this time**
- **Water soluble, non-volatile, and persistent in the environment**
- **Limited biodegradation potential for PFOS/PFOA**
- **Longer carbon chain PFCs more susceptible to sorption on aquifer sediments**

Types of PFCs in AFFF



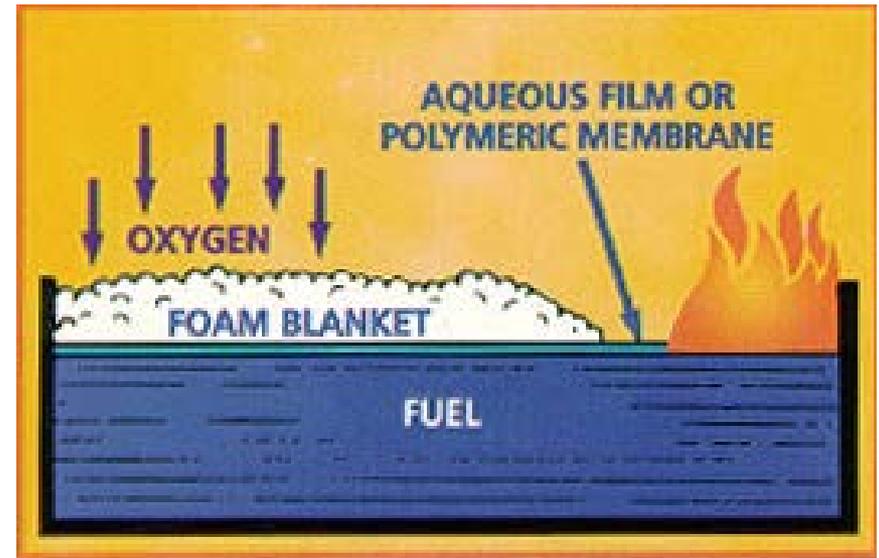
- **Perfluorosulfonates (PFSA):**
fully fluorinated carbon chains
with sulfonate end group (e.g.
PFOS)
- **Perfluorocarboxylates (PFCAs):**
fully fluorinated carbon chains
with carboxylate end group (e.g.
PFOA)
- **Fluorotelomer Sulfonates (FTS):**
fully fluorinated carbon chain
connected to alkyl chain with
sulfonate end group (e.g. 6:2 FTS)



AFFFs used for Fire Training Purposes



- **Complex mixtures of:**
 - Fluorocarbon surfactants
 - Hydrocarbon surfactants
 - Solvents
- **Designed to spontaneously spread over hydrocarbon-fuel fires to extinguish flames and to prevent re-ignition**
- **From Dr. Jennifer Field, Oregon State University, SERDP No. 11 ER-02-025:**
 - “Little is known about the chemistry of AFFF beyond that it is a complex mixture of fluorochemicals and surfactants that results in the generation of persistent fluorochemicals from partially-fluorinated precursors.”



Provisional and Emerging Regulatory Criteria



	Groundwater (µg/L)		Soil (mg/kg)	
	PFOA	PFOS	PFOA	PFOS
EPA Provisional Health Advisory (2009)	0.4	0.2	--	--
New Jersey	0.04	--	--	--
Minnesota	0.3	0.3	--	--
North Carolina (draft)	0.9 – 1.6	--	--	--
Maine (draft)	0.1	0.06	--	--
EPA Regional Screening Level	--	--	--	--
Residential soil screening level*	--	--	12	4.9
Industrial soil screening level*	--	--	409	164

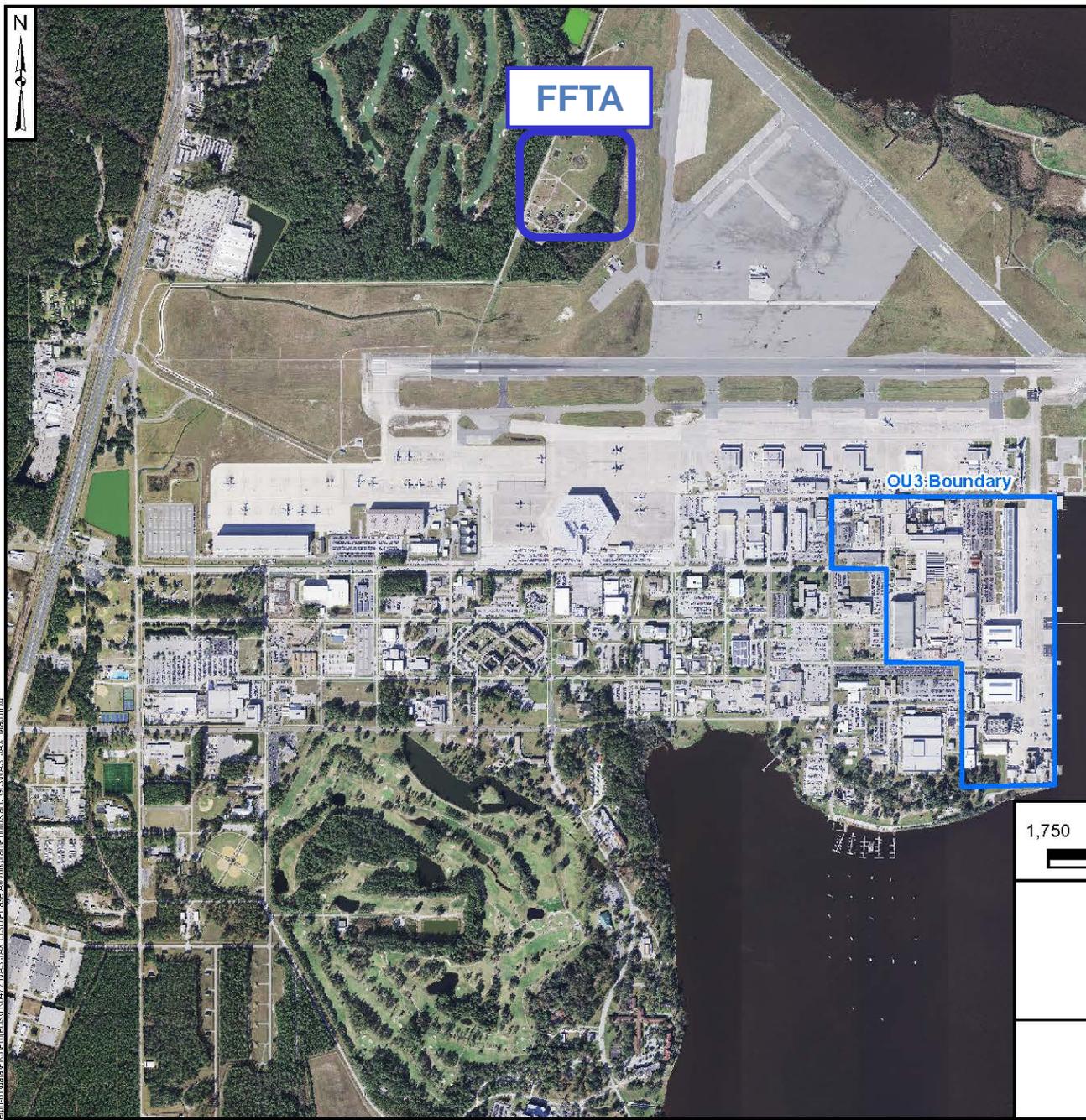
* Values calculated using the reference doses derived by the EPA in their provisional health advisory (2009) and the exposure assumptions used to calculate EPA Regional Screening Levels.

-- Not available

Lack of Remediation Technologies



- **No proven technology for *in situ* treatment of PFCs**
- **Groundwater extraction followed by GAC absorption can be used for *plume containment***
 - Other potential ex situ technologies include ion exchange, nanofiltration, and reverse osmosis
- **Basic research on *in situ* treatment technologies currently underway (SERDP, AFCEC)**
 - Anaerobic and aerobic bioremediation
 - Mycoremediation (fungi)
 - In situ chemical oxidation (persulfate, advanced oxidation processes)



Site Location

OU3, Former Building 106, NAS Jacksonville

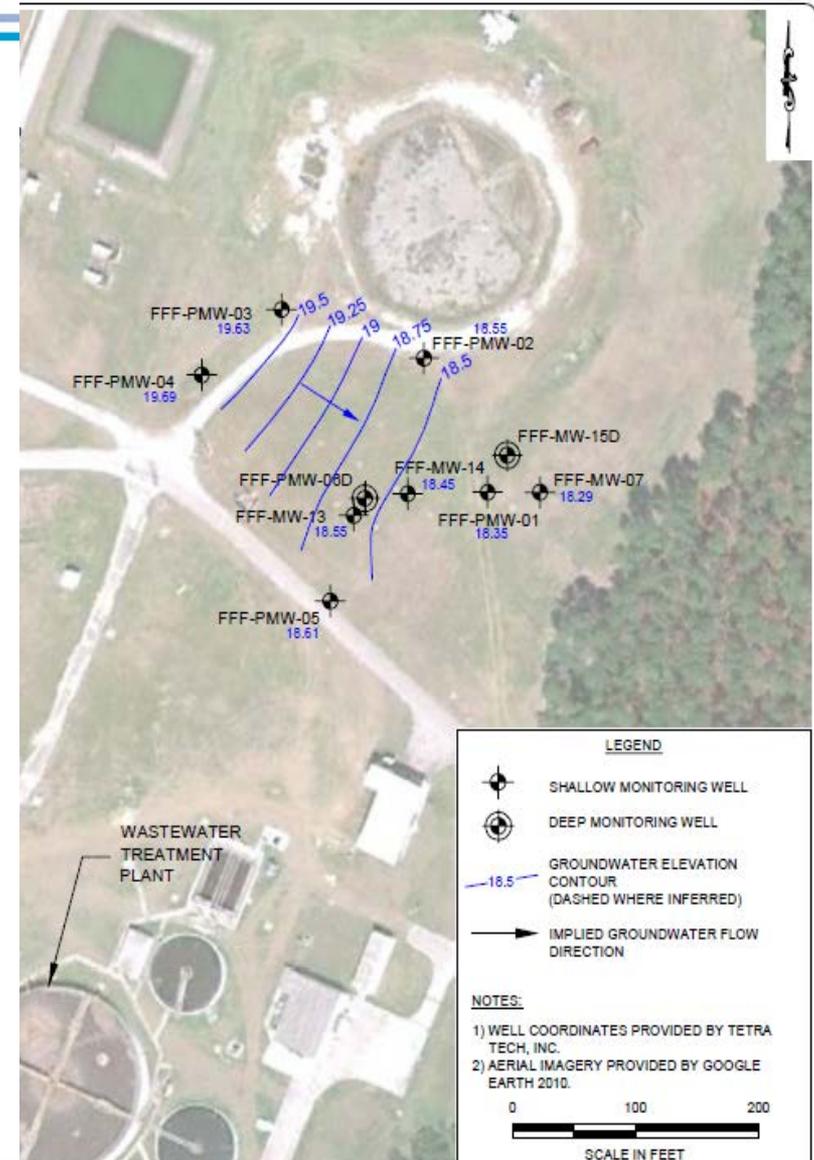
	Figure 1
--	-------------------------------

NAS Jacksonville – Former Fire Training Area



Former Fire Training Area

- Operated 1966 – 1991
- Air sparging system operated 2000-2004 for petroleum hydrocarbons
- Currently approaching regulatory closure through MNA
- Low levels of TRPH (<50 mg/L) and benzene (<5 µg/L)
- Shallow groundwater flowing east/southeast direction
- Sampled for PFCs in 2013 in collaboration with NAVFAC HQ and SERDP (Dr. Jennifer Field)

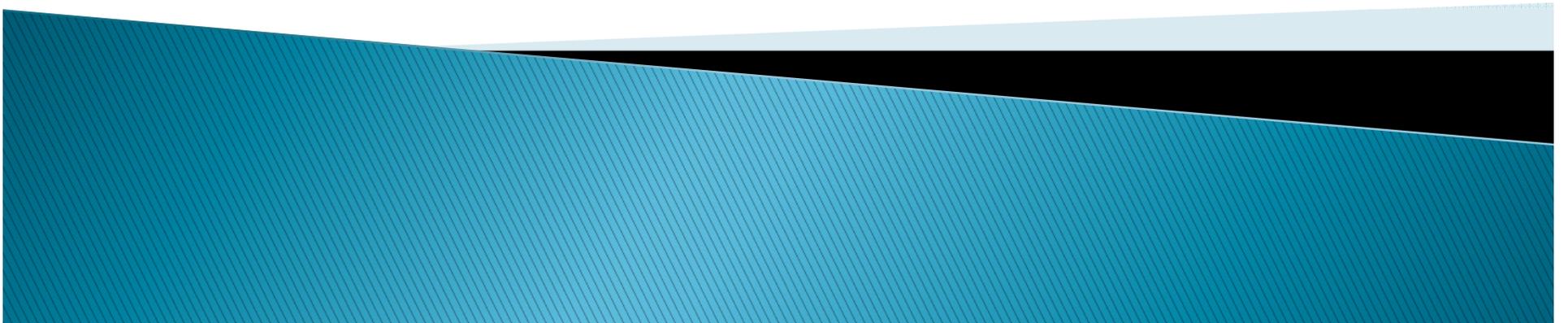


NAS Jacksonville – Former Fire Training Area



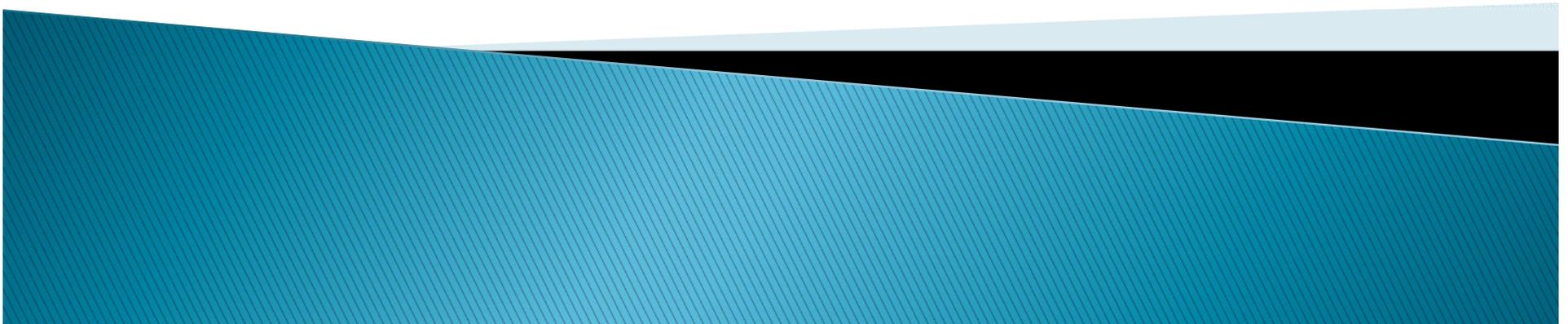
NAS Jacksonville RAB Meeting

July 23, 2013



OU 1
PSC 26 Old Main Registered Disposal

July 23, 2013

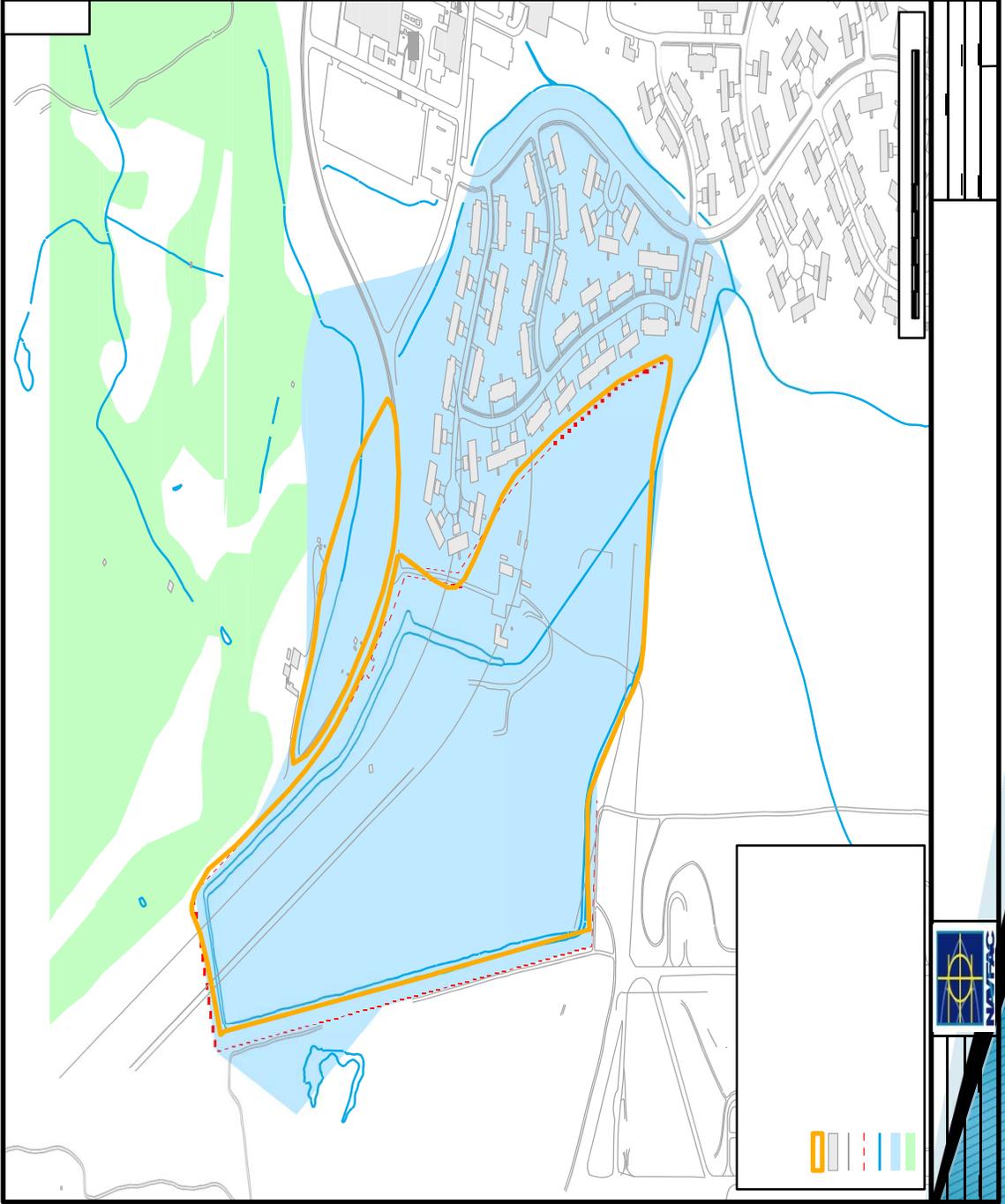


Operable Unit (OU) 1 – PSC 26 Old Main Registered Disposal

- Post ROD RA under OU 1. LTM. Obtained EPA approval to cease LNAPL recovery. Draft LUCRD completed 2008.
- The OU 1 ROD designated the remedial actions as passive LNAPL recovery via a trench system and MNA for the dissolved phase groundwater contamination.
- The LNAPL system has achieved the RAO. Team agreed to discontinue free product recovery due to lack of FP.
- Some contamination remains in place preventing unrestricted use. Data review shows that GCTLs will be achieved within 30 years.
- RRDS (April 26, 1999) & OU 1 ROD (September 1, 1997).
- Draft GW monitoring rpt 12-30-13



OU 1



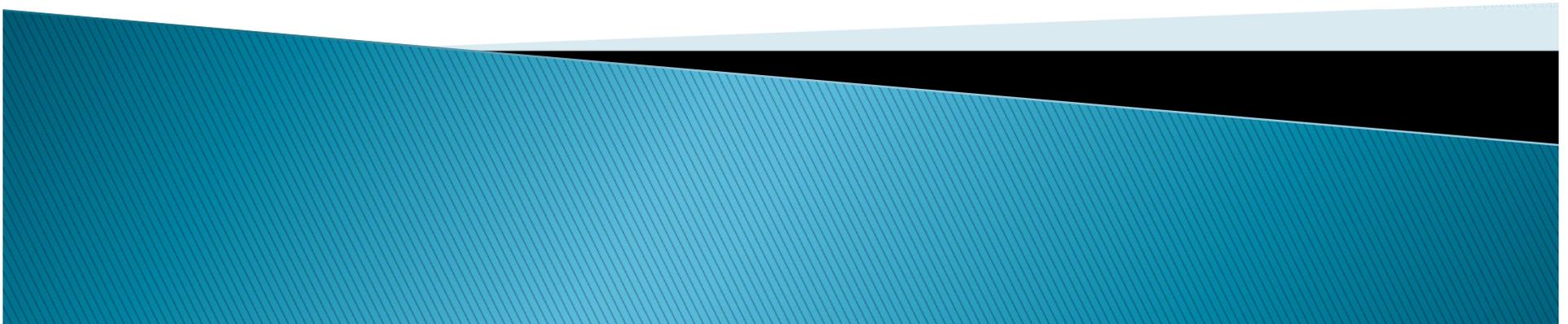
Current Land Use Controls at OU 1

- ▶ Growing season mowing is being performed
- ▶ Periodic sampling in accordance with RODs and team approval
- ▶ Next 5 year Review 3-6-2015



OU 2
Wastewater Treatment Plant Area

July 23, 2013



OU 2 Wastewater Treatment Plant Area



OU 2 Wastewater Treatment Plant Area

- ▶ Contains:
 - former sludge disposal sites,
 - sludge drying beds,
 - polishing pond &
 - fire fighting training facilities
- ▶ Land Use Controls in place



OU 2 Wastewater Treatment Plant Area: Polishing Pond



OU 2 Wastewater Treatment Plant Area: Polishing Pond

- ▶ Annual ground water monitoring at polishing pond and only for just arsenic



OU2 Wastewater Treatment Plant Area: FFTF



OU 2 Wastewater Treatment Plant Area: FFTF

- ▶ Current facility is out of service
- ▶ Ground water monitoring at former facility



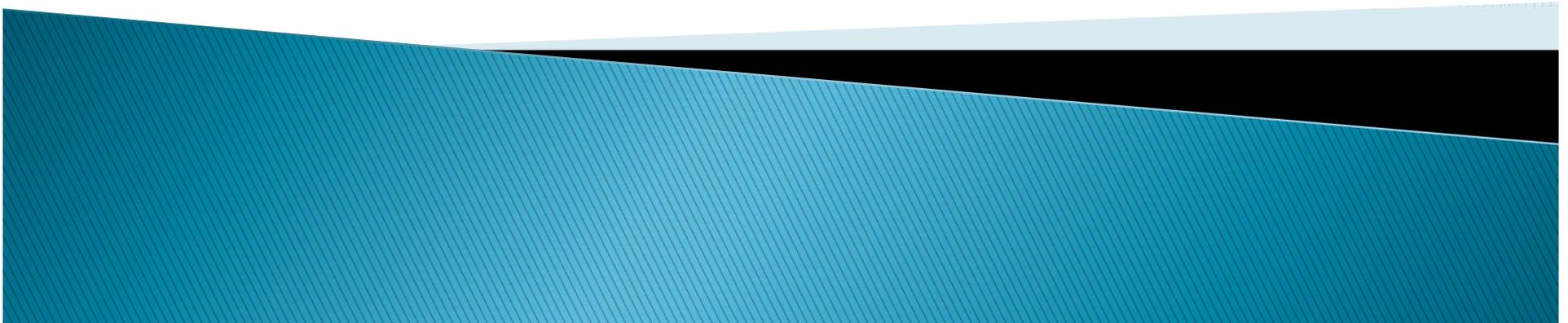
OU 2 Wastewater Treatment Plant Area: Sludge Drying beds

- ▶ Remediation complete at sludge drying beds
- ▶ Removed the signs
- ▶ Stopped inspections



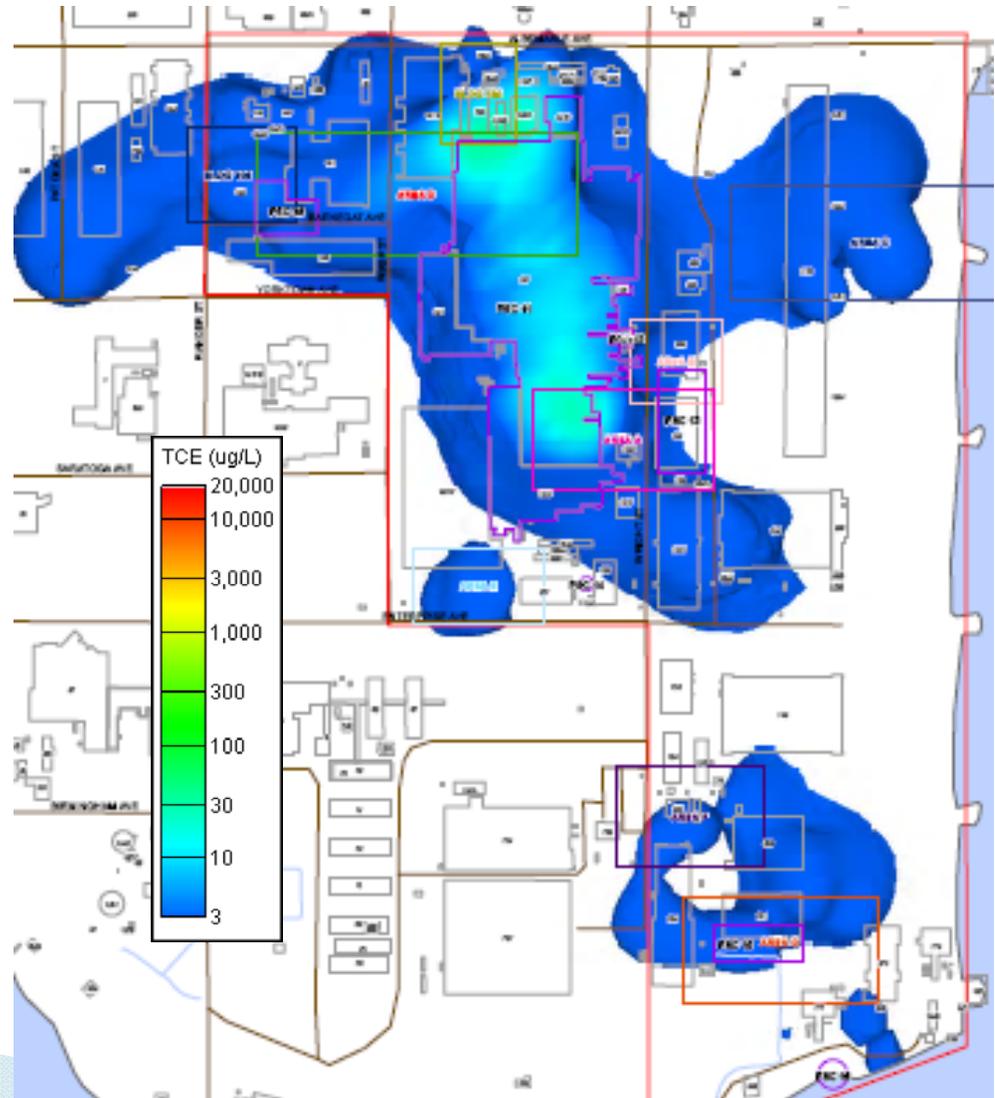
OU 3– Fleet Readiness Center Southeast

July 23, 2013



OU 3 Site Description and History

- ▶ Historical spills and releases of chlorinated solvents and petroleum hydrocarbons
- ▶ Eight identified potential sources of contamination (PSCs)



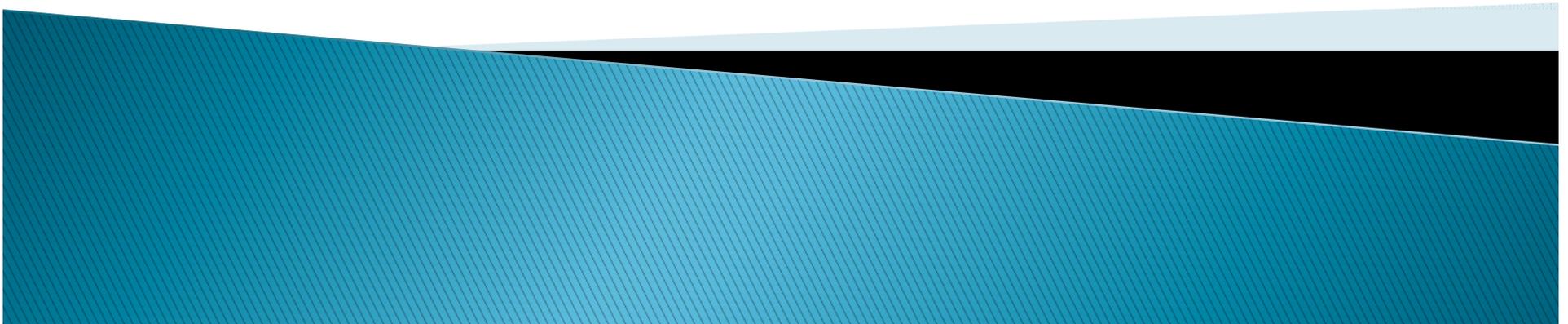
OU 3 RI Addendum

- Well Installations in September 2012 for long-term monitoring at Building 106 (PSC 48), 780, Areas C and D.
- Conducted two more rounds of groundwater monitoring for OU3 wide in October 2012 and January 2013 including newly installed wells.
- Building 106 (PSC 48) is in long term monitoring program by BOA.
- RI addendum currently underway with an SMP date for the Draft of 12/30/2013.
- Human Health and Eco Risk Assessments currently being updated.



OU 3 -Vapor Intrusion Investigation

July 23, 2013



OU3 Vapor Intrusion Investigation

- ▶ Vapor Intrusion is the migration of volatile chemicals from the subsurface into overlying buildings.
- ▶ This multi-phase investigation began in 2010
- ▶ 2 Phases have been completed thus far
- ▶ Phase III is planned for the Winter of 2013/2014



Completed Phases of Work

- ▶ Phase I (screening) – 2010
 - Desktop study and site surveys
 - Identified 37 out of 167 buildings of interest requiring further evaluation

- ▶ Phase II (screening/data collection) – 2011/2012
 - Began with additional desktop study, including ranking and prioritization of 37 buildings using a model developed for this project
 - Identified 12 primary buildings of interest for sample collection
 - Collected over 150 air samples from these buildings
 - Indoor air, subslab soil gas, and outdoor air
 - Used a variety of standard and emerging techniques
 - None of the 12 buildings exhibited VI above IASLs based on evaluation of the Phase II data
 - Indoor air VOC concentrations detected above IASLs were attributable to background sources unrelated to VI
 - The subsurface VOC source strength was too low to result in current and future VI above IASLs in most of the buildings where subslab data were collected
 - However, uncertainties exist with respect to temporal variability and the ability to predict future VI impacts in select buildings



Upcoming Work

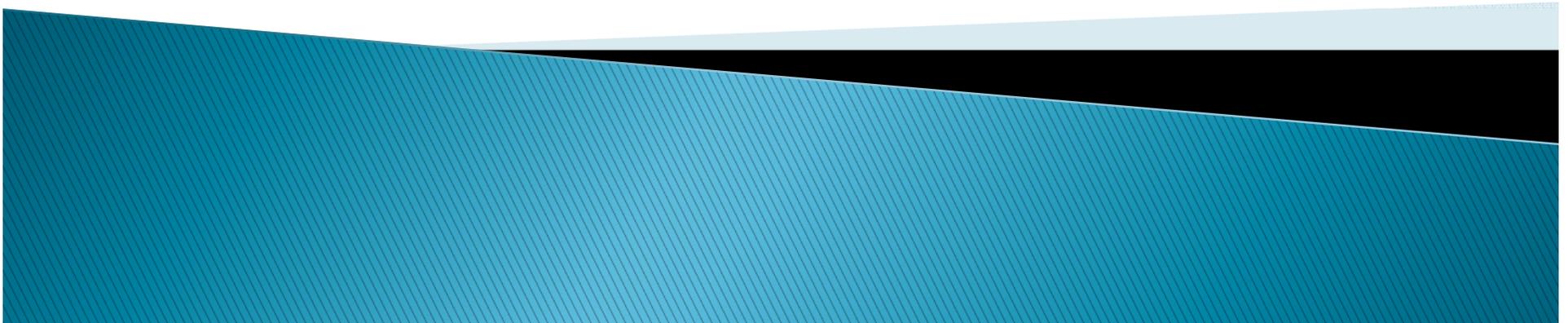
▶ Phase III Planned Activities

- Evaluate temporal variability
 - Sampling event in the Winter of 2013
- Target indoor and outdoor ambient air and subslab soil gas samples at buildings where indoor air VOC concentrations detected above IASLs were attributable to background sources unrelated to VI
- Indoor and outdoor ambient air at Buildings 101, 101C, and 103.
- Subslab soil gas samples at Buildings 101C and 103
- 15 indoor, 3 outdoor, 12 subslab

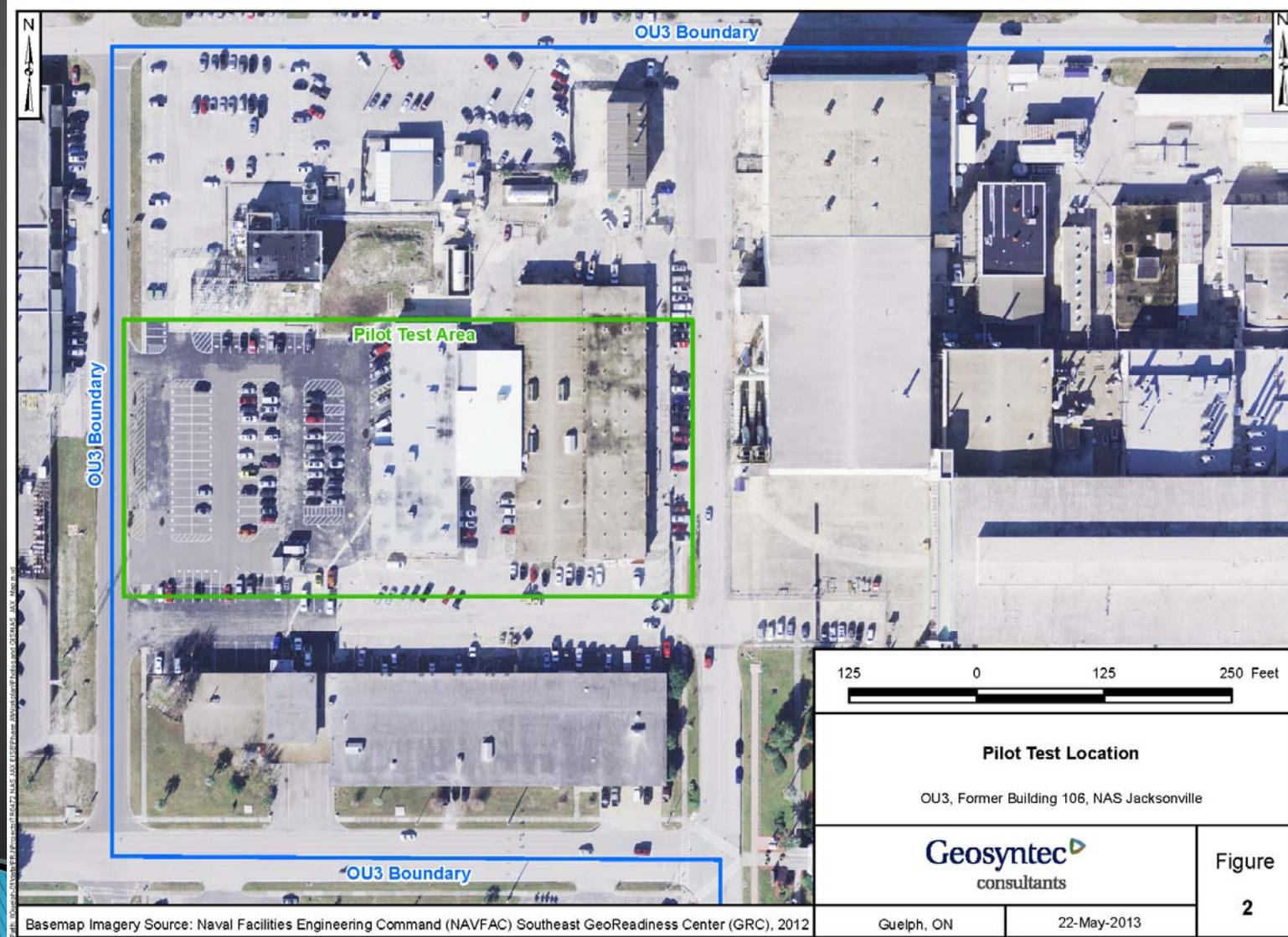


OU 3 – Bioremediation Pilot Tests

July 23, 2013



Pilot Test Location

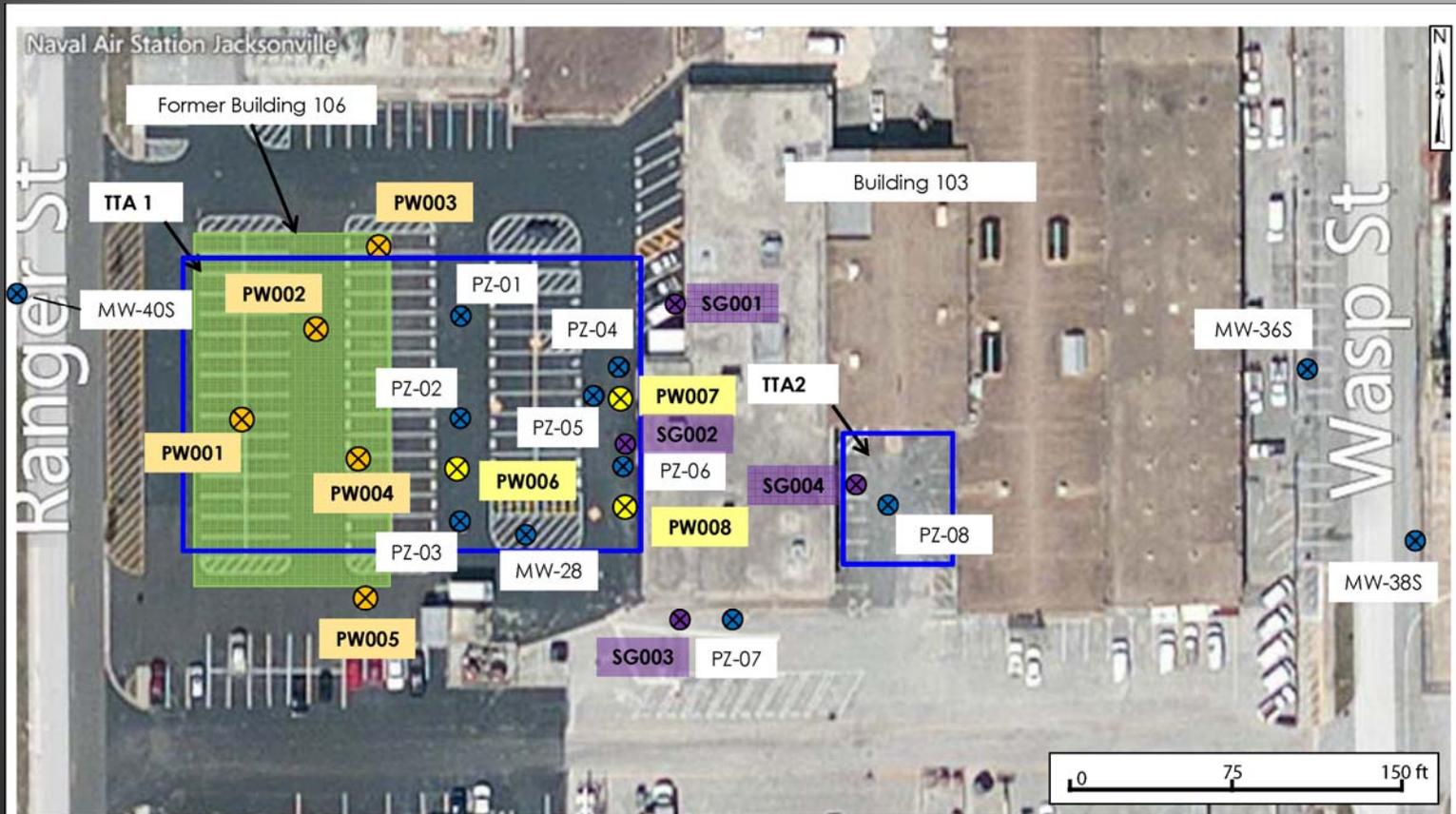


OU 3 – Bioremediation Pilot Studies

- ▶ Scheduled for FY13 and FY14
- ▶ Evaluate the effectiveness of bioremediation in treating chlorinated solvents
- ▶ 1st Pilot Study – FY13
 - Focus on treating contamination present from approx. 5 to 15 ft below ground surface
 - Permeable sand unit directly above clay layer
- ▶ 2nd Pilot Study – FY14
 - Focus on treating clay contamination present in low permeability clay
 - Electro-kinetic process to distribute treatment amendments to the clay layer



Proposed Well Locations



Legend

- ⊗ -proposed sand/clay monitoring well
- ⊗ -proposed sand monitoring well
- ⊗ -existing monitoring well
- ⊗ -proposed soil gas probe

Notes:

TTA – Target Treatment Area
 The performance monitoring well network consists of five proposed monitoring wells (PW001, PW002, PW003, PW004, PW005) and five existing monitoring wells (PZ-01, PZ-02, PZ-03, PZ-06, and PZ-08).

Proposed Performance Monitoring Wells

OU3, Former Building 106, NAS Jacksonville

Geosyntec
 consultants

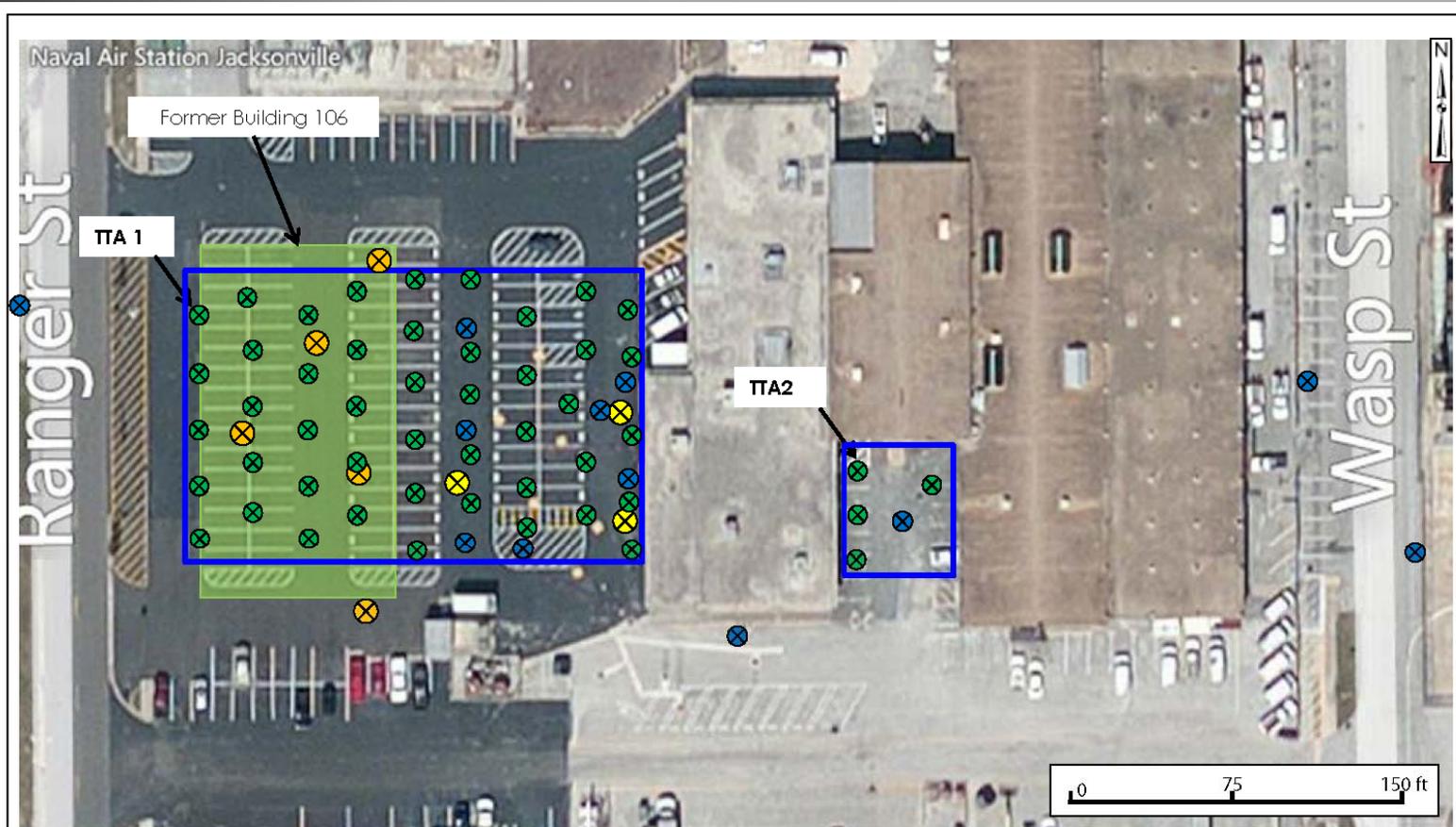
Guelph

June 2013

Figure

7

Proposed Injection Locations



Legend

-  -proposed DPT injection point
-  -proposed sand/clay monitoring well
-  -proposed sand monitoring well
-  -existing monitoring well

Notes:

TTA – Target Treatment Area
 DPT – Direct Push Technology

Proposed Injection Points

OU3, Former Building 106, NAS Jacksonville

Geosyntec
 consultants

Figure

5

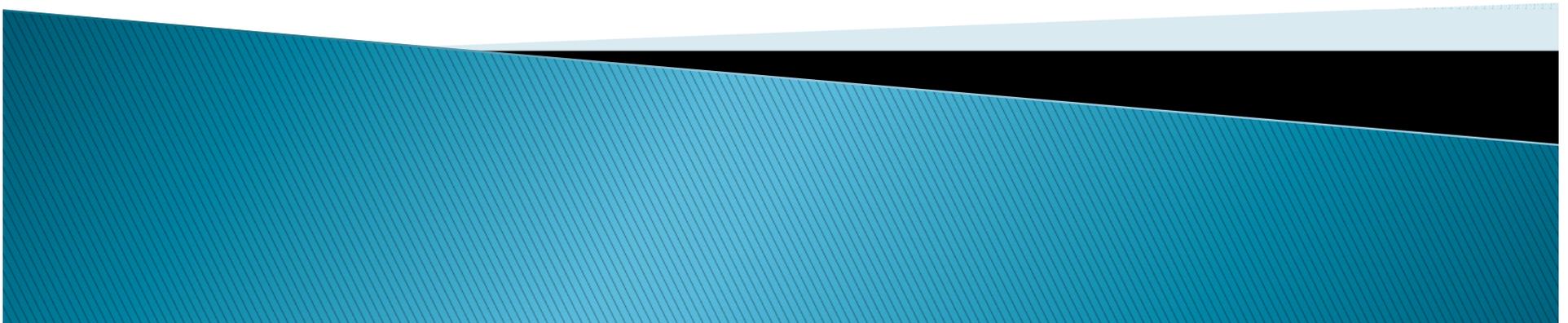
Guelph

May 2013

Revised: 10/10/13, path: d:\revised_051013

OU 4
PSC 21 CASA LINDA LAKE

July 23, 2013



OU 4 CASA LINDA LAKE



OU 4 Casa Linda Lake

- ▶ Legally applied Dasanit to control nematodes in April 1979
- ▶ Followed by several days of heavy rain
- ▶ Fish and duck kill in May 1979



OU 4 Casa Linda Lake

- ▶ Legally applied Dasanit to control nematodes in April 1979
- ▶ Followed by several days of heavy rain
- ▶ Fish and duck kill in May 1979



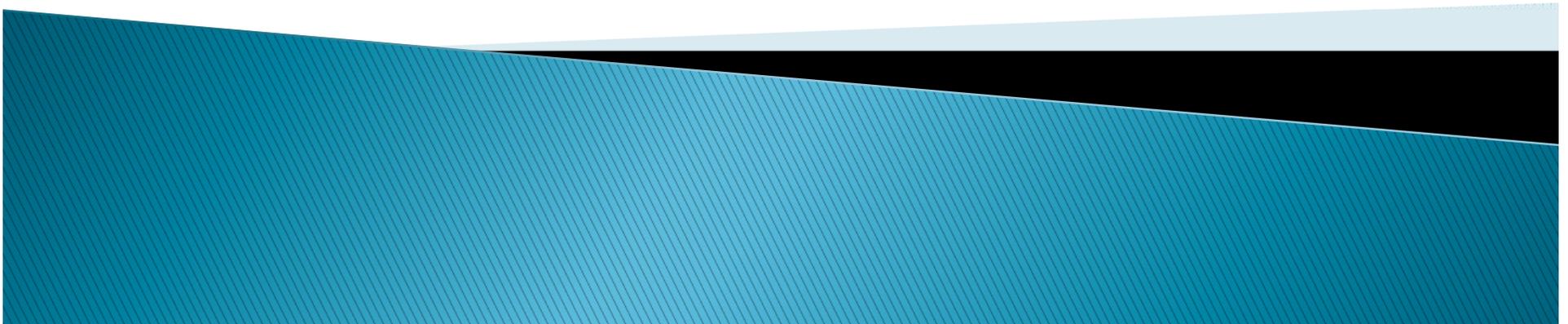
OU 4 Casa Linda Lake

- ▶ Land Use Controls in place
- ▶ Only catch and release fishing
- ▶ Predatory animal statues



OU 5
PSC 51 – Fire Fighting Trainer Area South
Antenna Farm

July 23, 2013

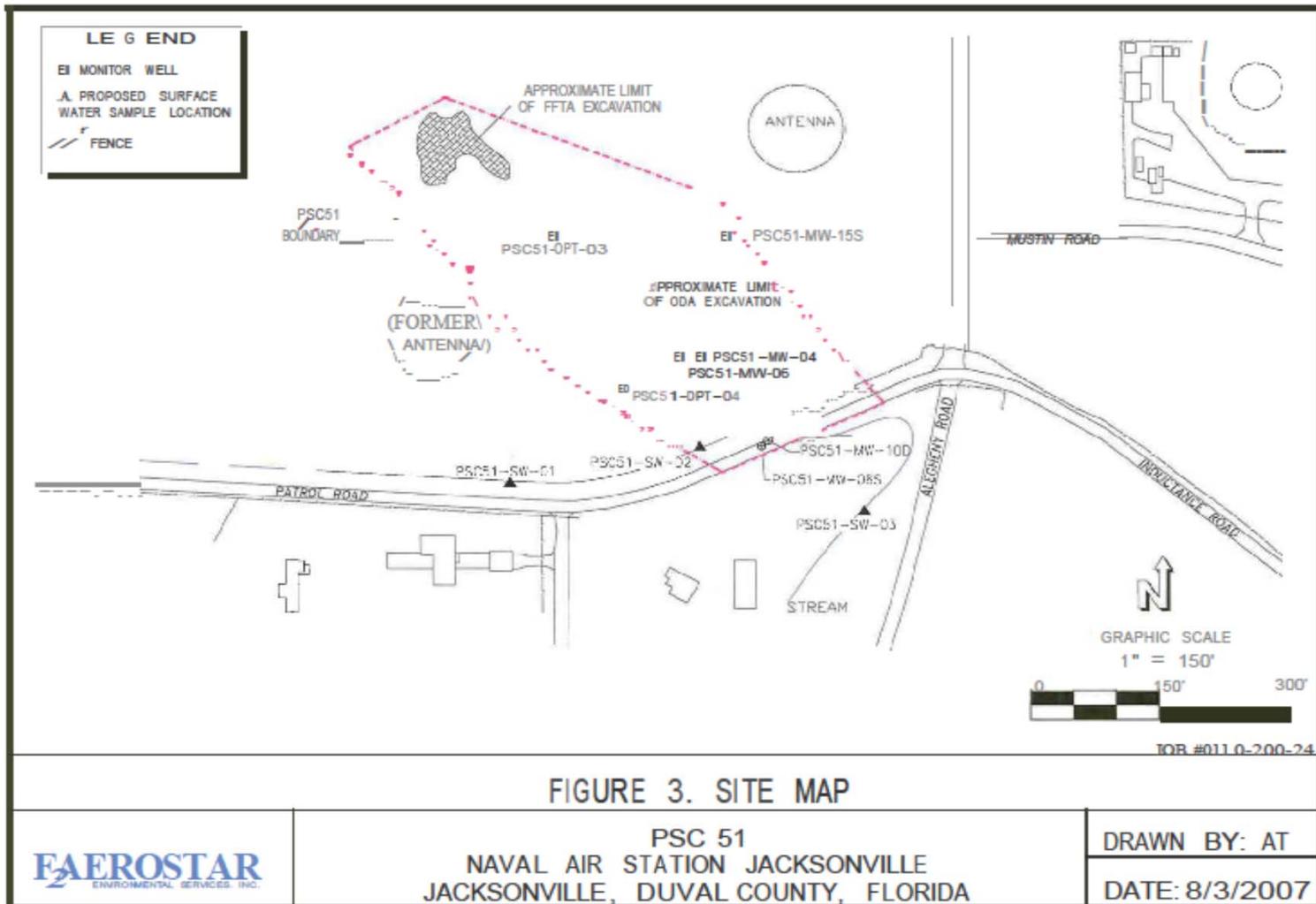


OU 5 / PSC 51 – Fire Fighting Trainer Area South Antenna Farm

- The remedy for this site is natural attenuation and LUCs (for metal compounds in soil and impacted groundwater).
- Low level VOC groundwater contamination should naturally attenuate, and is the most cost effective. Soil contamination remains in place preventing unrestricted use. LUCs are in place.
- A contingency groundwater remediation technology (enhanced bioremediation) was provided in the ROD should VOCs not naturally attenuate. RRDS (June 7, 1999).
- Wells are sampled and the area is mowed throughout the growing season.
- Next 5 YR REVIEW 3-6-15 GW MON REPORT 12/30/13



OU 5 PSC 51



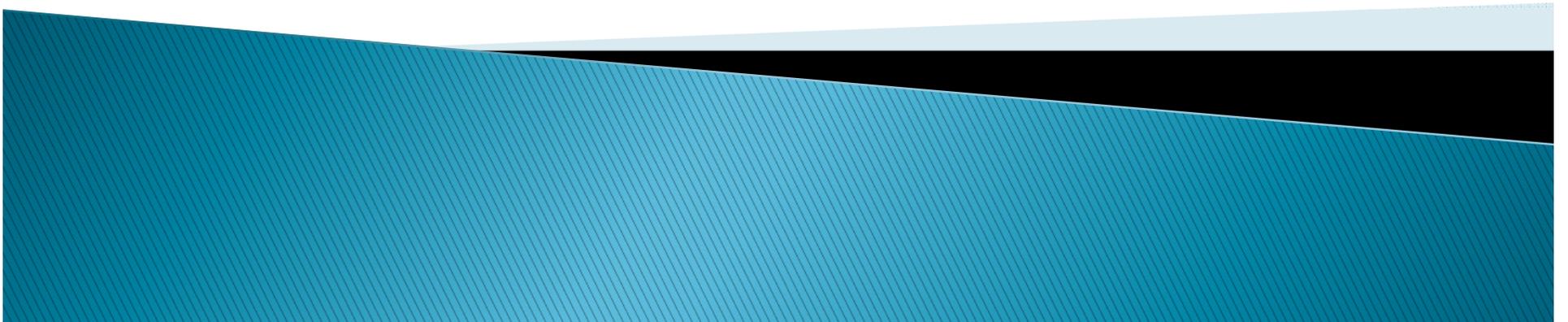
Current Land Use Controls at OU 5

- ▶ Growing season mowing is performed.
- ▶ Well maintenance reviewed annually.
- ▶ Periodic sampling in accordance with RODs and team approval
- ▶ Next 5 year Review 3-6-2015



OU 6
Hangar 1000

July 23, 2013



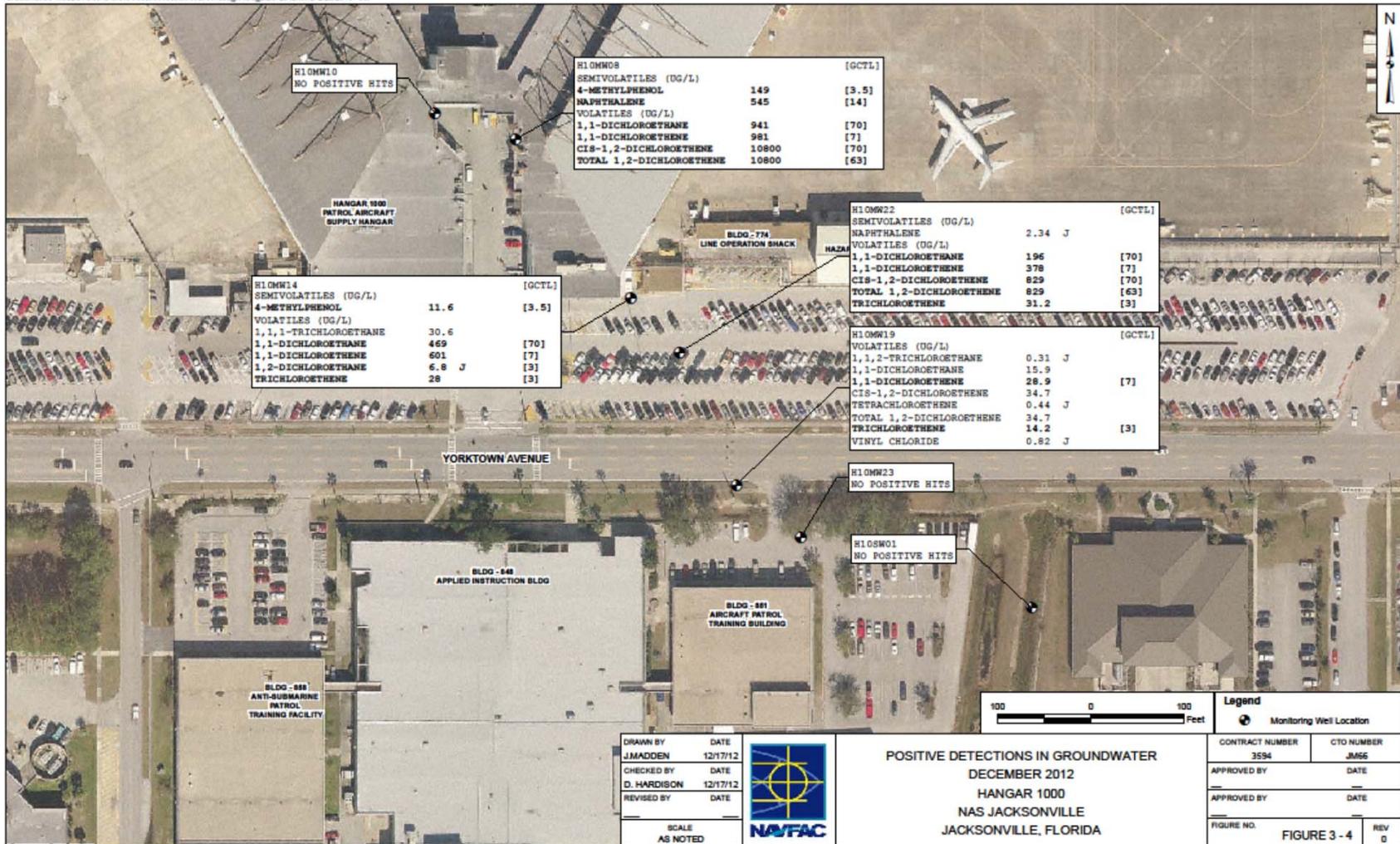
OU 6 – Hangar 1000

- As established in the ROD, groundwater and surface water is to be monitored for contamination breakdown to assess the effectiveness of the completed Nano Particle injections and MNA as a treatment for the surficial aquifer at Hangar 1000.
- Six existing monitoring wells are used for groundwater monitoring. The proposed monitoring program began with semiannual sampling to be conducted for the first five years and annual sampling after the fifth year.
- The effectiveness of MNA in reducing the COC concentrations and controlling further migration of the plume is supported by the monitoring data trends and geochemical conditions.
- Evaluation of geochemical data, including total organic carbon levels, suggests that conditions are favorable for continued natural attenuation via reductive dechlorination and evidence of continued degradation is supported by the generation of end point degradation products detected in source area wells.



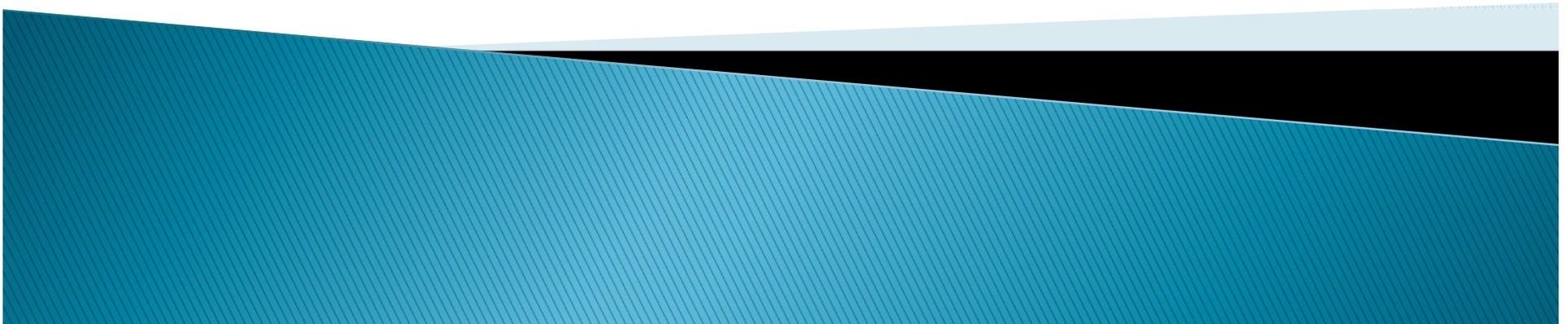
Hangar 1000 Annual Results

JAXMIGISPROJECTS\NAS JAX\HANGAR1000\HANGAR1000_TAGR_DEC-2012.MXD 2/28/2013 JM



OU 7
Defense Reutilization and Marketing
Office (DRMO)

July 23, 2013



DRMO–Previous Investigations

- ▶ 1997 – Site screening was performed for chemical constituents.
- ▶ June 1998 – A RAD survey disclosed 3 distinct areas of elevated radiation exposure due to radium painted dial disposal.
- ▶ February to March 2001 – Remedial Investigation/Focused Feasibility Study (RI/FFS) field activities were conducted at PSC 46.
- ▶ Groundwater samples analyzed for VOCs, PAHs, pesticides, PCBs, TAL metals, and RAD parameters
- ▶ August to September 2003 – 123 soil samples collected for a comprehensive site-wide RAD investigation was conducted. A non-RAD sampling event was conducted as part of the remedial design to delineate the horizontal and vertical extents of contaminated soil and ditch sediment for the areas identified for removal in the RI/FFS
- ▶ June 2004 – Additional evaluation of RAD impacts to the site were conducted for evaluation and removal of RAD-impacted soils



DRMO-2005 ROD

- ▶ September 2005 – The ROD for OU 7, PSC 46 was prepared selecting:
 - soil excavation and disposal, land use controls, MNA for groundwater & contingency
 - vinyl chloride (VC), 1,1-dichloroethene (1,1-DCE)& arsenic as GW COCs
 - 1st year quarterly monitoring and semiannual monitoring thereafter





DRMO Removals

- ▶ 220 tons of RAD contaminated soil was excavated then disposed off site by an Army Contractor.
- ▶ 346.5 tons of non-hazardous waste soil was removed and disposed of at an FDEP permitted soil disposal facility
- ▶ Existing groundwater monitoring wells at the site were sampled in October 2007 & August 2011.
 - contaminant concentrations appeared to be decreasing or were stable in the shallow groundwater zone
 - in deep groundwater benzene and vinyl chloride concentrations had increased, but cis-1,2-DCE has decreased



DRMO Current Groundwater Conditions

- ▶ February 2013 Groundwater Sampling Technical Memorandum (CH2MHill 2013)
 - the first and second rounds of post-remedy quarterly groundwater monitoring completed in May and August 2012.
 - VC and arsenic present in the shallow groundwater zone above their GCTLs.
 - In the deep groundwater VOCs were above GCTLs with the highest concentrations in MW-8.



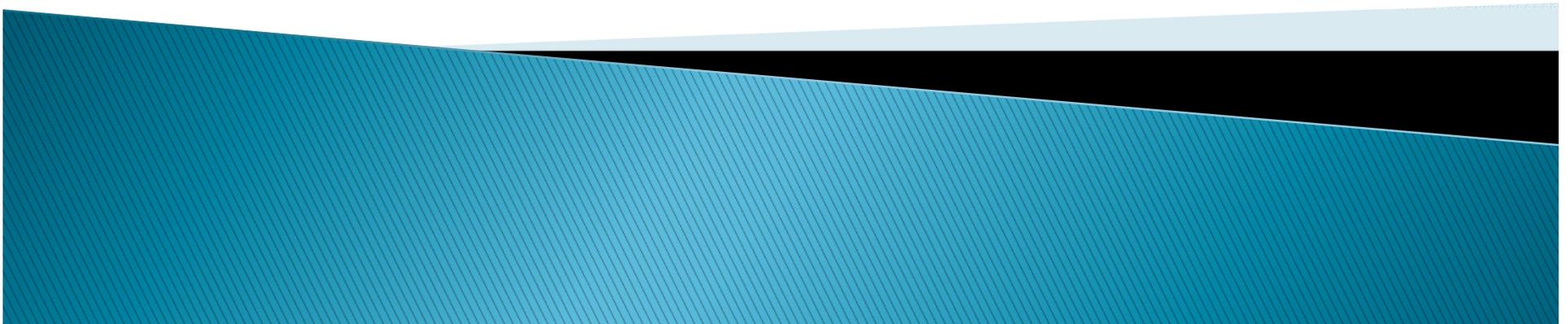
DRMO Recommendations

- ▶ Shallow monitoring wells are either stable or decreasing,
 - sample frequency will be reduced to an annual basis.
 - Include only MW-4 and MW-11S. The only 2 shallow wells with groundwater exceedances during the past 4 quarters of sampling.
- ▶ Deep monitoring wells concentration trends have varied over the past 4 quarters of sampling.
- ▶ In general, where stable or decreasing trends are not observed, concentrations remain at low levels.
 - sample frequency reduced to a semiannual frequency for monitoring wells MW-8, MW-9, and MW-11D and annual frequency for monitoring well MW-5D.
- ▶ The number of wells, sample parameters, and sample frequency re-evaluated based on future sample results.
 - If concentrations are stable or decreasing, sample number or frequency will be optimized.
- ▶ Future data will support the evaluation of plume dynamics, contaminant trends, and whether subsurface conditions are conducive to biodegradation.



OU 8
PSC 47 – Pesticide Shop

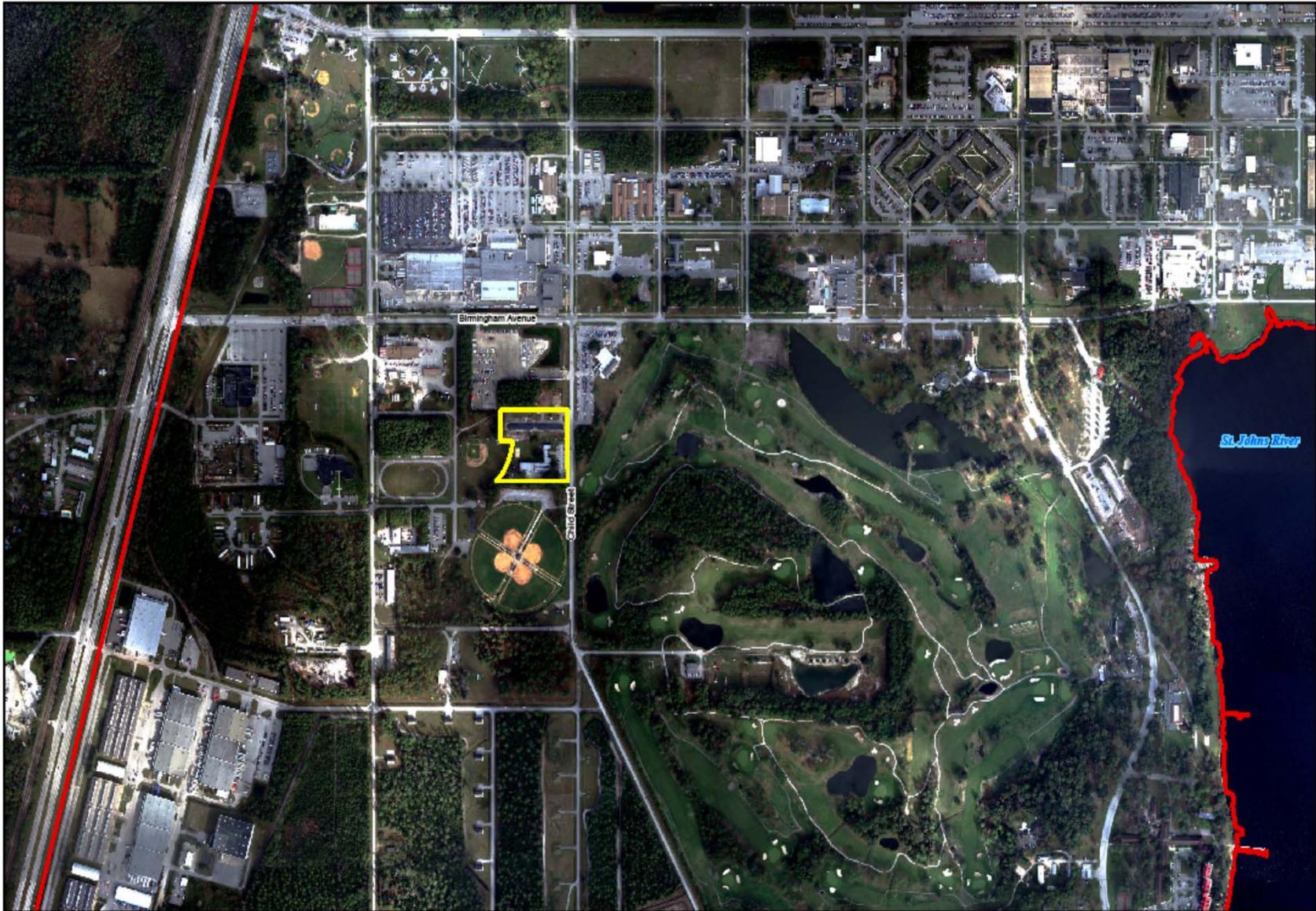
July 23, 2013



OU8, PSC 47 – Pesticide Shop

- ▶ The Pesticide Shop is more formally known as the OU8, PSC 47.
- ▶ As the name implies, this site was and continues to be where, among other things, the pesticides program is evaluated. NECE.
- ▶ Past spills and releases of various chemicals have resulted in GW and soil contamination.
 - Various pesticides, VOCs, SVOCs, arsenic
- ▶ IRA performed in 2008 to reduce direct exposure and leaching risk. ROD signed.
- ▶ GW monitoring has been ongoing. (continuing source, leaching, natural attenuation)





Facility Boundary

PSC 47

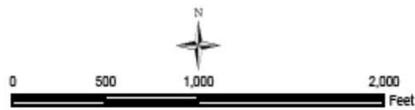


FIGURE 1-1

Site Location
PSC 47, Naval Air Station Jacksonville
Jacksonville, Florida
(Original printed in color)

2012 Groundwater Monitoring Results

- ▶ Results confirm presence of Northern and Southern groundwater plumes
- ▶ Data continues to support stable or decreasing plumes as a result of natural attenuation
- ▶ Plumes are bound with compliance point wells
- ▶ No apparent continuing source of contamination from the unsaturated soil (i.e., leaching)



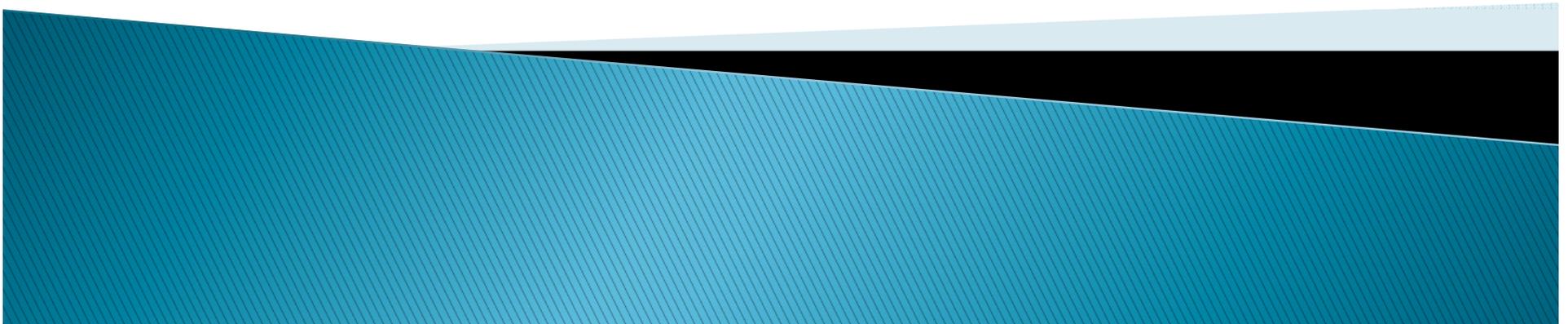
Path Forward – 2013 and 2014

- ▶ Continue semiannual monitoring
 - VOCs, SVOCs, metals, pesticides, and MNA parameters
 - Events to coincide with end of wet/dry seasons
- ▶ To better align with EPA metals MNA guidance – Evaluate arsenic immobilization in groundwater, and demonstrate that MNA is an effective remedy.
 - Guidance refers to this as Tier II evaluation
 - Sample five locations along a transect across the arsenic plume at the southern side of the site.
 - Field XRF
 - Total metals
 - Sequential extraction for select metals
 - XRD for select metals
- ▶ Collect background sample for TOC to evaluate pesticides and field filter select samples.
- ▶ Study will be completed Fall 2013



OU 9
PSC 45 – Building 200 Wash Rack
Interim Removal Action

July 23, 2013



OU9, PSC 45 – Building 200 Wash Rack Interim Removal Action

- ▶ In line with RI/FS, an interim soil removal action has been scheduled for this summer.
- ▶ Considered a non-time critical removal action
- ▶ Soil will be excavated to 4 ft bgs in the grassy area between the wash rack and B200 driveway.
- ▶ Anticipated excavation volume is 70 cy
- ▶ Excavate > Backfill > Restore



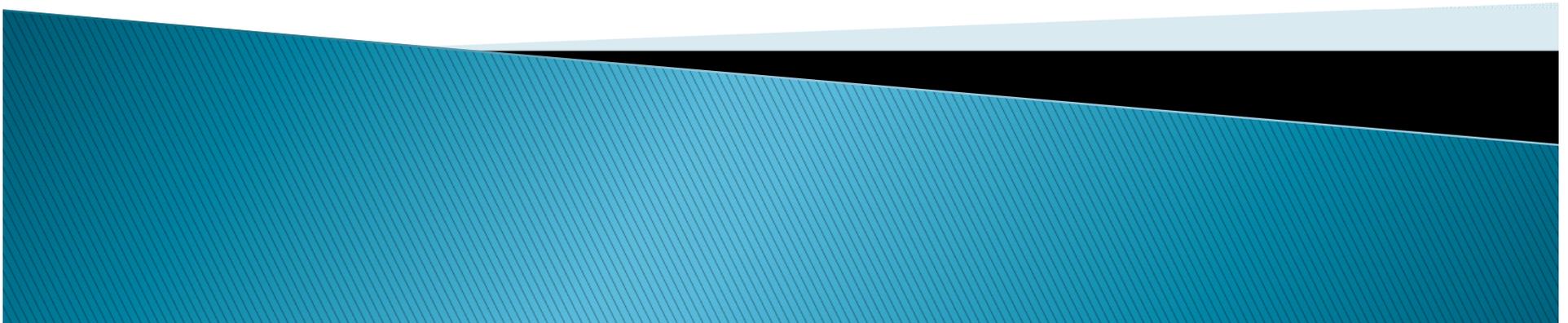


Abermarle Ave



OU 10
Munitions Response Program
UXO Sites 1, 3, and 5

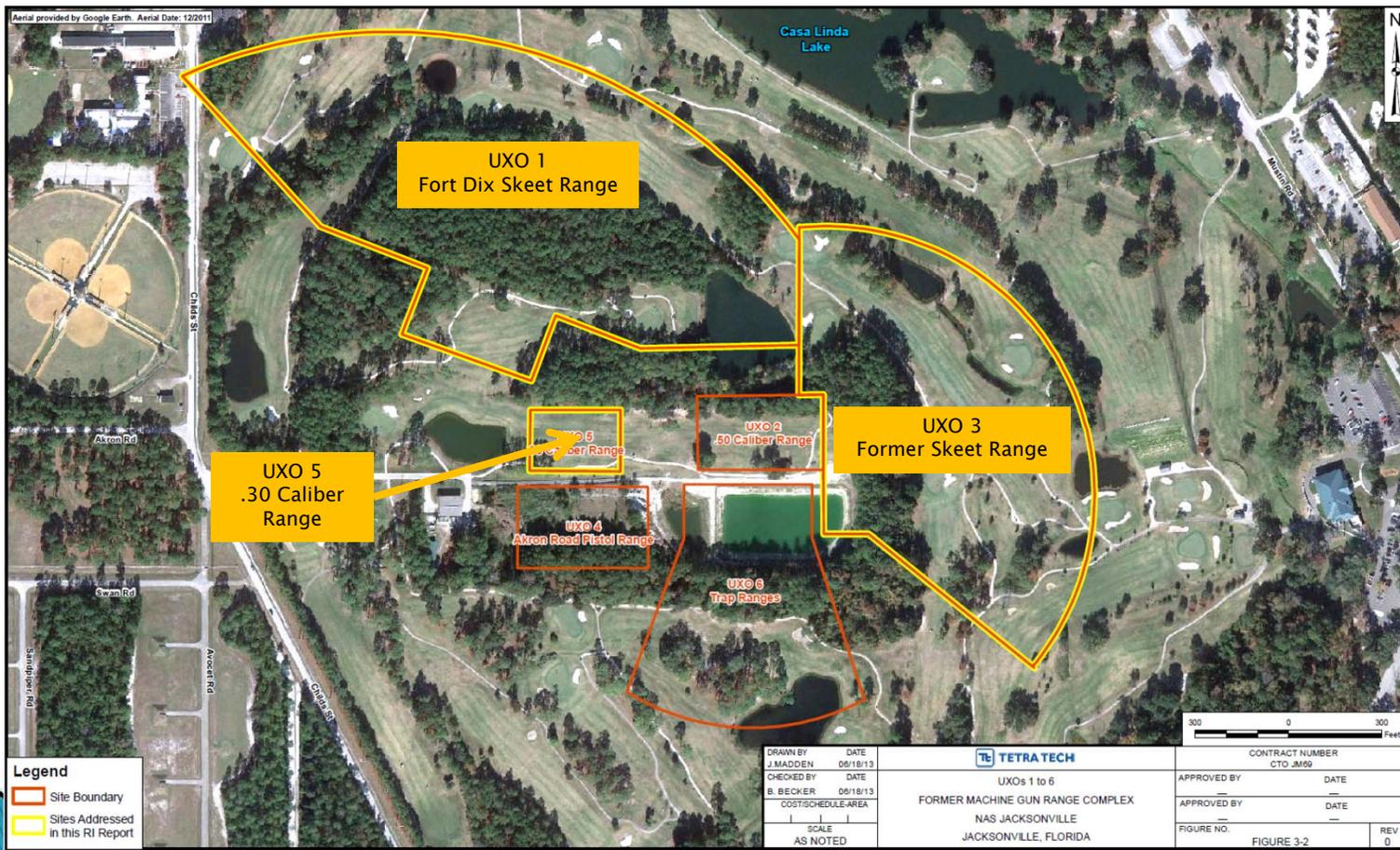
July 23, 2013



Munitions Response Program

Former Machine Gun Range Complex

Sites UXO 1, 3, and 5



Munitions Response Program

Sites UXO 1, UXO 3, and UXO 5

- ▶ Remedial Investigation (RI) fieldwork was conducted in February 2013
- ▶ Soil, pond sediment, surface water, and groundwater samples were collected from:
 - UXO 1: Fort Dix Skeet Range
- ▶ Soil samples were collected from:
 - UXO 3: Former Skeet Range
- ▶ No additional samples were necessary at:
 - UXO 5: .30 Caliber Range



Munitions Response Program

Sites UXO 1, UXO 3, and UXO 5

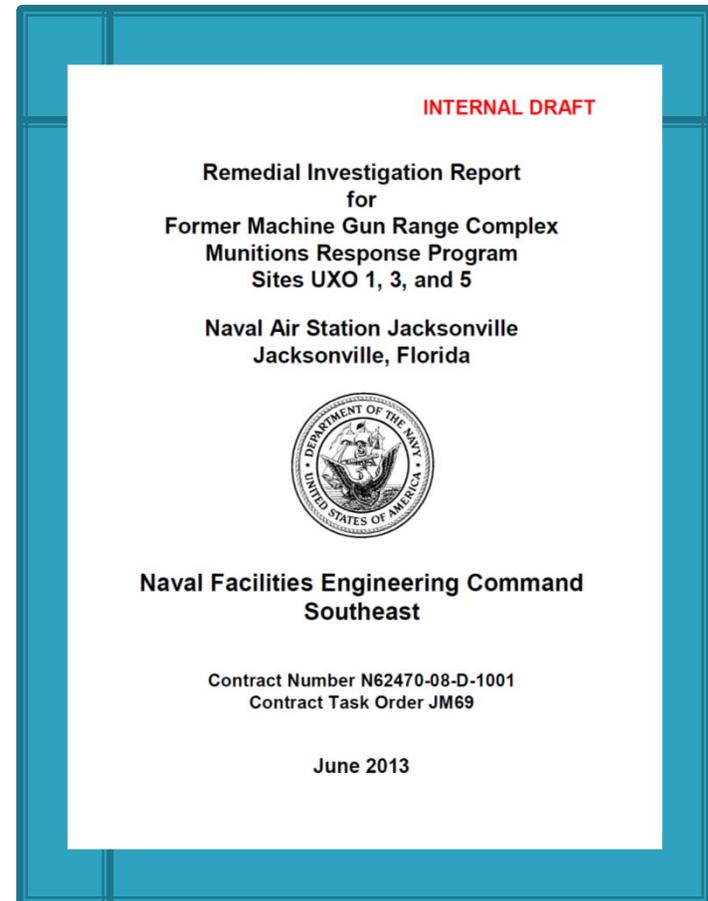
- ▶ Data from the February 2013 field investigation was combined with data from the 2010 Site Inspection to characterize each site
- ▶ Risk assessments were performed to identify potentially unacceptable risk to human and/or ecological receptors under current and future land use
- ▶ A Remedial Investigation Report has been developed to address three sites (UXOs 1, 3, and 5)



Munitions Response Program

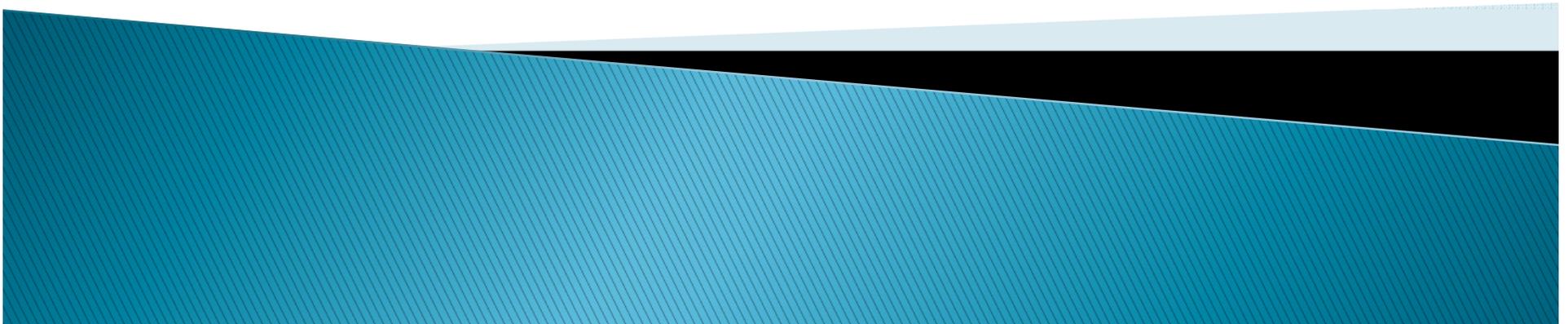
Sites UXO 1, UXO 3, and UXO 5

- ▶ Internal Draft RI Report is currently under review at NAVFAC and NAS Jacksonville
- ▶ Draft RI Report is scheduled for submittal to regulatory agencies in August 2013



OU 10
Munitions Response Program
UXO Sites 2, 4, and 6

July 23, 2013



For Cor

- ▶ UX



Current Status

- ▶ Site Inspection Completed in January 2010
- ▶ Final Uniform Federal Program Sampling and Analysis Plan (UFP-SAP) approved in December 2012
- ▶ Draft UFP-SAP Amendment Submitted in March 2013
- ▶ Regulatory Comments Received in July 2013



Scope of RI Field Work

- ▶ UXO 2: .50 Caliber Range
 - 9 Soil Borings
 - 1 Temporary Monitoring Well
- ▶ UXO 4: Akron Road Pistol Range
 - 22 Soil Borings
 - 1 Temporary Monitoring Well
- ▶ UXO 6: Trap Ranges
 - 12 Soil Borings
 - 3 Sediment/Surface Water Samples
 - 1 Temporary Monitoring Well



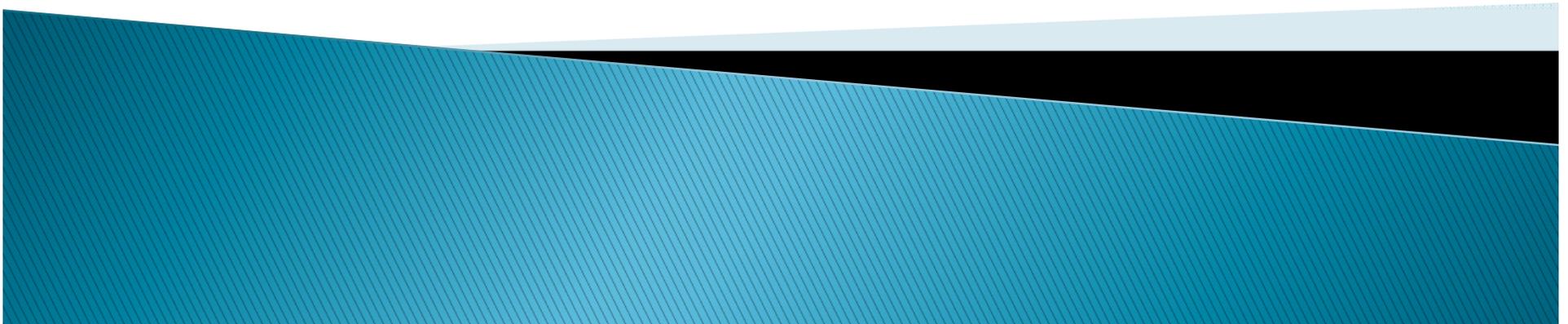
Next Steps

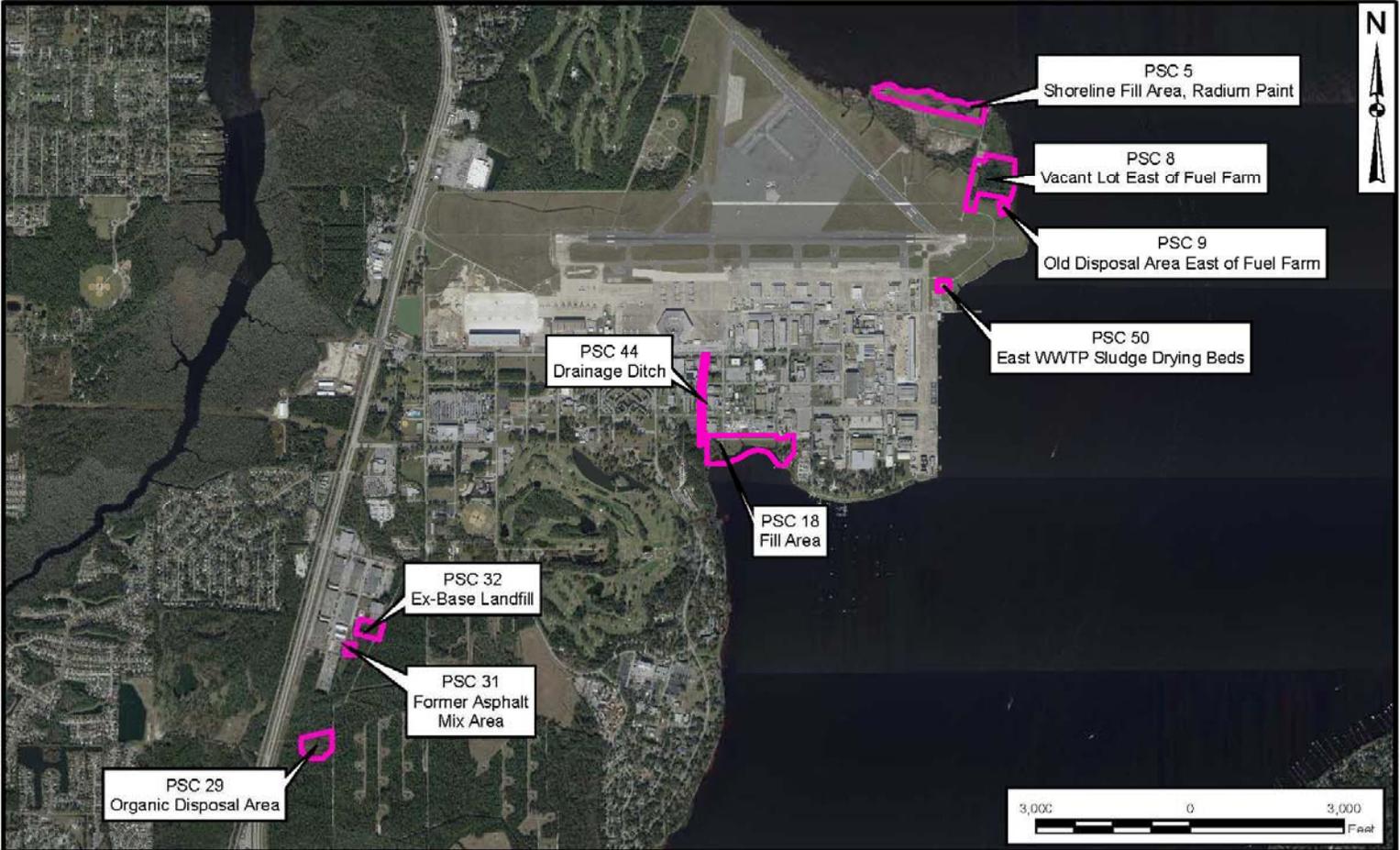
- ▶ Finalize and Implement the UFP–SAP Amendment
- ▶ Prepare the RI Report
- ▶ Begin the Feasibility Study



OU 11
Land Use Control Sites with No RODs

July 23, 2013





Project-Specific Sampling and Analysis Plan
 Site Name/Project Name: PSC Sites 5, 8, 9, 29, 31, 32, and 50, NAS Jacksonville
 Site Location: Jacksonville, Florida

Title: Extended Site Investigation for PSCs
 Revision Number: 2
 Revision Date: October 2010

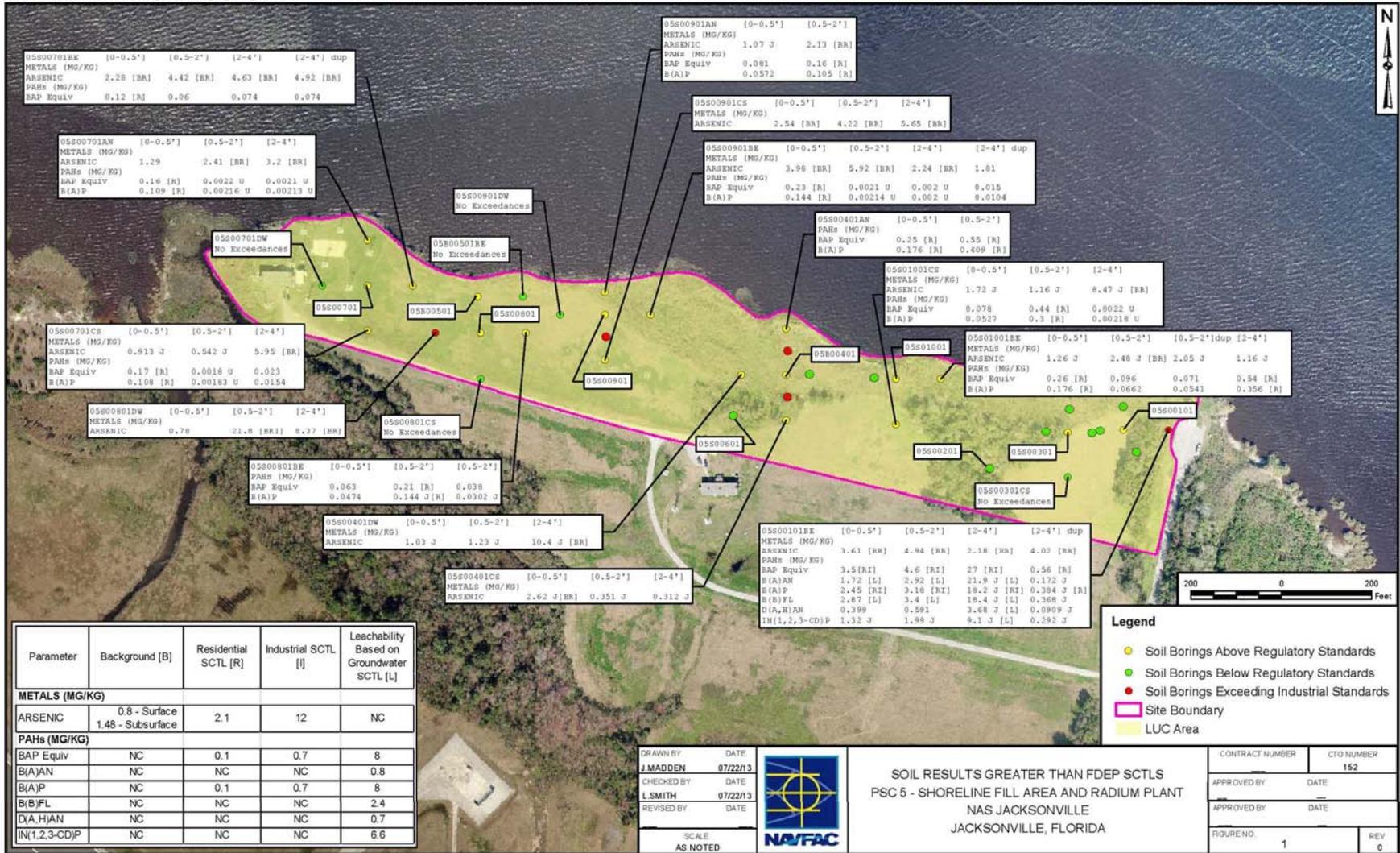
DRAWN BY J. ENGLISH	DATE 12/07/09
CHECKED BY J. JOHNSON	DATE 3/10/10
REVISED BY T. WHEATON	DATE 02/04/10
SCALE AS NOTED	



PSC SITE LOCATIONS
 NAS JACKSONVILLE
 JACKSONVILLE, FLORIDA

CONTRACT NUMBER CTO 0152	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. ES-1	REV 0



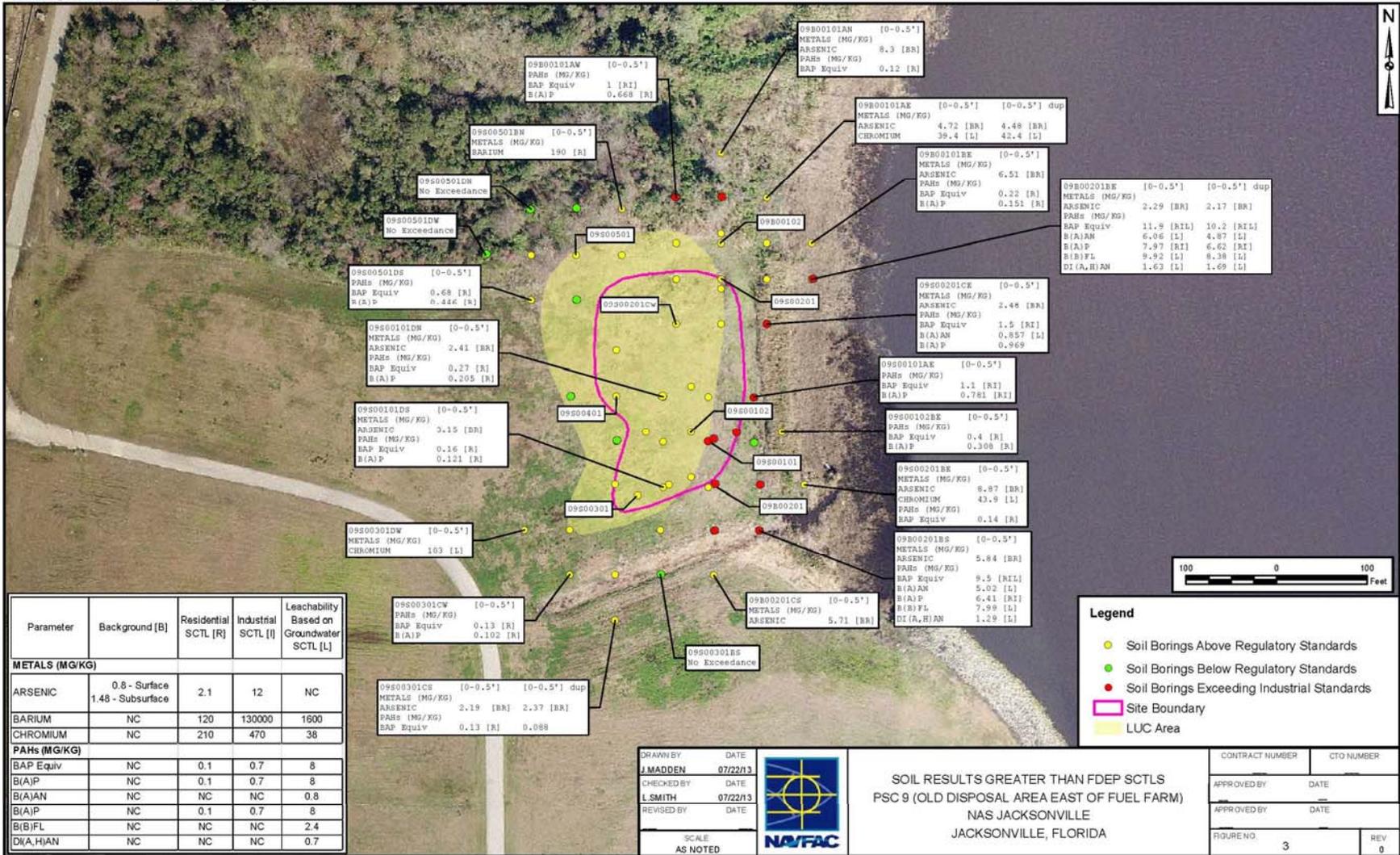


Parameter	Background [B]	Residential SCTL [R]	Industrial SCTL [I]	Leachability Based on Groundwater SCTL [L]
METALS (MG/KG)				
ARSENIC	0.8 - Surface 1.48 - Subsurface	2.1	12	NC
PAHs (MG/KG)				
BAP Equiv	NC	0.1	0.7	8
B(A)AN	NC	NC	NC	0.8
B(A)P	NC	0.1	0.7	8
B(B)FL	NC	NC	NC	2.4
D(A,H)AN	NC	NC	NC	0.7
IN(1,2,3-CD)P	NC	NC	NC	6.6

DRAWN BY: J.MADDEN
DATE: 07/22/13
CHECKED BY: L.SMITH
DATE: 07/22/13
REVISED BY: DATE

SCALE: AS NOTED

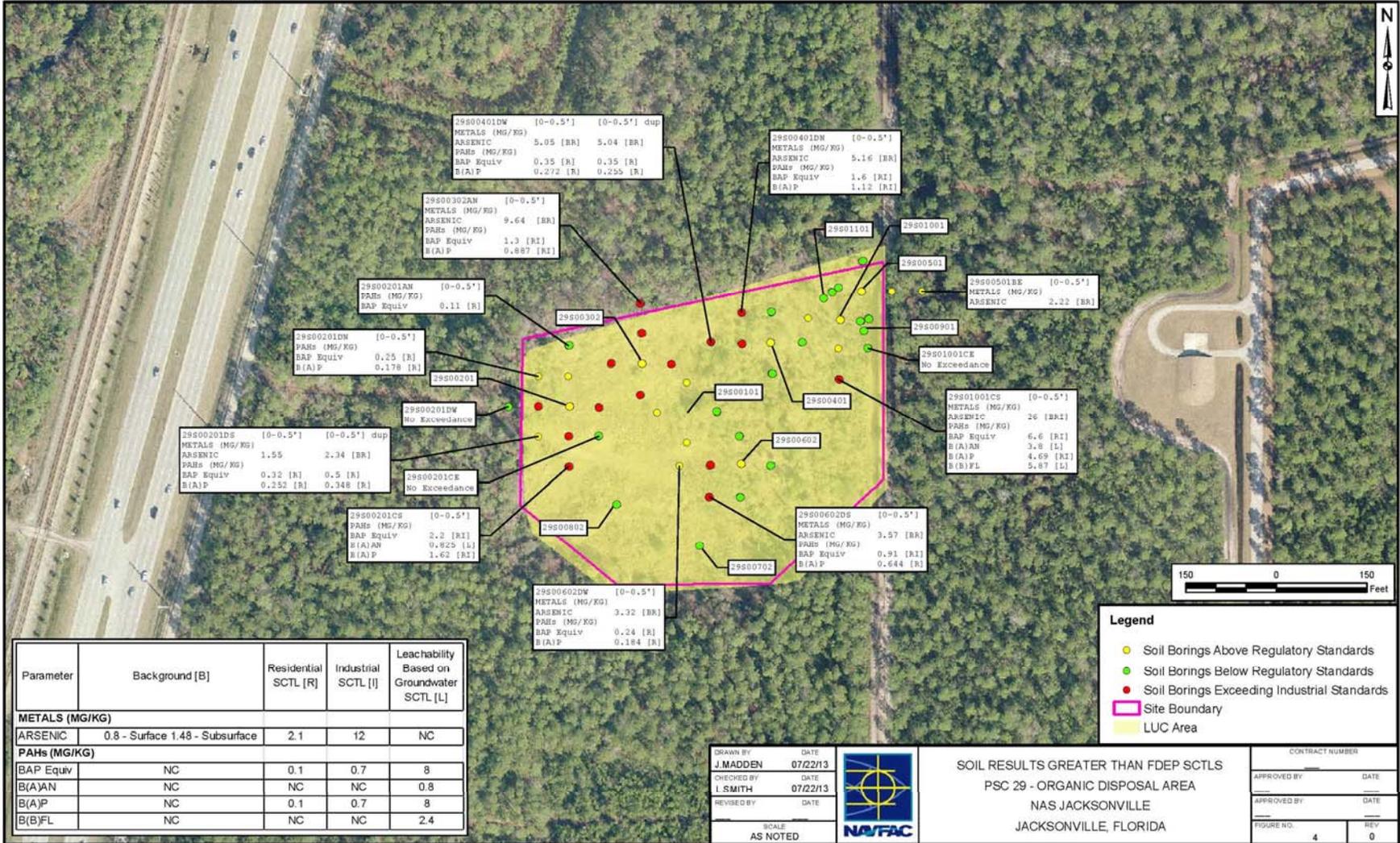




Parameter	Background [B]	Residential SCTL [R]	Industrial SCTL [I]	Leachability Based on Groundwater SCTL [L]
METALS (MG/KG)				
ARSENIC	0.8 - Surface 1.48 - Subsurface	2.1	12	NC
BARIUM	NC	120	130000	1600
CHROMIUM	NC	210	470	38
PAHs (MG/KG)				
BAP Equiv	NC	0.1	0.7	8
B(A)P	NC	0.1	0.7	8
B(A)AN	NC	NC	NC	0.8
B(A)P	NC	0.1	0.7	8
B(B)FL	NC	NC	NC	2.4
D(A,H)AN	NC	NC	NC	0.7

DRAWN BY: J.MADDEN DATE: 07/22/13
 CHECKED BY: L.SMITH DATE: 07/22/13
 REVISED BY: _____ DATE: _____
 SCALE: AS NOTED





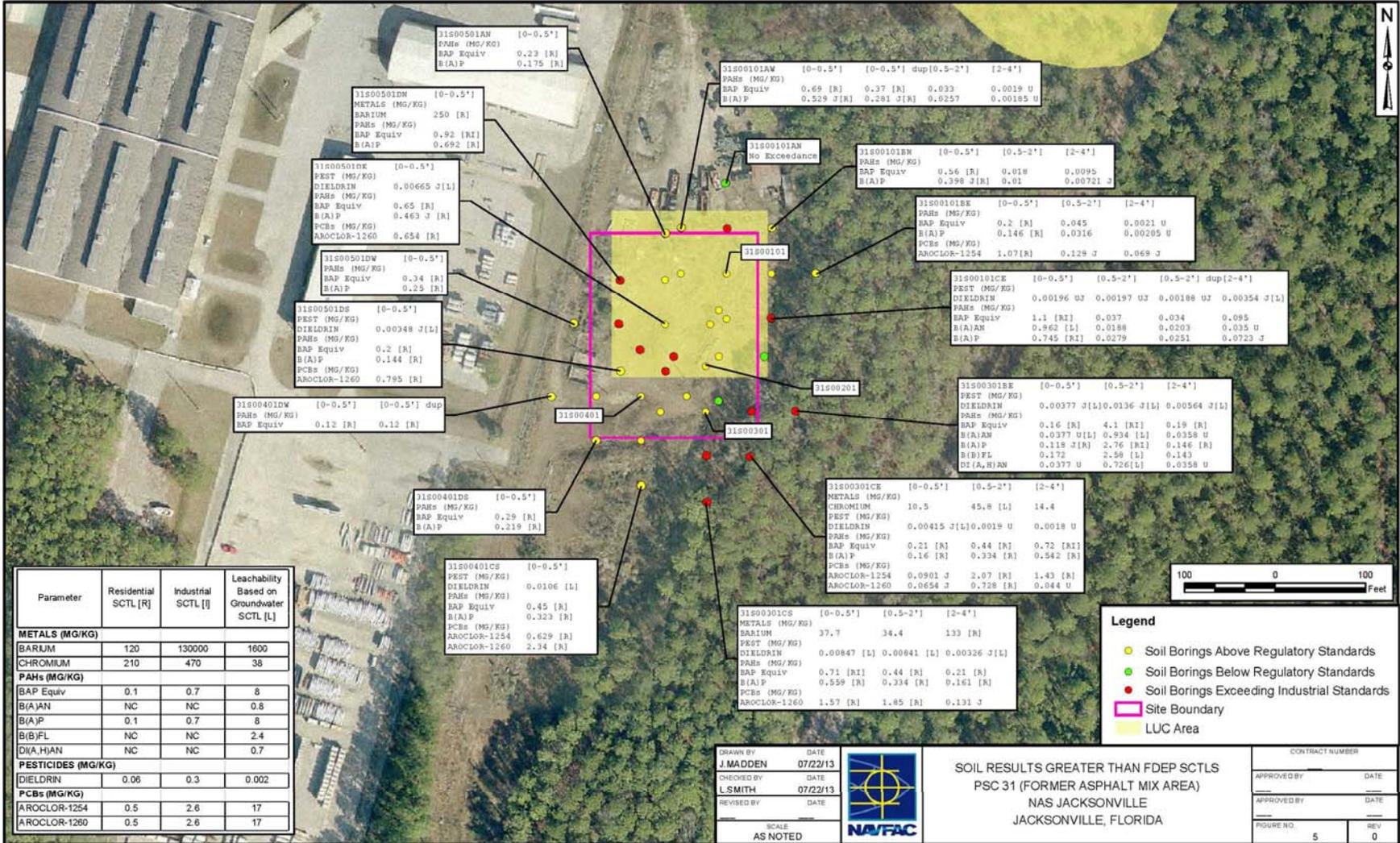
Parameter	Background [B]	Residential SCTL [R]	Industrial SCTL [I]	Leachability Based on Groundwater SCTL [L]
METALS (MG/KG)				
ARSENIC	0.8 - Surface 1.48 - Subsurface	2.1	12	NC
PAHs (MG/KG)				
BAP Equiv	NC	0.1	0.7	8
B(A)AN	NC	NC	NC	0.8
B(A)P	NC	0.1	0.7	8
B(B)FL	NC	NC	NC	2.4

DRAWN BY: J.MADDEN
 CHECKED BY: I.SMITH
 REVISIONS: [None]
 SCALE: AS NOTED

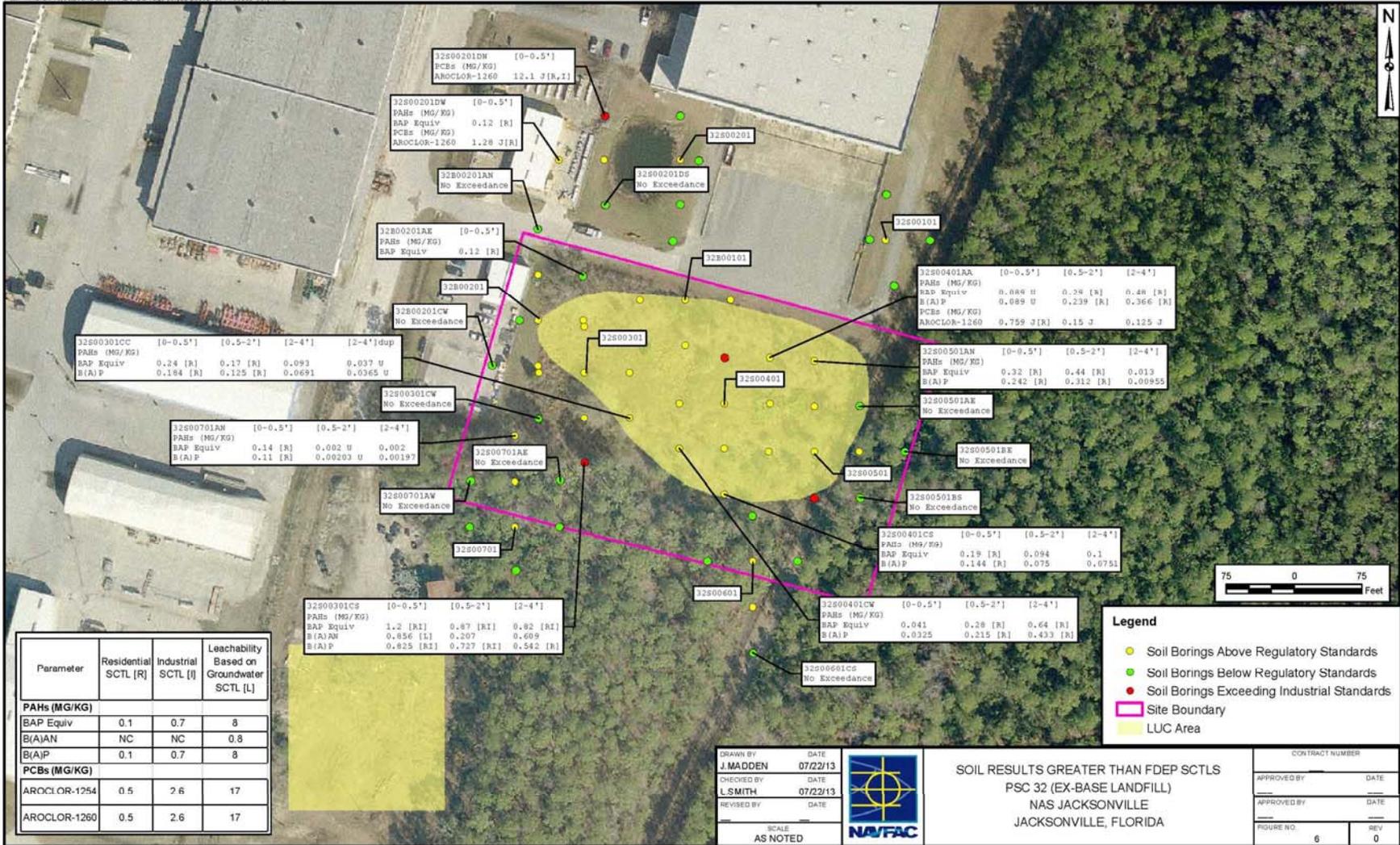


SOIL RESULTS GREATER THAN FDEP SCTLs
PSC 29 - ORGANIC DISPOSAL AREA
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	
APPROVED BY:	DATE:
APPROVED BY:	DATE:
FIGURE NO. 4	REV 0



Parameter	Residential SCTL [R]	Industrial SCTL [I]	Leachability Based on Groundwater SCTL [L]
METALS (MG/KG)			
BARIUM	120	130000	1600
CHROMIUM	210	470	38
PAHs (MG/KG)			
BAP Equiv	0.1	0.7	8
B(A)AN	NC	NC	0.8
B(A)P	0.1	0.7	8
B(B)FL	NC	NC	2.4
D(A,H)AN	NC	NC	0.7
PESTICIDES (MG/KG)			
DIELDRIN	0.06	0.3	0.002
PCBs (MG/KG)			
AROCLOR-1254	0.5	2.6	17
AROCLOR-1260	0.5	2.6	17



Parameter	Residential SCTL [R]	Industrial SCTL [I]	Leachability Based on Groundwater SCTL [L]
PAHs (MG/KG)			
BAP Equiv	0.1	0.7	8
B(A)AN	NC	NC	0.8
B(A)P	0.1	0.7	8
PCBs (MG/KG)			
AROCLOR-1254	0.5	2.6	17
AROCLOR-1260	0.5	2.6	17

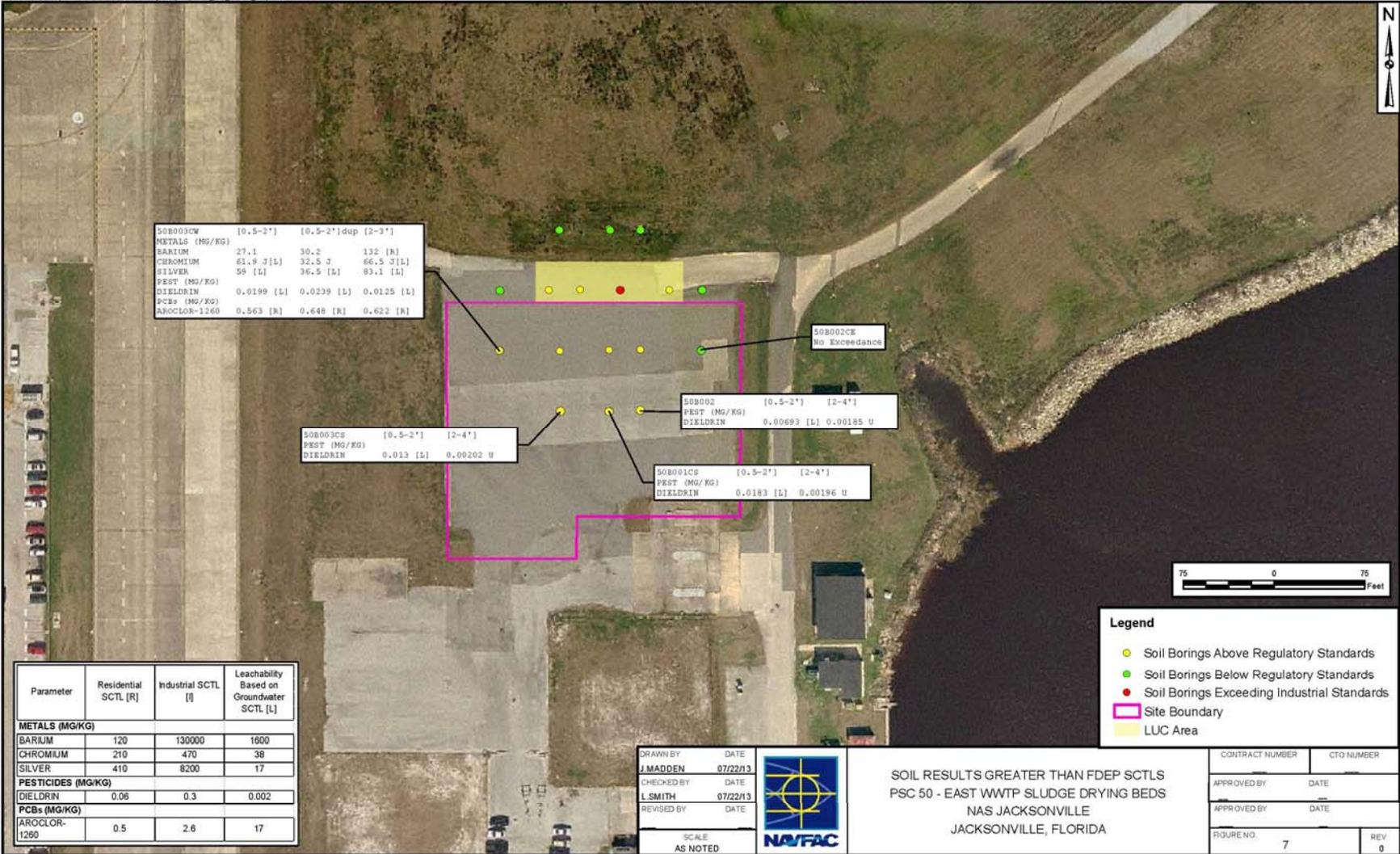
32800301CS	[0-0.5']	[0.5-2']	[2-4']
PAHs (MG/KG)			
BAP Equiv	1.2 [R]	0.87 [R]	0.82 [R]
B(A)AN	0.856 [I]	0.207	0.609
B(A)P	0.825 [R]	0.727 [R]	0.542 [R]

DRAWN BY	DATE
J.MADDEN	07/22/13
CHECKED BY	DATE
L.SMITH	07/22/13
REVISED BY	DATE
SCALE AS NOTED	



SOIL RESULTS GREATER THAN FDEP SCTLs
 PSC 32 (EX-BASE LANDFILL)
 NAS JACKSONVILLE
 JACKSONVILLE, FLORIDA

CONTRACT NUMBER	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO.	REV
6	0



50B003CW	10.5-2'	10.5-2' dup	(2-3')
METALS (MG/KG)			
BARIUM	27.1	30.2	132 [R]
CHROMIUM	61.9 [L]	32.5 []	66.5 [L]
SILVER	59 [L]	36.5 [L]	83.1 [L]
PESTS (MG/KG)			
DIELDRIN	0.0199 [L]	0.0239 [L]	0.0125 [L]
PCBS (MG/KG)			
AROCLOR-1260	0.563 [R]	0.648 [R]	0.622 [R]

50B002CE
No Exceedance

50B002	[0.5-2']	[2-4']
PEST (MG/KG)		
DIELDRIN	0.00693 [L]	0.00185 U

50B003CS	[0.5-2']	[2-4']
PEST (MG/KG)		
DIELDRIN	0.013 [L]	0.00202 W

50B001CS	[0.5-2']	[2-4']
PEST (MG/KG)		
DIELDRIN	0.0183 [L]	0.00196 U

Parameter	Residential SCTL [R]	Industrial SCTL [I]	Leachability Based on Groundwater SCTL [L]
METALS (MG/KG)			
BARIUM	120	130000	1600
CHROMIUM	210	470	38
SILVER	410	8200	17
PESTICIDES (MG/KG)			
DIELDRIN	0.06	0.3	0.002
PCBS (MG/KG)			
AROCLOR-1260	0.5	2.6	17

DRAWN BY: J.MADDEN
DATE: 07/22/13
CHECKED BY: L.SMITH
DATE: 07/22/13
REVISED BY: _____
DATE: _____

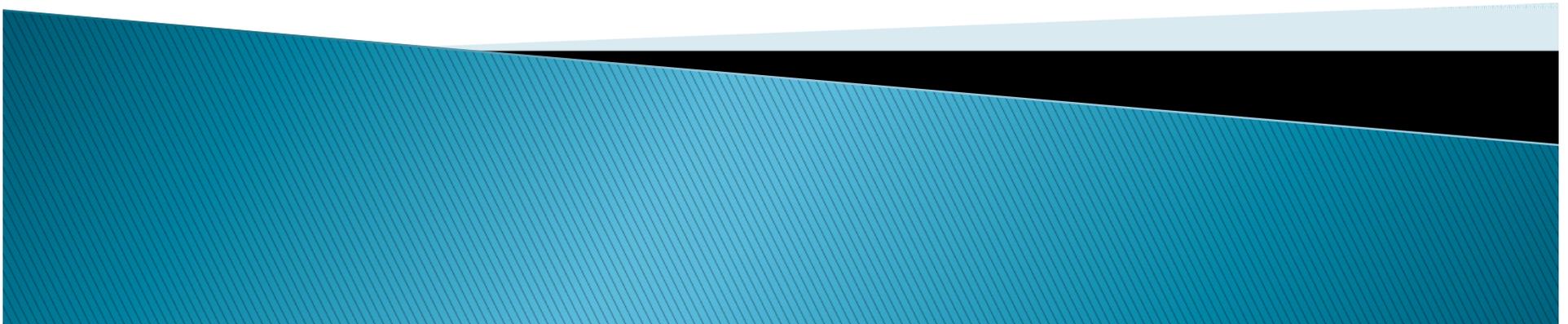


SOIL RESULTS GREATER THAN FDEP SCTLs
PSC 50 - EAST WWTP SLUDGE DRYING BEDS
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 7	REV 0

PSC 38 – Torpedo Rework Facility

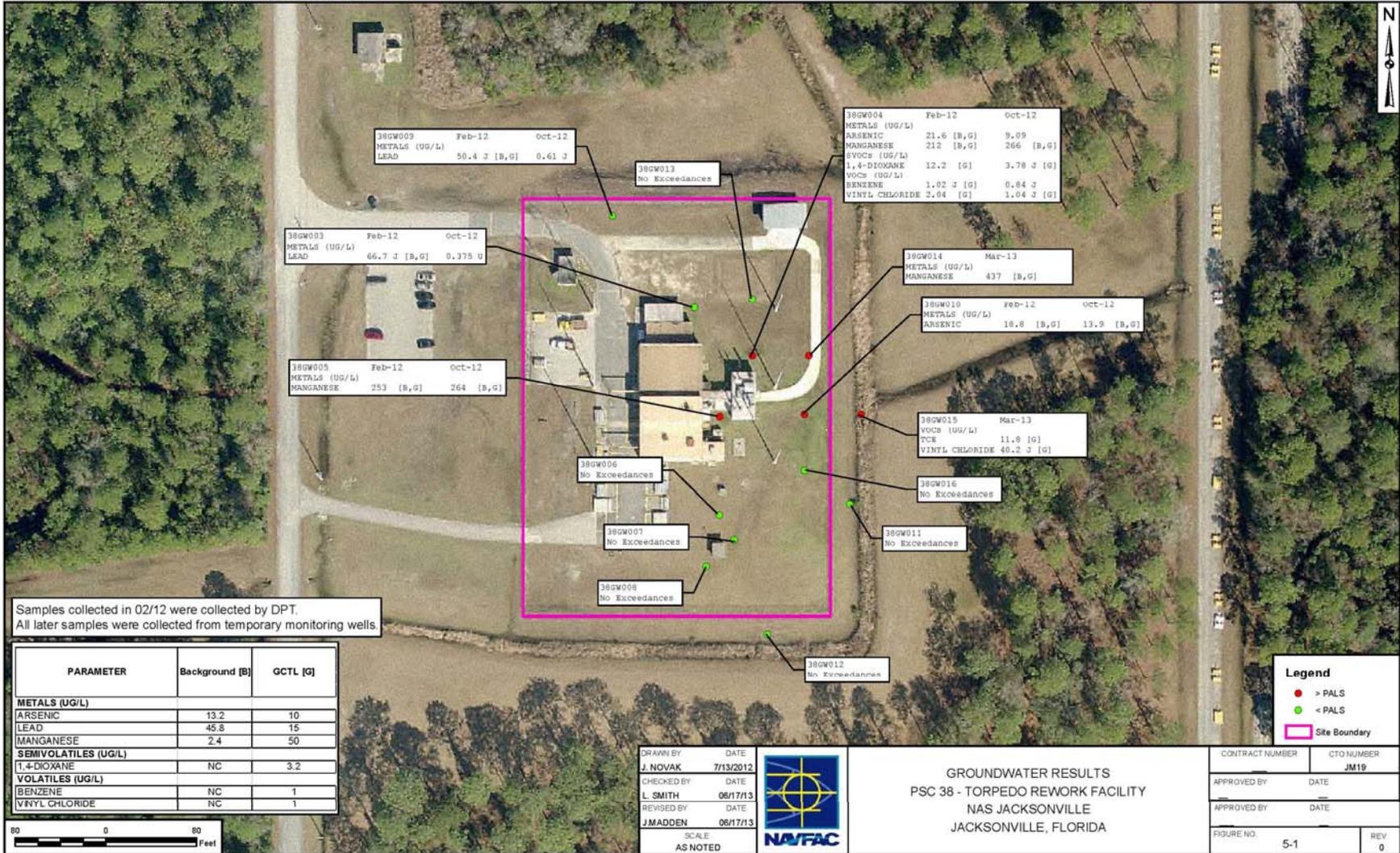
July 23, 2013



PSC 38 – Torpedo Rework Facility

- The Torpedo Rework Facility (PSC 38) encompasses approximately 2.5 acres within the restricted Magazine Area in the central-western portion of NAS Jacksonville.
- There are three buildings within PSC 38: Building 327, the Torpedo Rework Facility; Building 367, the Bulk Waste Storage Area; and Building 330, a storage building for paint and hazardous materials.
- The RI field work was conducted in three phases. Phase I was initiated in February 2012, Phase II was initiated in October 2012, and Phase III was initiated in March 2013.





Samples collected in 02/12 were collected by DPT.
All later samples were collected from temporary monitoring wells.

PARAMETER	Background [B]	QCTL [G]
METALS (UG/L)		
ARSENIC	13.2	10
LEAD	45.8	15
MANGANESE	2.4	50
SEMIVOLATILES (UG/L)		
1,4-DIOXANE	NC	3.2
VOLATILES (UG/L)		
BENZENE	NC	1
VINYL CHLORIDE	NC	1



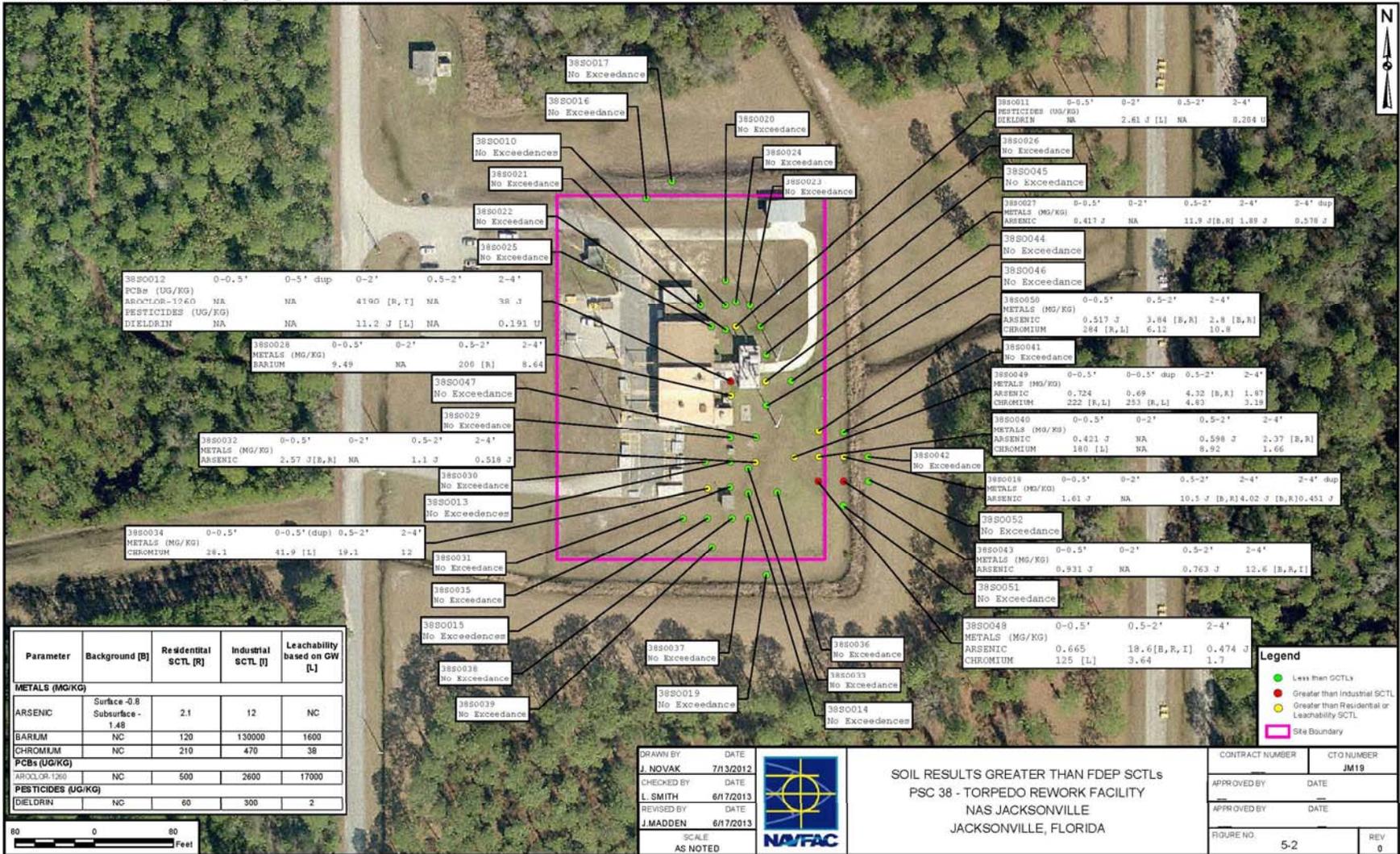
DRAWN BY: J. NOVAK
DATE: 7/13/2012
CHECKED BY: L. SMITH
DATE: 06/17/13
REVISED BY: J. MADDEN
DATE: 06/17/13



SCALE: AS NOTED

GROUNDWATER RESULTS
PSC 38 - TORPEDO REWORK FACILITY
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
	JM19
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO.	REV
5-1	0



38S0012	0-0.5'	0-5' dup	0-2'	0.5-2'	2-4'
PCBs (UG/KG)					
ARSDIOL-19 KD	NA	NA	4190 [R, I]	NA	38 J
PESTICIDES (UG/KG)					
DIELDRIN	NA	NA	11.2 J [L]	NA	0.191 U

38S0028	0-0.5'	0-2'	0.5-2'	2-4'
METALS (MG/KG)				
BARIIUM	9.49	NA	208 [R]	8.64

38S0032	0-0.5'	0-2'	0.5-2'	2-4'
METALS (MG/KG)				
ARSENIC	2.57 J [B, R]	NA	1.1 J	0.519 J

38S0034	0-0.5'	0-0.5' (dup)	0.5-2'	2-4'
METALS (MG/KG)				
CHROMIUM	28.1	41.9 [L]	19.1	12

Parameter	Background [B]	Residential SCTL [R]	Industrial SCTL [I]	Leachability based on GW [L]
METALS (MG/KG)				
ARSENIC	Surface -0.8 Subsurface - 1.48	2.1	12	NC
BARIIUM	NC	120	130000	1600
CHROMIUM	NC	210	470	38
PCBs (UG/KG)				
ARSDIOL-19 KD	NC	500	2600	17000
PESTICIDES (UG/KG)				
DIELDRIN	NC	60	300	2

DRAWN BY: J. NOVAK
 CHECKED BY: L. SMITH
 REVISID BY: J. MADDEN
 DATE: 7/13/2012
 DATE: 6/17/2013
 DATE: 6/17/2013
 SCALE: AS NOTED



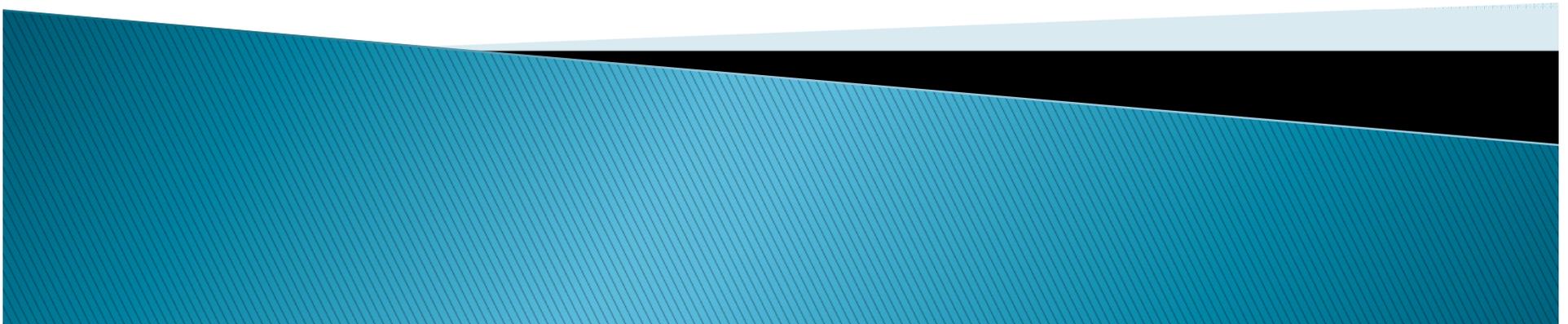
SOIL RESULTS GREATER THAN FDEP SCTLs
 PSC 38 - TORPEDO REWORK FACILITY
 NAS JACKSONVILLE
 JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
	JM19
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO.	REV
5-2	0



Site Investigation PSC 57: S-3 High Power Turn Up Pad

July 23, 2013





Site

Legend

- Site Location
- Installation Boundary



FIGURE ES-2
 SITE LOCATION MAP
 PSC 57 - HIGH POWER TURN UP PAD
 NAS JACKSONVILLE
 JACKSONVILLE, FLORIDA

NAVFAC
 Naval Facilities Engineering Command

REGULATORY OVERSIGHT

FILED BY: TH/11A	DATE: 01/30/12
DRAWN BY: 100	TASK ORDER NUMBER:

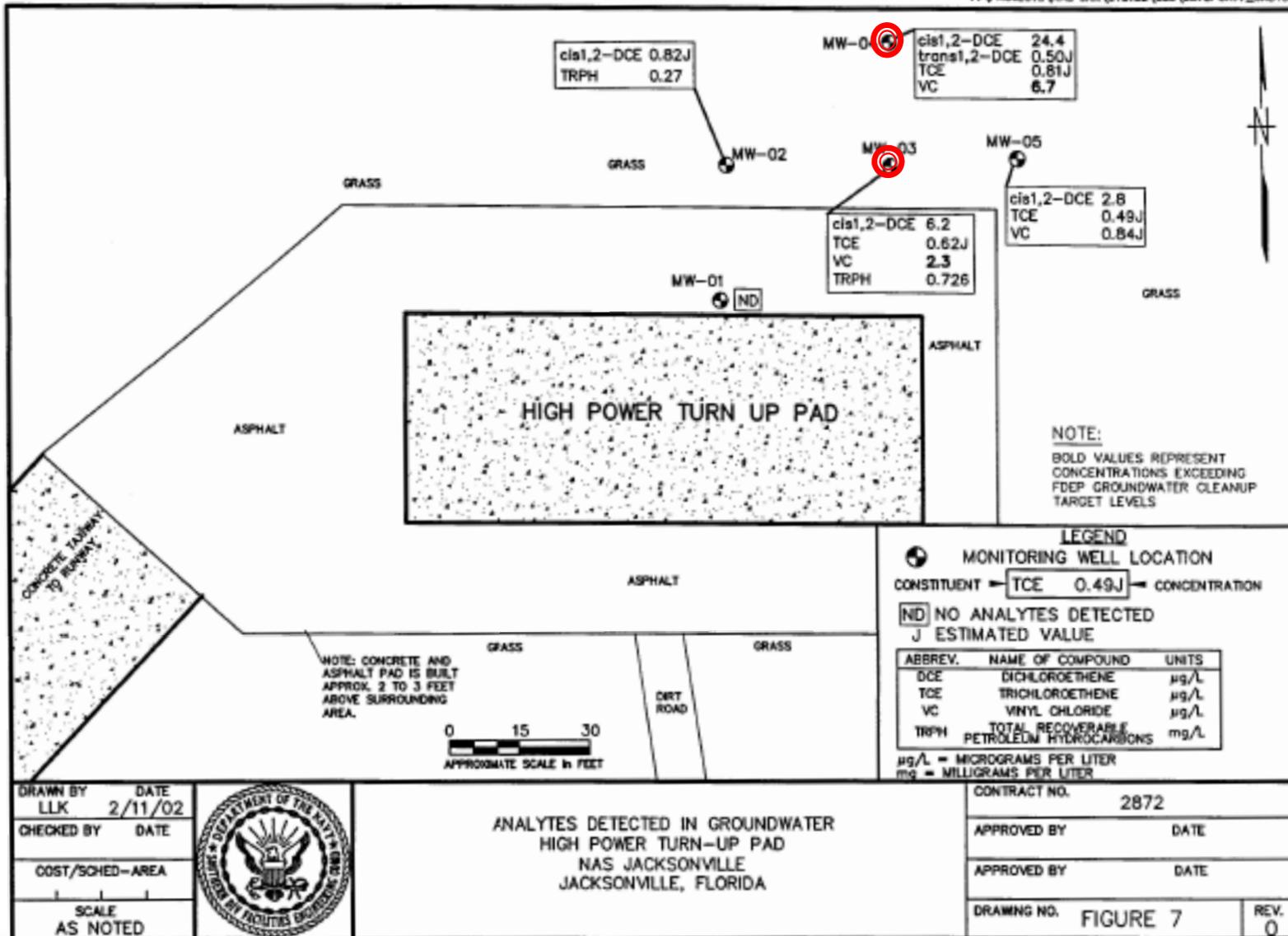
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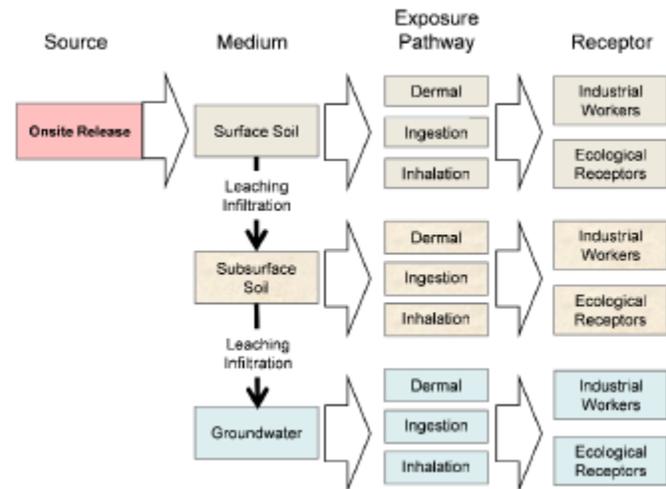
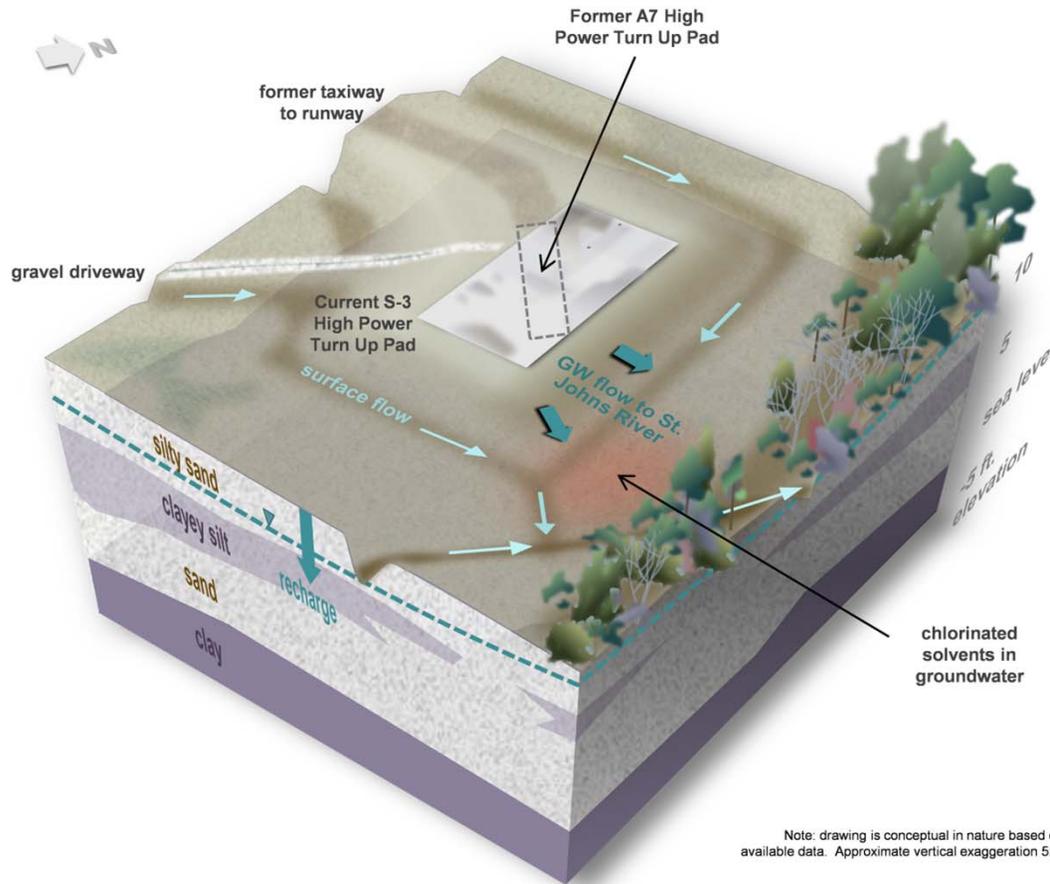
Old A7 High Power Turn Up Pad
Prior to Demolition in 1997



S-3 High Power Turn Up Pad Circa 2002



Conceptual Site Model



Site Inspection Goal

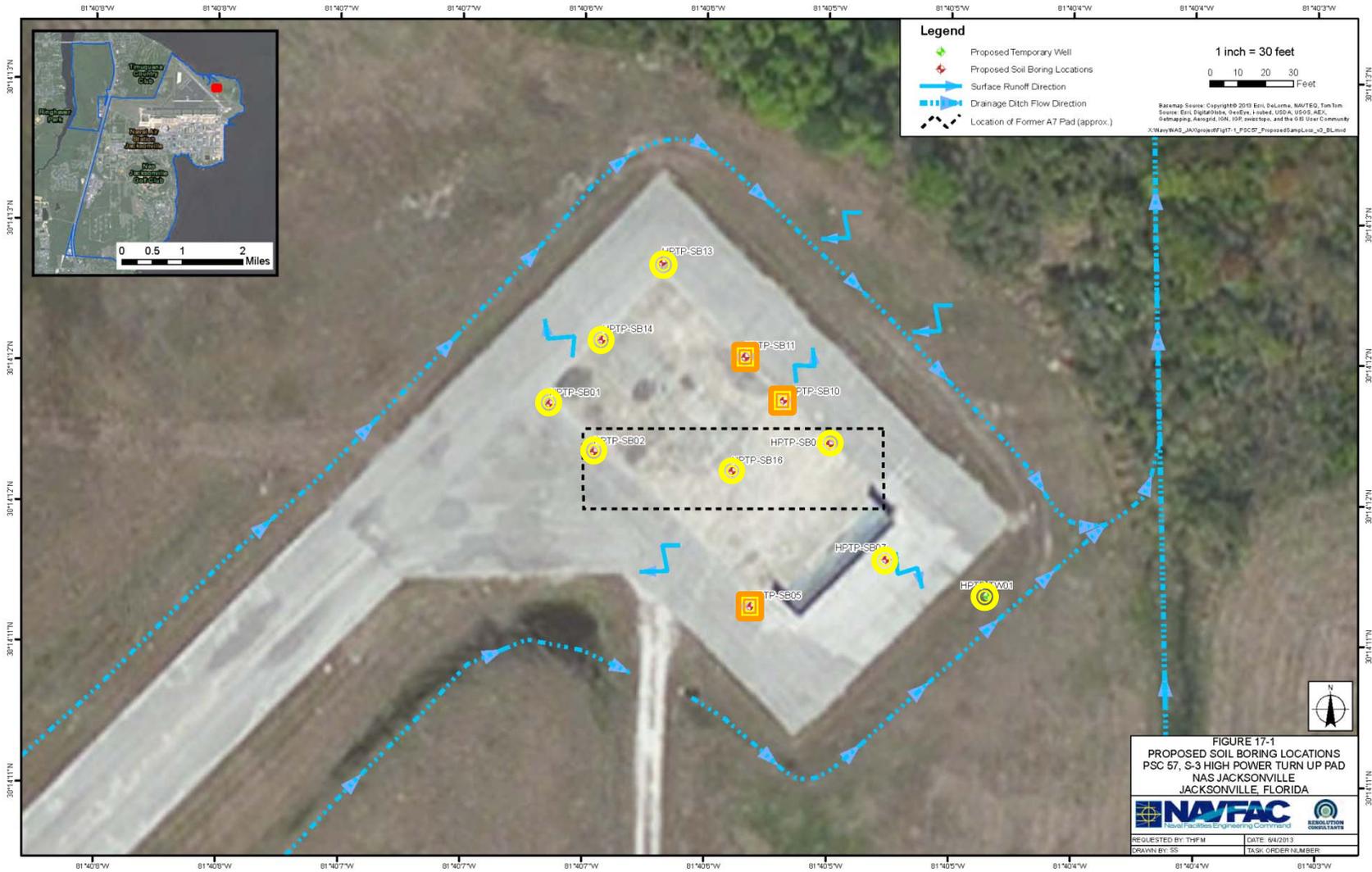
Determine whether constituents previously detected are still present and assess potential threats to human health and the environment at the Site through a screening level evaluation of the data.



Proposed Soil Sampling Effort

- ▶ Collect soil samples from 11 boring locations
- ▶ Samples will be submitted to a fixed based lab and analyzed for the following parameters:
 - Volatile Organic Compounds (VOCs)
 - PAHs
 - Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver)





Proposed Groundwater Sampling Effort

- ▶ Resample the five existing permanent wells
- ▶ Install and sample one temporary well
- ▶ Submit samples to a fixed based lab for the following analytical parameters:
 - VOCs
 - PAHs
 - Metals





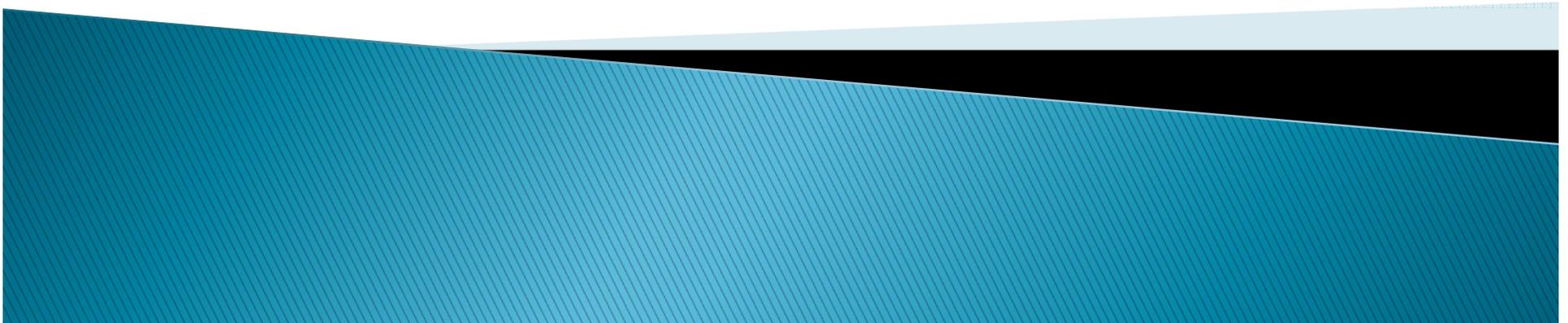
Next Steps

- ▶ Finalize and Implement the UFP-SAP
- ▶ Prepare the SI Report



Community Involvement Plan Update

July 23, 2013



Community Involvement Plan Update

- ▶ Formerly called: “Community Relations Plan”
- ▶ Last update: March 1998
- ▶ Contains a profile of NAS Jacksonville Installation Restoration Program and Munitions Response Program activities
- ▶ Outlines a plan for community outreach through:
 - Distribution of information (newsletters, fact sheets, document repository)
 - Establishment of Restoration Advisory Board
 - Public meetings



Community Involvement Plan Update

- ▶ Plan update will follow latest EPA Guidance (April 2005)
- ▶ New name: “Community Involvement Plan”
- ▶ Goal: develop a plan that reflects the level of collaboration desired by the community
- ▶ Process: seek community input through online survey in August–September 2013
- ▶ Sign up to receive notice of the survey.



Additional Discussion/Questions

