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NCBC GULFPORT
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TIER I PARTNERING TEAM MEETING MINUTES 4 AND 5 NOVEMBER 2014 NCBC GULFPORT MS

11/5/2014

TETRA TECH INC

NCBC GULFPORT TIER I PARTNERING TEAM MEETING MINUTES
GULFPORT, MISSISSIPPI
NOVEMBER 4-5, 2014

MEETING ATTENDEES

Core Team Members:

Steve Carriere	CB&I, Project Manager	steve.carriere@cbifederalservices.com
Gordon Crane	NCBC Gulfport, IRP Manager	
Dave Felter	Resolution Consultants, Project Manager	
Bob Fisher	Navy RPM	
Bob Merrill	MDEQ Regulator	
Jon Overholtzer	CH2M HILL, Project Manager	
Greg Roof	Tetra Tech, Project Manager	

Adjunct Members:

Paul Jobmann	Resolution Consultants (Day 2)
Lisa Noble	NCBC Gulfport
Bill Olson	Tetra Tech
Derrick Rogers	Aerostar (Day 1)

Support Members/Guests:

Libby Claggett	Tetra Tech, Scribe
Jim Dunn	CB&I, Project Manager (Day 1)
Nancy Rouse	The Management Edge, Facilitator

Absent:
None

1. Meeting Opening

The meeting began at 9:15 a.m. CT. The Team checked in and shared events since the last meeting. The ground rules were read. The meeting leader will be Bob Merrill, and the timekeeper will be Greg Roof.

2. Approval of Minutes

Team members reviewed and approved the July 2014 minutes with corrections.

Consensus Item: The July 2014 meeting minutes were approved as final.

Team members reviewed action items under the topics with which they were related.

General Action Items

A-0414-04	Bob Fisher	**OBE**	By 5/16/2014	Bob Fisher is to complete the outline of the CNO award entry and send to Team members for review.
A-0714-01	Bob Fisher	**Done**	By 7/22/2014	Bob Fisher is to send the NIRIS Quick Start Guide and Quick Access Guide to Team members.
A-0714-02	Bob Fisher	Ongoing	By 7/17/2014	Bob Fisher is to show people in Gordon's office how to use the LUC Tracker. **Update 11-2014:** Will be done later this week.
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A-0714-12	Gordon Crane	**Done**	Before the next meeting	Gordon is to investigate getting internet access in the meeting room at NCBC Gulfport.
A-0714-13	Bob Fisher	Ongoing	Before the next meeting	Bob F. is to finalize the MOA for long-term monitoring.
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A-0714-16	Gordon and Nancy	Ongoing	By the next meeting	Gordon and Nancy are going to present a revised Exit Strategy at the next meeting. **Update 11-2014:** This will be done on Day 2.
A-0714-17	Bob Fisher	**Done**	By 8/15/2014	Bob F. is to engage the Navy Marine Corps Public Health Service to determine if ATSDR needs to be re-engaged for a public health assessment. **Update 11-2014:** Bob Fisher spoke with them, and this will not happen at this time.

3. Previous Plus/Delta and Parking Lot

Team members reviewed and updated the parking lot and reviewed the July 2014 plus/deltas.

Plus/Delta	
+	Δ
Positive social atmosphere	Limited internet access
Off base property timber discussion exercise	
Focused Team discussions	
Nice meeting room	
New Team members integrated seamlessly	
New Team members felt welcomed	
Good presentations	
Team members well prepared	
Good schedule flexibility	
Good participation from Team	
CNO Award discussion	
Effective brainstorming activity	
Site 3 inspection went well	

4. Agenda Review

Team members reviewed the agenda and made modifications accordingly.

5. Review of RAB Meeting

There were two community members at the RAB meeting Monday night. Interest was shown regarding the connector road and the Mississippi Department of Transportation. A community member asked if there was a connection between contamination at the installation and the dirty beaches, which were caused by Hurricane Katrina.

Nancy asked about getting more community members to the meetings. Robert Mims (Public Affairs Officer) said a press could be done to help increase public interest/awareness; however, the Navy does press releases. Sue Brinks is the person who writes press releases for the Navy. It is better to have community members to get information directly rather than by word of mouth. Bob Fisher said a Navy press release is national and not just for Gulfport.

Gordon suggested sending the "movers and shakers" a packet of the RAB meeting materials after the meeting in order to gain more curiosity regarding the meetings. Dave suggested putting flyers in public places (groceries, libraries, etc.) before the meetings. Nancy suggested adding the library to the mailing list. Bob Fisher suggested having more local advertising for the RAB meetings.

Action Item: Gordon is to find out if "What's Happening" is still available and if the Team should have a RAB meeting notification there.

The churches that are on the current mailing list are ones that stated they wanted to be on the list; other churches were removed.

Regarding sampling on Landon Road and Canal, the Navy lawyer suggested since there is no connection, there is no reason to sample. The land was a municipal landfill. Bob Merrill stated that if the property was an unpermitted landfill, it should be a Superfund site.

Action Item: Gordon is to send contact information to Bob Fisher to send to Fred Boykin regarding the Landon Road landfill.

6. RPM Update

Additional money has been programmed for Site 7. The cover will need to be more robust than the cover at Site 2 (more like Site 5).

Cost models were built for Site 8 and the cement stand. The price increase was discussed and accepted. The Site 8 work will happen over three funding cycles.

RPM changes are still unknown at this time. Bob Fisher will continue to stay engaged at this level and Tier II to ensure the path forward for Site 8.

7. Tier II Update

The last meeting was in September 2014. Statewide topics included site updates and agency personnel updates. Background sampling and information not previously seen by the Navy was provided. No policy discussions specific to Navy sites were held.

8. Base Update

Sites 8B and 8C solar panel project will not happen. (Update, the site 8 solar power project is still being evaluated.) The solar panel project at Site 5 continues.

The installation wants to remove the equipment pad and fencing on the western side of Site 1.

The REPI project, which will benefit the off-base owners, took the road out (at the off base area of concern). The property was identified and approved as an appropriate property and is now in the program. The REPI project is looking for an investor to buy the property.

Site 3 is being used for exercise and PT.

There is a proposal to put a fire training tower on Site 8C. The entire project would take about 1 acre of Site 8C. Funding is being investigated.

Building 340 is being prepared for demolition next week, and the tanks and pipes will be removed. There is a possibility soil contamination may be found. If contamination is found, this will become a new site.

9. Site 2 Update / Sites 1 and 2 Construction Update

A-0714-03	Greg Roof	**Done**		Greg is to send Bob M. the redline of the Site 2 FS.
A-0714-04	Greg Roof	**Done**	Before issuing the final	Greg is to ensure the dioxin sample is discussed in the Proposed Plan and Design Document for Site 2.
A-0714-05	Greg Roof	**Done**	Before issuing the final	Greg is to adjust the Site 2 Decision Document to have the figures show the Site 7 boundary.
A-0714-06	Greg Roof	**Done**	By 8/1/2014	Greg is to send Jim Dunn the Site 2 Basis of Design for quantities.
A-0714-07	Gordon Crane	**OBE**	By 7/18/2014	Gordon is to check if the library is available for a public meeting for Site 2 on Thursday, August 14, 2014, at 1:00 p.m. CT.

Site 1 is good to go, and the permits are in place for Site 2. The Proposed Plan for Site 2 is in Navy legal review. Site 1 will begin first, and then the crew will mobilize to Site 2 approximately 1 week later. Work could begin in about 2 weeks. Bob Merrill received documents on October 6, 2014, and has one reviewed. Any comments on the documents from MDEQ will be sent to the Navy, and the Navy will forward the comments to the contractor. Site 1 has been reviewed, and Bob Merrill is working on Site 2 (started it on Friday).

CB&I's Site 1 Work Plan does not have the actual contaminant mentioned on Page 1-2; it is first mentioned on Page 3-5, paragraph 3. Bob Merrill said this needs to be in the beginning of the document along with the method used. Bob Merrill also stated that confirmatory sampling is needed to demonstrate the contaminant was removed. Jim Dunn stated he thought the confirmatory sampling was done by Tetra Tech. Greg Roof said that dieldrin would be excavated in the upper 2 feet of soil. Tetra Tech conducted horizontal sampling, but not vertical; thus, the site is pre-characterized from a horizontal perspective. Upon this information, Bob Merrill stated the text should be clarified.

Jim stated they do not want to begin Site 1 until they have the path forward for Site 2. For Site 2, the pond will be emptied, a geotextile liner will be added, and then the pond will be filled with soil. Bob Fisher said the concern with the pond is that part of the landfill is exposed in the bottom of the pond. Bill Olson confirmed there is metallic debris under the northern end of the pond. The site will be re-graded and filled. All waste will be covered, and the pond will be gone. A permit was approved to fill in the pond. The southern end of Site 2 will become a parking area. Jim asked if they could begin work at Site 2 prior to formal approval of the Work Plan, and Bob Merrill agreed.

The installation will be providing a small portion of the fill for Site 2. The landfill will be sodded, but the borrow area may be seed or sod, depending on remaining funding.

Jim stated they would like to begin work on Site 1 at the beginning of December. Jim asked if they can use the western gravel parking area for their site laydown. Gordon said if the lot was rutted after use, CB&I would have to repair it. The installation wants to eventually want to strip off the gravel from that lot and let it go back to grass. Lisa Nobel said that she wants to confirm everything before giving the okay to use the lot. CB&I would like to begin Site 2 about 1 week after the startup of Site 1 and is looking at 3 to 4 months for total construction. If work begins December 1, 2014, the anticipated end date is March 31, 2015, dependent upon weather.

Action Item: Lisa is to confirm if CB&I can use the western gravel parking lot at Site 1 to use as a laydown area for work at Sites 1 and 2.

10. Site 7 Test Pitting – Initial Observations

A-0714-08	Bill Olson	**OBE**	Before issuing the document	Bill is to ensure that blue Tyvek (in lieu of white) for the workers will be stated in the Site 7 HASP.
A-0714-09	Bill Olson	**OBE**	Before digging the trenches	Bill is to inform the Team of when the trenches will be dug at Site 7.
A-0714-10	Greg Roof	**Done**	By 8/1/2014	Greg is to develop a 1-page information sheet to be given to people in housing near Site 7.

Bill Olson provided a presentation on the Site 7 Test Pit Investigation. Site 7 is a 3-acre rubble landfill that operated from 1978 to 1984. During the remedial investigation, soil sampling was conducted with the intent of installing a soil cover. A magnetometer survey indicted buried metallic debris. TCDD was found in soil at levels higher than expected and indicated the probability of an herbicide orange (HO) source. Anomalies were detected using ground penetrating radar.

Ten test trenches were excavated and ranged from 15 feet to 75 feet (depending the size of the anomaly) to an average depth of 5 feet. Soil and landfill debris were returned to the excavation. Metallic objects were kept separate for further investigation, decontamination, and recycling (where appropriate). Numerous metallic objects were encountered, none of which were drums. Analytical samples were collected from nine of the trenches. Preliminary analytical results are expected in mid-November.

11. Site 6 Treatability Study

Bill Olson provided a presentation on the Site 6 Treatability Study Update. Site 6 was a former firefighting training area that operated from 1966 to 1975. The site is currently in long-term monitoring (LTM).

During the September 2013 monitoring event, seven wells were sampled. The contaminants of concern (COCs) detected were vinyl chloride, naphthalene, and diesel range organics (DRO). Free product was not detected in wells that have had product in the past. COC concentrations have not significantly changed over the monitored interval. The COCs are suitable for aerobic treatment. BIOX® was selected as the treatment. The treatability study will be conducted in four phases: 1) baseline data (most current LTM data), 2) stage 1 delineation (83 injection points), 3) stage 2 full scale application (225 injection points), and 4) performance monitoring (quarterly groundwater sampling).

The Site 6 Treatability Study Work Plan was sent to the Navy for review on October 31, 2014.

12. Site 8 Optimization

A-0114-04	Greg Roof	**OBE**	By 1/30/2014	Greg is to provide pricing on installing wattles around the mounds at Sites 8B and 8C and include in the concurrence letter. **Update 04-2014:** Greg has the pricing and is working on the concurrence letter.

Bill Olson provided a presentation on the Site 8 Remedial Action Optimization. Site 8 consists of leaks and spills from HO drum storage, erosion and transport of surface soil and ash, deposition as sediment in ditches, and bed load transport of sediment downstream. A time critical removal action was conducted in 2003 (with 93% of the analytical results less than the TRG) and a remedial action was conducted in 2006. The cleanup goals for restricted use of the site were achieved with both actions.

LTM sediment sampling identified dioxins at elevated concentrations. Alternative transport paths will be evaluated. Site 8B will have additional surface soil delineation; remedial action reports do not indicate this area was ever remediated. Site 8C will also have additional surface soil delineation since ditch sampling indicated concentrations at elevated levels.

The draft-final UFP-SAP for Site 8 was sent to the Navy and MDEQ for review on September 26, 2014. Greg asked Bob Merrill if the investigation could be started while the MDEQ is reviewing the UFP-SAP, and Bob Merrill said it would be okay. Field work is anticipated to begin at the end of November 2014.

13. Construction Update

Jon Overholtzer provided a presentation on the Haul Road Removal. The haul road was a construction road built off base to gain access to sites containing HO to remove contaminated soil. CH2M HILL removed 2,838 feet of the corduroy roadway, 4,838 cubic yards of soil (709 truck loads), and 81 truck loads of logs. The logs were taken to the City of Gulfport landfill. The roadbed was restored to the surrounding wetlands, and a new earthen pad was stabilized. A metal gate and fence were installed at 58th Avenue.

Action Item: Jon is to include the coordinates of the road in the final report for the haul road removal.

14. Off-Base Long-term Lease/Access

Two off-base properties are currently zoned for business. The Navy still needs access to monitor and sample the areas. The process for either a long-term lease or easement with the land owners has been started. If the property is sold, the deed restriction would transfer and the Navy would retain control of the easement (if that is what is agreed to). Gordon suggested speaking to the land owners before the Navy real estate people contact them. The Bennett property is approximately 1.3 acres.

Bob Fisher is in the process of writing a proposal that demonstrates the need for an easement and access to the properties. Gordon said the REPI project is approved, but would not be implemented until 2015. Lisa stated the installation has a new Community Planning Liaison Officer, and Gordon said they would need to see where this person fits in for this project.

15. End Day 1

Team members reviewed action items generated on Day 1 and began a plus/delta list.

DAY 2

The meeting began at 9:45 a.m. CT.

16. Check-In/Opening Remarks

Team members shared events of the previous evening.

17. Soil Stabilization Plan for Site 8/Solar Panel Project

Paul Jobmann provided a presentation on the Site 8 Sediment Stabilization Tests. Sediments containing dioxins generated during ditch maintenance activities are stockpiled on the northern end of Site 8B. There are approximately 12,000 cubic yards of stockpiled material. Treatability and pilot tests will be conducted on the stockpiled materials. There is a small stockpile of gravel that was not included in the value estimate and will not be stabilized.

Sediments will be excavated from the ditches (approximately 1,200 cubic yards) and stabilized during the pilot test. One section of ditch will be addressed by installing a concrete channel or pipe with catch basins. Confirmation samples will be collected after the ditches are excavated.

The treatability test of the sediments will determine the ratio of Portland cement necessary to stabilize the stockpiled sediment. The lowest ratio of Portland that achieves goals will be applied to the stockpiled sediment. Historical Air Force excavations will be filled in first, and remaining stabilized sediments will be spread across Sites 8B and 8C (assuming a 1-foot lift).

The treatability test is anticipated for December 2014 with the stockpiled sediment pilot test in January 2015 and the drainage swale sediment pilot test in February to March 2015.

Bob Fisher suggested waiting on the stabilization at Site 8C to see what happens with the proposed fire training tower. Future use of Site 8 is anticipated to be open storage.

Discussion ensued regarding the concrete chunks on the site. Bob Fisher suggested pulverizing the concrete chunks and using it as rip rap on site.

Once completed, a RAC contractor will come in and put a final surface on Sites 8B and 8C to use as a laydown area.

Gordon asked if a Proposed Plan would have to be completed for the site, and Bob Fisher confirmed it would.

The APP and HASP will be ready for submittal in the next two weeks. The UFP-SAP is also ready for submission. Dave asked if Resolution Consultants could keep the SWPPP as a separate document and submit the other work plans under one binder. Bob Fisher stated this is an acceptable practice and that Resolution Consultants can begin with the bench scale test while in the process of finalizing the work plans. Dave stated they would provide a Technical Memorandum prior to the treatability study.

18. New Member Induction

Steve Carriere (CB&I), Dave Felter (Resolution Consultants), and Paul Jobmann (Resolution Consultants) were inducted onto the Team. Team members provided a short summary of their professional background, something about their personal life, and information they would like the new members to know about working on this Team. The new members shared their information with Team members.

Steve and Jim will both be participating on the Team at different times as their projects dictate.

Action Item: Nancy is to send the Team roster to Team members.

19. Review of Adjunct Member Roles

Nancy provided information on the roles of Team members. There are three roles on Tier I Teams: core, adjunct, and support.

Core: Those who need to be present for all meetings and whose consent is required for all decisions.

Adjunct: Those who need to be present for certain discussions and whose consent is required for <u>some</u> decisions.

Support: All others who attend Team meetings (frequently technical support). No consensus rights.

The Team reached consensus on the following Team roles:

<u>Core Team Members</u>:

Steve Carriere	CB&I, Project Manager
Gordon Crane	NCBC Gulfport, IRP Manager
Dave Felter	Resolution Consultants, Project Manager
Bob Fisher	Navy RPM
Bob Merrill	MDEQ Regulator
Jon Overholtzer	CH2M HILL, Project Manager
Greg Roof	Tetra Tech, Project Manager

Adjunct Members:

Paul Jobmann	Resolution Consultants
Lisa Noble	NCBC Gulfport
Bill Olson	Tetra Tech
Derrick Rogers	Aerostar

Support Members:

Libby Claggett	Tetra Tech, Scribe
Jim Dunn	CB&I, Project Manager
Nancy Rouse	The Management Edge, Facilitator

20. Community Involvement / Community Involvement Plan

A-0414-02	Gordon and Nancy	Ongoing	By 5/15/2014	Gordon and Nancy are to revise the CIP and send to Bob Fisher for finalization in-house.

Nancy Rouse provided handouts of the Community Involvement Plan (CIP) Implementation Review and Implementation Strategy. The first three columns were taken out of the existing CIP, which was never finalized. The next two columns provide thoughts about the recommendation and how to implement the recommendations.

Gordon asked if the CO or public affairs needs to review the document before it goes to Sue Brinks. Bob Fisher suggested updating the document, put a 2014 date on it, and send it to Sue.

One recommendation was to get information to the public. Bob Fisher suggesting pulling people to the side at the RAB meeting and asking them about the information received and ways to get information to more people. There is a local paper called “Hot Coffee, Good News” that is free to the public.

Action Item: Gordon is to investigate if a RAB meeting notice can be put in the local paper “Hot Coffee, Good News”.

Nancy suggested putting a RAB meeting announcement in the public library. Another suggestion was switching the RAB meetings to a daytime meeting. Bob Fisher suggested having the poster session open to the public earlier in the day and possibly holding the meeting at the public library.

Greg raised the question of why try to re-engage the public if they do not have any interest. Nancy stated the survey results did not indicate the public was apathetic. Bob Fisher is concerned the public does not understand what is going on even when they do attend the RAB meeting. Nancy said the public interviews were conducted more than three years ago; at that time, the RAB meetings were very technical and not much time was put into preparing for the meetings. The meeting format has been changed and the materials simplified.

Dave stated keeping the lines of communication with the public open is of utmost value and could alleviate problems down the road should the public become more concerned with activities at the installation.

One community member has already stated that he likes to research information and likes having the RAB information on the website. Bob Fisher suggested having a counter on the website to monitor how many people are using it; however, it is not possible at this time due to the software being used for the public website. More energy needs to be directed to keeping the Public Outreach tab on the website updated. Bob Fisher also suggested having a link with email addresses should a community member have a question or concern. Bill suggested getting the website moved up in search engines.

Action Item: Nancy is to ensure the Proposed Plan mail out contains information regarding the public website.

The Information Repository is available on the website, and a physical hardcopy does not have to be maintained; however, Gordon keeps a copy of Proposed Plans, posters, fact sheets, and other community outreach documents.

Other community concerns/perceptions from the handout were discussed by Team members. The website will address most of the public concerns. Nancy stated she would like to see the history of the dioxins be on the public website as soon as possible.

21. Exit Strategy Review

Team members reviewed and updated the Exit Strategy accordingly.

22. Round Table Discussion

Team members proceeded to discuss topics that were not on the agenda.

23. Review Action Items and Consensus Items

Team members reviewed the action items and consensus items.

24. Next Tier I and RAB Meeting Dates and Agenda

Next Meeting: February 10-11, 2015 (Tuesday and Wednesday), beginning at 9:00 a.m. CT on Day 1
Location: Gulfport, Mississippi
Meeting Leader: Greg Roof
Timekeeper: Gordon Crane
Next RAB Meeting Date: Monday, February 9, 2015

February 2015 Proposed Meeting Agenda			
Description	**Presenter**	**Time**	**Category/ Expectation**
Meeting Opening: Check in, opening remarks, resource sharing, announcements, head count, and proxy assignments	Leader	15 min	Standard
Review Ground Rules	All	5 min	Standard
Minutes Approval	Leader	15 min	Consensus
Action Item / Parking Lot / Previous +/Δ Review	Leader	15 min	Standard
Agenda Review	All	5 min	Standard
Site 1 Update	Jim Dunn	30 min	Information
Site 2 Update	Greg Roof	30 min	Information
Site 6 Optimization	Greg Roof	30 min	Discussion
Site 7 Update	Greg Roof	30 min	Information
Site 8 Updates	Greg Roof/ Paul Jobmann	60 min	Discussion
LTM/Background Study Update	Derrick Rogers	30 min	Information
Base Update	Gordon Crane	15 min	Information
RPM Update	Bob Fisher	15 min	Information
Tier II Update	Bob Fisher	15 min	Information
Integration of New CLEAN Contractor	Bob Fisher	30 min	Discussion
Community Involvement Plan / RAB Meeting Review	Gordon Crane	45 min	Information
Exit Strategy Review	Greg Roof	15 min	Standard
Training	Nancy Rouse	60 min	Learning
Round Table Discussion	All	15 min	Standard
Facilitator Feedback	Nancy Rouse	15 min	Standard

February 2015 Proposed Meeting Agenda			
Description	**Presenter**	**Time**	**Category/ Expectation**
Meeting Closeout: Review dates of next meeting, prepare next meeting agenda, review action item list, and create +/Δ list	Team	30 min	Standard

Future Meeting Dates

Dates	Location
May 12-13, 2015	Gulfport, Mississippi

Agenda Calls

Tuesday, January 6, 2015, 2:00 p.m. EST

25. February 2015 RAB Meeting Content

Sites 1 and 2 ongoing remedial action
Site 6 optimization
Site 8 optimization and stabilization

26. Plus/Delta, Meeting Accomplishments, Facilitator Feedback

Plus/Delta	
+	Δ
Good technical discussions	No internet
Approval from MDEQ to begin Site 8 optimization	Some members had to leave the meeting early
Good presentations	
Approval to begin field activities at Site 6	
Approvals and process for Sites 1 and 2	
CIP discussion	
Clarification of Team members' roles	
Participation in welcoming new members	

Action Item: Nancy is to verify if Steve has had POB training or not.

Action Items				
Action Item #	**Responsible Party**	**Status**	**Due Date**	**Action Item**
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A-1114-04	Jon Overholtzer		By 11/30/2014	Jon is to include the coordinates of the road in the final report for the haul road removal.
A-1114-05	Nancy Rouse		By 11/08/2014	Nancy is to send the Team roster to Team members.
A-1114-06	Gordon Crane		By 11/30/2014	Gordon is to investigate if a RAB meeting notice can be put in the local paper "Hot Coffee, Good News".
A-1114-07	Nancy Rouse		Before the next meeting	Nancy is to ensure the Proposed Plan mail out contains information regarding the public website.
A-1114-08	Nancy Rouse		By the next meeting	Nancy is to verify if Steve has had POB training or not.

Consensus Number	Consensus Items
C-0712-01	The April 2012 meeting minutes were approved as final.
C-0712-02	Team members reached consensus to have a monthly call on the first Monday of the month at 2:00 p.m. EST. If the first Monday is a holiday, the conference call be held the following Monday.
C-0712-03	The Team reached consensus that the RAC member's status on the Team will be changed from core to adjunct due to reduced activity.
C-0113-01	The July 2012 meeting minutes were approved as final.
C-0113-02	Team members reached consensus that the web site will be developed using the rapid website approach.
C-0113-03	The Team reached consensus to have a full day meeting on Wednesday, April 17, 2013, and a ½ day meeting on Thursday, April 18, 2013, with the RAB meeting on Thursday, April 18, 2013, in the evening.
C-0413-01	The January 2013 meeting minutes were approved as final.
C-0413-02	The Team reached consensus that the Site 8 LUC boundaries should be extended to include the on-site impacted ditches.
C-0713-01	The April 2013 meeting minutes were approved as final.
C-1013-01	The July 2013 meeting minutes were approved as final.
C-1013-02	The Team reached consensus to install sediment recovery traps at Sites 8B and 8C.
C-0114-01	The October 2013 meeting minutes were approved as final.
C-0414-01	The January 2014 meeting minutes were approved as final.
C-0714-01	The April 2014 meeting minutes were approved as final.
C-1114-01	The July 2014 meeting minutes were approved as final with minor corrections.

Consensus Number	Consensus Items
C-1114-02	The Team reached consensus on the following Team roles: **<u>Core Team Members</u>:** Steve Carriere — CB&I, Project Manager Gordon Crane — NCBC Gulfport, IRP Manager Dave Felter — Resolution Consultants, Project Manager Bob Fisher — Navy RPM Bob Merrill — MDEQ Regulator Jon Overholtzer — CH2M HILL, Project Manager Greg Roof — Tetra Tech, Project Manager **<u>Adjunct Members</u>:** Paul Jobmann — Resolution Consultants Lisa Noble — NCBC Gulfport Bill Olson — Tetra Tech Derrick Rogers — Aerostar **<u>Support Members:</u>** Libby Claggett — Tetra Tech, Scribe Jim Dunn — CB&I, Project Manager Nancy Rouse — The Management Edge, Facilitator

Parking Lot		
Item Number	**Status**	**Parking Lot Issue**
P-1211-03	Ongoing	Site 6 DD **Update 07/2012:** During the 5 year review, Steve Beverly stated that Site 6 should have a DD. Waiting on funding.
P-1211-04	Ongoing	Site 8 off-site AOCs – LUCs and LTM Off-base area LUCs – Gordon suggested getting all parties involved to discuss. Charles stated there would have to be a call every other week with Navy legal and others.
P-0714-01		Virtual RAB

TETRA TECH

Site 7 Test Pit Investigation

Naval Construction Battalion Center
November, 2014

Site 7 History

- Rubble Landfill, approximately 3 acres for disposal of inert materials
- Reported to be operated from 1978-1984
- HO operations at Site 8 – HO storage 1968-1977, HO incineration 1987-1988
- Site 7 defined in the IAS in 1985
- Material described as inert, no action needed

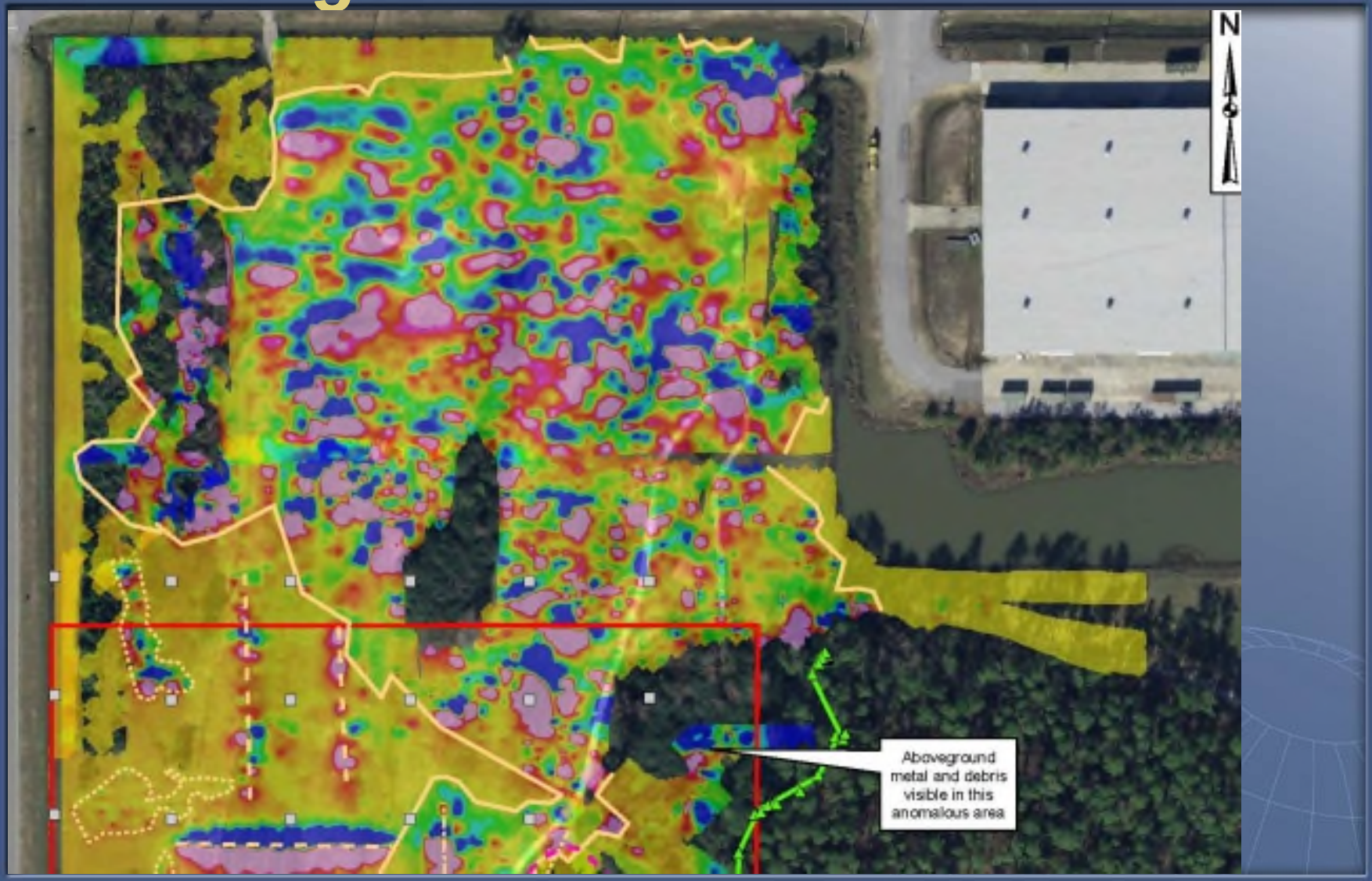
TETRA TECH

Site 7 Rationale

- Magnetometer and EM geophysics indicated the presence of buried debris
- Soil analytical results indicated presence of dioxins, particularly TCDD in site soil
- Anecdotal reports of disposal of material from Site 8 at Site 7

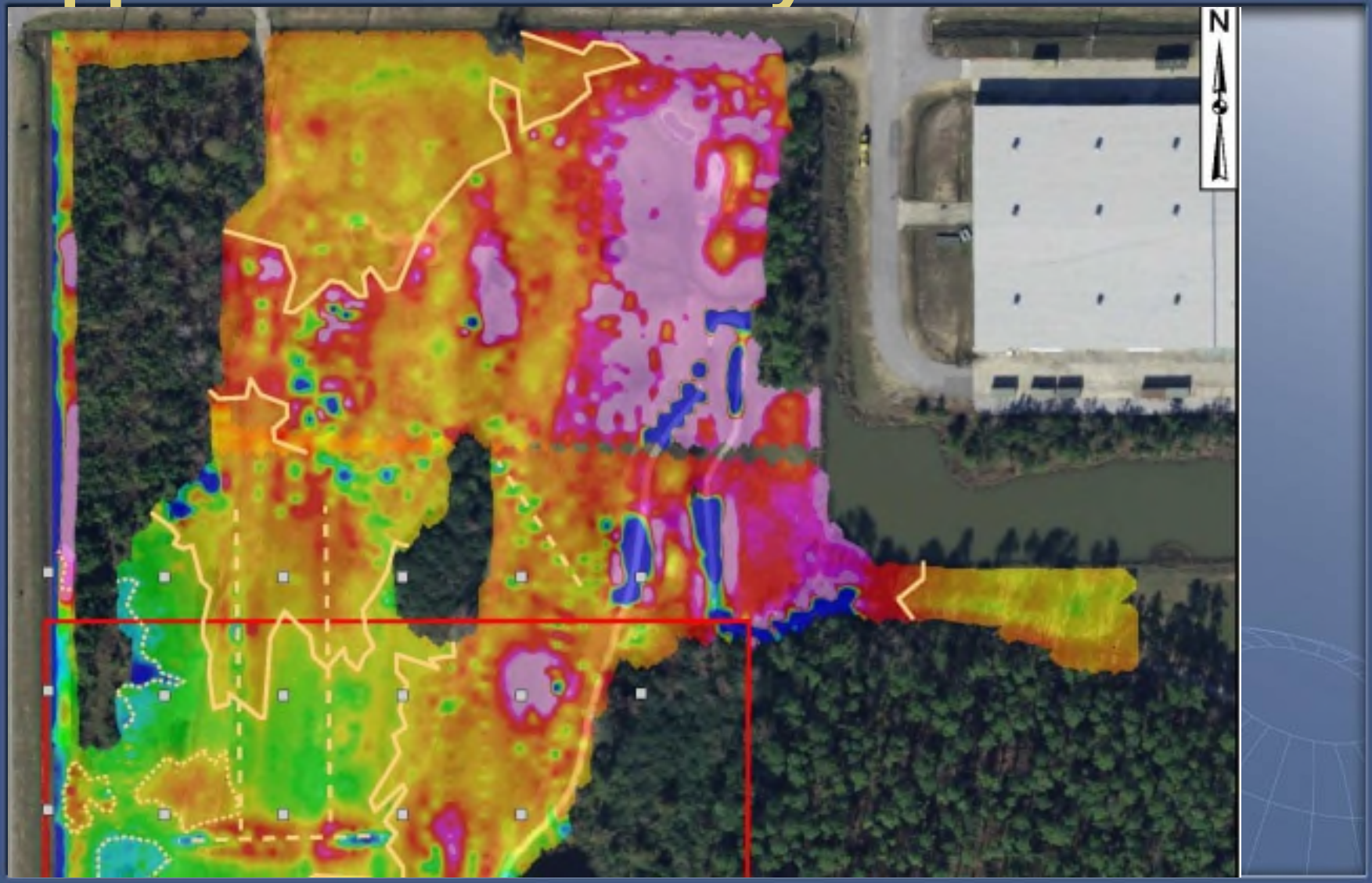
TETRA TECH

Total Magnetic Field Site



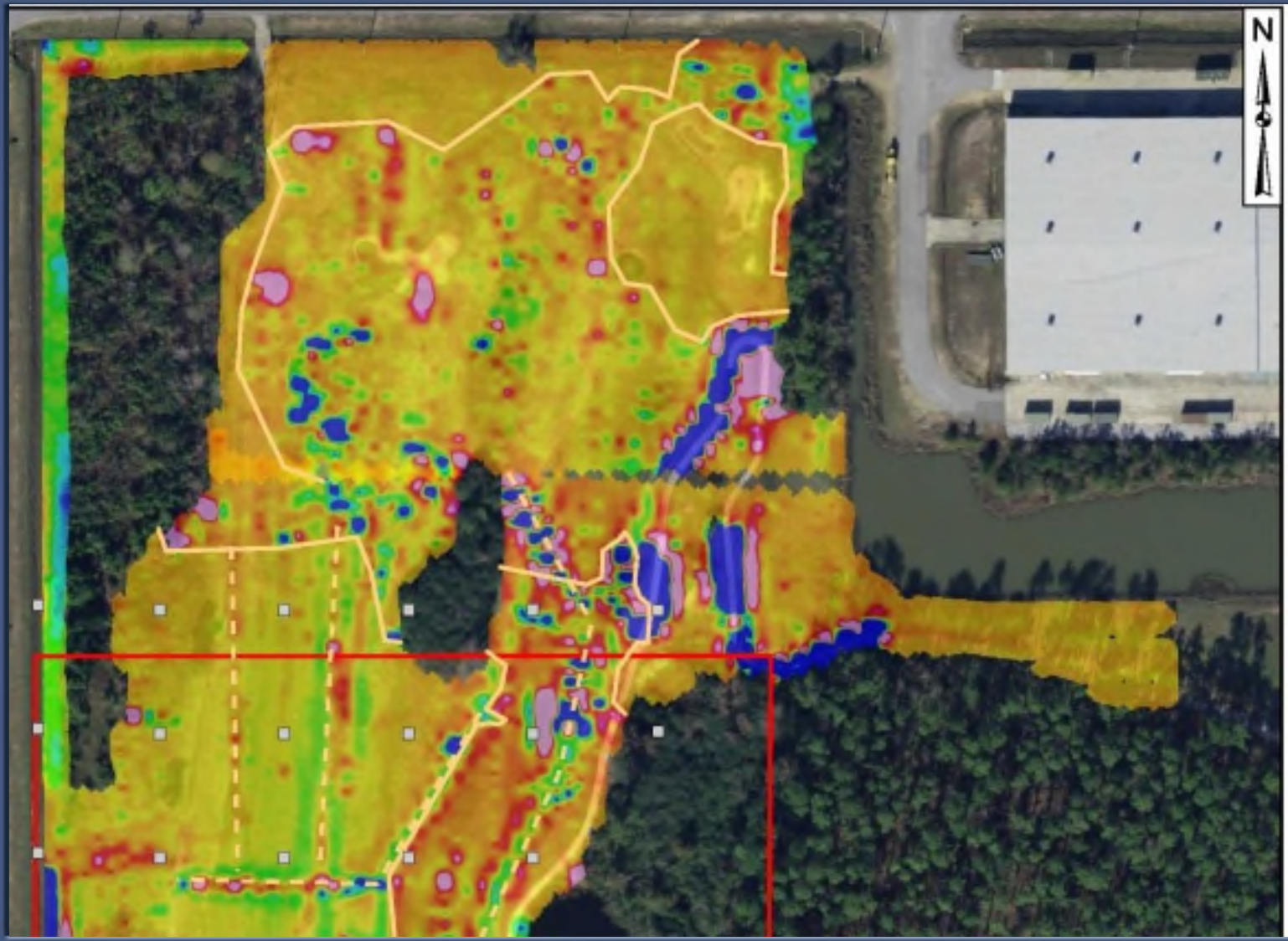
TETRA TECH

Apparent Conductivity



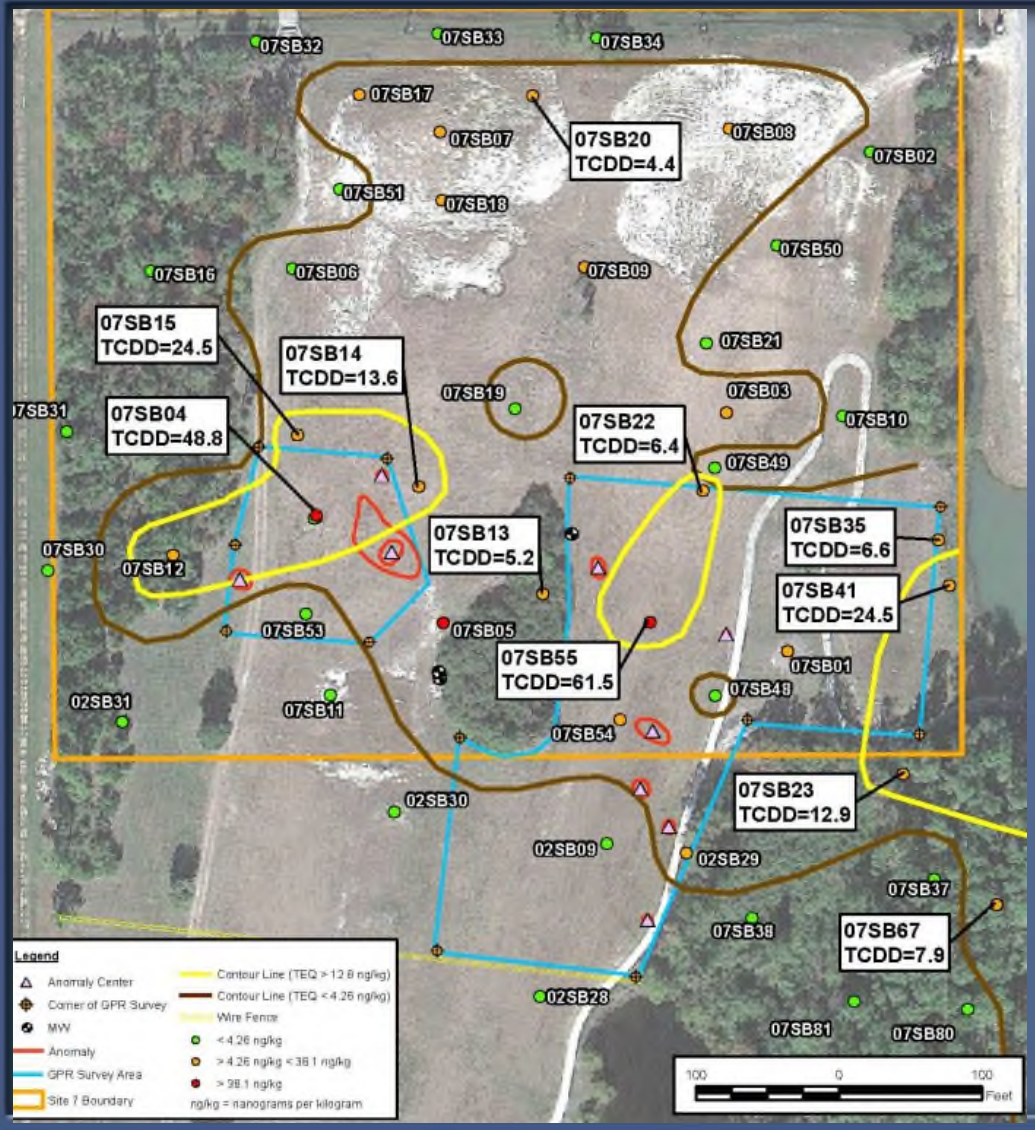
TETRA TECH

In Phase EM



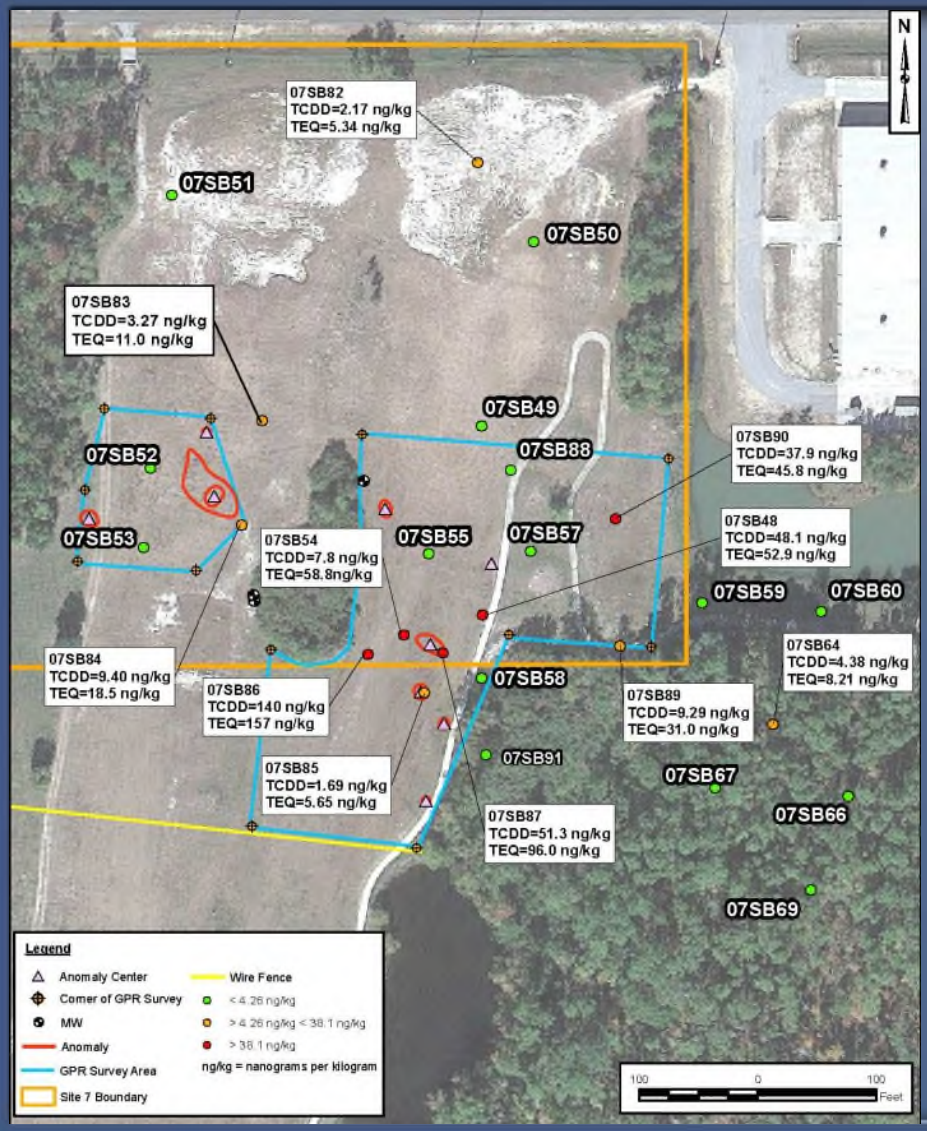
TETRA TECH

0-2 Ft Soil Sampling Results



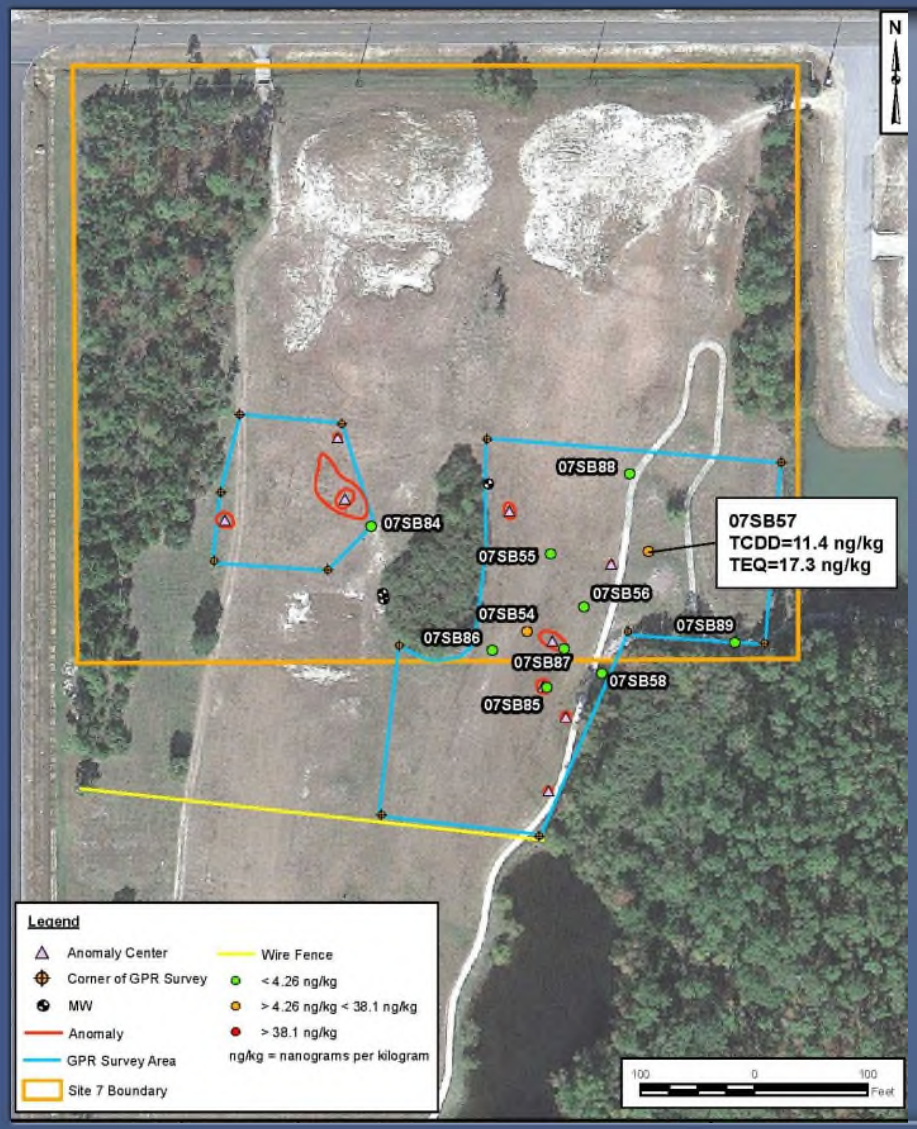
TETRA TECH

3-5 Ft Soil Sampling Results



TETRA TECH

6-8 Ft Soil Sampling Results



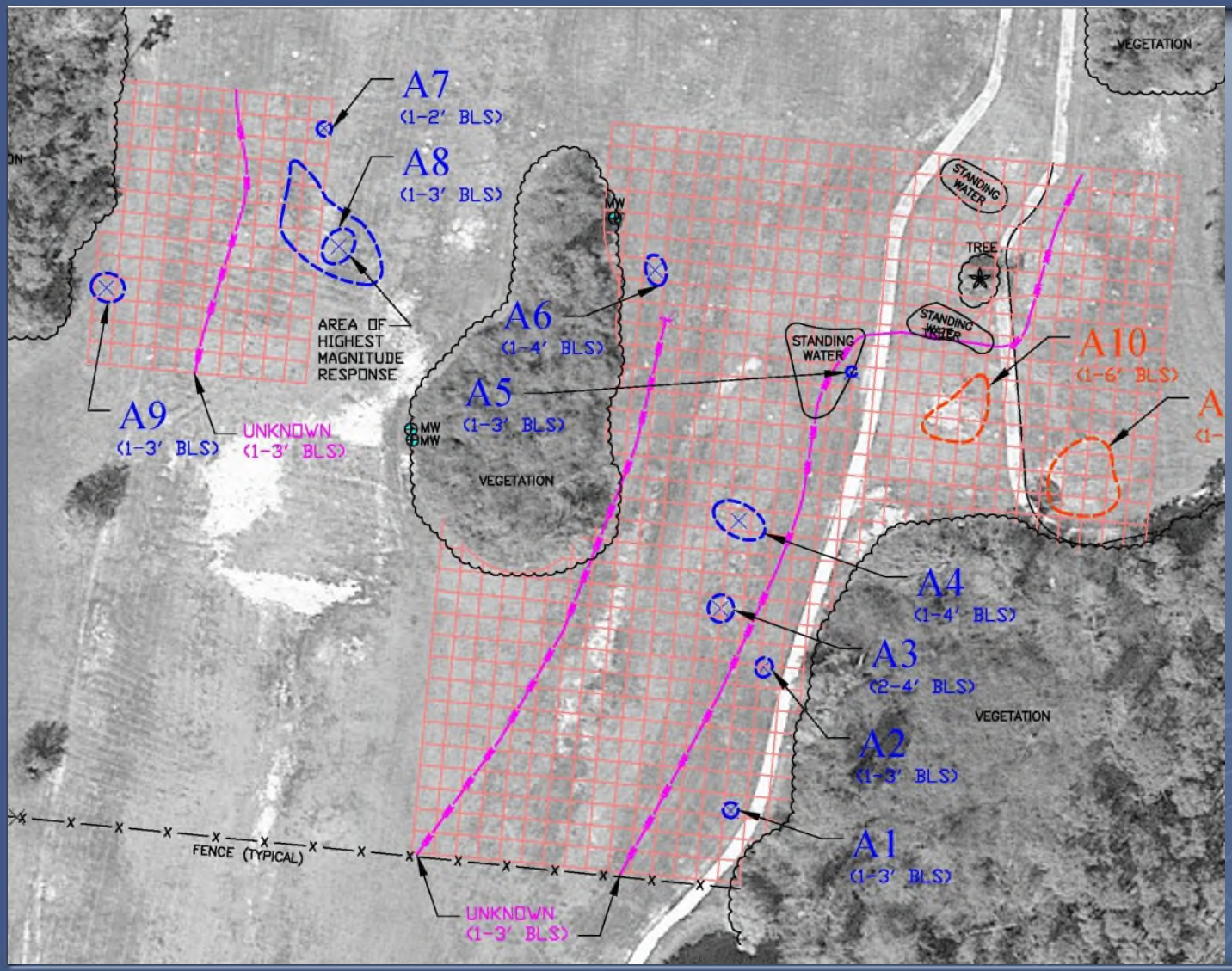
TETRA TECH

Site 7 GPR

- Southern part of Site 7
- Focused on areas where previous geophysics identified buried metal and analytical results detected dioxin

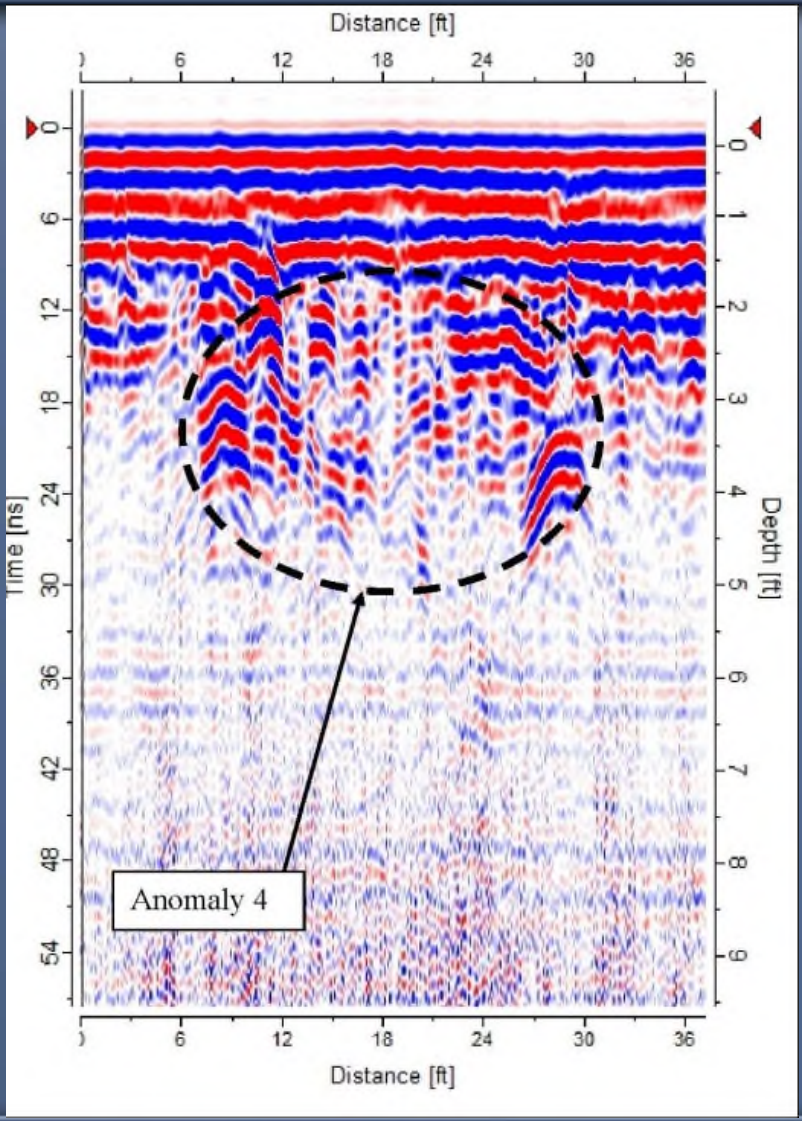
TETRA TECH

GPR Anomaly Map



TETRA TECH

Example GPR Transect



TETRA TECH

GPR Investigation

TETRA TECH

Site 7 Test Pits

- Ten test trenches were excavated
- Trench length ranged from 75 ft to 15 ft, depending on the size of the anomaly
- Trench depth averaged 5 ft

TETRA TECH

Beginning a Trench

TETRA TECH

Placing Soil

TETRA TECH

Circular Concrete Rubble

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Large RCP Crossing Trench

TETRA TECH

First of the Metallic Debris

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Aluminum Angle Stock

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Corrugated Metal Sheet

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Not a Drum

TETRA TECH

RCP Along Trench Wall

TETRA TECH

Iron Pipe Crossing Trench

TETRA TECH

Metal Mat

TETRA TECH

Remains of a Sink

TETRA TECH

Metal Sheet Piling

TETRA TECH

Concrete Block

TETRA TECH

Sink

TETRA TECH

Filing Cabinet

TETRA TECH

Drum Sized Log

TETRA TECH

Site 7 Test Pit Sampling

- Nine trenches were sampled
- Number of samples per trench based on trench length
- Samples were collected adjacent to buried metallic objects or at the contact between fill and native soil

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Test Pit Sample Locations

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Site 7 Test Pit Conclusions

- Ten test trenches from 15 to 75 ft in length were excavated to an average depth of 5 ft
- Numerous metallic objects were encountered, none of which were drums
- Nine of the trenches were sampled for 8290 analysis
- Preliminary analytical results expected in mid-November

TETRA TECH

TETRA TECH

SITE 6 NCBC Gulfport

Treatability Study Update

November, 2014

SITE 6 BACKGROUND

- Operated from 1966 to 1975
- Up to 500,000 gallons of flammable liquids placed in 2 burn pits
- Interceptor Trench operated September 1995 to November 1996 and recovered 5,000 gallons of product
- Bioslurper MPE operated November 2001 to October 2004 and recovered 2,330 gallons of product

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SITE 6 in 1970

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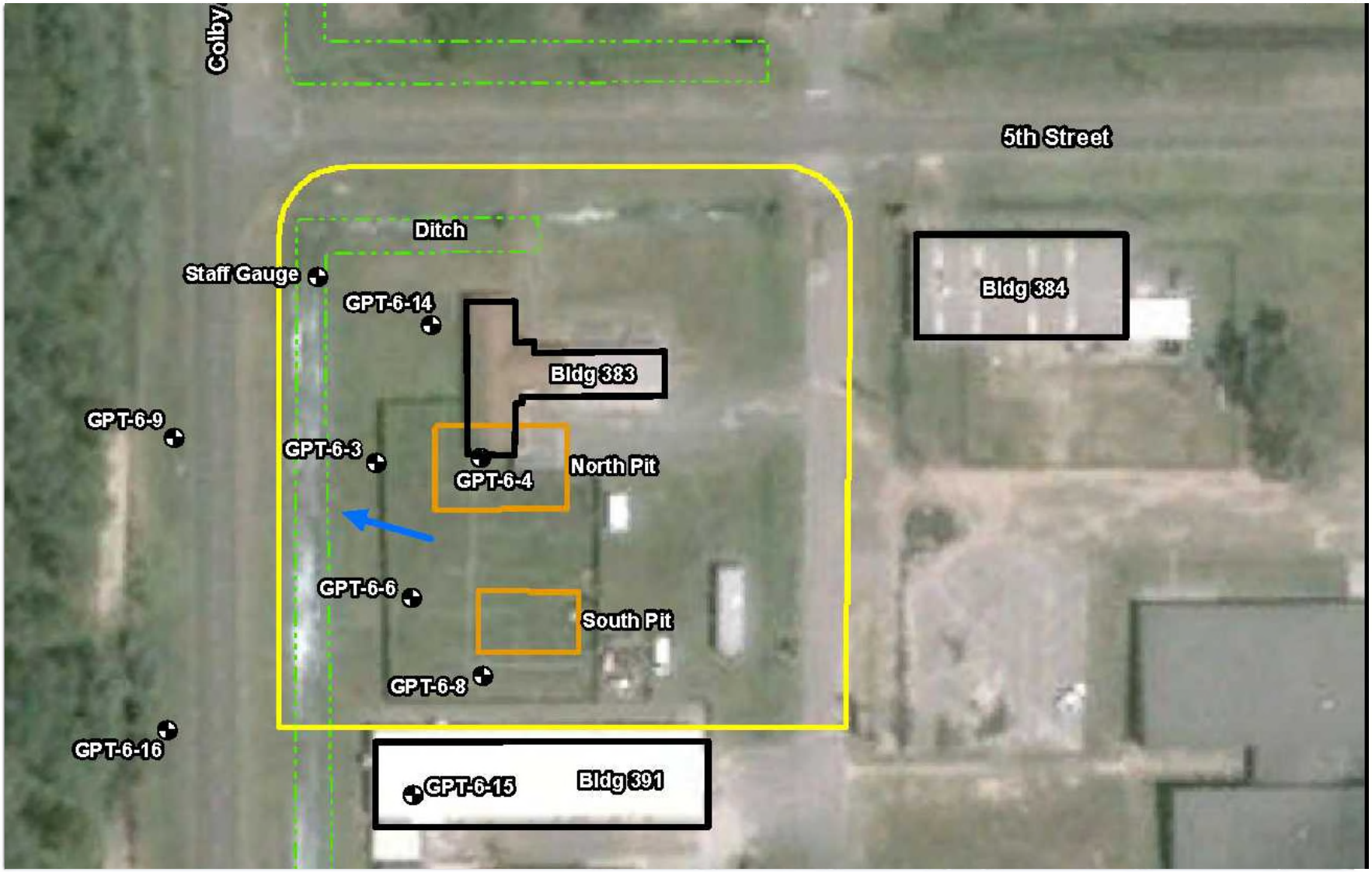
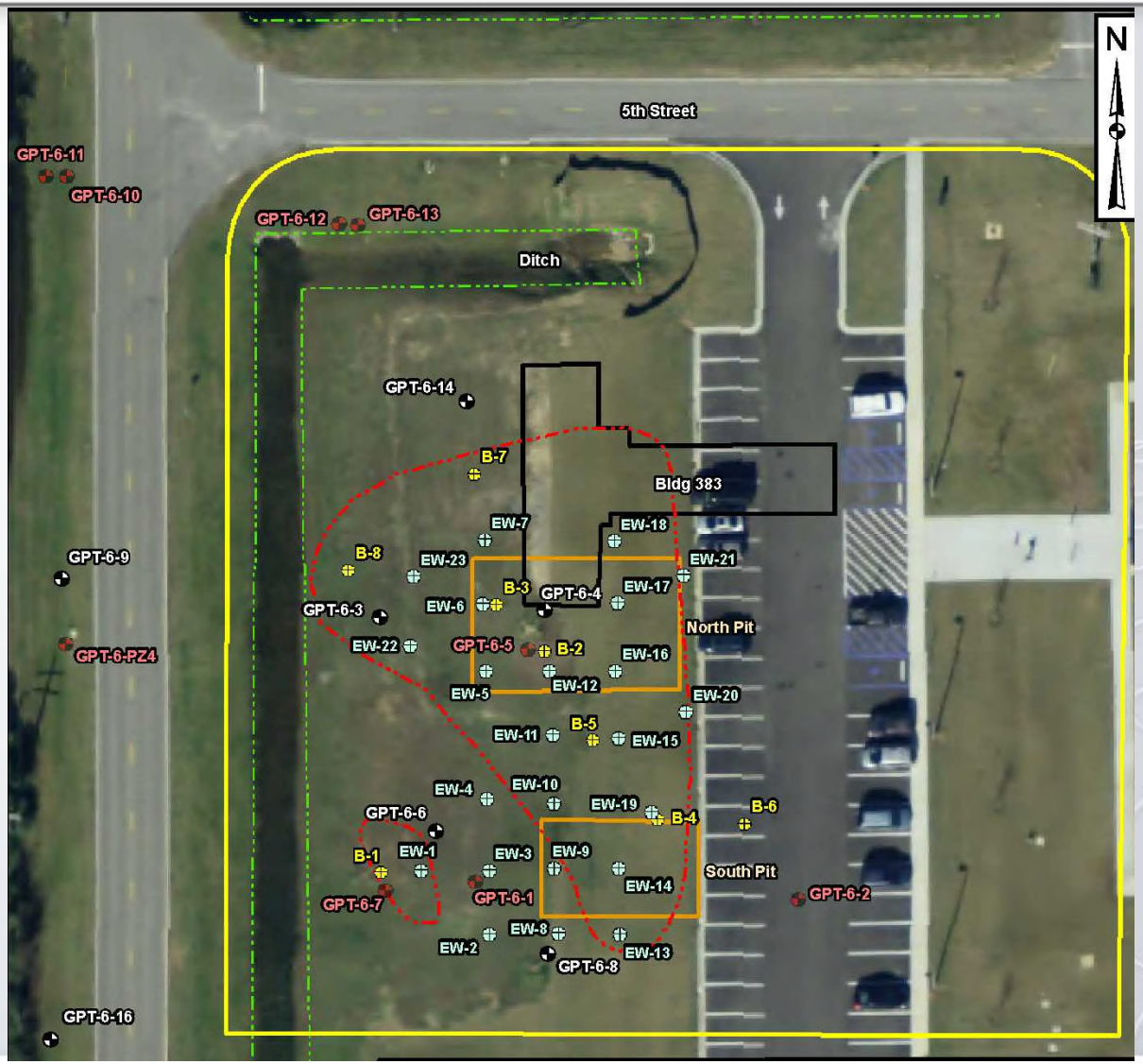
SITE 6 IN JULY 2005



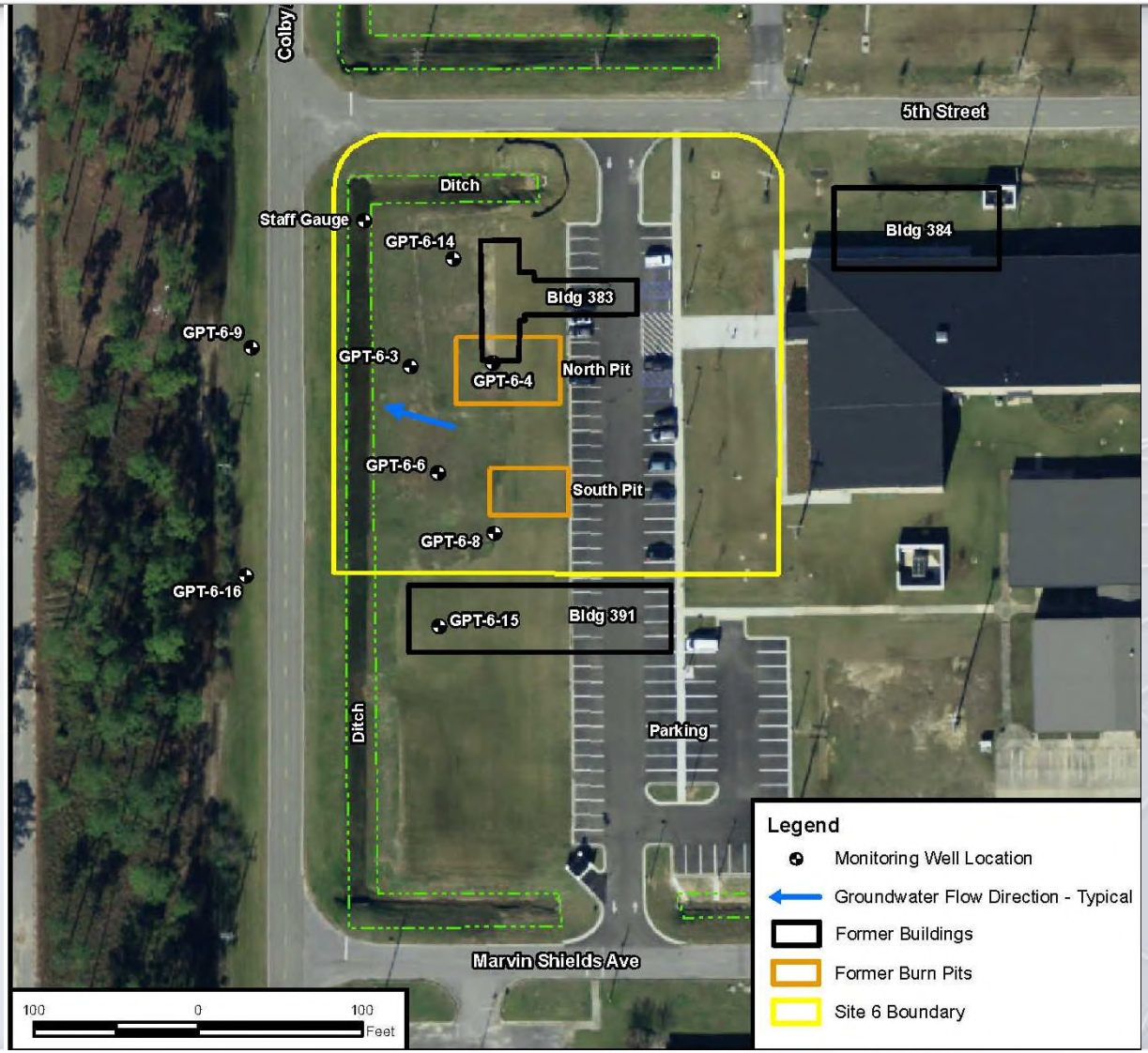
TETRA TECH

SITE 6 FREE PRODUCT 2005



TETRA TECH

SITE 6 in 2014



TETRA TECH

SITE 6 LTM

- Post-Remedial Action Monitoring
  - February and August 2005
  - Naphthalene and DRO identified as COCs greater than TRGs
  - Free product still present at Site 6
- Long Term Monitoring
  - 2008 – 4 sampling events
  - 2009 – 1 sampling Event
  - 2010 – 1 sampling event
  - September 2013 – 1 sampling event

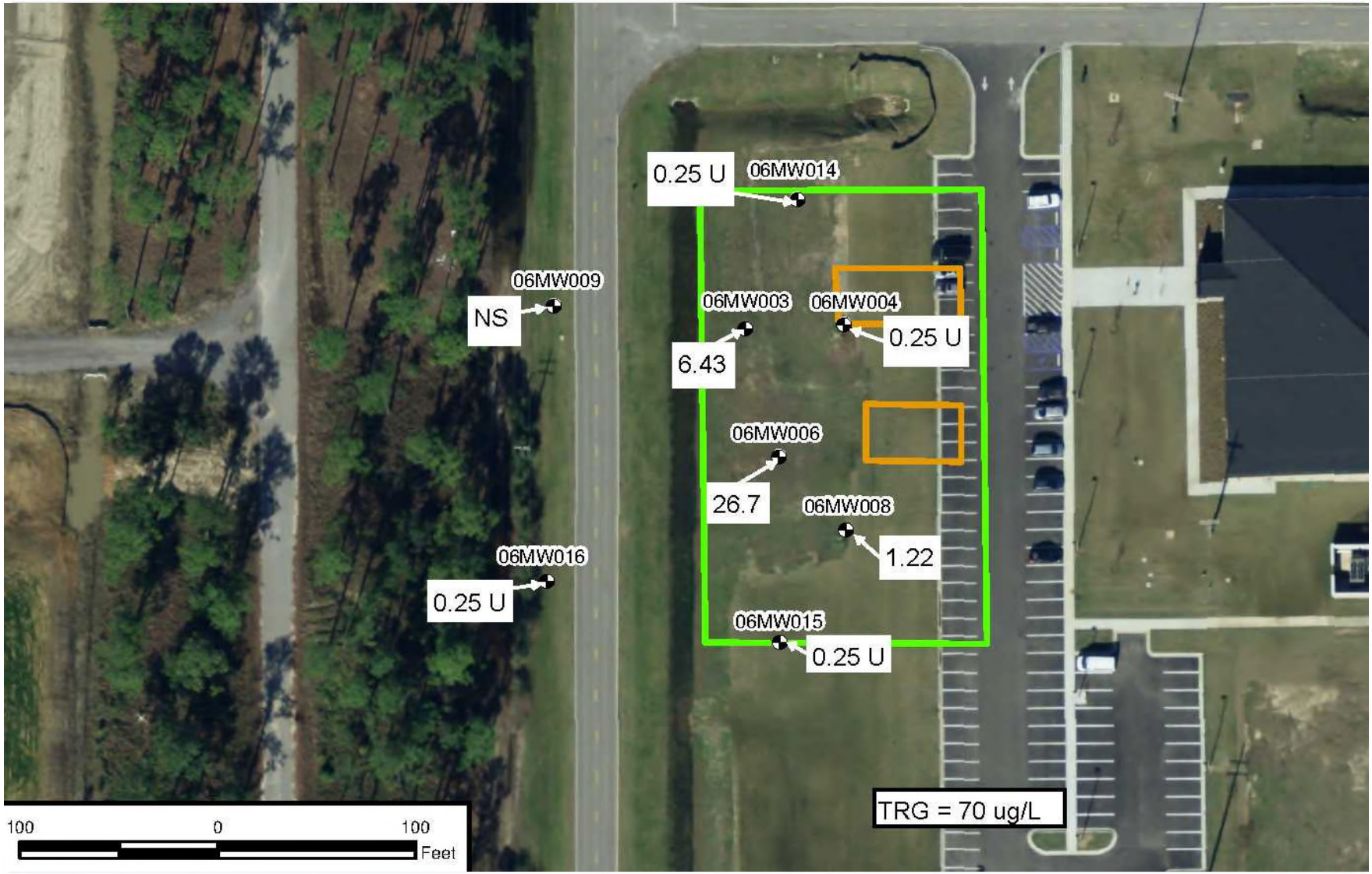
TETRA TECH

SEPTEMBER 2013 SUMMARY

- 7 monitoring wells sampled
- 4 wells that historically had free product did not have measureable product
- Samples were analyzed for DRO, PAHs and select VOCs (chlorinated).

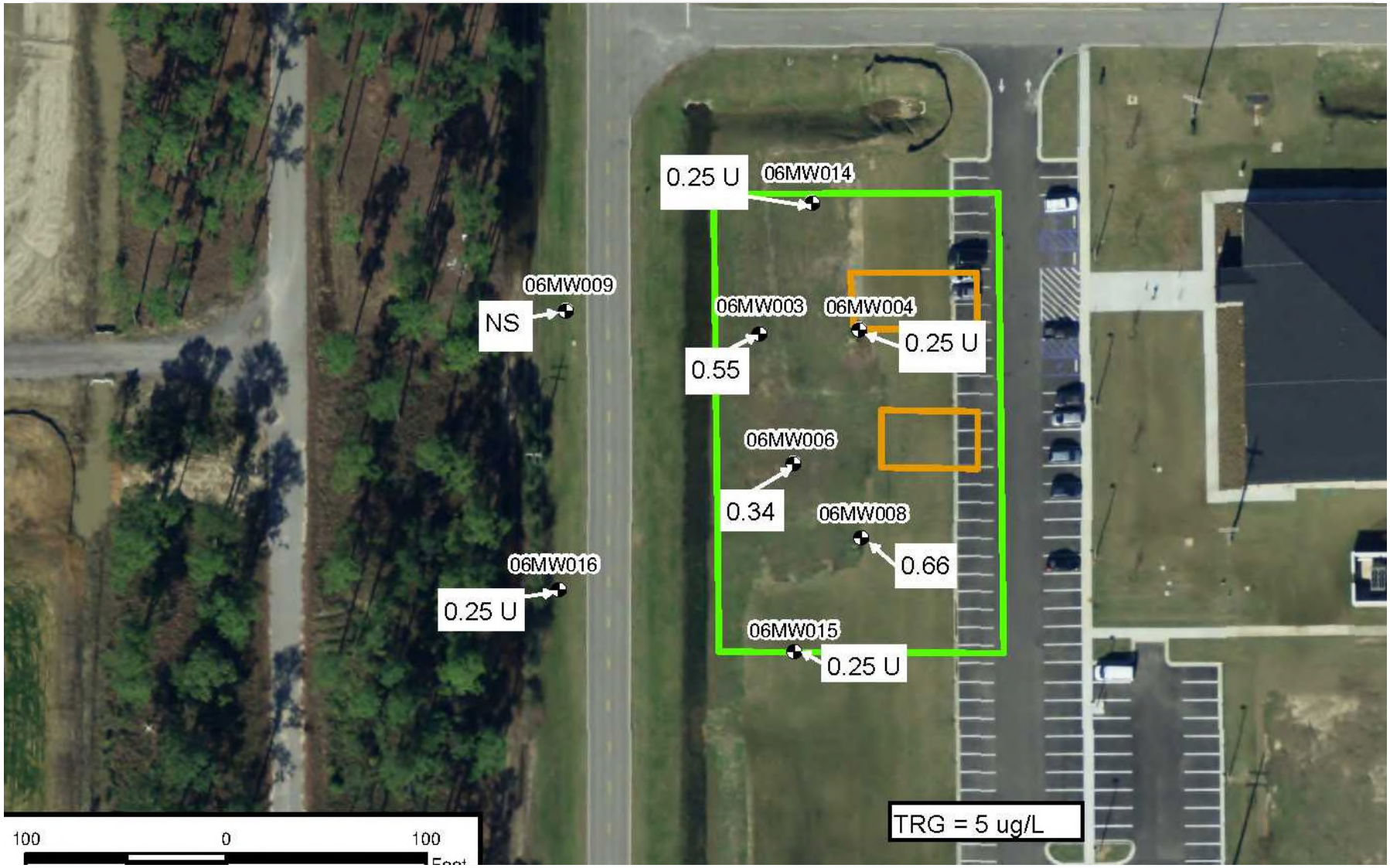
TETRA TECH

Cis 1,2 DCE

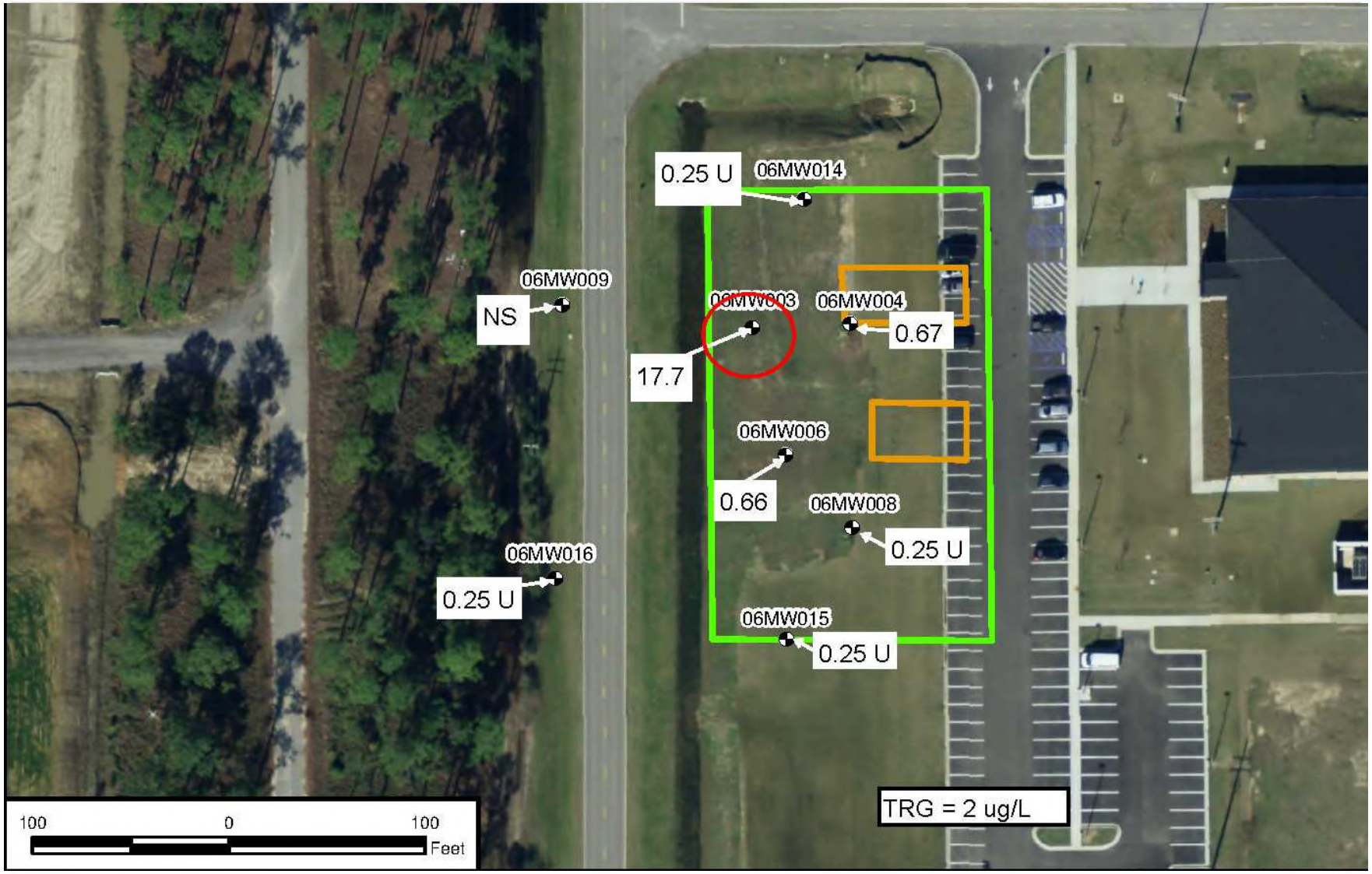


TETRA TECH

TCE

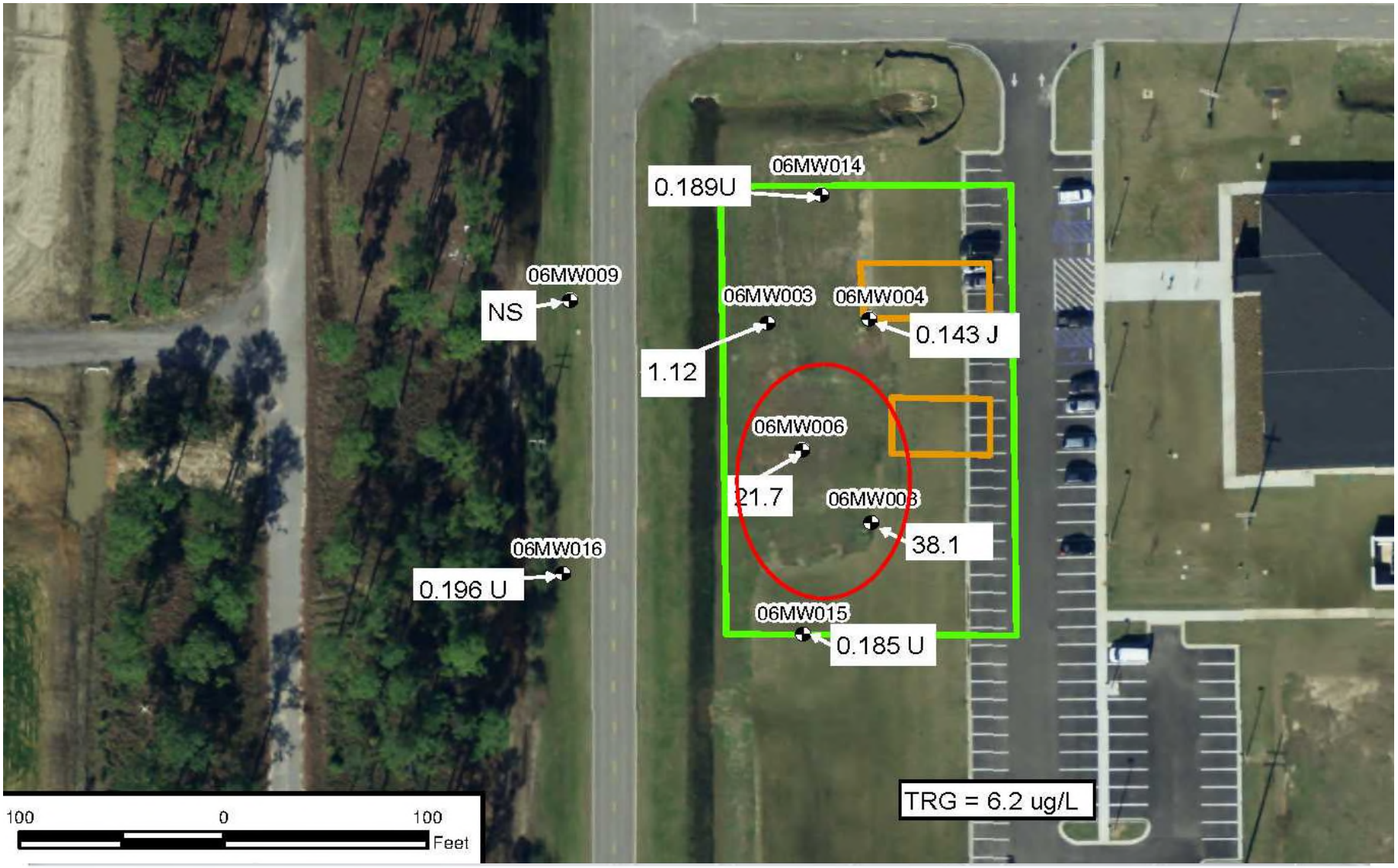

0.25 U
06MW014
06MW009
NS
06MW003
06MW004
0.25 U
0.55
06MW006
0.34
06MW008
0.66
06MW016
0.25 U
06MW015
0.25 U
TRG = 5 ug/L
100
0
100

Vinyl Chloride



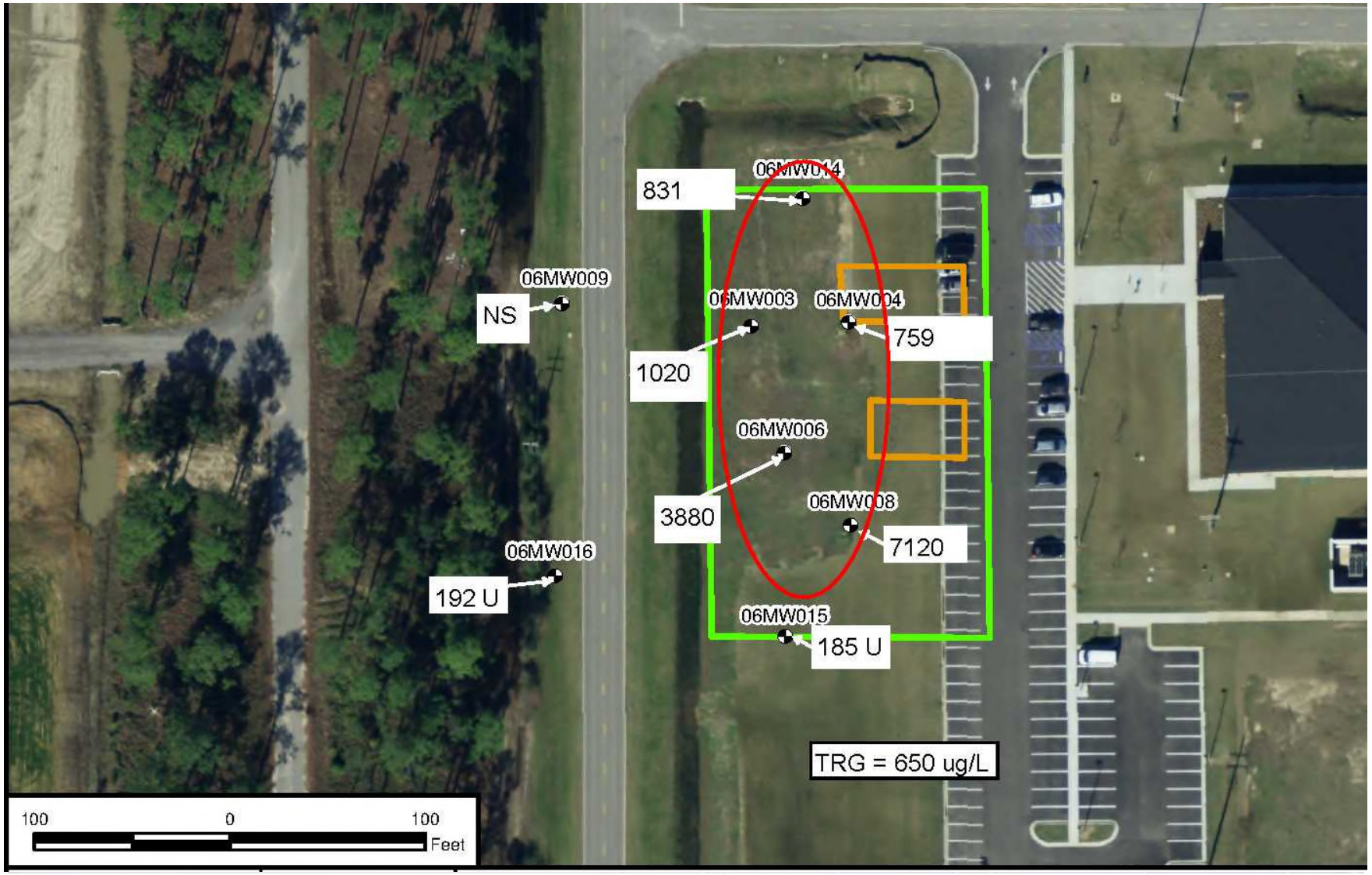
TETRA TECH

Naphthalene



TETRA TECH

DRO



TETRA TECH

SITE 6 COC COMPARISON

	NAPHTHALENE		DRO		VINYL CHLORIDE	
	2005	2013	2005	2013	2005	2013
06MW003	ND	1.12	ND	1020	0.39 J	17.7
06MW004	2.8 J	0.143 J	690 J	759	0.52 J	0.67
06MW006	22.7	21.7	ND	3880	ND	0.66
06MW008	36.4	38.1	7750	7120	ND	ND

TETRA TECH

RATIONALE

- Free product was not detected in wells that have had product in the past
- COC concentrations have not significantly changed over the monitored interval
- Water levels in SEP 2013 were low.
- Highest concentrations of naphthalene and DRO occur at low water level
- COCs suitable for aerobic treatment

TETRA TECH

SELECTED TECHNOLGY

- COCs include SVOC, DRO and Vinyl Chloride, plus free product.
- COC concentrations have not significantly changed over the monitored interval
- BIOX technology provides short term chemical oxidation (Fentons-type reaction) and long-term oxygen release for bioaugmentation
- COCs are amenable to oxidizing technologies
- Other sources of carbon are limited

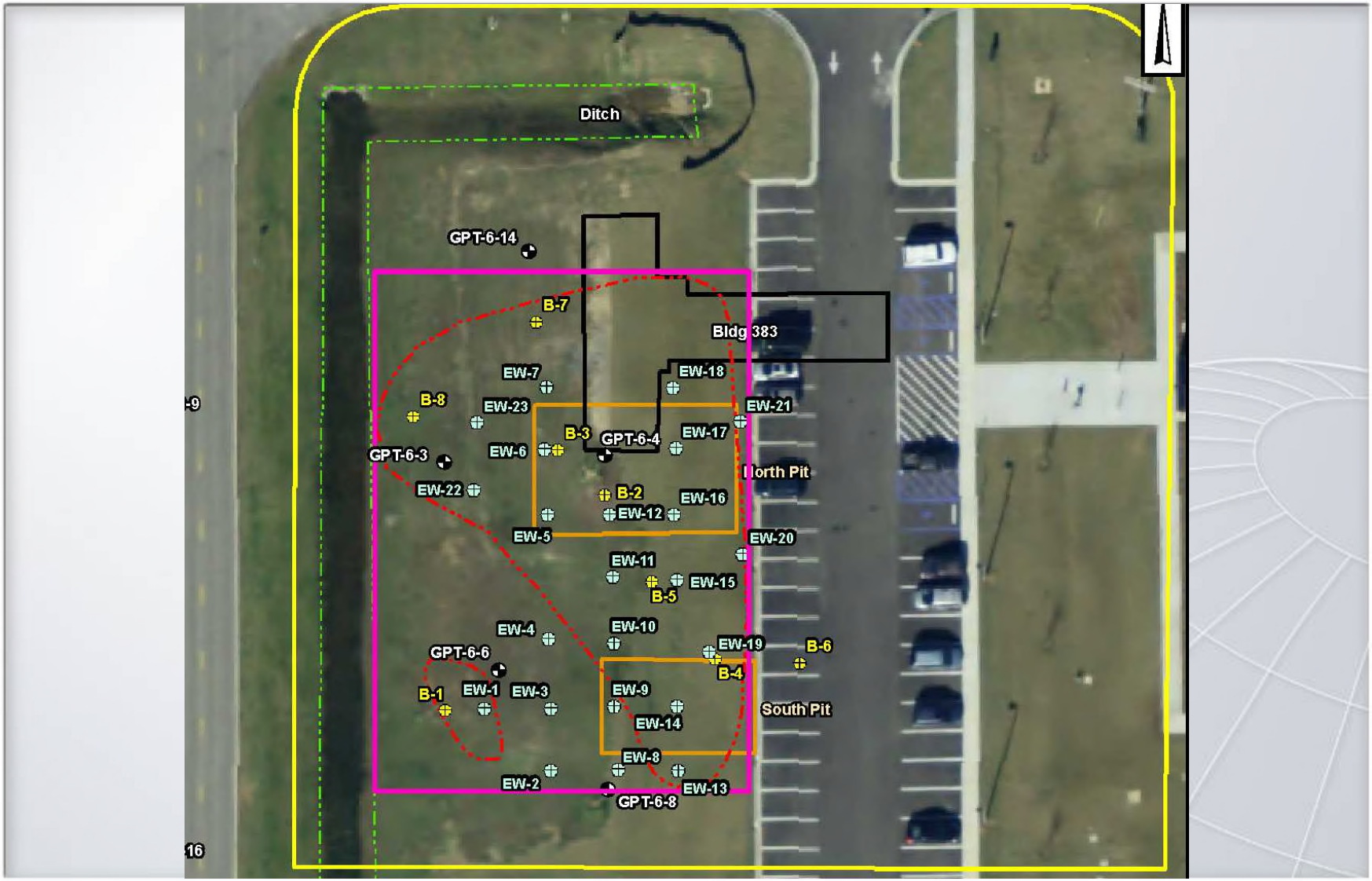
TETRA TECH

PHASES OF TS

- Baseline Data (most current LTM data)
- Stage I Delineation (83 injection points)
- Stage II Full Scale Application (225 injection points)
- Performance Monitoring (Quarterly groundwater sampling)

TETRA TECH

BIOX TREATABILITY CELL



CRITERIA FOR EVALUATING TS

- Destruction of Free Product
- Establish Elevated Oxygen Concentrations in Groundwater and Vadose Zone
- Reduction of COC Concentrations in Groundwater

TETRA TECH

TETRA TECH

Site 8 Remedial Action Optimization

Naval Construction Battalion Center
November, 2014

Site 8 CSEM

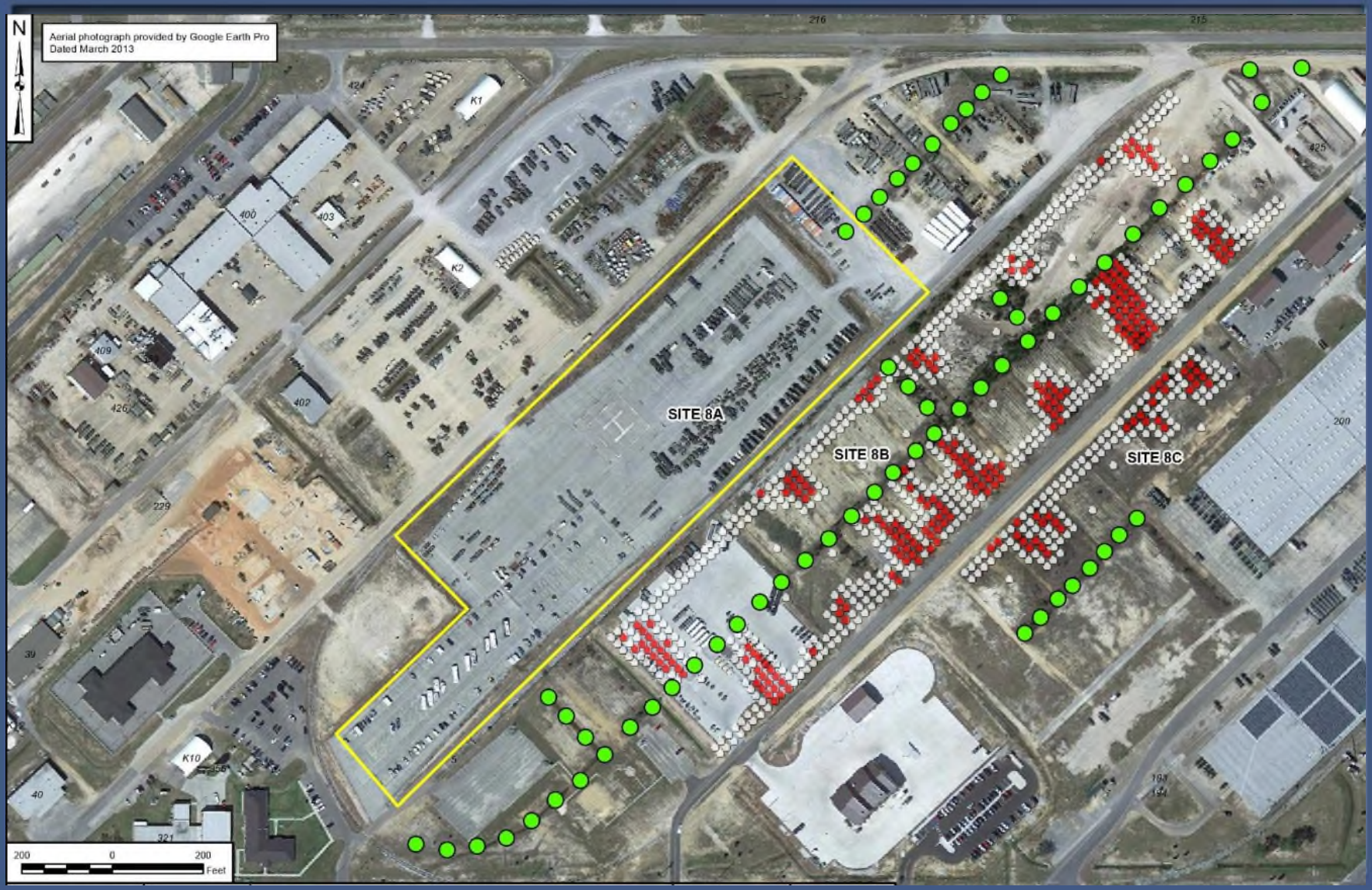
- Leaks and spills from HO drum storage
- Erosion and transport of surface soil and ash
- Deposition as sediment in ditches
- Bed load transport of sediment downstream
- Based on previous sampling

TETRA TECH

Air Force Sampling and Excavation

TETRA TECH

Time Critical Removal Action 2003



TETRA TECH

TCRA Sampling Results

- 52 Sediment samples collected from Site 8B and Site 8C ditches
- Analytical results were less than 38 ppt clean up goal
- 93% of analytical results were less than the unrestricted TRG of 4.26 ppt

TETRA TECH

Remedial Action 2006

TETRA TECH

Soil Stabilization

TETRA TECH

RA Sampling Results

- 145 surface soil samples collected at Site 8B
- 95% UCL of Site 8B samples was 11.1 ppt
- 53 surface soil samples collected at Site 8C
- 95% UCL of Site 8C samples was 16.1 ppt

TETRA TECH

RA Optimization

- LTM sediment sampling in 2013 identified dioxin concentrations greater than the cleanup criteria
- Surface soil dioxin concentrations did not correlate to sediment dioxin found in the ditches at Site 8B/8C
- Transport mechanisms other than erosion and transport of surface soil to the ditches may be occurring

TETRA TECH

Post LTM Delineation

TETRA TECH

Transport Mechanisms Evaluated

- Ditch Bank diff
- Overland trans/acc
- Non bedload sediment acc
- Additional delin 8B/8C

TETRA TECH

Ditch Bank Mechanism

- The side walls of the ditch were sampled as part of TCRA
- Analytical results were less than 38 ppt clean up goal, 93% were less than the unrestricted TRG of 4.26 ppt
- Not mass transport of contaminated ditch material
- Differential migration and concentration of colloidal particles due to the rise and fall of water levels in the ditches

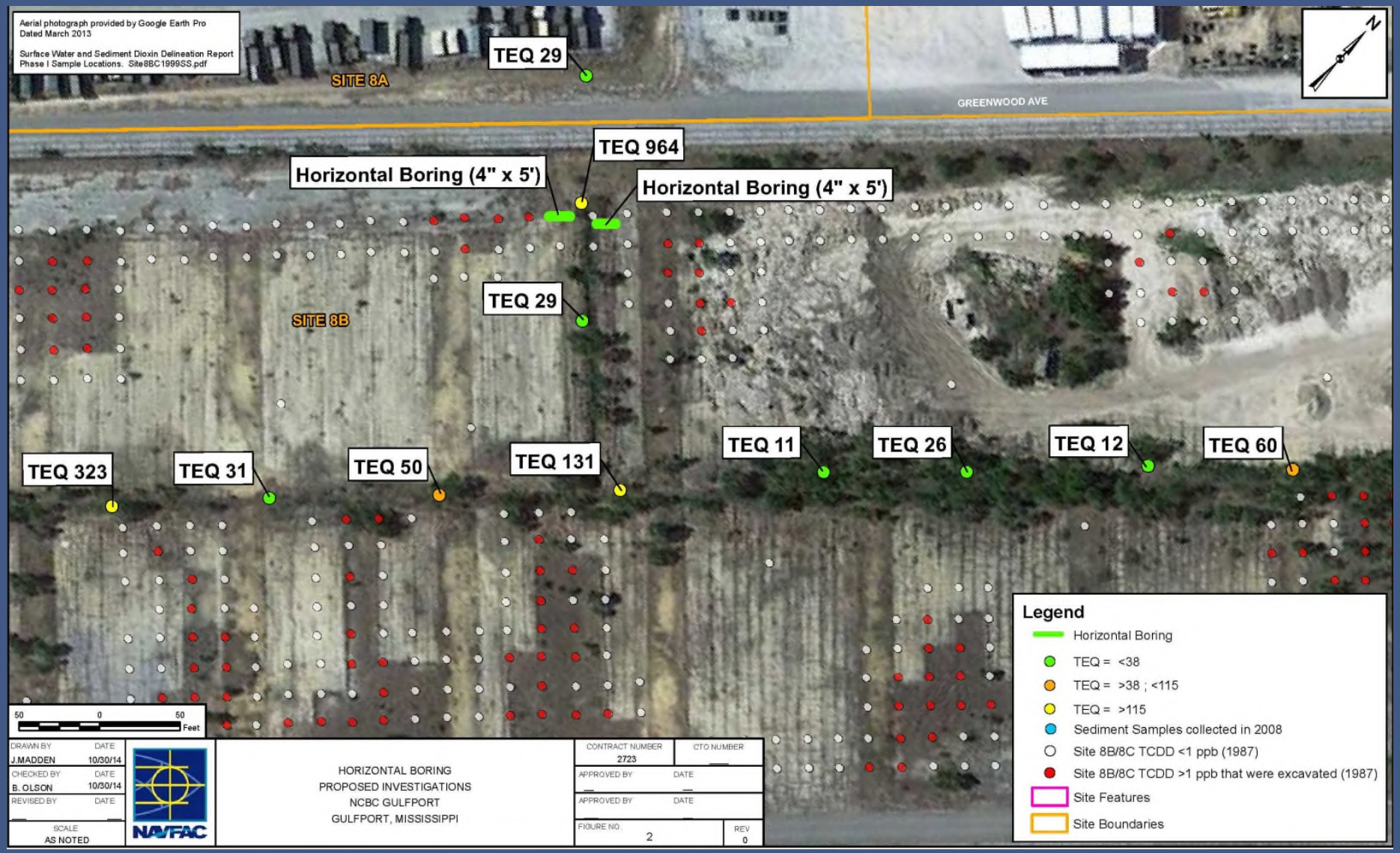
TETRA TECH

Ditch Bank Investigation

- Locations selected to correspond with high dioxin levels
- Horizontal borings below the soil cement surface layer
- Samples at will be collected 1 foot horizontal increments
- Analyzed for dioxins, TOC and grain size
- The horizontal borings will be advance through 4 inch pvc casing to prevent collapse

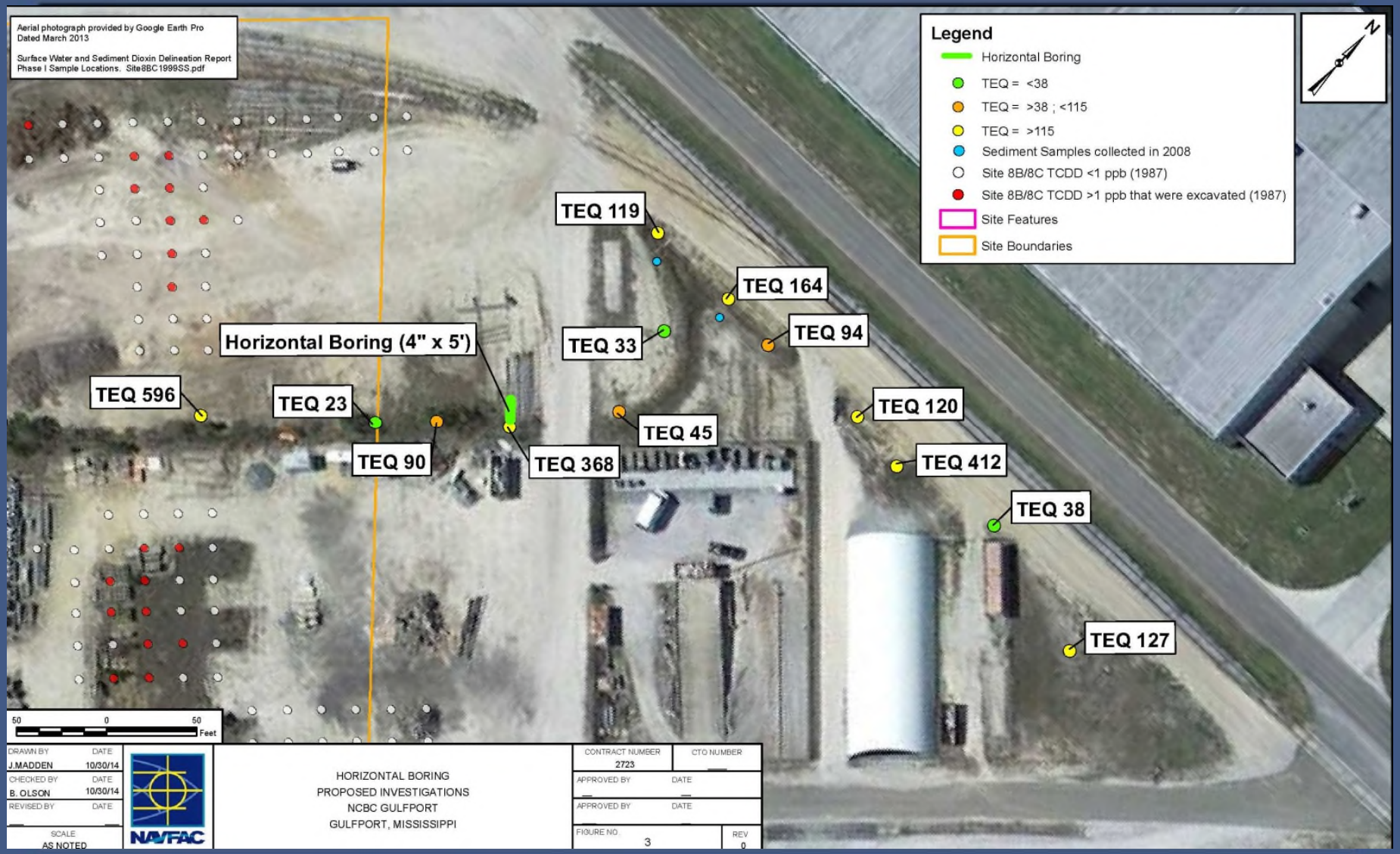
TETRA TECH

Ditch bank 8B central



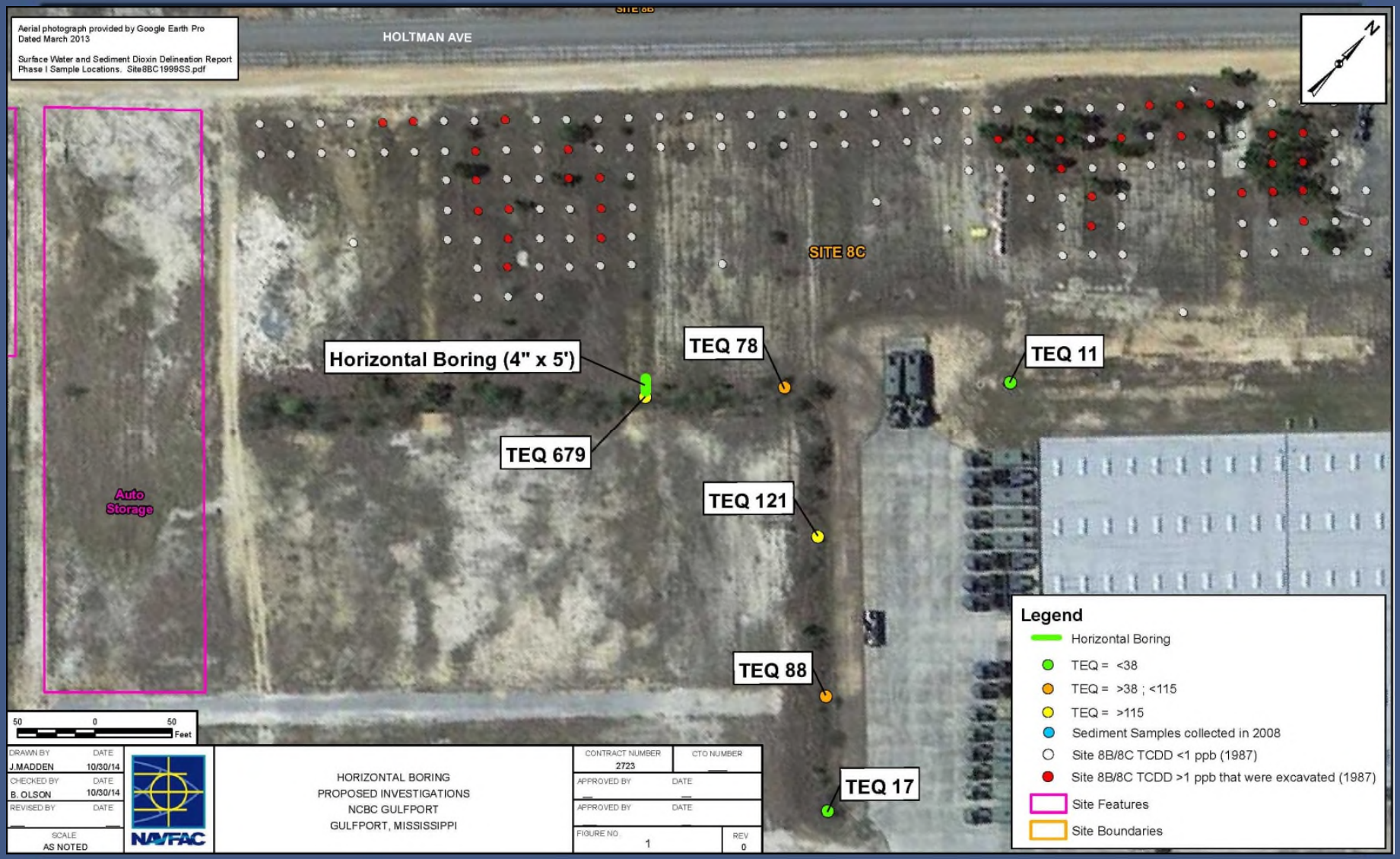
TETRA TECH

Ditch bank 8B NE



TETRA TECH

Ditch bank 8C



TETRA TECH

Overland Transport Mechanism

- Differential erosion of soil cement and concentration
- Accumulation of dioxin in sediment greater than the source material
- 145 surface soil samples collected at Site 8B
- 95% UCL of Site 8B samples was 11.1 ppt

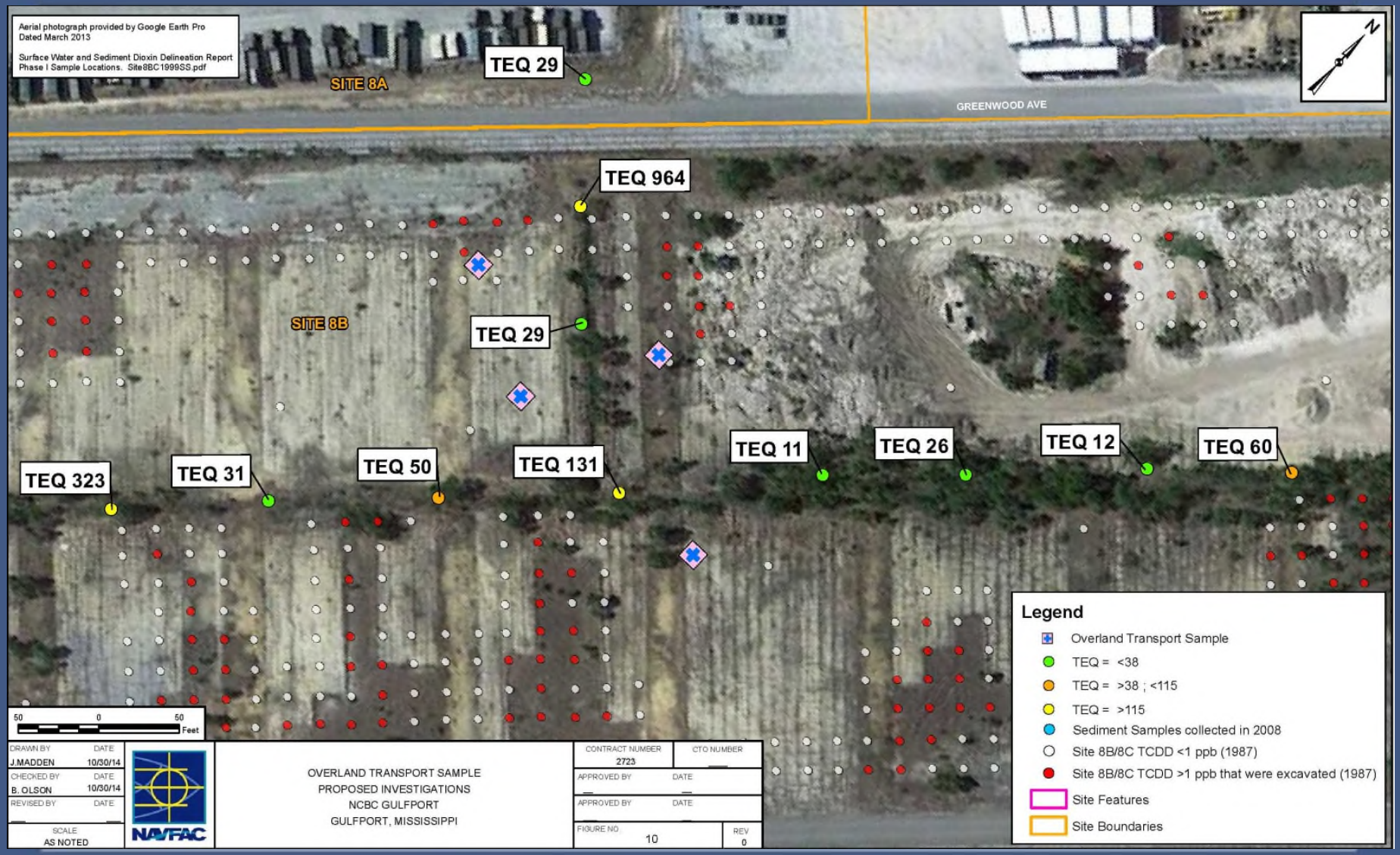
TETRA TECH

Overland Transport

- Differential erosion of soil cement
- Accumulation of dioxin in sediment greater than the source material
- Surface material samples from overland flow paths to ditches at Site 8B
- Sediment accumulations in flow paths will be sampled

TETRA TECH

Overland transport 8B central



TETRA TECH

Overland transport 8B NE

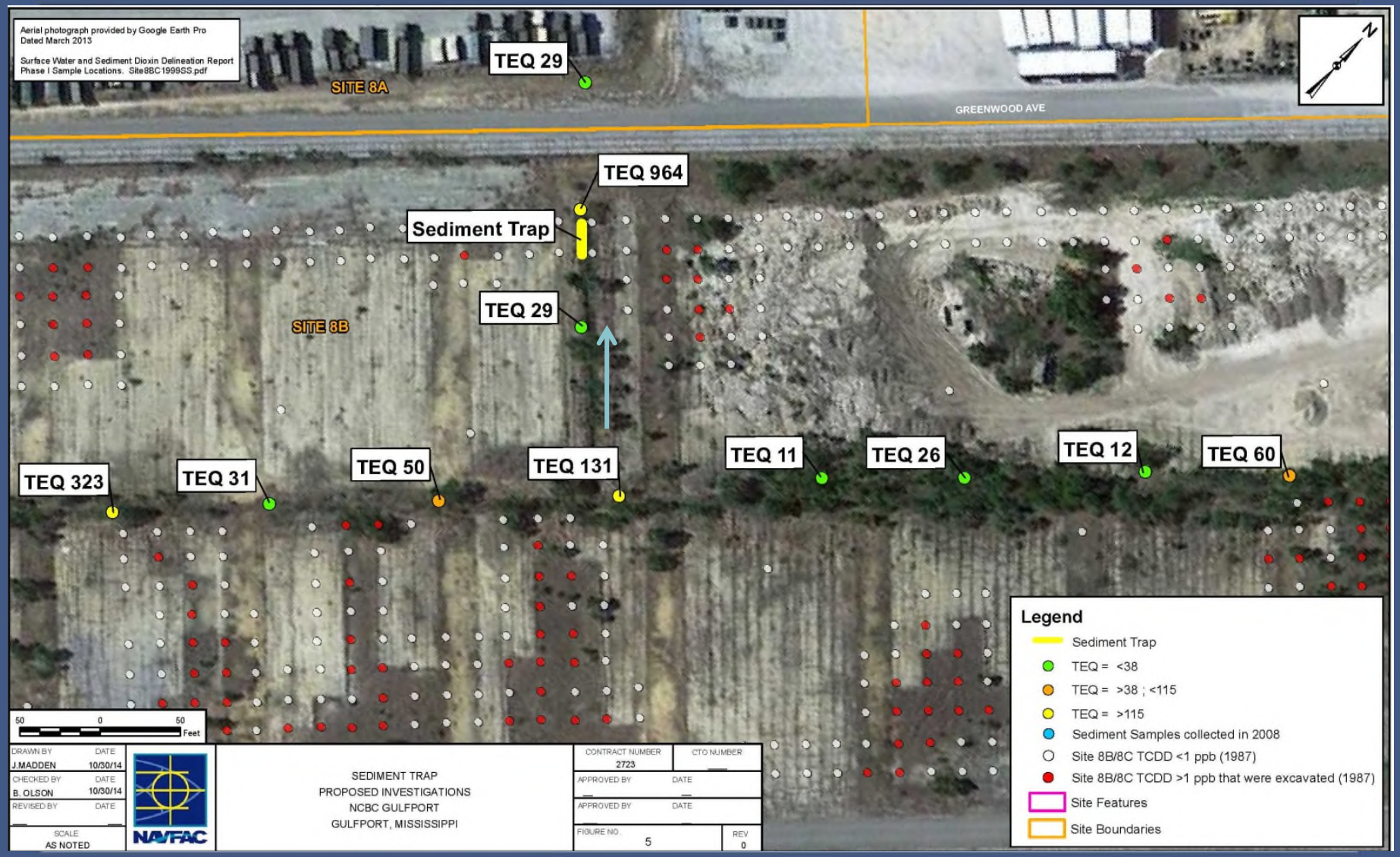
TETRA TECH

Bedload Transport

- Time averaged sediment samples from the drainage ditches
- Determine if accumulating dioxin results in concentrations greater than the source material
- Sediment traps installed upstream of the hot spot areas
- Corrugated cylinders to form riffle traps
- Collect bedload sediments at high energy and suspended sediment fraction at low energy
- Three sediment traps will be installed

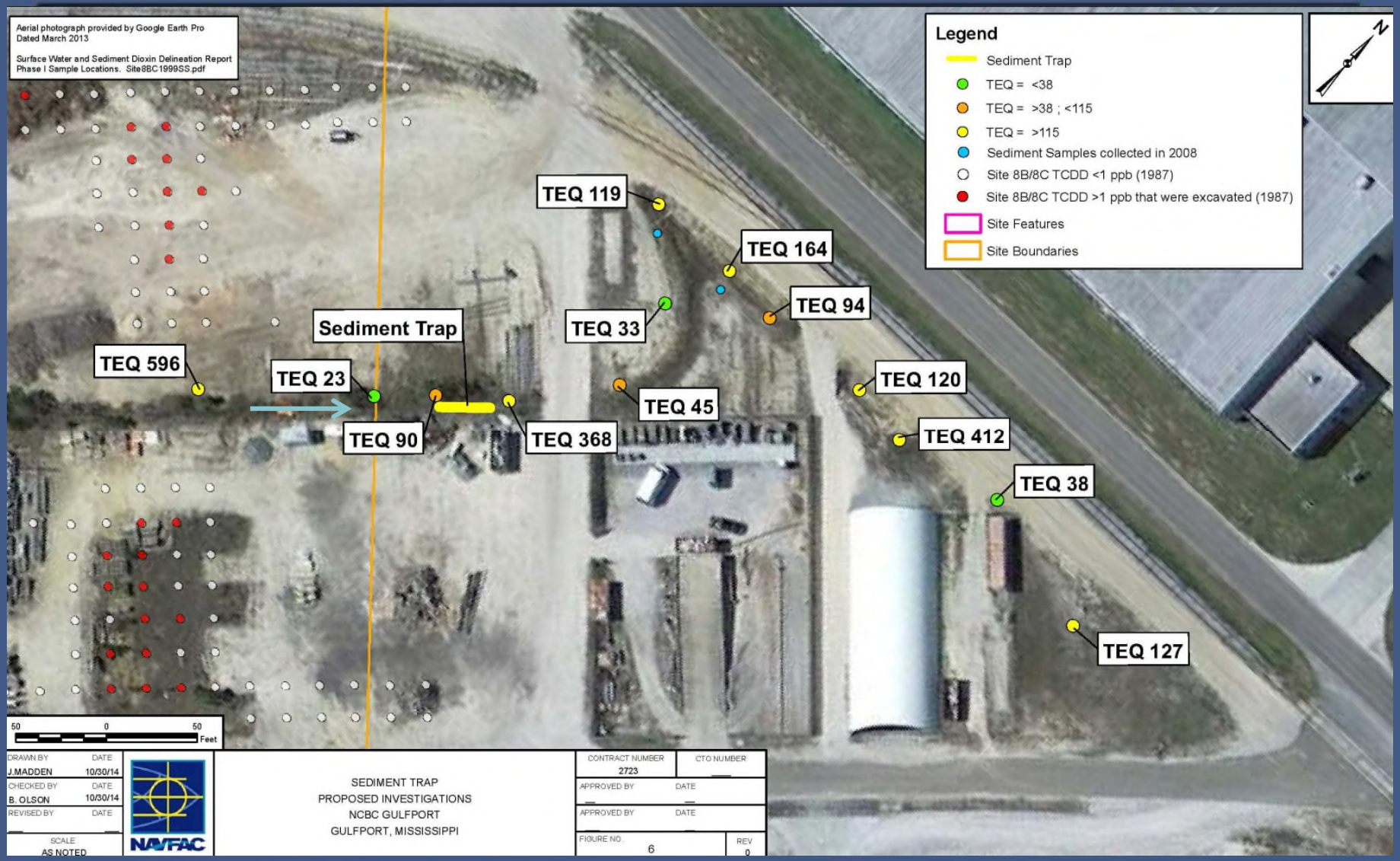
TETRA TECH

Bedload transport 8B central



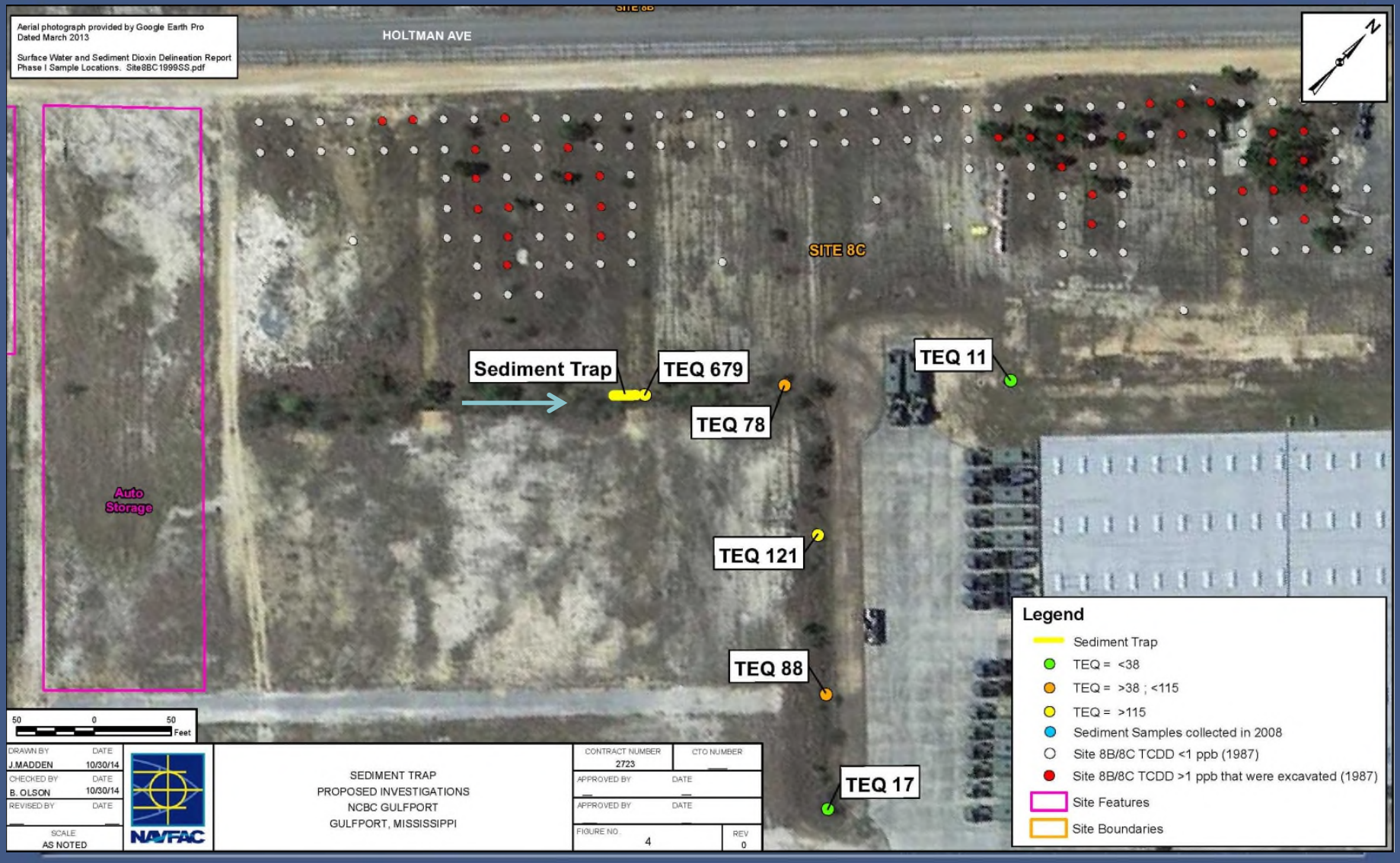
TETRA TECH

Bedload transport 8B NE



TETRA TECH

Bedload transport 8C



TETRA TECH

Site 8B Additional Delineation

- West of the intersection of 9th Street and Holtman Ave
- Sediment sample from this area in 1999 had a TEQ of 1,270 ng/kg
- Remedial action reports do not indicate that this area was ever remediated
- Current data - dioxin concentrations greater than the restricted TRG
- Five surface soil samples will be collected to complete delineation

TETRA TECH

Site 8B Additional Delineation

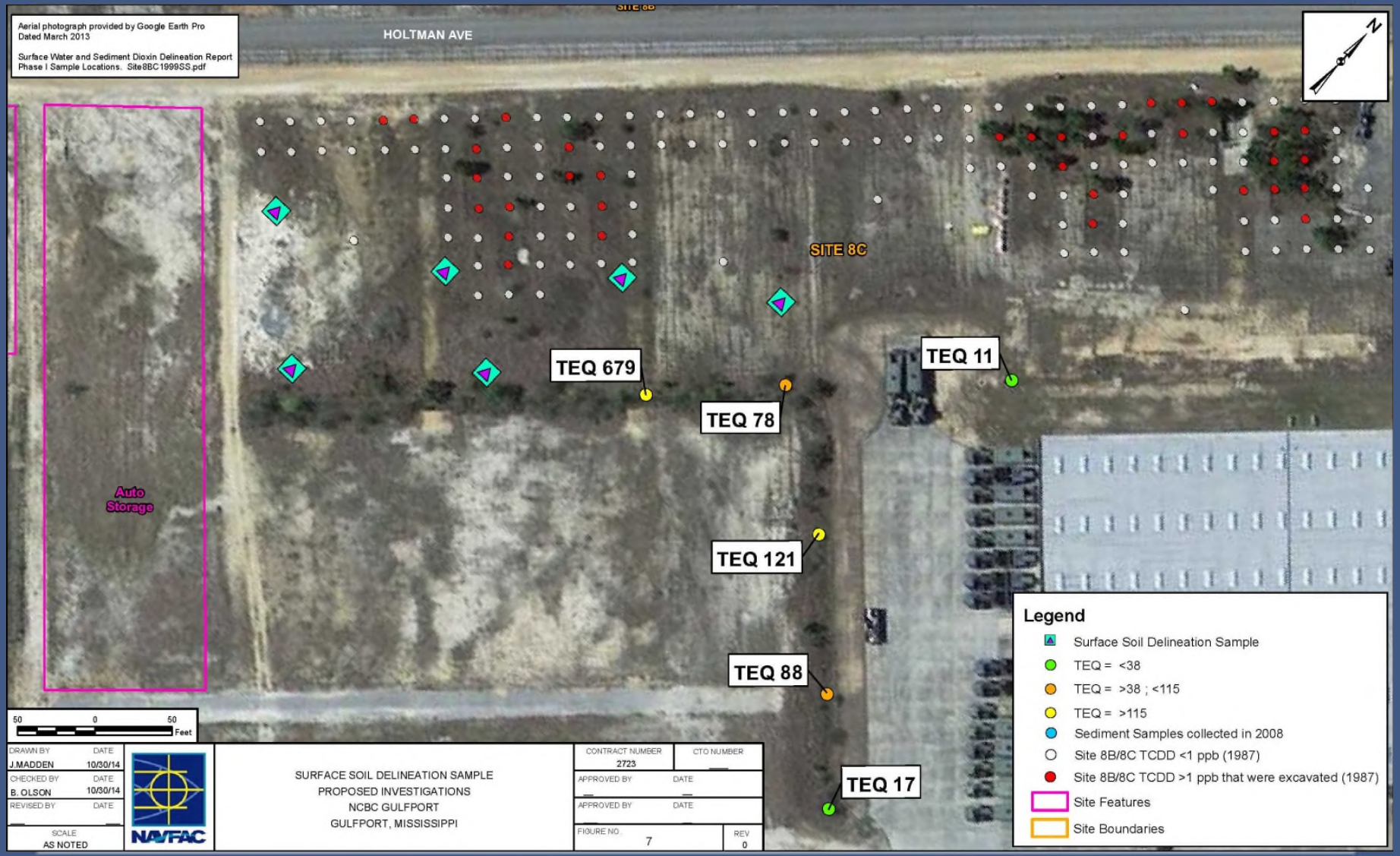
TETRA TECH

Site 8C Additional Delineation

- Ditch sampling data indicate that the boundary of Site 8C may not completely contain the areas where dioxin concentrations are greater than the unrestricted TRG
- Six surface soil samples will be collected to complete delineation

TETRA TECH

Site 8C Additional Delineation



TETRA TECH

Conclusion

- Alternative transport paths will be evaluated
- Ditch Bank Source
- Overland Transport
- Bedload Sediment Transport
- Additional areas sampled to define site limits
- Surface Soil at Site 8B
- Surface Soil at Site 8C

TETRA TECH

Path Forward

- Identify source(s) of the dioxins in ditches
- Define new site boundaries as needed
- Evaluate technologies appropriate to address sources and transport mechanisms

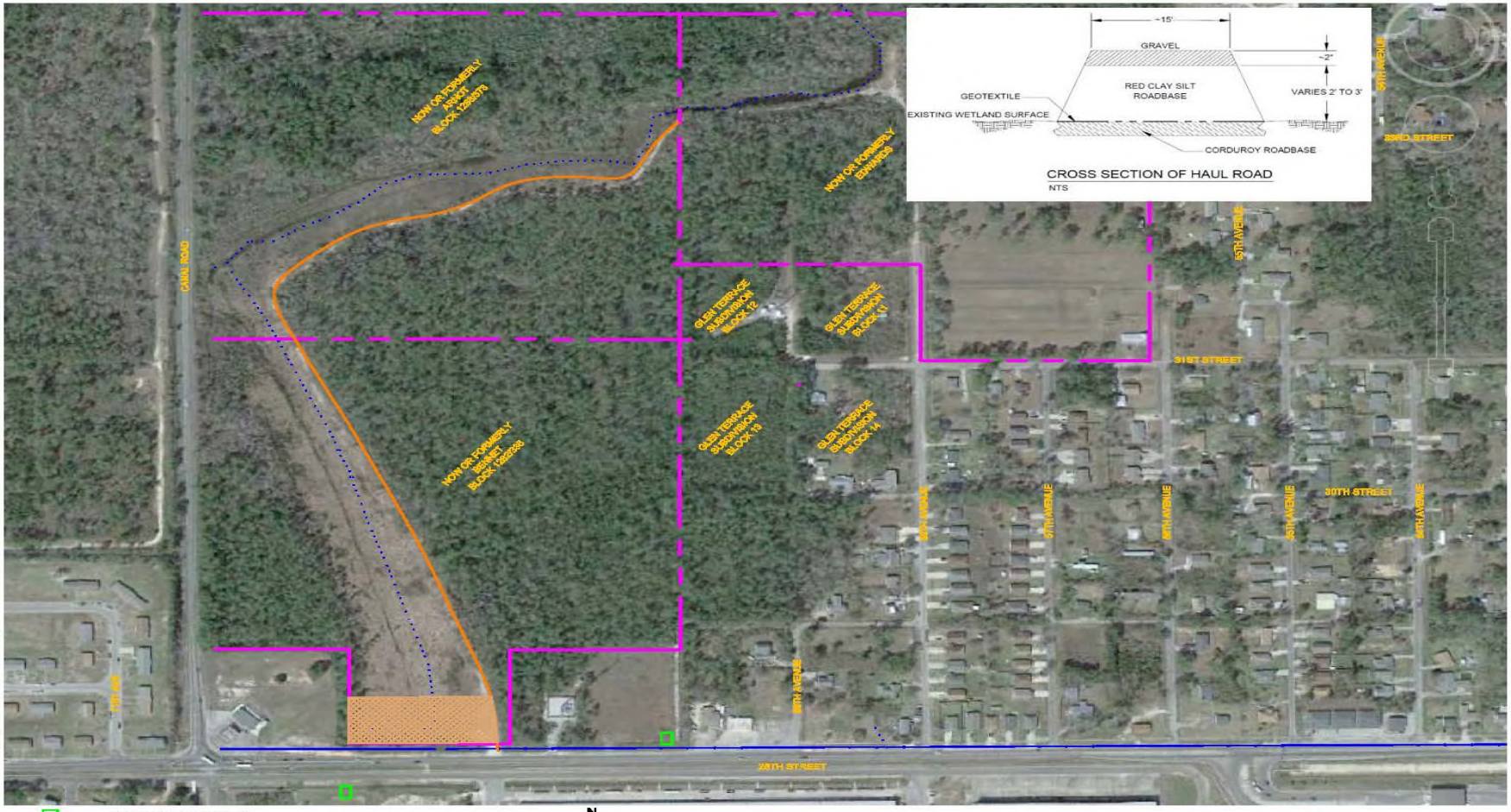
TETRA TECH

Haul Road Removal NCBC Gulfport, MS

Project Summary

- Removed a 2,838 ft long, 15 to 20 ft wide, and average 2 ft thick corduroy haul road
- Extracted a layer of 15 to 20 ft long logs from under the roadbed and dispose off site
- Removed 4,838 cy of soil in 709 truck loads and 81 truck loads of logs
- Removed soil roadbed and placed a new 420 ft by 160 ft earthen pad in upland adjacent to 28th Street
- Restored roadbed to the surrounding wetlands and stabilized new pad
- Disposed of 81 truck loads of logs at City of Gulfport Landfill

Location of Project



Entry to Haul Road at 28th Street

The Road is Here Somewhere

North End Before Removal

Overgrown Road at the South End

Excavator Clearing Trees and Shrubs from Roadway

Preparing Roadway for Hauling

Material Being Placed on Roadway for Reinforcement

Improved Roadway for Hauling

South End Ready for Hauling

First Layer of Soil Removed at Edwards' Property

Getting Started at Edwards' Property Line

Initial Removal of Soil and Logs at Edwards' Property Line

Two Criss-Crossed Layers of Logs Piled for Removal

End of Road at the Edwards' Property with Breached Causeway

Upland Area at 28th Street being readied for Fill

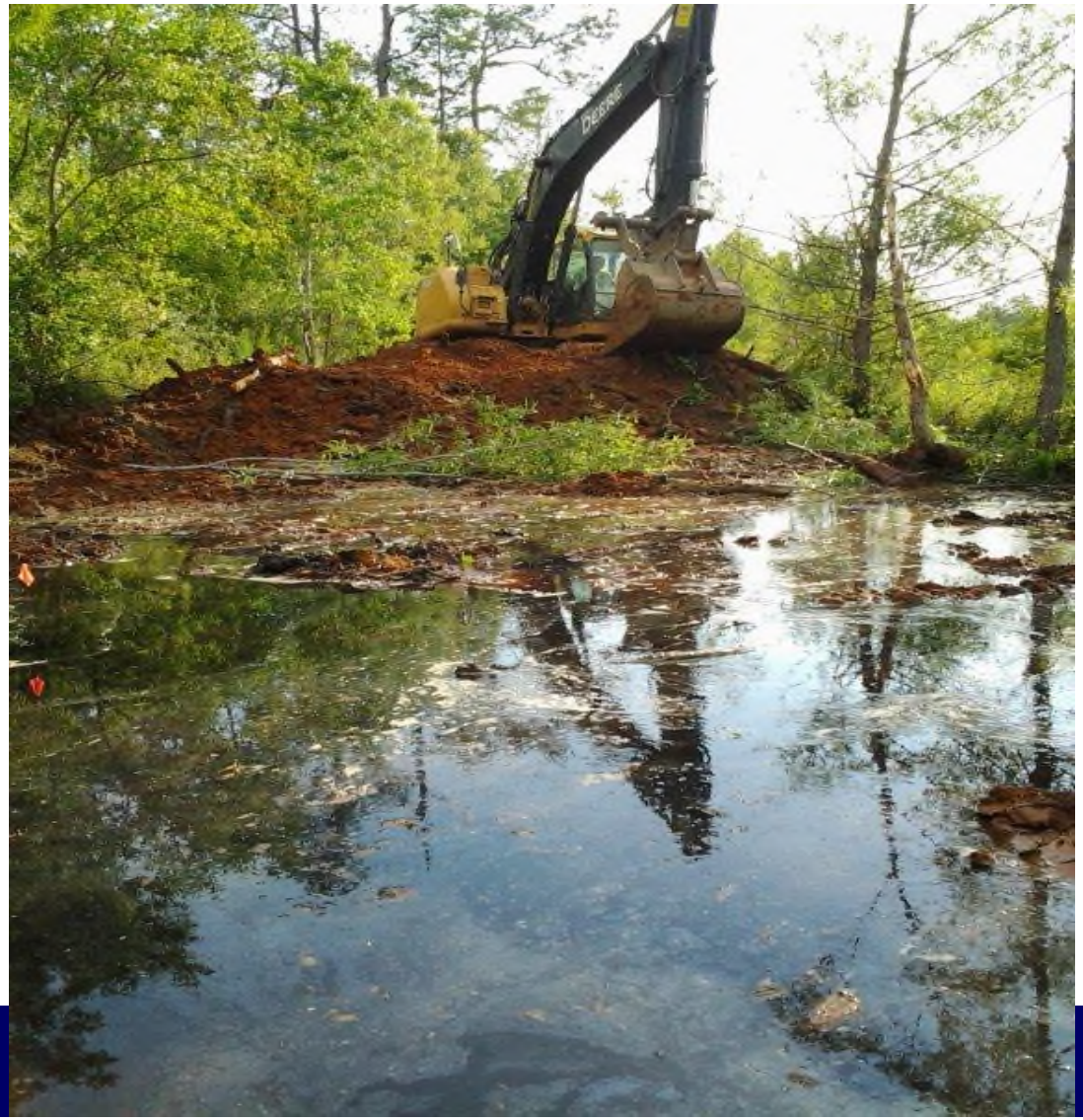
New Earth Pad Filling Starts

New Pad is Incrementally Built with Silt Fence added as Needed

Cutting Logs to Length for Transport to Landfill

Logs Stacked for Removal to the Landfill

Working Face as the Swamp Infringes on the Roadway Path



View of the Stripped Roadbed from the Edward's Property

The Rain Arrives

Removal Operations Continued in Less than Optimum Conditions

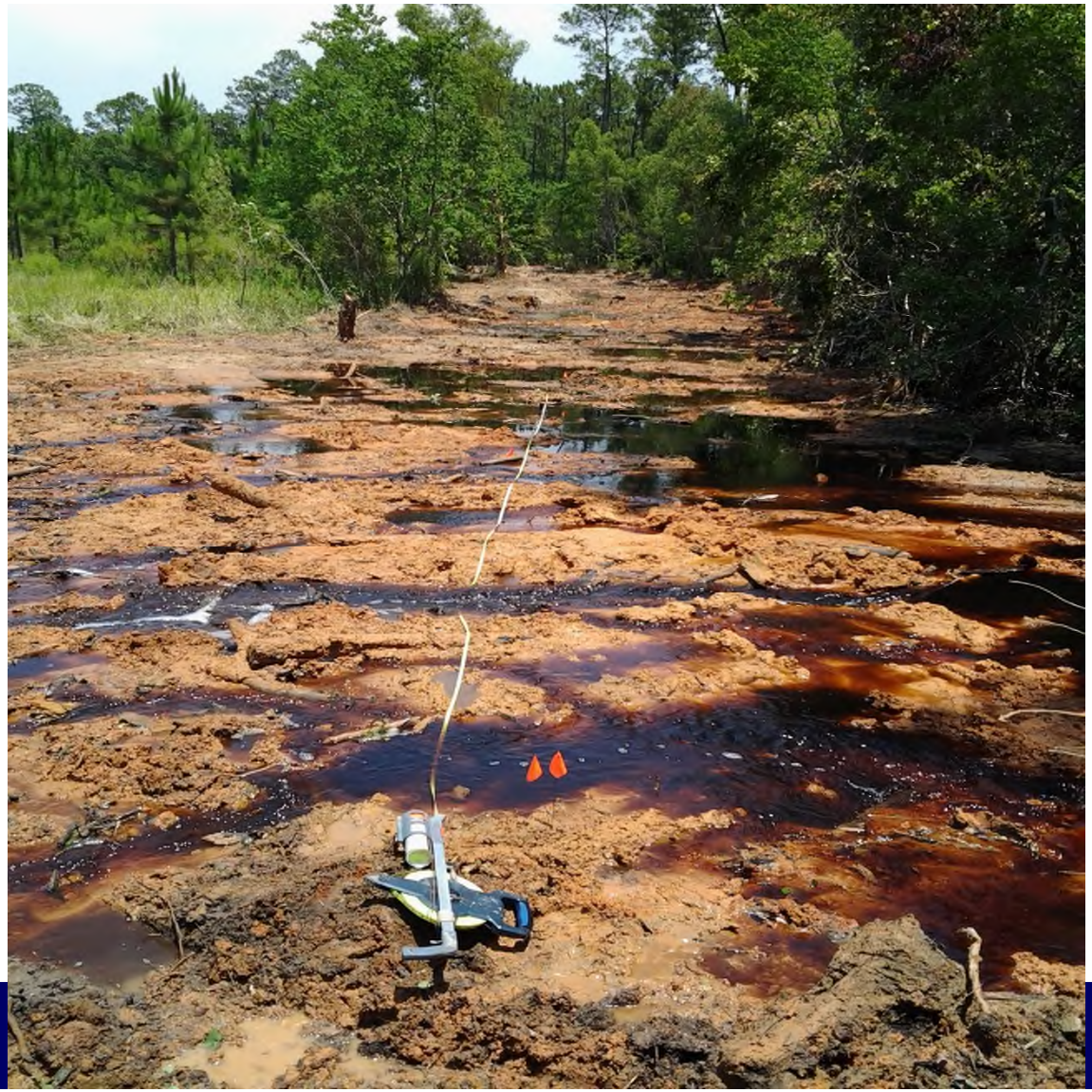
Roadbed Grassed, Mulched, and Flooded by Swamp

Swamp Water Gushes past Removed Roadbed to Creek

Rain Accumulation on the Roadway

Dump Truck Getting some Help from its Friends

Measuring the Final Product



Swamp Reclaims the Roadbed

Soil piled for Removal to Earthen Pad

Loading out Soil from Roadway

A Load of Soil on the Way to the Earthen Pad

View West of Earthen Pad and Silt Fence

Final Stretch of Road being Removed

Roadway Removed as Viewed from Working Face

Haul Road Seeded and Grass Growing

Logs loaded on Trucks for Shipment to Landfill

Logs at Landfill being Covered

Logs loaded out from Working Face

Roadbed view North from Earthen Pad

Earthen Pad Graded

Earthen Pad with Erosion Control Mat, Seed, and Mulch

Metal Gate Installed at 58th Avenue

Site 8 – Sediment Stabilization Tests

November 2014 BCT Meeting
Gulfport, Mississippi

RESOLUTION CONSULTANTS

Discussion Topics

- Sediments requiring stabilization
- Treatability Test
- Stabilization Pilot Tests
  - Location where sediment will be stabilized
  - Stockpiled Sediment Pilot Test
  - Ditch Sediment Stabilization Pilot Test
- Potential Future Use
- Schedule
- Questions

Dioxin-Contaminated Sediment Stockpiles

- Sediments generated during ditch maintenance activities are stockpiled on northern end of Site 8B
- TetraTech samples indicate sediments contain dioxins
- Soil generated during stabilization of sediments on the southern portion of Site 8B
- Approximately 12,000 cubic yards/17,000 tons of stockpiled material
- Treatability and pilot tests will be conducted on the stockpiled material

FIGURE 3-2
LOCATION OF SEDIMENT STOCKPILES
SITE 8
NCBC GULFPORT
GULFPORT, MISSISSIPPI

NAVFAC Naval Facilities Engineering Command
RESOLUTION CONSULTANTS

REQUESTED BY: P. JOBMANN	DATE: 10/14/2014
DRAWN BY: B. LIPSCOMB	TASK ORDER NUMBER: 15339

Some data are from Tetra Tech; Road names were acquired from Esri, DeLorme, HERE, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom.

X:\Navy\NCBC_Gulfport\Sediment_Stockpiles.mxd

Dioxin-Contaminated Ditch Sediments

- Increase in dioxin concentration in ditch sediments identified during LTM
- Further investigated by TetraTech to identify sections of ditch with dioxins exceeding MDEQ Tier 1 restricted soil TRG
- Sediment will be excavated from the ditches and stabilized during pilot test (approximately 1,200 cubic yards/1,500 tons)
- One section of ditch will be addressed by concrete channel or pipe with catch basins

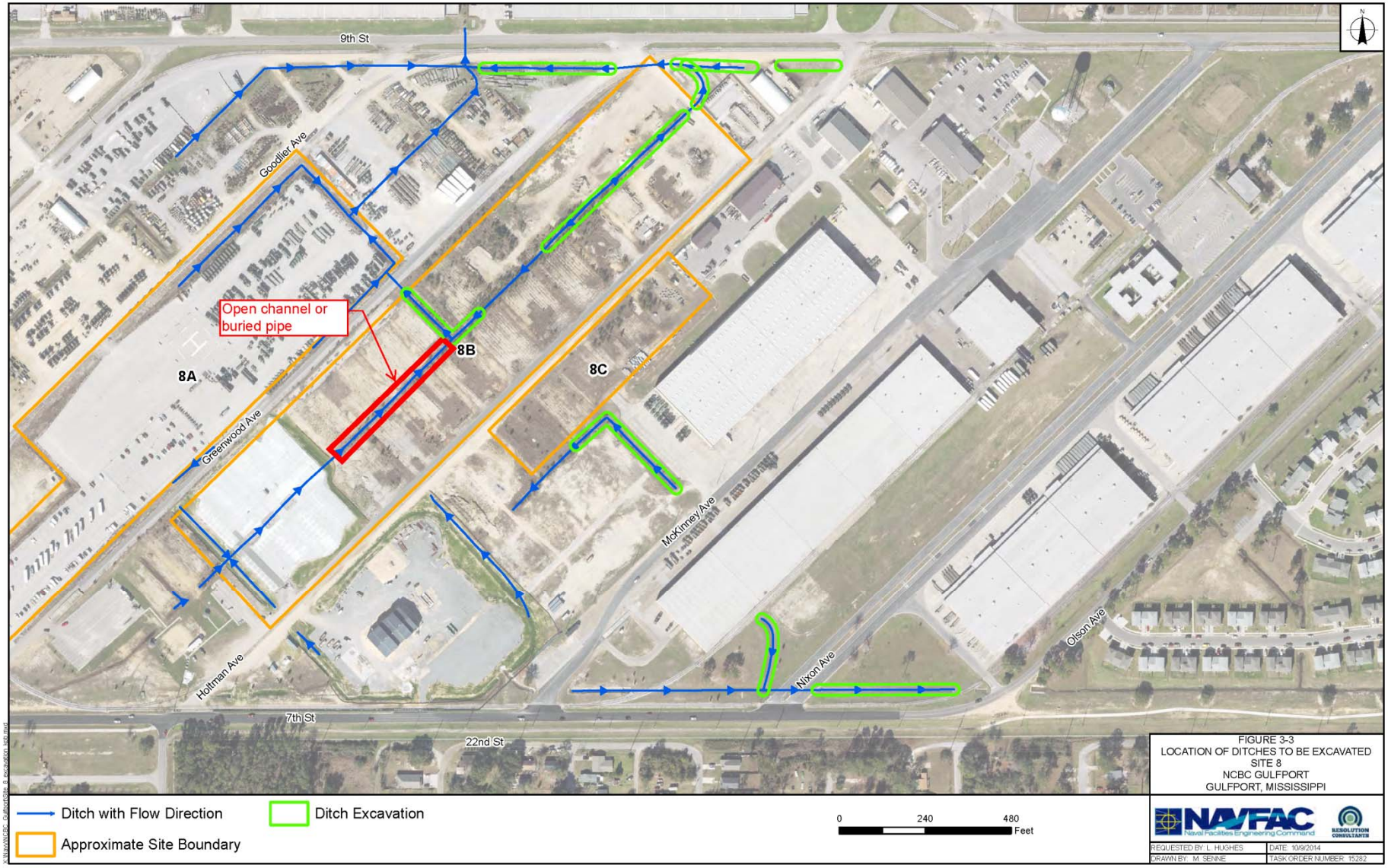


FIGURE 3-3
LOCATION OF DITCHES TO BE EXCAVATED
SITE 8
NCBC GULFPORT
GULFPORT, MISSISSIPPI

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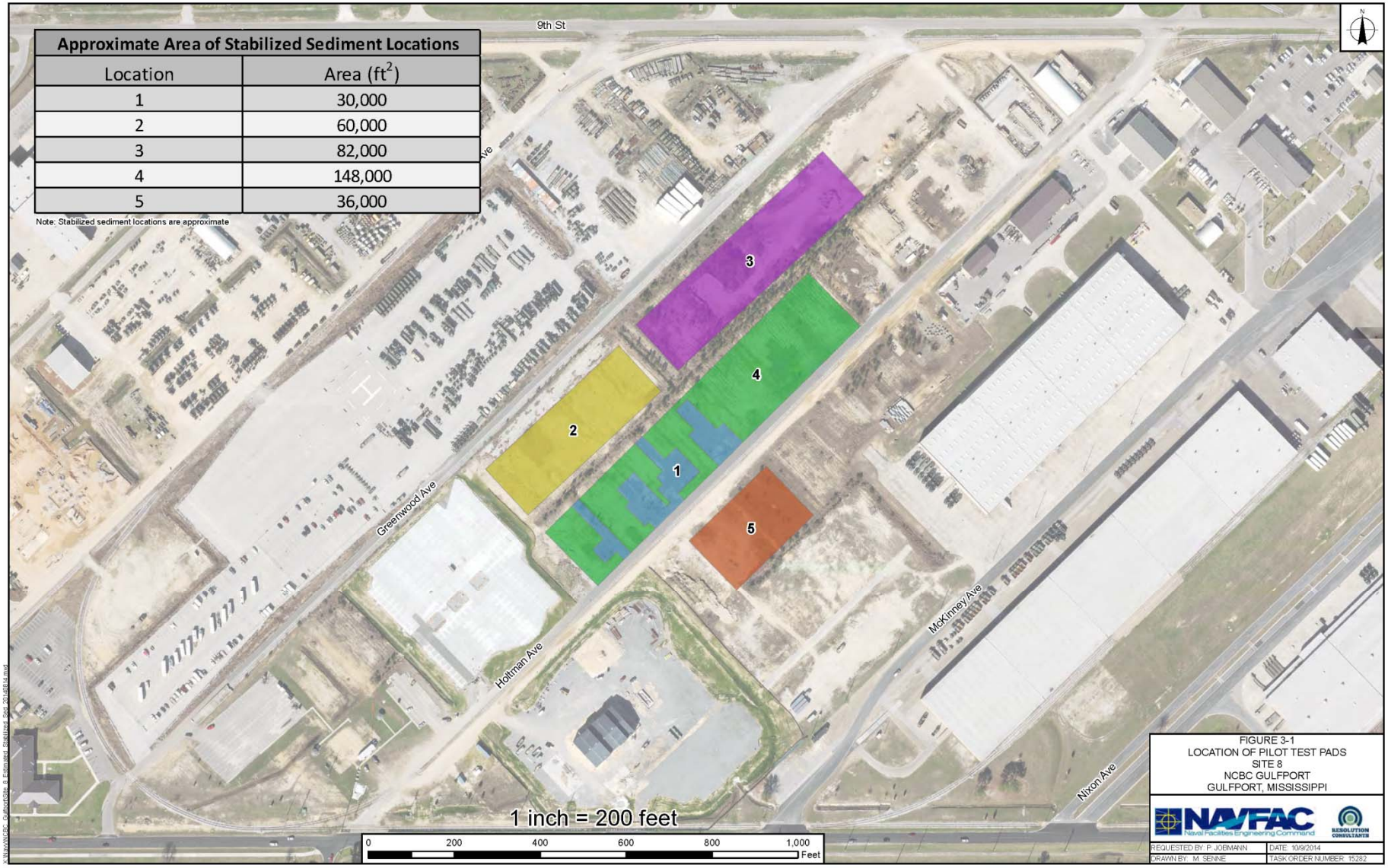
Treatability Test

- Determine ratio of Portland cement necessary to stabilize stockpiled sediment
- Test pad grid set up with different ratios of sediment amended with Portland cement (9, 11, 13, and 15% Portland)
- Geotechnical and chemical tests and goals
  - Moisture-density relationship (Proctor density)
  - Field compaction tests (95% of Proctor density)
  - California Bearing Ratio (CBR) (> 20)
  - Unconfined compressive strength (UCS) (> 50 psi)
  - Dioxin leachability (MDEQ Tier 1 GW TRG of 30 pg/L)
- Lowest ratio of Portland that achieves goals will be applied to stockpiled sediment

Stabilization Pilot Tests

- Stockpiled sediment pilot test
- Ditch sediment pilot test
- Filling in deeper historical Air Force excavations first
- Remaining stabilized sediments spread across Sites 8B and 8C (assuming 1 ft lift)



Approximate Area of Stabilized Sediment Locations	
Location	Area (ft^2)
1	30,000
2	60,000
3	82,000
4	148,000
5	36,000

Note: Stabilized sediment locations are approximate

FIGURE 3-1
LOCATION OF PILOT TEST PADS
SITE 8
NCBC GULFPORT
GULFPORT, MISSISSIPPI

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REQUESTED BY: P. JOBMANN | DATE: 10/9/2014
DRAWN BY: M. SENNE | TASK ORDER NUMBER: 15282

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Stockpiled Sediment Pilot Test

- Stabilize sediment using Portland ratio from treatability test
- Stabilized sediment must achieve project goals of:
  - Compaction > 95% Proctor (every 2,500 sq ft)
  - CBR > 20 (every 10,000 sq ft)
  - UCS > 50 psi (every 10, 000 sq ft)
  - Dioxin leachability < 30 pg/L (every 25,000 sq ft)

Ditch Sediment Stabilization Pilot Test

- Excavate sediment from ditches
- Stabilize sediment using Portland ratio developed during previous tests – 12%
- Same geotechnical and chemical goals as other tests
- Confirmation sampling in ditches to document removal of sediment exceeding unrestricted soil TRG (38.2 ng/kg) (every 30 linear feet)

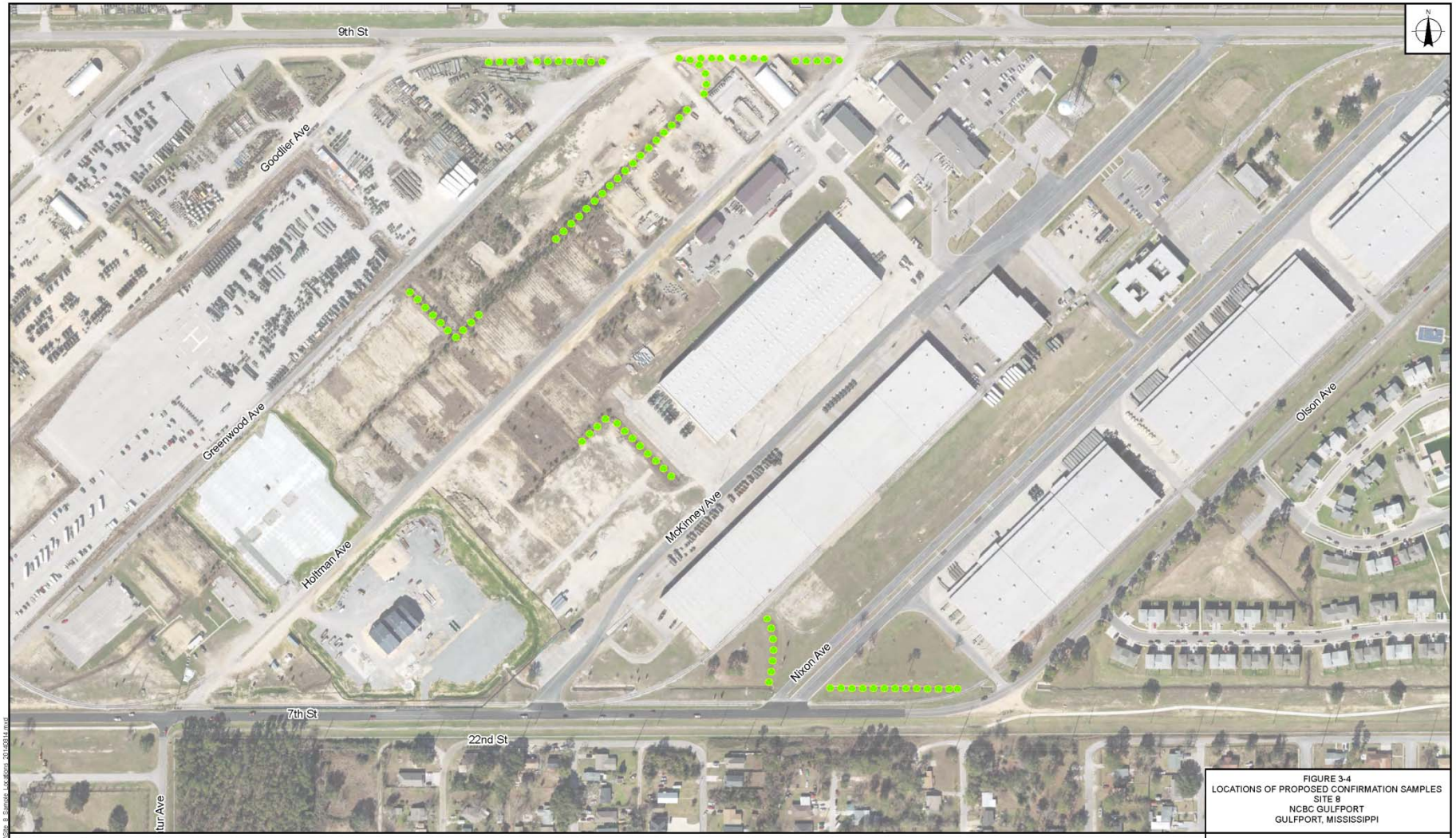

FIGURE 3-4
LOCATIONS OF PROPOSED CONFIRMATION SAMPLES
SITE 8
NCBC GULFPORT
GULFPORT, MISSISSIPPI

Legend

- 30 ft Interval Sample Points

0 250 500 Feet

Note: Sampling locations are approximate.

NAVFAC Naval Facilities Engineering Command

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REQUESTED BY: L. HUGHES	DATE: 10/9/2014
DRAWN BY: K. Burnum	TASK ORDER NUMBER: 15282

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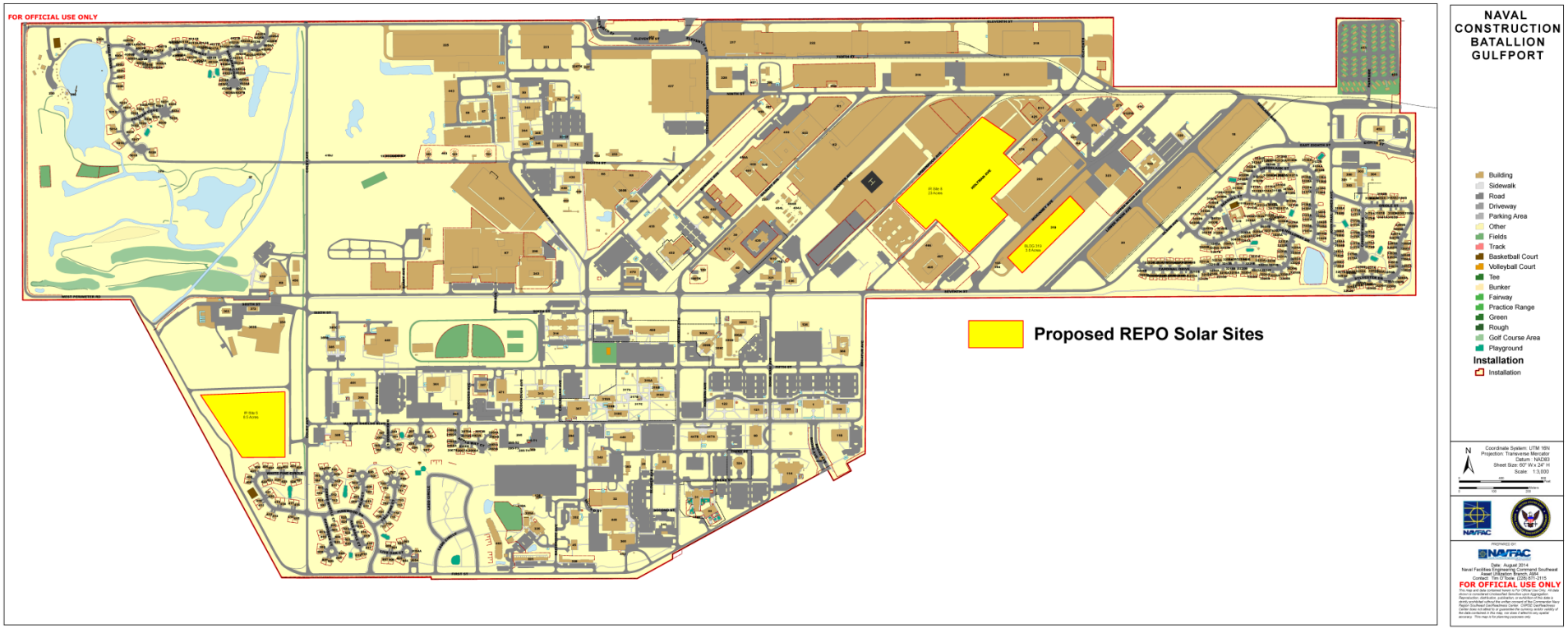
Potential Future Use of Sites 8B and 8C

- Renewable Energy Program Office (REPO) has started planning for the installation of solar arrays on NCBC Gulfport
- Plan to use 23+ acres at Site 8 and 8.5 acres at Site 5
- Pilot Tests and Remedial Design will have to take into account the arrays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Proposed REPO Solar Sites
NAVAL CONSTRUCTION BATALLION GULFPORT
Building
Sidewalk
Road
Driveway
Parking Area
Other
Fields
Track
Basketball Court
Volleyball Court
Tee
Bunker
Fairway
Practice Range
Green
Rough
Golf Course Area
Playground
Installation
Installation
Coordinate System: UTM 16N
Projection: Transverse Mercator
Datum : NAD83
Sheet Size: 60" W x 24" H
Scale: 1:3,000
NAVFAC
PREPARED BY
NAVFAC
Date : August 2014
Naval Facilities Engineering Command Southeast
Asset Utilization Branch, JSRA
Contact: Tim O'Toole (228) 871-2115
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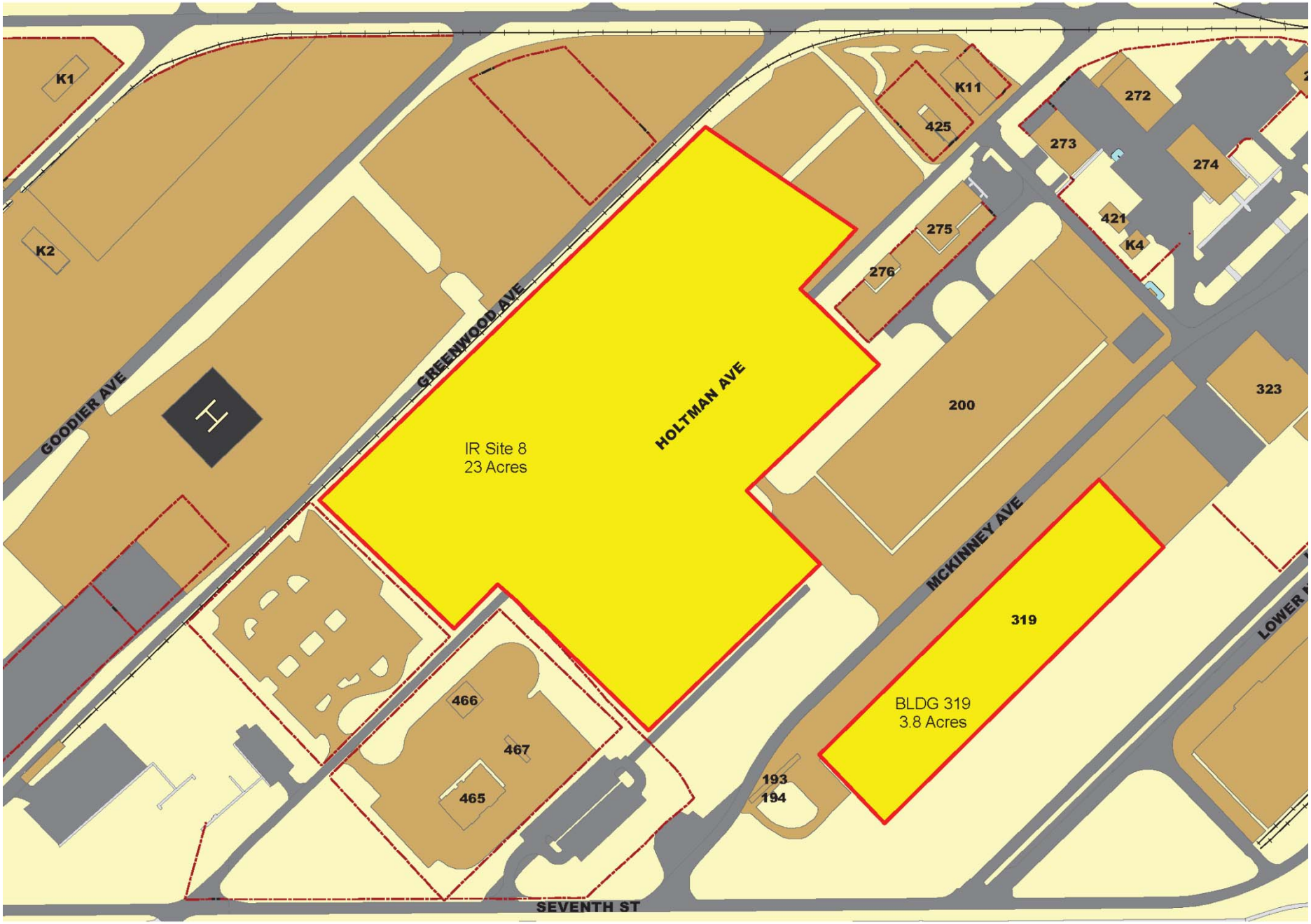
K1
K2
GOODIER AVE
GREENWOOD AVE
IR Site 8
23 Acres
HOLTMAN AVE
K11
425
272
273
274
275
276
421
K4
200
323
MCKINNEY AVE
319
BLDG 319
3.8 Acres
466
467
465
193
194
SEVENTH ST

Schedule

- Treatability test – December 2014
- Stockpiled sediment pilot test – January 2015
- Drainage swale sediment pilot test – February/March 2015

Questions?

Community Involvement Plan (CIP) Implementation Review and Implementation Strategy

Community Concerns/Perceptions	Activity to Address		Description of Activity	Considerations	Proposed Modifications/Actions
Perceived lack of knowledge/ information regarding NCBC ERP: 1. Need more information for general public 2. Use more plain English is written and presentation materials 3. Develop a public web page (PWP)	1A	Maintain mailing list/provide program updates and information via email and regular mail as requested	• Maintain list • Continue to solicit interested persons/organizations • Mail/email information and provide content during RAB and public meetings.	All of these activities are currently being done	• Review what we send out in the mail and consider increasing the content of mailings • Continue to refine content to present it in plain language. • Minimize using numbers in content where possible
	1B	Investigate utilizing other methods of distributing including websites, phone calls, etc.	• Share information with local organizations, schools, churches, civic groups. • Expand posting of public meeting notices • Talk to community leaders to evaluate effectiveness of selected methods		Consider setting up a focus group with select active community leaders (e.g., Howard Page, Ms. Fredericks) to discuss our current approach.
	1C	Keep IR up to date	Place documents in the IR on a regular basis	Discuss our process	Consider involving Libby more actively to maintain the IR.
Concerns about surface water and coastal resources – potential impacts to: • Surface water quality in general • Barrier islands and beaches • Seafood industry • Historic impacts from BP oil spill and creosote plant • Storm water runoff and flooding • Wetlands, specifically Turkey Creek watershed	2A	Publicize all aspects of the ERP to include IR sites as well as current long-term compliance and stewardship	• Develop and implement a method to provide the community with up-to-date status of the ERP and investigate ways to provide basic information regarding the current compliance program • Consider fact sheets, poster stations, web pages,	Aren't compliance issues outside of our scope? How does NAVFAC inform public of ongoing compliance activities?	Maintain awareness of the sensitivity of these issues. Report known impacts to stormwater, surface water quality, flooding, and wetlands in outreach materials where appropriate.

Community Concerns/Perceptions	Activity to Address		Description of Activity	Considerations	Proposed Modifications/Actions
Perceived health effects (Site 8/HO): 1. It is not a good place to live because of historical HO contamination 2. Cancers and other health effects observed in community are result of past exposures to HO 3. Navy should pay for additional health related costs for those affected by offsite HO contamination 4. Frustration that past levels of contamination are unknown and cannot be reconstructed 5. Don't trust that off-site investigations have been adequately completed	3A	Hold community workshops to publicize the cleanup of all IR sites with specific emphasis on the environmental restoration of Site 8.	Include: • Scope and legal limitations of IR program • Site history and extent of contamination • Status of off base cleanup • Status of off-site sampling and monitoring • Explanation of cleanup levels and regulatory oversight of the process • Overview of the PHA process and results	We have been addressing this concern with our History of Dioxin posters and handouts at the RAB meetings as well as the ERP Update	• Refer to Agent Orange as HO throughout the CIP. • Place the History of Dioxins poster on the PWP • Develop poster and fact sheet to discuss dioxin (done) • Develop a fact sheet to summarize dioxin findings on and off base.
Lack of trust: Community Perceptions: 1. Information is not shared completely or in a timely manner 2. Navy's sampling was not accurate or was dishonest 3. Unsure that all cleanup issues related to Site 8 are addressed 4. Base engages "important" or "influential" stakeholders but not those right outside of base 5. Military has not taken a lead role role to address community concerns 6. NCBC should engage more on day-to-day basis with community	4A	Find opportunities for partnerships and identify ways to engage community regarding ERP	• Use available list servers to distribute NCBC meeting announcements, updates, and general information • Partner with local organizations, civic groups, etc. to participate in "environmentally themed" events and activities. • Engage local community leaders on a regular basis (esp. churches and religious groups) • Encourage increased participation in such programs by NCBC senior military leadership • Engage PAO to publicize such efforts in local media • Ensure all products are easy to read and understand	New base CO is more involved.	We should consider removing the action related to the CO from the CIP.

Community Concerns/Perceptions	Activity to Address		Description of Activity	Considerations	Proposed Modifications/Actions
Environmental justice concerns: 1. Communities are impacted disproportionately (e.g., Turkey Creek) 2. Poor relationship with Turkey Creek community 3. Off-site environmental cleanup was not a priority because those affected were low income/minority	5A	Identify opportunities for partnerships as identified in 3A	• Seek input from communities and businesses directly outside of base • Actively engage Turkey Creek community to dispel misperception		Discuss actions needed to engage Turkey Creek community
Perceived economic impacts: 1. Lower property values adjacent to NCBC 2. Difficulty in renting or selling homes due to historical contamination from base 3. Community has not reaped benefits from being located next to base.	6A	Improve perception of NCBC's economic impact	Provide information (provided in section 2.3 of CIP) via the PAO	Do we need to engage the PAO on this effort? Probably not an ERP activity.	
General lack of interest in the ERP: 1. Community member involvement doesn't make a difference in outcome 2. Information presented at RAB meetings is not helpful 3. Base is not listening to community concerns	7A	Involve community in a wide range of site related activities	Provide the draft CIP to the RAB for community review and comment	The draft CIP was provided at a previous RAB meeting that was poorly attended	Provide this revised draft to the RAB and encourage input. Consider providing via mail before the next meeting so that there is time for them to consider and provide substantive input.