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NSA PANAMA CITY
5090.3a

DRAFT MINUTES AND AGENDA FOR PARTNERING TEAM MEETING DATED 9 MAY 2014
NSA PANAMA CITY FL
5/9/2014
TETRA TECH INC

**PARTNERING MEETING DRAFT MINUTES
NSA PANAMA CITY
May 9, 2014, Virtual and Tetra Tech Jacksonville, FL**

Leader: Jeff Lockwood
Timekeeper: Richard Lee

Members Present:

| | |
|------------------|-------------------------|
| Mike Clayton | NSA PC |
| Tom Johnston | Tetra Tech, Pittsburgh |
| Richard Lee | NSA PC |
| Jeff Lockwood | FDEP |
| Brian Syme | NAVFAC SE RPM |
| Gerry Walker | Tetra Tech, Tallahassee |
| | |
| Helen Lockard | Tier II Link |
| John Schoolfield | NAVFAC SE (NOSC) |
| Pat Franklin | TME, Facilitator |
| Libby Claggett | Tetra Tech, Scribe |

Meeting Start Time: 8:30 a.m., ET

1. Check-In/Introductions/New Members/Opening Remarks/Head Count and Proxies/Guests

Team members shared events since the last meeting.

2. Action Items and Parking Lot Review/Minutes Approval/Agenda Changes/Team Charter Review/Ground Rules Review

The Team then reviewed consensus items, parking lot items, and updated the action item list. The ground rules were reviewed.

| OPEN ACTION ITEMS | | | | |
|-------------------|---------------------------------------|---------|-----------|--|
| Action Item # | Responsible Party | Status | Due Date | Action Item |
| A-0413-02 | (Charles) Brian Richard and Tom | Ongoing | 4/12/2013 | Charles is to finish the LUC matrix document regarding training requirements. Update 10-2013: Richard and Tom will finish the LUC matrix document and share with Team members. Update 02-2014: Tom will send the matrix to the Team upon his return to Pittsburgh from this meeting. Update 05-2014: The LUC matrix included a health and safety column however, if someone is working at a hazardous waste site, OSHA 40-hour is needed. |
| A-0413-04 | (Charles) Brian | Ongoing | 3/30/2014 | Charles is to prepare a public notice for the CRP/RAB. Update 10-2013: Melissa (Navy PR) will work with the installation in January to update information. Update 05-2014: Brian spoke to Melissa and she is preparing the public notice. |

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| A-1013-01 | Team | Ongoing | By the next meeting | Team members are to decide together which wells are to be abandoned at NSA Panama City at the next face-to-face meeting. Update 02-2014: Once the LTM requirements are determined, a decision can be made as to which wells can be abandoned. Update 05-2014: The contract has been modified to include ground truthing. The work is schedule to begin 27 May 2014. |
| A-1013-07 | Navy Mike | Ongoing | 11/1/2013 | The Navy is to discuss funding for UST 362. Update 05-2014: DLA was contacted; a request to DLA for funding will need to be made. Mike will work on making the request for funding. |
| A-1013-08 | Brian | Ongoing | By the next meeting | Brian is to find out if Bob Fisher can provide NIRIS 2 training to the NSA Panama City Partnering Team. Update 05-2014: This will be done after the public web site is working. |
| A-1013-12 | Brian | Ongoing | 10/25/2013 | Brian is to check with Bob Fisher regarding updating the LUC Tracker for NSA Panama City. Update 05-2014: The Navy is still collecting data. |
| A-0214-01 | Brian, Richard, Tetra Tech | Done | By 2/21/14 | Brian and Richard are to get with Tetra Tech to populate the revised Exit Strategy. |
| A-0214-02 | Jeff Day | Done | | Jeff Day is to provide trend data to Jeff L. for AOC 1 well 17-S. |
| A-0214-03 | Gerry | Done | By 2/19/14 | Gerry is to send the pdf of the basewide monitoring well locations to Team members. |
| A-0214-04 | Gerry | Done | By 2/21/14 | Gerry is to provide Brian with a ball park estimate of a physical basewide monitoring well inventory at NSA Panama City. |
| A-0214-05 | Helen and Brian | Done | By 2/28/14 | Helen and Brian are to find funding for a physical basewide monitoring well inventory at NSA Panama City. |
| A-0214-06 | Gerry | Ongoing | By 3/31/14 | Gerry is to review the historic data for AOC 2 soils and groundwater and complete a summary memorandum with recommendations. |
| A-0214-07 | Gerry | Ongoing | By 3/31/14 | Gerry is to incorporate lines of evidence and history (living CD of historic documents) at South Dock into the Technical Memorandum. |

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| A-0214-09 | Helen | Done | By 2/28/14 | Helen is to talk with John Schoolfield regarding the NOSC metal exceedances. |

Consensus Item: The Team reached consensus to approve the February 2014 meeting minutes as final.

3. Training

Pat provided training on Improving Work Groups. The training consisted of Team members discussing the current skill set and shortcomings. The intent of the training was to show the skills of the Team members and that this is a well-rounded Team.

4. Monitoring Well Inventory

The ground truthing needs to be completed before a decision can be made on the monitoring well inventory. Funding is in place, and the ground truthing plan has been submitted and needs to be approved by the Navy. The ground truthing is scheduled for May 27, 28, and 29, 2014.

Action Item: Tom is to send Jeff L. a courtesy copy of the ground truthing plan.

5. Site 98 Update

The Tier II UFP-SAP was submitted to the Navy. Comments were received and incorporated. Tetra Tech is waiting for the Navy chemist to approve the response to comments. Field work is anticipated to begin in mid-June (dependent upon FDEP approval of the UFP-SAP).

Action Item: Brian is to contact the Navy chemist regarding approving the response to comments for the Site 98 Tier II UFP-SAP.

6. Site 325 Update

The Tech Memo was revised and submitted to include a LUCIP with new LUC boundaries. This site is a petroleum site, and discussion ensued regarding the FDEP petroleum program and that petroleum sites usually do not have LUCs. Per Jeff L., approval of the Site 325 LUCIP should not be an issue. Once the approval letter is received from the FDEP, the report will be finalized and the current site investigations will be done. LUCs will need to be implemented thereafter.

7. AOC 2 Update

Gerry pulled together the historical soil and groundwater data. Tetra Tech data matched what was in NIRIS; however, there are documents where the data is not in NIRIS. Gerry provided figures showing surface soil, subsurface soil, and groundwater exceedance locations. Gerry also provided a list of the documents that appear to have data in them, and the data from the reports needs to be put into NIRIS.

A memo with suggested paths forward and a compilation of all historic data for AOC 2 will be prepared by Tetra Tech.

8. South Dock Update

Free product was found adjacent to Alligator Bayou. Multiple lines of evidence were investigated to see if additional investigation is required or not. There were no lines of evidence for the sea wall, and it would be impractical to try to remediate the sea wall (waffle system). Gerry proposed finalizing the tech memo and preparing a LUCIP for South Dock.

9. Tier II Update

The last Florida Navy Tier II meeting was held in Jacksonville, Florida on March 19-20, 2014. Major discussion items included reorganization and funding updates, Tier I Team reports and Exit Strategy reviews, NAS Jacksonville Tier I Team presentation, Basics of Partnering training evaluations, Tier II FY 2014 goals, Tier I Team presentation schedule, CNO Award congratulation letters, and Conflict Response training. The next Tier II meeting is scheduled for June 10-11, 2014, in Atlanta at the AECOM office in Buckhead.

General comments to the Exit Strategies included the following:

- Some Tier I Teams did not use the Exit Strategy template provided and custom reports that were developed by Arne are not available. Exit Strategy information should be put into the template provided so that the custom reports can be generated.
- Some Tier I Teams have requested to have the Regulator Review separated by State and Federal. Tier II agrees Tier I Teams should have the level of detail that is best for that Team without deleting columns from the template that was provided.
- Tier I Teams need to accurately update the % Complete (do not leave at 0% unless the activity has not started yet). If the task is past and accomplished, the % Complete needs to be 100%.
- Tier II recommends having the person inputting the Exit Strategy data, along with the Navy RPM, meet with Arne to troubleshoot and ensure consistency on their respective Exit Strategies.
- If there is a positive finish variance (there has been slippage), Teams need to check the delayed flag and manually add a comment with the Note feature. Tier I Teams can also add positive comments to their Exit Strategy (not just negative of why a date was pushed out).
- Tier II may request the Navy RPM be available via telephone to answer any questions during the next Tier II meeting on June 19-20, 2014.

There were no comments specific to the NSA Panama City Exit Strategy.

Another version of the Exit Strategy template is being created. Once it is finished, Arne Olsen will do the initial inputting of each Team's information and will send the updated template to the Team. A user's manual is being created as well, and Helen will send it to the Team when it is finished.

Future Meeting Dates and Tier I Team to be Invited (tentative)

| | | |
|----------------------|--------------------------|-------------------|
| June 10-11, 2014 | Pensacola /Corry/Saufley | |
| September 11, 2014 | Whiting Field | Virtual (one day) |
| December 10-11, 2014 | Mayport | |

Action Item: Helen is to determine if the reissue of the NSA Panama City Corrective Action Permit covers the Five Year Review requirement.

10. CRP and RAB Update

Melissa is preparing the public notice and will be contacting base personnel regarding information that needs to be discussed. Brian stated it is no longer the CRP; it is the CIP – Community Involvement Plan.

Action Item: Helen is to send Brian and Melissa the contact information for the newspaper (for the public notice).

11. Public Website

The link to the Navy public websites is as follows:

http://www.navfac.navy.mil/products_and_services/ev/products_and_services/env_restoration/installation_map/navfac_atlantic/southeast.html

Information to be put on the site should be in the format needed because it is difficult to make changes once the information is loaded onto the site. Tom needs input from Team members regarding information to be included on the public website. Brian will also need to send the information to Sue Brinks for approval before it is loaded. The information is for the public, so a lot of data and technical information is not required.

12. Exit Strategy

The next rounds of exit strategies updated are due as follows: 23 May 14, 29 Aug 14, and 25 Nov 14. They should be emailed to Jeff James (jjames@ensafe.com), Robbie Darby (Robbie.Darby@navy.mil), Helen Lockard (helen.lockard@navy.mil), and Sarah Reed (Sarah.Reed@navy.mil).

DLA sites will need to be added to the Exit Strategy when they get funded.

Action Item: Gerry, Tom, Brian, Mike, and Richard are to review the revised Exit Strategy and provide updates to Libby.

13. LUC Boundaries for All Sites

Tom provided copies of the LUC boundary figures to Team members. Team members discussed the LUC boundary for SWMU 2. When the LUC boundary changes, does a new Decision Document have to be issued with another public comment period and public notice? The remedy is the same and working, but monitoring was stopped and the boundaries were reduced. The LUC boundaries were published in the CMIP and the Statement of Basis. The reports documenting the changes were approved by the FDEP. Team members discussed if the public has to see the revised LUC boundaries and, if so, what is the mechanism to provide the information to the public. FDEP guidance states that changes to LUC boundaries should follow the original process. It was suggested to discuss the process with Tier II since this is an issue across multiple Tier I Teams.

Action Item: Helen is to discuss the process of changing LUC boundaries that have gone to public notice with Tier II and determine the correct way of changing the boundaries (remedy working, boundaries shrinking at SWMU 2).

Until guidance is received from Tier II, the Team decided to proceed with the current path forward and include the boundaries in the GeoReadiness database. At this point, the only reservation Tom has is that he has not verified the LUC boundaries. The G300 LUC boundary is only approximate. The LUC Tracker will be developed after the boundaries are verified.

Action Item: Tom is to verify the LUC boundaries for all sites.

14. MRP Update

The preliminary assessment was conducted and the draft report written. There were several sites that were recommended for further investigation.

15. NOSC Sampling Results/Closeout

The Final Site Assessment Report for Underground Storage Tank Site 2-B at the Naval Operations Support Center (NOSC) in Tallahassee is currently in FDEP review. Because of the reported vanadium and arsenic, the FDEP is having issues with closing the site. Most of the arsenic hits are in the clay layer, and there appears to be no connection of elevated metal concentrations with site activities, which were related to management of petroleum product. The arsenic is believed to be naturally occurring. Jeff suggested using the argument of background and the detections are not connected to NOSC activities; also, confirmation sampling may need to be conducted for the groundwater manganese detection. Helen asked whether adding more discussion regarding why the metals were sampled would help the argument for NFA, and Jeff said it would. The FDEP is in the process of preparing the review letter.

Action Item: Jeff is to determine if the background and non-NOSC associated aspects can be accepted regarding the metals for NFA at the NOSC site.

16. LTM Discussion

Brian would like to have a basewide LTM SAP that can be transferred to a smaller contractor in the future. Brian showed the Team the 2011 Navy guidance that was developed for preparing the LTM template.

17. Meeting Closeout

Action and Consensus Item Review

Action and consensus items were reviewed and provided on the following page(s).

Meeting

The next meeting is a meeting scheduled for Friday, August 15, 2014, beginning at 8:30 a.m. Eastern Time at Tera Tech, Jacksonville, Florida. Brian Syme will be the Team Leader, and Jeff Lockwood will be the time keeper.

| DRAFT MEETING AGENDA | | | |
|---|-----------|--------|----------------------|
| Description | Presenter | Time | Category/Expectation |
| Check-In/Introductions/New Members/Opening Remarks/Head Count and Proxies/Guests | Leader | 15 min | Decision |
| Action Items and Parking Lot Review/Minutes Approval/Agenda Changes/Team Charter Review/Ground Rules Review | Leader | 15 min | Information |
| Training | Pat | 30 min | Training |
| Monitoring Well Inventory | Brian | 60 min | Decision |
| Site 98 Update | Tom | 15 min | Information |
| Site 325 Update | Tom | 15 min | Information |
| AOC 2 Update | Gerry | 15 min | Information |
| South Dock Update | Gerry | 15 min | Information |
| Tier II Update | Helen | 30 min | Information |
| CIP and RAB Update | Brian | 15 min | Information |

| DRAFT MEETING AGENDA | | | |
|--|------------|--------|----------------------|
| Description | Presenter | Time | Category/Expectation |
| Public Website | Tom | 30 min | Information |
| LUC Boundaries for All Sites | Team | 15 min | Discussion |
| MRP Update | Brian | 30 min | Information |
| NOSC Sampling Results/Closeout | John S. | 15 min | Information |
| NIRIS Training | Bob Fisher | 60 min | Information |
| LTM Discussion | Brian | 30 min | Discussion |
| Exit Strategy | Libby | 15 min | Information |
| Other Issues | Team | 15 min | Information |
| Meeting Closeout; Action Item Review; Next Agenda; +/- | Team | 30 min | Planning |
| CAMP/Exit Strategy/Milestone Schedule (to be discussed with site update) | | | |

Tentative Meeting Dates/Location

Wednesday and Thursday, November 19-20, 2014 Virtual (9:00 a.m. to noon EST)

| Plus | Delta |
|------------------------------------|---|
| Meeting location | Pat not at meeting in person – miscommunication |
| Items on hold are moving forward | Friday not a desirable travel day |
| Meeting moved at a nice pace | |
| Covered agenda | |
| Met face to face and not virtual | |
| Getting management tools developed | |
| Getting public web site developed | |
| Good synergy on the Team | |

Pat commented on the training exercise that the Team worked together to draw out each other's skills and noted the good synergy of the Team.

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| A-0514-08 | Jeff | | Before the next meeting | Jeff is to determine if the background and non-NOSC associated aspects regarding the metals can be accepted for NFA at the NOSC site. |

| 2012-2013 CONSENSUS ITEMS | |
|---------------------------|--|
| Consensus Item # | Consensus Item |
| C-0412-01 | The Team reached consensus to approve the December 2011 meeting minutes as final. |
| C-0612-01 | The Team reached consensus to approve the April 2012 meeting minutes as final. |
| C-0612-02 | The Team reached consensus to adopt the modified Tier II Roles and Responsibilities as amended by the Team. |
| C-0113-01 | The Team reached consensus to approve the June and September 2012 meeting minutes (with minor changes) as final. |
| C-0413-01 | The Team reached consensus to approve the January 2013 meeting minutes as final. |
| C-0813-01 | The Team reached consensus to approve the April 2013 meeting minutes as final. |
| C-1013-01 | The Team reached consensus to approve the August 2013 meeting minutes as final. |
| C-0214-01 | The Team reached consensus to approve the October 2013 meeting minutes as final. |

| 2012-2013 CONSENSUS ITEMS | |
|----------------------------------|--|
| Consensus Item # | Consensus Item |
| C-0214-02 | The Team reached consensus that at Building 98 four soil samples will be taken; one permanent, small diameter well will be installed in the source area; and one groundwater sample will be taken by Tetra Tech from that well. Downgradient groundwater samples will not be taken at this time. |
| C-0514-01 | The Team reached consensus to approve the February 2014 meeting minutes as final. |

| PARKING LOT ITEMS | |
|--------------------------|--|
| Date | Parking Lot Item |
| 08-2013-01 | Site boundaries need to be established for AOC 2 and discussed with South Dock. |
| 08-2013-02 | LUC boundaries for all sites need to be reviewed to ensure they match with NIRIS. |
| 02-2014-01 | Brian and Mike are to obtain funding for Site 362 (DLA), Building 89 elevator, and Building 5 auto lift. |
| 02-2014-02 | Do we need more face-to-face meetings? |



Legend
 Monitoring Well Location

Notes (Monitoring Wells):
 Reported concentrations exceed Federal Maximum Contaminant Levels (MCLs) and Florida MCLs or Groundwater Cleanup Target Levels
 UG/L=micrograms per liter

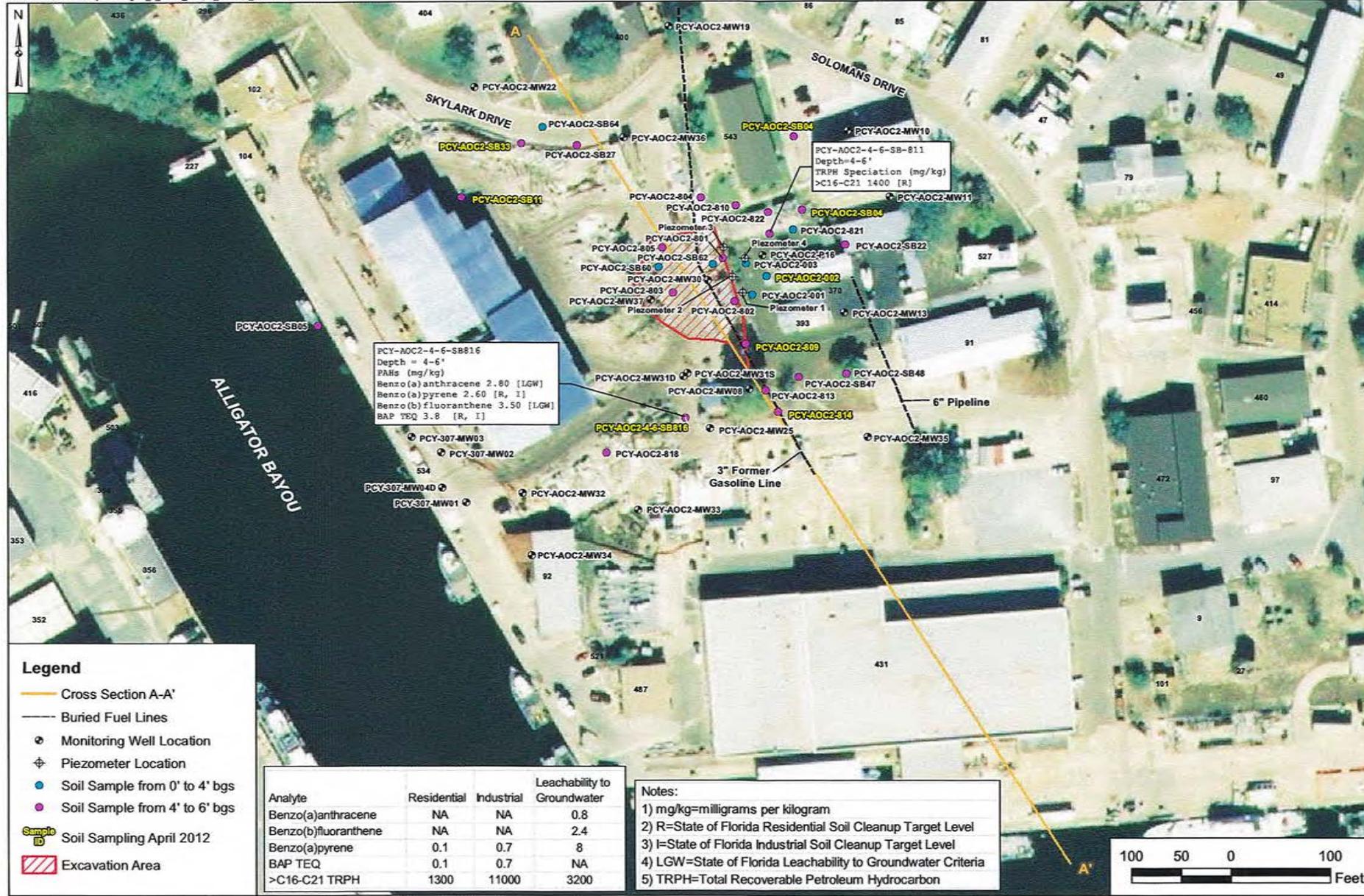


| | |
|-----------------|----------|
| CONTRACT NUMBER | JM73 |
| APPROVED BY | DATE |
| APPROVED BY | DATE |
| FIGURE NO. | FIGURE 0 |
| REV | 0 |

GROUNDWATER TAGS FOR SITE AOC 2
 NSA PANAMA CITY
 PANAMA CITY BEACH, FLORIDA



| | |
|--------------------|----------|
| DRAWN BY | DATE |
| J.MADDEN | 05/07/14 |
| CHECKED BY | DATE |
| G.WALKER | 05/07/14 |
| COST/SCHEDULE-AREA | |
| SCALE | AS NOTED |



PCY-AOC2-4-6-SB816
 Depth = 4-6'
 PAHs (mg/kg)
 Benzo(a)anthracene 2.80 [LGW]
 Benzo(a)pyrene 2.60 [R, I]
 Benzo(b)fluoranthene 3.50 [LGW]
 BAP TEQ 3.8 [R, I]

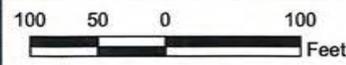
Legend

- Cross Section A-A'
- Buried Fuel Lines
- ⊙ Monitoring Well Location
- ⊕ Piezometer Location
- Soil Sample from 0' to 4' bgs
- Soil Sample from 4' to 6' bgs
- Soil Sampling April 2012
- ▨ Excavation Area

| Analyte | Residential | Industrial | Leachability to Groundwater |
|----------------------|-------------|------------|-----------------------------|
| Benzo(a)anthracene | NA | NA | 0.8 |
| Benzo(b)fluoranthene | NA | NA | 2.4 |
| Benzo(a)pyrene | 0.1 | 0.7 | 8 |
| BAP TEQ | 0.1 | 0.7 | NA |
| >C16-C21 TRPH | 1300 | 11000 | 3200 |

Notes:

- 1) mg/kg=milligrams per kilogram
- 2) R=State of Florida Residential Soil Cleanup Target Level
- 3) I=State of Florida Industrial Soil Cleanup Target Level
- 4) LGW=State of Florida Leachability to Groundwater Criteria
- 5) TRPH=Total Recoverable Petroleum Hydrocarbon

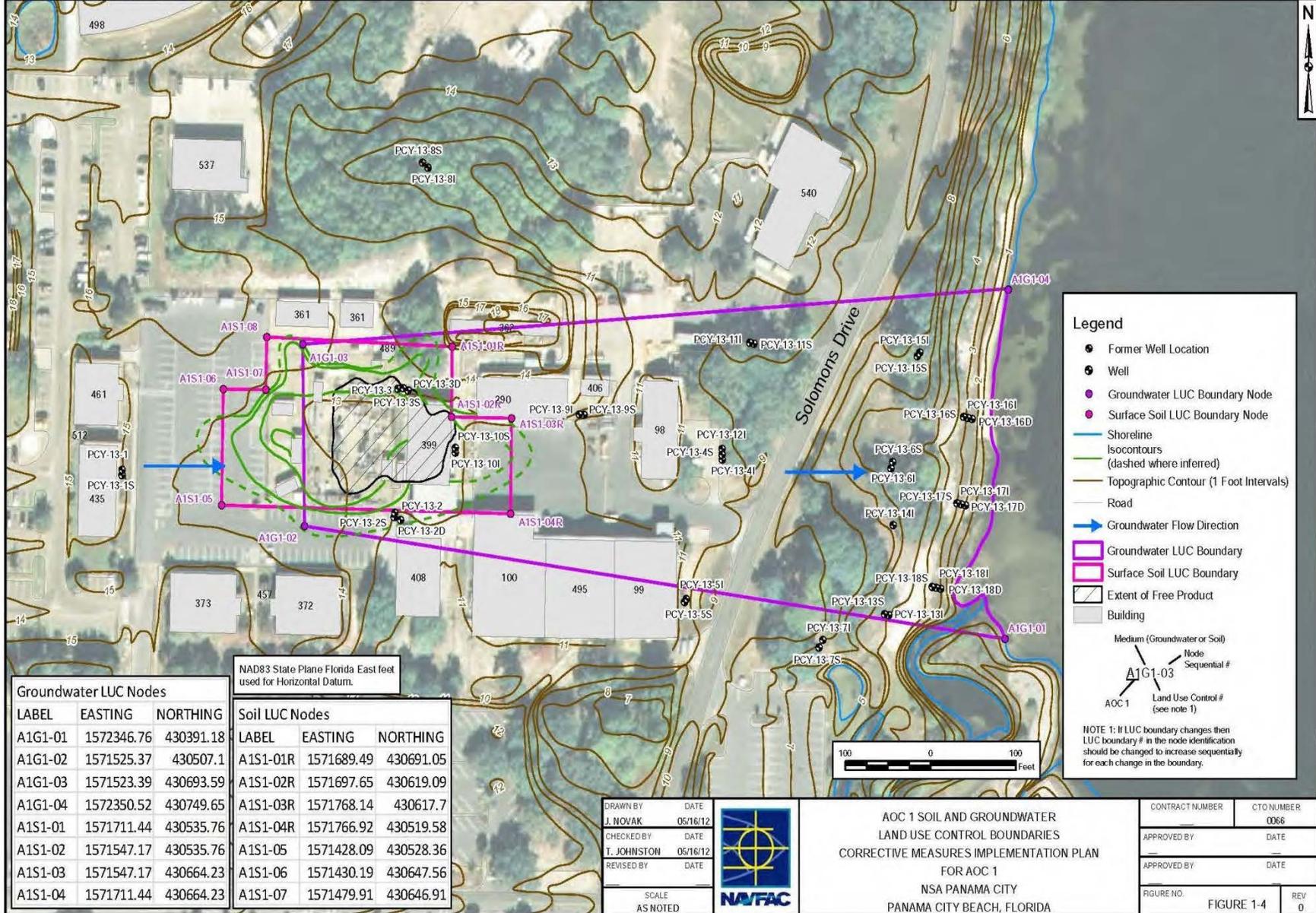


| | |
|------------------------|----------|
| CONTRACT NUMBER | JM73 |
| APPROVED BY | DATE |
| APPROVED BY | DATE |
| FIGURE NO. | FIGURE 4 |
| REV | 0 |

SOIL SAMPLE EXCEEDANCES FOR SITE AOC 2
 NSA PANAMA CITY
 PANAMA CITY BEACH, FLORIDA

| | | | |
|---------------------------|----------|-------------|----------|
| DRAWN BY | J.MADDEN | DATE | 05/08/13 |
| CHECKED BY | L.SMITH | DATE | 06/17/11 |
| COST/SCHEDULE-AREA | | | |
| SCALE | AS NOTED | | |

| Installation | Document # | Date | Title | Sites | Doc Type | File Size | Has PDF |
|-----------------|------------|------------|---|--|----------|-----------|---------|
| ^ANAMA_CITY_NSA | 000567 | 8/10/1996 | TECHNICAL MEMORANDUM LETTER REPORT ON QUICK REMOVAL DESIGN REQUIREMENTS AT SOLID WASTE MANAGEMENT UNIT 2, SOLID WASTE MANAGEMENT UNIT 5, AREA OF CONCERN 2, AND AREA OF CONCERN 4 NSWC PANAMA CITY FL | SWMU 00002, SWMU 00005, SWMU 00014, SWMU 00016 | REPORT | 3218928 | Yes |
| ^ANAMA_CITY_NSA | 000569 | 8/16/1996 | FINAL TECHNICAL MEMORANDUM REPORT ON QUICK REMOVAL DESIGN REQUIREMENTS FOR SOLID WASTE MANAGEMENT UNIT 2, SOLID WASTE MANAGEMENT UNIT 5, AREA OF CONCERN 2, AND AREA OF CONCERN 4 NSWC PANAMA CITY FL | SWMU 00002, SWMU 00005, SWMU 00014, SWMU 00016 | REPORT | 601071 | Yes |
| ^ANAMA_CITY_NSA | 000593 | 5/1/1997 | PROJECT COMPLETION REPORT FOR RESOURCE CONSERVATION AND RECOVERY ACT INTERIM MEASURES REMEDIATION AT SOLID WASTE MANAGEMENT UNIT 2, SOLID WASTE MANAGEMENT UNIT 5, AREA OF CONCERN 2, AND AREA OF CONCERN 4 NSWC PANAMA CITY FL | SWMU 00002, SWMU 00005, SWMU 00014, SWMU 00016 | REPORT | 6501312 | Yes |
| ^ANAMA_CITY_NSA | 000678 | 11/4/1999 | ADDITIONAL GROUNDWATER SAMPLING RESULTS REPORT FOR AREA OF CONCERN 2 AND SOLID WASTE MANAGEMENT UNIT 1 NSWC PANAMA CITY FL | SWMU 00001, SWMU 00014 | REPORT | 6036570 | Yes |
| ^ANAMA_CITY_NSA | 000739 | 9/27/2002 | PRELIMINARY ASSESSMENT LETTER REPORT FOR AREA OF CONCERN 2 AND SOLID WASTE MANAGEMENT UNIT 1 NSWC PANAMA CITY FL | SWMU 00001, SWMU 00014 | REPORT | 7412884 | Yes |
| ^ANAMA_CITY_NSA | 000775 | 12/18/2003 | SITE ASSESSMENT PLAN ADDENDUM FOR AREA OF CONCERN 2 NSWC PANAMA CITY FL | SWMU 00014 | REPORT | 3576236 | Yes |
| ^ANAMA_CITY_NSA | 000787 | 5/17/2004 | SITE ASSESSMENT REPORT FOR AREA OF CONCERN 2 VOLUME 1 SECTION 1.0 THROUGH REFERENCES NSWC PANAMA CITY FL | SWMU 00014 | REPORT | 6413708 | Yes |
| ^ANAMA_CITY_NSA | 000788 | 5/17/2004 | SITE ASSESSMENT REPORT FOR AREA OF CONCERN 2 VOLUME 2 APPENDICES A THROUGH H NSWC PANAMA CITY FL | SWMU 00014 | REPORT | 187803240 | Yes |
| ^ANAMA_CITY_NSA | 000802 | 3/31/2005 | REMEDIATION ACTION PLAN FOR AREA OF CONCERN 2 NSWC PANAMA CITY FL | SWMU 00014 | REPORT | 24484783 | Yes |
| ^ANAMA_CITY_NSA | 000959 | 3/5/2008 | BASELINE MONITORING REPORT FOR AREA OF CONCERN 2 NSWC PANAMA CITY FL | SWMU 00014 | REPORT | 725942 | Yes |
| ^ANAMA_CITY_NSA | 001015 | 2/18/2009 | LETTER REPORT ON RESULTS OF SOIL SAMPLING AND DATA COLLECTION ACTIVITIES AT AREA OF CONCERN 2 UNDERGROUND UTILITY CORRIDOR AREA NSWC PANAMA CITY FL | SWMU 00014 | REPORT | 1853610 | Yes |



| Groundwater LUC Nodes | | |
|-----------------------|------------|-----------|
| LABEL | EASTING | NORTHING |
| A1G1-01 | 1572346.76 | 430391.18 |
| A1G1-02 | 1571525.37 | 430507.1 |
| A1G1-03 | 1571523.39 | 430693.59 |
| A1G1-04 | 1572350.52 | 430749.65 |
| A1S1-01 | 1571711.44 | 430535.76 |
| A1S1-02 | 1571547.17 | 430535.76 |
| A1S1-03 | 1571547.17 | 430664.23 |
| A1S1-04 | 1571711.44 | 430664.23 |

NAD83 State Plane Florida East feet used for Horizontal Datum.

| Soil LUC Nodes | | |
|----------------|------------|-----------|
| LABEL | EASTING | NORTHING |
| A1S1-01R | 1571689.49 | 430691.05 |
| A1S1-02R | 1571697.65 | 430619.09 |
| A1S1-03R | 1571768.14 | 430617.7 |
| A1S1-04R | 1571766.92 | 430519.58 |
| A1S1-05 | 1571428.09 | 430528.36 |
| A1S1-06 | 1571430.19 | 430647.56 |
| A1S1-07 | 1571479.91 | 430646.91 |

DRAWN BY: J. NOVAK
 DATE: 05/16/12
 CHECKED BY: T. JOHNSTON
 DATE: 05/16/12
 REVISED BY: _____
 DATE: _____
 SCALE: AS NOTED



AOC 1 SOIL AND GROUNDWATER
 LAND USE CONTROL BOUNDARIES
 CORRECTIVE MEASURES IMPLEMENTATION PLAN
 FOR AOC 1
 NSA PANAMA CITY
 PANAMA CITY BEACH, FLORIDA

| | |
|-----------------------|-------------|
| CONTRACT NUMBER | CTO NUMBER |
| APPROVED BY: _____ | DATE: _____ |
| APPROVED BY: _____ | DATE: _____ |
| FIGURE NO. FIGURE 1-4 | REV 0 |

Legend

- Former Well Location
- Well
- Groundwater LUC Boundary Node
- Surface Soil LUC Boundary Node
- Shoreline
- Isocontours (dashed where inferred)
- Topographic Contour (1 Foot Intervals)
- Road
- Groundwater Flow Direction
- Groundwater LUC Boundary
- Surface Soil LUC Boundary
- ▨ Extent of Free Product
- ▭ Building

Medium (Groundwater or Soil)
 Node Sequential #
 A1G1-03
 AOC 1 Land Use Control # (see note 1)

NOTE 1: If LUC boundary changes then LUC boundary # in the node identification should be changed to increase sequentially for each change in the boundary.

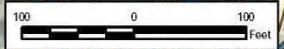


FIGURE 2: SWMU 2 LAND USE CONTROL BOUNDARIES FOR SOIL AND GROUNDWATER CORRECTIVE MEASURES IMPLEMENTATION PLAN

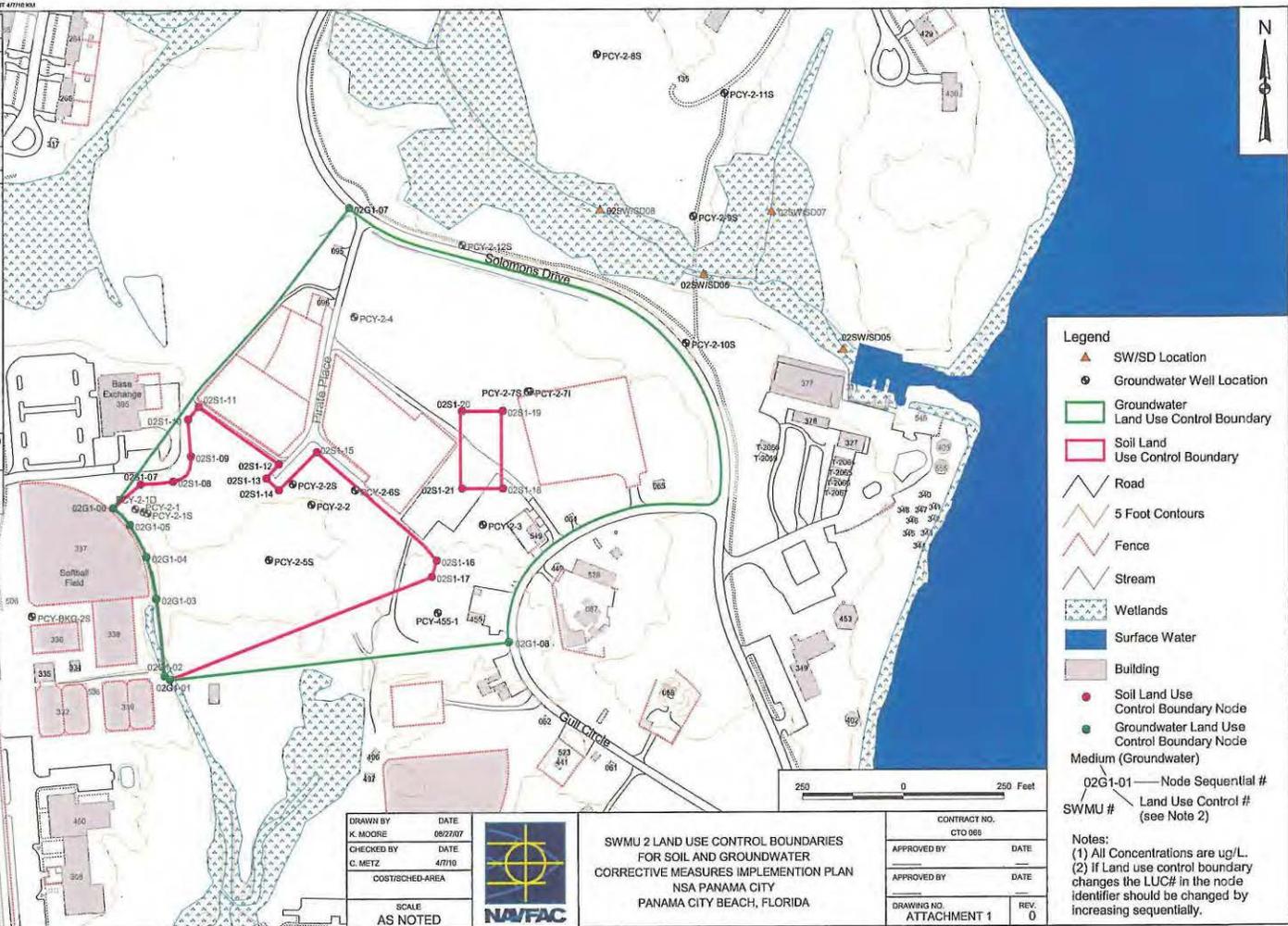
NSA PANAMA CITY BEACH, FLORIDA

| GROUNDWATER | | |
|-----------------------------------|-----------------------|----------------------|
| LAND USE CONTROL NODE COORDINATES | | |
| LOCATION | NORTHING ^A | EASTING ^A |
| 02G1-01 | 431511.17 | 1570713.86 |
| 02G1-02 | 431519.97 | 1570700.66 |
| 02G1-03 | 431709.68 | 1570980.85 |
| 02G1-04 | 431812.52 | 1570957.41 |
| 02G1-05 | 431892.09 | 1570916.00 |
| 02G1-06 | 431933.51 | 1570975.28 |
| 02G1-07 | 432064.49 | 1571162.07 |
| 02G1-08 | 431600.48 | 1571555.83 |

| SOIL | | |
|-----------------------------------|-----------------------|----------------------|
| LAND USE CONTROL NODE COORDINATES | | |
| LOCATION | NORTHING ^A | EASTING ^A |
| 02S1-01 | 431511.17 | 1570713.86 |
| 02S1-02 | 431519.97 | 1570700.66 |
| 02S1-03 | 431709.68 | 1570980.85 |
| 02S1-04 | 431812.52 | 1570957.41 |
| 02S1-05 | 431892.09 | 1570916.00 |
| 02S1-06 | 431933.51 | 1570975.28 |
| 02S1-07 | 431990.63 | 1570843.57 |
| 02S1-08 | 431997.23 | 1570722.76 |
| 02S1-09 | 432058.83 | 1570766.73 |
| 02S1-10 | 432149.01 | 1570760.15 |
| 02S1-11 | 432170.81 | 1570768.55 |
| 02S1-12 | 432039.03 | 1570984.53 |
| 02S1-13 | 432003.83 | 1570963.73 |
| 02S1-14 | 431975.24 | 1570984.53 |
| 02S1-15 | 432067.62 | 1571070.11 |
| 02S1-16 | 431801.93 | 1571377.17 |
| 02S1-17 | 431761.86 | 1571368.08 |
| 02S1-18 | 431977.44 | 1571538.85 |
| 02S1-19 | 432166.61 | 1571538.85 |
| 02S1-20 | 432166.61 | 1571437.67 |
| 02S1-21 | 431977.44 | 1571437.67 |

^ADATUM = North American Datum 1983 (NAD83)
Slate Plane Coordinate System (SPCS)
Florida North, U.S. Survey feet

Soil LUC area = 6.72 acres
Groundwater LUC area = 24.67 acres



| | |
|-----------------------|------------------|
| DRAWN BY K. MOORE | DATE 08/27/07 |
| CHECKED BY C. METZ | DATE 4/7/10 |
| COST/SCHED-AREA | |
| SCALE AS NOTED | |



**SWMU 2 LAND USE CONTROL BOUNDARIES
FOR SOIL AND GROUNDWATER
CORRECTIVE MEASURES IMPLEMENTATION PLAN**
NSA PANAMA CITY
PANAMA CITY BEACH, FLORIDA

| | |
|-----------------------------|-----------|
| CONTRACT NO. CTO 088 | |
| APPROVED BY | DATE |
| APPROVED BY | DATE |
| DRAWING NO. ATTACHMENT 1 | REV. 0 |

Notes:
(1) All Concentrations are ug/L.
(2) If Land use control boundary changes the LUC# in the node identifier should be changed by increasing sequentially.

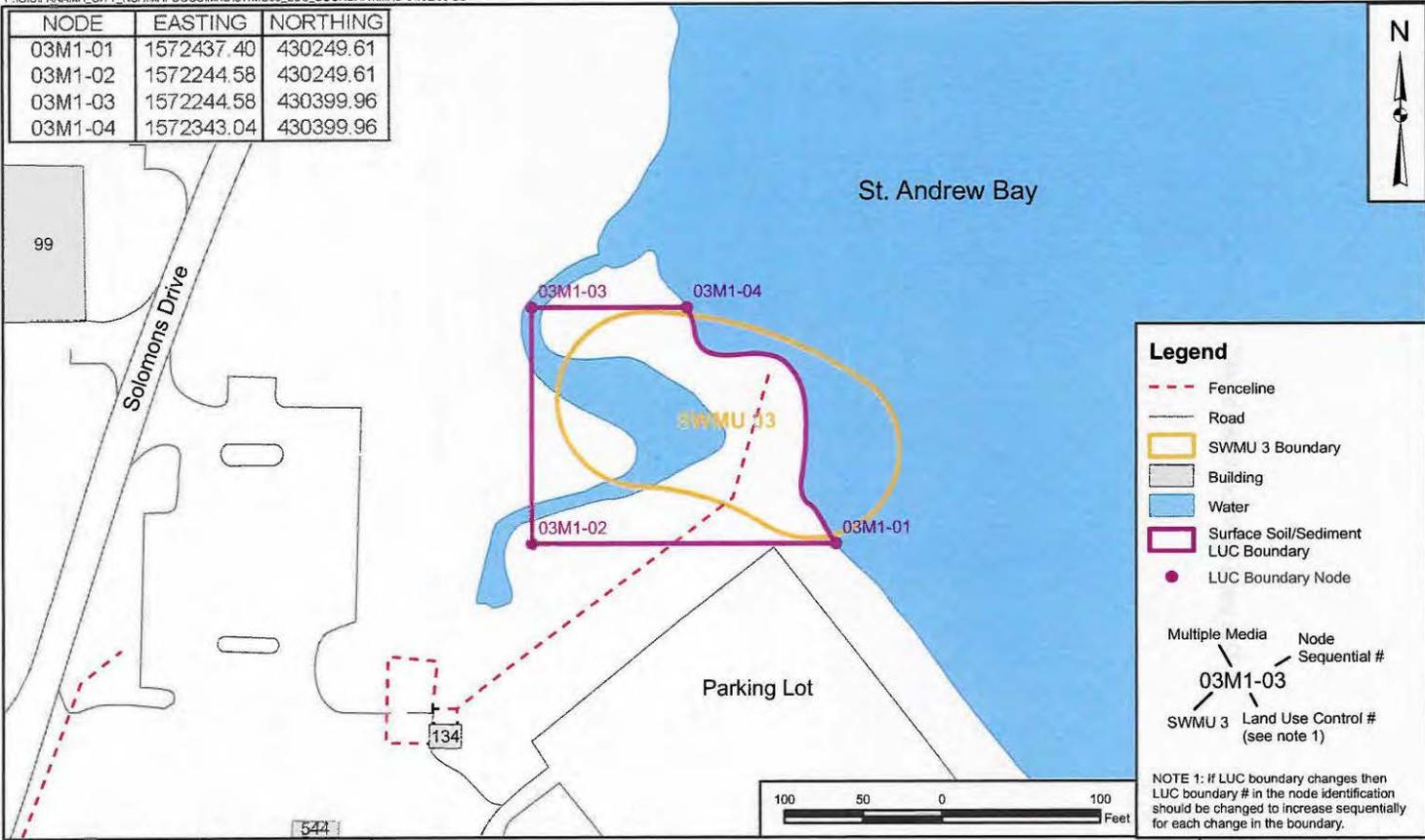
07JAX0116

2-3

CTO 0038

P:\GIS\PANAMA_CITY_NSA\MAPDOCS\MXD\SWMU03_LUC_BOUNDARY.MXD 01/02/08 SS

| NODE | EASTING | NORTHING |
|---------|------------|-----------|
| 03M1-01 | 1572437.40 | 430249.61 |
| 03M1-02 | 1572244.58 | 430249.61 |
| 03M1-03 | 1572244.58 | 430399.96 |
| 03M1-04 | 1572343.04 | 430399.96 |



Legend

- - - Fenceline
- Road
- SWMU 3 Boundary
- Building
- Water
- Surface Soil/Sediment LUC Boundary
- LUC Boundary Node

Multiple Media Node Sequential #
 03M1-03
 SWMU 3 Land Use Control # (see note 1)

NOTE 1: If LUC boundary changes then LUC boundary # in the node identification should be changed to increase sequentially for each change in the boundary.

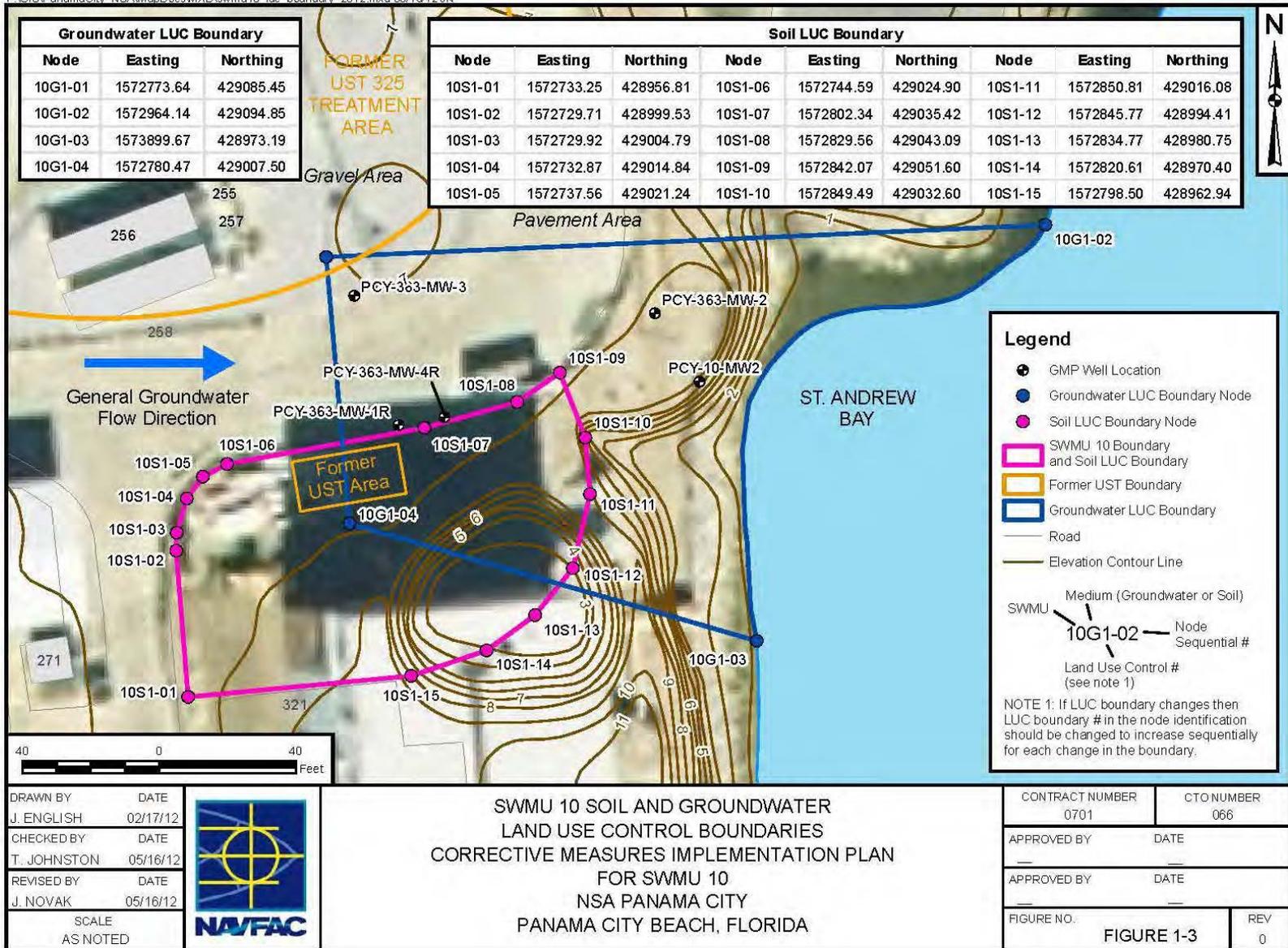
| | |
|--------------------|----------|
| DRAWN BY | DATE |
| K. MOORE | 10/02/07 |
| CHECKED BY | DATE |
| T. JOHNSTON | 01/02/08 |
| COST/SCHEDULE-AREA | |
| SCALE AS NOTED | |



SWMU 3 SURFACE SOIL AND SEDIMENT
 LAND USE CONTROL BOUNDARY
 CORRECTIVE MEASURES IMPLEMENTATION PLAN
 NSA PANAMA CITY
 PANAMA CITY BEACH, FLORIDA

| | |
|-----------------|------|
| CONTRACT NUMBER | |
| 0701 | |
| OWNER NUMBER | |
| 0038 | |
| APPROVED BY | DATE |
| DRAWING NO. | REV |
| FIGURE 2-1 | 0 |

Rev. 1
01/10/08



| Groundwater LUC Boundary | | |
|--------------------------|------------|-----------|
| Node | Easting | Northing |
| 10G1-01 | 1572773.64 | 429085.45 |
| 10G1-02 | 1572964.14 | 429094.85 |
| 10G1-03 | 1573899.67 | 428973.19 |
| 10G1-04 | 1572780.47 | 429007.50 |

| Soil LUC Boundary | | | | | | | | |
|-------------------|------------|-----------|---------|------------|-----------|---------|------------|-----------|
| Node | Easting | Northing | Node | Easting | Northing | Node | Easting | Northing |
| 10S1-01 | 1572733.25 | 428956.81 | 10S1-06 | 1572744.59 | 429024.90 | 10S1-11 | 1572850.81 | 429016.08 |
| 10S1-02 | 1572729.71 | 428999.53 | 10S1-07 | 1572802.34 | 429035.42 | 10S1-12 | 1572845.77 | 428994.41 |
| 10S1-03 | 1572729.92 | 429004.79 | 10S1-08 | 1572829.56 | 429043.09 | 10S1-13 | 1572834.77 | 428980.75 |
| 10S1-04 | 1572732.87 | 429014.84 | 10S1-09 | 1572842.07 | 429051.60 | 10S1-14 | 1572820.61 | 428970.40 |
| 10S1-05 | 1572737.56 | 429021.24 | 10S1-10 | 1572849.49 | 429032.60 | 10S1-15 | 1572798.50 | 428962.94 |

Legend

- GMP Well Location
- Groundwater LUC Boundary Node
- Soil LUC Boundary Node
- SWMU 10 Boundary and Soil LUC Boundary
- Former UST Boundary
- Groundwater LUC Boundary
- Road
- Elevation Contour Line

Medium (Groundwater or Soil)

SWMU 10G1-02 — Node Sequential #

Land Use Control # (see note 1)

NOTE 1: If LUC boundary changes then LUC boundary # in the node identification should be changed to increase sequentially for each change in the boundary.

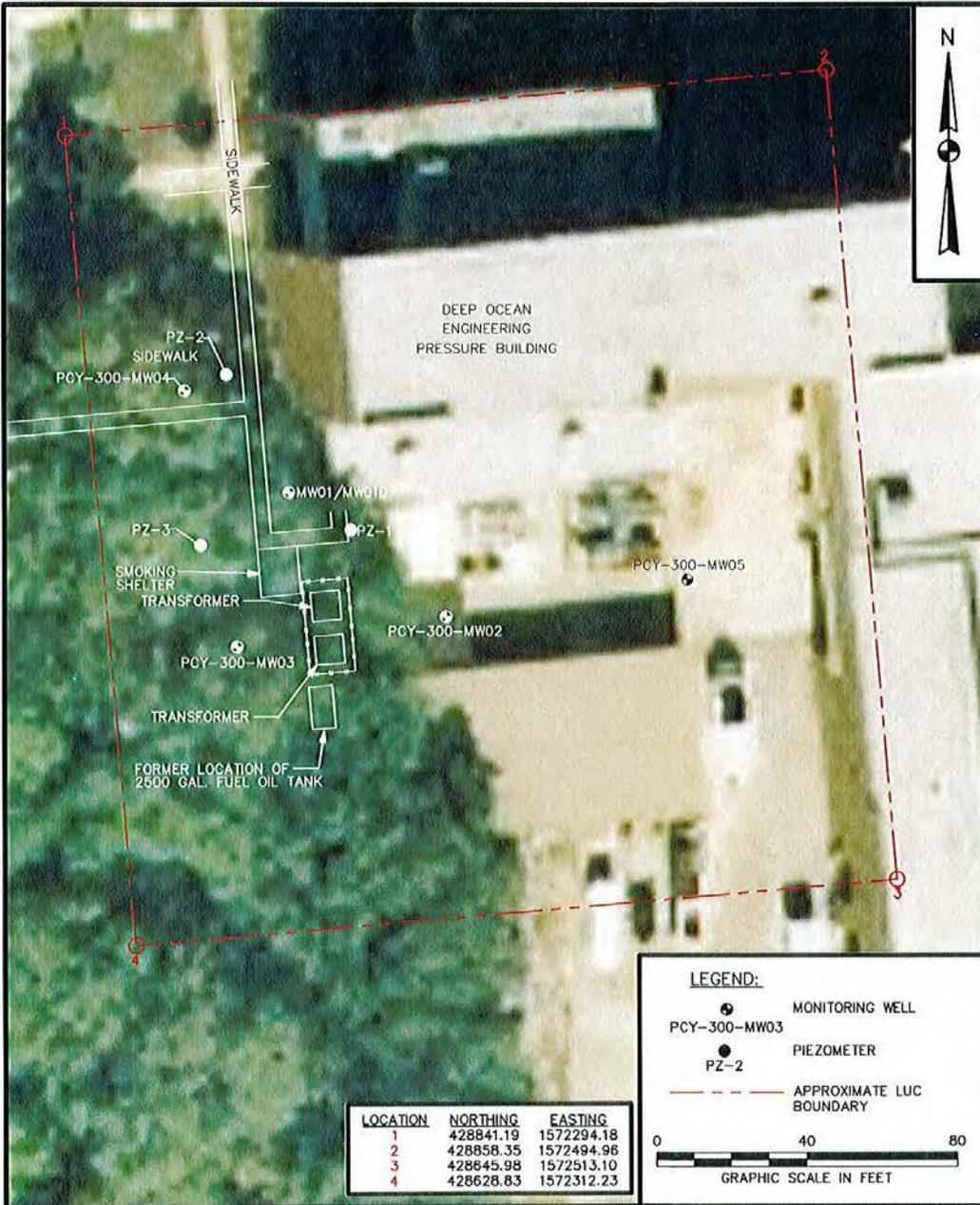
| | |
|----------------|----------|
| DRAWN BY | DATE |
| J. ENGLISH | 02/17/12 |
| CHECKED BY | DATE |
| T. JOHNSTON | 05/16/12 |
| REVISED BY | DATE |
| J. NOVAK | 05/16/12 |
| SCALE AS NOTED | |



**SWMU 10 SOIL AND GROUNDWATER
 LAND USE CONTROL BOUNDARIES
 CORRECTIVE MEASURES IMPLEMENTATION PLAN
 FOR SWMU 10
 NSA PANAMA CITY
 PANAMA CITY BEACH, FLORIDA**

| | |
|---------------------------------|-------------------|
| CONTRACT NUMBER 0701 | CTO NUMBER 066 |
| APPROVED BY | DATE |
| APPROVED BY | DATE |
| FIGURE NO. FIGURE 1-3 | REV 0 |

ACAD: 0853CM26.dwg 04/14/11 CK PIT



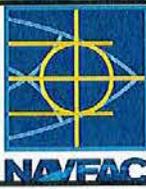
| LOCATION | NORTHING | EASTING |
|----------|-----------|------------|
| 1 | 428841.19 | 1572294.18 |
| 2 | 428858.35 | 1572494.96 |
| 3 | 428645.98 | 1572513.10 |
| 4 | 428628.83 | 1572312.23 |

LEGEND:

- MONITORING WELL
- PCY-300-MW03
- PIEZOMETER
- PZ-2
- APPROXIMATE LUC BOUNDARY

0 40 80
GRAPHIC SCALE IN FEET

| | |
|-------------------|------------------|
| DRAWN BY CK | DATE 03/01/10 |
| CHECKED BY | DATE |
| REVISED BY | DATE |
| SCALE AS NOTED | |



LUC BOUNDARY
BUILDING G300
ANNUAL MONITORING REPORT
NSA PANAMA CITY
PANAMA CITY, FLORIDA

| | |
|-------------------------|-----------|
| CONTRACT NO. 0161 | |
| OWNER NO. | |
| APPROVED BY | DATE |
| DRAWING NO. FIGURE 4 | REV. 0 |



| | |
|------------|----------|
| DRAWN BY | DATE |
| J.MADDEN | 09/06/13 |
| CHECKED BY | DATE |
| A.LIGOE | 09/06/13 |
| REVISED BY | DATE |
| | |



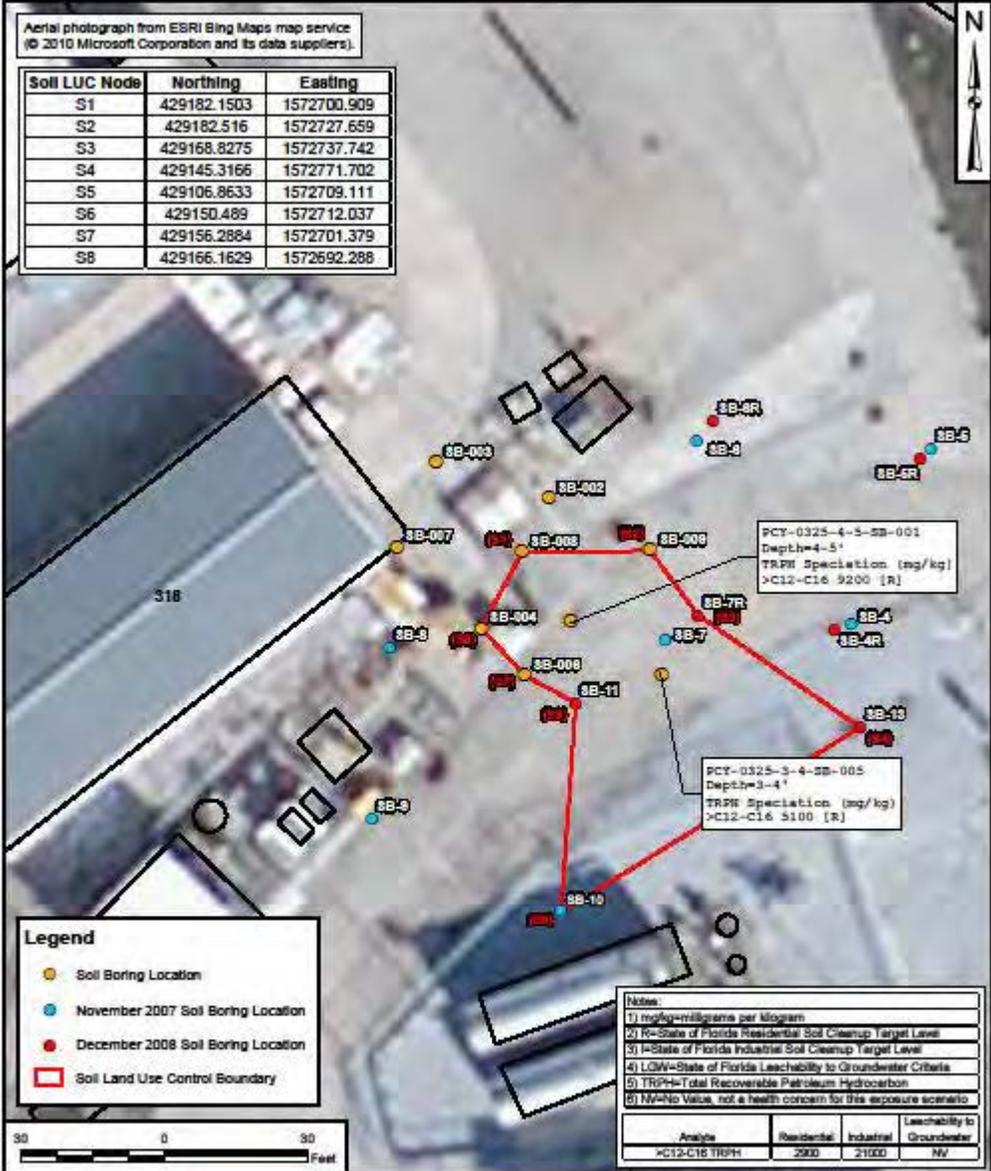
GROUNDWATER LAND USE CONTROL BOUNDARY
SITE 325
NSA PANAMA CITY
PANAMA CITY BEACH, FLORIDA

| | |
|-----------------|------------|
| CONTRACT NUMBER | CTO NUMBER |
| APPROVED BY | DATE |
| APPROVED BY | DATE |
| FIGURE NO. | REV |
| 1-3 | 0 |

SCALE
AS NOTED

Aerial photograph from ESRI Bing Maps map service
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| Soil LUC Node | Northing | Easting |
|---------------|-------------|-------------|
| S1 | 429182.1503 | 1572700.909 |
| S2 | 429182.516 | 1572727.659 |
| S3 | 429168.8275 | 1572737.742 |
| S4 | 429145.3165 | 1572771.702 |
| S5 | 429106.8633 | 1572709.111 |
| S6 | 429150.489 | 1572712.037 |
| S7 | 429156.2884 | 1572701.379 |
| S8 | 429166.1629 | 1572692.288 |



Legend

- Soil Boring Location
- November 2007 Soil Boring Location
- December 2008 Soil Boring Location
- Soil Land Use Control Boundary

Notes:

- 1) mg/kg=milligrams per kilogram
- 2) R=State of Florida Residential Soil Cleanup Target Level
- 3) I=State of Florida Industrial Soil Cleanup Target Level
- 4) LGW=State of Florida Leachability to Groundwater Criteria
- 5) TRPH=Total Recoverable Petroleum Hydrocarbon
- 6) N/A=No Value, not a health concern for this exposure scenario

| Analyte | Residential | Industrial | Leachability to Groundwater |
|---------------|-------------|------------|-----------------------------|
| >C12-C16 TRPH | 2000 | 21000 | N/A |



| | |
|------------|----------|
| DRAWN BY | DATE |
| J.MADDEN | 09/06/13 |
| CHECKED BY | DATE |
| A.LIGOE | 09/06/13 |
| REVISED BY | DATE |
| | |
| SCALE | |
| AS NOTED | |



SOIL LAND USE CONTROL BOUNDARY
SITE 325
NSA PANAMA CITY
PANAMA CITY BEACH, FLORIDA

| | |
|-----------------|------------|
| CONTRACT NUMBER | CTO NUMBER |
| APPROVED BY | DATE |
| APPROVED BY | DATE |
| FIGURE NO. | REV |
| 1-2 | 0 |

Aerial photograph from ESRI Bing Maps map service
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Legend
 ● Temporary Monitoring Well Location
 - - - LUC Boundary Extent

| | |
|-------------|----------|
| DRAWN BY | DATE |
| S. PAXTON | 01/07/13 |
| CHECKED BY | DATE |
| L. SMITH | 01/07/13 |
| REVISION BY | DATE |
| J. MACOEN | 05/12/13 |
| SCALE | AS NOTED |



LAND USE CONTROL BOUNDARY
 SOUTH DOCK
 NSA PANAMA CITY
 PANAMA CITY BEACH, FLORIDA

| | |
|-----------------|------------|
| CONTRACT NUMBER | CTO NUMBER |
| | JM73 |
| APPROVED BY | DATE |
| | |
| APPROVED BY | DATE |
| | |
| FIGURE NO. | REV |
| 3 | 0 |