

DPJ  
1940

Draft  
December 3-5, 2001  
PARTNERING MEETING NUMBER 42  
NASO YORKTOWN/CHEATHAM ANNEX

LOCATION: CHEATHAM ANNEX, VA

MEETING MANAGER: Ms. J. Davis  
RECORDER: Ms. M. Mullen  
TIMEKEEPER: Ms. M. Mullen  
MEETING HOST: Mr. Jeff Harlow  
FACILITATOR: Ms. Jeff Harlow

SCHEDULED CONFERENCE CALLS  
1300 Hours, January 29, 2002 (Agenda Building)

Introduction

The 42st formal WPNSTA partnering meeting was held on December 3-5, 2001 at Cheatham Annex in Yorktown, Virginia. The focus of the partnering meeting continues to be WPNSTA/CAX work priorities, Site 6 Sample Collection, update of NWS Yorktown SSA sites (site visit to identify sites for No Further Action), Cheatham Annex Site History Overview, review team goals for 2001 and 2002, future groundwater conference opportunities, team partnering deliverable (roles) skills and team facilitation.

**December 3-5, 2001 Meeting Attendance**

NAME	ORGANIZATION
December 3, 4 Meeting Attendance	
Bob Stroud	USEPA Region III
Steve Mihalko	VDEQ
Jennifer Davis	LANTDIV
Scott Park	LANTDIV
Don Joiner	Baker Environmental
Mary Mullen	Baker Environmental
Dave Martin	Baker Environmental
Jeff Harlow	WPNSTA Yorktown
Mr. Peter Knight	USEPA Region III
December 4, 2001 Meeting Attendance (in addition to above attendees)	
Jay Newbaker	LANTDIV
John McCloskey	U. S. Fish & Wildlife Service
Dave Martin	Baker Environmental

**Draft**  
**December 3-5, 2001**  
**PARTNERING MEETING NUMBER 42**  
**NASO YORKTOWN/CHEATHAM ANNEX**

**Metrics**

Metrics remained the same during this meeting. Metrics for FY 2001/2002 IR - work at WPNSTA and the remediation of CAX Sites were discussed.

**Meeting Accomplishments**

**December 3, 2001 Discussion:**

**Reviewed October Meeting Minutes (12:30):** The team reviewed the October 2001 meeting minutes, including Action/Concensus Items List. The following items were noted from the minutes:

- Reviewed October Action Items: Jeff suggested that the team consider Site 6 as a starter site for the GIS.
- Team agreed to update goals on website. Baker to coordinate with J. Sachdev/CH2M Hill webmaster on this.
- Agenda for next meeting.
- Reviewed Parking Lot Items: Define Metrics in Partnering Deliverable. **Consensus:** Keep as stated in deliverable. Partnering Training needed for Scott, Don and Mary

**Groundwater Conference Opportunities (13:20)**

The team reviewed a list of groundwater conferences and short courses. The team selected a short list of conferences/short courses to further evaluate for the February meeting. Mary Mullen will present further details (i.e.: agenda, location, cost, course structure, technical difficulty, dates/times) during the next meeting about the following selected conferences/courses:

Ground-Water Discharge to Estuaries (NGWA cosponsored event)  
Web: [www.geosociety.org/meetings/2001](http://www.geosociety.org/meetings/2001) and [www.udel.edu/dgs/tmck/sgd](http://www.udel.edu/dgs/tmck/sgd)  
Boston, MA

Dec.3-7, 2001  
The Remediation Course  
Orlando, FL

January 7-11, 2002  
Natural Attenuation, Risk Assessment & Risk-based Corrective Action  
Orlando, FL

February 26-28, 2002  
Natural Attenuation for Remediation of Contaminated Sites  
Orlando, FL

**Draft**  
**December 3-5, 2001**  
**PARTNERING MEETING NUMBER 42**  
**NASO YORKTOWN/CHEATHAM ANNEX**

March 18-20, 2002  
Principles of Ground Water – Flow, Transport, and Remediation  
Columbus, OH

March 19-20, 2002  
Practical Applications of Natural Attenuation  
Columbus, OH

March 26-28, 2002  
Computer Modeling of Natural Attenuation and Bioremediation Systems  
Orlando, FL

April 9-10, 2002  
Remediation Technologies  
Chicago, IL

May 20-23, 2002  
Third International Conference on Remediation of Chlorinated and Recalcitrant  
Compounds (800) 783-6338; [conferencegroup@compuserve.com](mailto:conferencegroup@compuserve.com)  
Monterey, California

September 2002 ??  
Southeast Focus Conference  
(2001 conference was in Atlanta, Ga on Sept. 24-25)

**FFA Language (14:15)**

Scott Park led a discussion of the FFA Language and presented a draft amendment from the LANTDIV attorney, as follows:

“Memorandum of Amendment to FFA

Pursuant to Section 38 of the Naval Weapons Station Yorktown Federal Facilities Agreement, the Program Managers for the Navy, the EPA Region III, and the State of Virginia, hereinafter referred to as the parties, agree to make the following clarifications and changes.

Whereas the area on the York Peninsula of Virginia known as Cheatham Annex is now under the administrative control of the Naval Weapons Station Yorktown and

Whereas the Naval Weapons Station Yorktown is conducting its Installation Restoration program pursuant to the above-referenced Federal Facilities Agreement, and

Whereas Cheatham Annex was recently added to the NPL, and

**Draft**  
**December 3-5, 2001**  
**PARTNERING MEETING NUMBER 42**  
**NASO YORKTOWN/CHEATHAM ANNEX**

Whereas Cheatham Annex is in close geographical proximity to the Naval Weapons Station Yorktown,

Now therefore, the parties agree that for purposes of the definition of "Facility" found in Section II of the Federal Facilities Agreement shall include the area known as Cheatham Annex, and the parties further agree that Installation Restoration sites at Cheatham Annex shall be added as sites under that agreement."

Concerns/issues to be considered: 1) What is the definition of the facility boundary?

S. Mihalko: DEQ does not sign FFAs.

Bob Stroud, Steve Mihalko, Jeff Harlow, and Scott Park to review and discuss at February 2002 meeting.

**LUCIP Comments (14:30)**

Don Joiner led a discussion of LUCIPs and recorded the team's comments. The team will review sites and LUCIP language during site visits on 12-4-01. The following sections summarizes the team's comments:

**Discussion of Appendix B.1, Land Use Control and Implementation Plan for Sites 6 and 7**

Par. 1.0 Define LUCIP for first reference

Par. 1.1 Define the size of the LUCIP area, delete "with the", be consistent in capitalization of "impoundment", **CONSENSUS:** state the site size and then the size of the restricted area, annotate Global Position Coordinates (GPS) of restricted area on figures

Par. 1.2 Same comment referring to size of restricted area, state status of soil, state location(s) where soil exceeded residential action level

Par. 2.0 Since cover soil was placed on the excavated area, is a LUCIP still required to meet ecological risk concerns (for cadmium and zinc)? (Check with Peter Knight and Frank \_\_\_\_\_?) Last sentence...change "on" to "in."

Par. 3.0 define ROD for first reference, define "area" or specify "as shown in attached figure 1.0" (check on ROD language before making this change)

Par 4.0 3rd sentence...instead of "vicinity" use a more specific reference, 4<sup>th</sup> sentence...capitalize "plan"

Par. 5.0 Delete "Record of Decision" (defined on previous page)

LUC Compliance Form: (annual inspection)

Figure: add figure number to figure title, annotate and add leader arrow to site locations, add restricted areas to legend

Dec 3-5 Meeting Minutes

Page 4 of 13

**Draft**  
**December 3-5, 2001**  
**PARTNERING MEETING NUMBER 42**  
**NASO YORKTOWN/CHEATHAM ANNEX**

**Discussion of Appendix B.2, Land Use Control and Implementation Plan for Sites 1 and 3**

Par. 1.0 Define LUCIP for first reference

Par. 1.1 Second sentence delete from “and” to end of sentence, Last sentence after “2000” delete remainder of sentence and replace with a description of the components of the cover (i.e.: 18” of native soil and 6” of topsoil).

Par. 1.2 Delete whole paragraph

Par. 2.0 First sentence replace “sites” with “site”, last sentence replace “on” with “in”

Par. 3.0 define ROD for first reference, add reference to figure

Par 4.0 First sentence, delete comma after Site 1, Last sentence delete “the” before Site 1

Par. 5.0 Replace “Sites 1 and 3” with “Site 1”

Figure: Delete “Landfill...Cap, Debris Removal Area, Excavated...Area, and Site 3”, add restriction areas to legend, refer to as “Dudley Road Landfill Land....Area”, Add figure number to title

**Discussion of Appendix B.3, Land Use Control and Implementation Plan for Sites 9 and 19**

Par. 1.0 Define LUCIP for first occurrence

Par. 2.0 Last sentence...replace “on” with “in”

Par. 3.0 define ROD for first reference, add reference to figure

Par. 4.0 2<sup>nd</sup> sentence...capitalize “plan”, delete comma after “Site 19”

Figure add figure number to title, annotate site location, add restricted areas to legend, correct the spelling of “intermittant” (should be intermittent), add restriction area type to legend

Discuss ecological issues with Peter Knight during site visit.

**Discussion of B.4, Land Use Control and Implementation Plan for Site 12**

Par. 1.0 Define LUCIP for first occurrence

Par. 2.0 Tri-Loc is not part of Land Use Restriction Area, Delete the last sentence

Par. 3.0 1<sup>st</sup> paragraph, define ROD for first reference, 1<sup>st</sup> sentence...replace “identified” with “identify”, 2<sup>nd</sup> sentence...Replace “Sites” with “Site”, after 2<sup>nd</sup> sentence insert a description of the cap components (see previous report), last sentence...replace “on” with “in” and insert “landfill” before “cap”,

Dec 3-5 Meeting Minutes

Page 5 of 13

**Draft**  
**December 3-5, 2001**  
**PARTNERING MEETING NUMBER 42**  
**NASO YORKTOWN/CHEATHAM ANNEX**

Par. 3.0 2<sup>nd</sup> paragraph, add a reference to a second figure that illustrates the location of the long term monitoring (LTM) groundwater wells

Par. 3.0 4<sup>th</sup> paragraph, define LUC for first reference

Compliance Form add inspection of LTM Program wells as “well integrity”

Figure Tri-Loc is not part of Land Use Restriction Area, Why is landfill shown as yellow and red? Indicate actual boundary of landfill cap, correct the spelling of “intermittant” (should be intermittent), add figure number to figure title, add restriction area type to legend

**Site 18 Timeline (16:45)**

Don Joiner led a discussion of the Site 18 timeline. Comments are needed from team. EPA comments are in EPA legal review. Team needs to start working on PRAPs for upcoming sites.

**Open Discussion (16:55)**

The team discussed possible locations for the February 2002 meeting as the planned location is no longer a viable option. After discussing the advantages and disadvantages of approximately 15 locations, the North Carolina Outer Banks (Kill Devil Hills Ramada Inn) was selected as a location to be further evaluated. Jeff Harlow and Jennifer Davis will investigate possible hotels and other pertinent details. Other possible locations include: Williamsburg, Virginia and the original location of Somerset, Virginia.

**December 4, 2001 Discussion (08:30)**

**SSA 3, 4, 5...21 report provided to team by Baker (09:00 hours)**

**Pre-Site Visit Goals (09:10 hours)**

Baker (Dave Martin) provided a summary of site information for the sites to be reviewed during the site visits.

The team discussed the goals of the site visit and the priority/order for conducting the site visits.

CAX (priority for site review shown by numerical order):

1. Sites 2, 3, 4, 5, 6, 8, 9, 10, 12
2. AOCs 1, 2, 3
3. Site 11
4. Penniman AOCs

**Draft**  
**December 3-5, 2001**  
**PARTNERING MEETING NUMBER 42**  
**NASO YORKTOWN/CHEATHAM ANNEX**

Yorktown (priority for site review shown by numerical order):

1. Sites 3, 4, 5, 21, Reconnaissance of Sites 22, 23 (Goal: resolve comments)
2. Review site with LUCIPs: 1, 6, 7, 9, 12, 19
  - Site 6 – documentation of disposal of food only
  - Site 9 – ecological risks
  - Site 19 – AI disposal
3. Site 22 Simplot Biocell

**CAX Site Visits(10:12 –12:15, 13:00 - 1530):**

**Site 8 - Landfill Near Building CAD 14**

**CONSENSUS:** On page 4-16 of handout, last paragraph, delete first sentence “The VDEQ....site.”

**CONSENSUS to NFA:** The team agreed that no further action is warranted at this site given that only non-hazardous materials such as spoiled meat, spoiled candy, and clothing were disposed at the site and all anecdotal records indicate that the clothing was not impregnated with any chemicals.

**Site 3 – Submarine Dye Disposal Area**

The team looked at the “self-cleaning” drain that directs runoff from the site to Lee Pond and noted that no sediment was in the bottom of the drain.

Before making a NFA decision for the site, the team agreed to review a MSDS on fluorescein dye to show that it is non-hazardous. Added as an action item for Jeff Harlow.

**Site 9 – Transformer Storage Area**

The team agreed to confirm PCB soil sampling results before site closeout. Based on this confirmation, the team is to decide if further review is required? Added as an action item for Dave Martin.

**Site 4 – Medical Supplies Disposal Area**

The team discussed a possible approach to the site that would consist of: limited surface removal to original grade in the area of the IV sets and wetland restoration adjacent to existing wetland along ravine bottom. Focus efforts on Youth Pond PCB issues.

**CONSENSUS:** AOC-3 is part of AOC-4, AOC-4 is now Site 4- Medical Supplies Disposal Area

**Site 2 – Contaminated Food Disposal Area**

**Draft**  
**December 3-5, 2001**  
**PARTNERING MEETING NUMBER 42**  
**NASO YORKTOWN/CHEATHAM ANNEX**

**CONSENSUS to NFA:** The team agreed that no further action is warranted at this site given that only spoiled food was disposed of at the site.

**Site 6 – Spoiled Food Disposal Area**

**CONSENSUS to NFA:** The team agreed that no further action is warranted at this site given that only spoiled food was disposed of at the site.

**AOC 2 – Dextrose Dump**

The team discussed the approach to the site: limited surface removal of surface debris/soil, confirmation sampling in drum areas, consider attaching documentation of recent trenching operation to site close-out report.

**Site 10 – Decontamination Agent Disposal Area Near First Street**

The team requested the following information: MSDS to identify the components and fate of DS2 (added to action item list), confirm volume disposed, and review of site data during February meeting.

**Site 11 – Bone Yard**

The team discussed the options of including Penniman Lake with Site 11 but agreed to keep the sites separate since each is already considered individually in the funding program.

**CONSENSUS:** The team agreed to investigate Penniman Lake and Site 11 separately. Penniman Lake is already in the budget cycle as a separate site.

The team agreed to conduct a desk top study for the 3 Penniman AOCs.

The team discussed potential approaches to study of Penniman Lake: identification of possible other sources (ie: Power Plant), possibly sampling along tributaries to Penniman Lake, what other analyses have been done or are needed (PCBs, TAL/TCL)

The team agreed to review or comment on the work plan for Site 11 at the next meeting depending upon the work plan production schedule. During the work plan review, the team will review the proposed soil sampling plan for the site.

**Site 5 – Photographic Chemicals Disposal Area**

**CONSENSUS to NFA:** Due to the small volume of photochemicals disposed in an area that can not be located using historical records and the disposal of these wastes in a “marl” pit consisting of clayey native soils that would prohibit transport of the photochemicals, no further action is warranted at this site.

**AOC 1 – Scrap Metal Dump**

**Draft**  
**December 3-5, 2001**  
**PARTNERING MEETING NUMBER 42**  
**NASO YORKTOWN/CHEATHAM ANNEX**

The team agreed to consider performing a removal action of surface debris to the extent possible. Added to the agenda for February meeting to present and discuss sediment sample analysis data. Dave Martin is to present the sediment data.

**Site 12 – Disposal Site Near Water Tower**

The site is thought to be “east” of Jones Pond not “west” as stated in site description, first paragraph on page 4-24, based upon geographical features in the general vicinity of the site.

**CONSENSUS:** The team agreed that further sampling is required at the site prior to making a NFA decision. The approach agreed to consist of a grid of five soil samples (1 center, 4 corner points). One sample will be analyzed for TAL/TCL and the remaining 4 will be analyzed for TAL metals only. An additional three soil samples will be collected between the railroad tracks adjacent to the site. These analytical results will be compared to the grid analytical results to determine whether or not the railroad maybe a source area.

**Yorktown Site Visits (1545 – 1700 hours)**

The following SSA sites were reviewed to assist team members reviewing the SSA report.

**SSA 5 – By-Pass Road Landfill**

At this site, debris has been disposed in the ravine.

**SSA 21 – Roosevelt Pond**

Peter Knight suggested that a fish study may be needed due to the bioaccumulation of mercury. Even though low levels of mercury were detected, a study at Dahlgren of large mouth bass indicates that bioaccumulation may result in exceedance of the action level. Low detection levels will be required for the fish study, if conducted.

**SSA 4 – Weapons Casing/Drum Disposal Area**

During a removal action it was confirmed that inert rounds were disposed of at this site.

**SSA 3 – Fire Training Pits and Vicinity**

Groundwater discharges to a nearby stream where surface water samples were collected. Two questions resulted from the team’s discussion: 1) Do the groundwater monitoring wells at the site monitor the same flowpath as that discharging to the stream? 2) When and where were the surface water samples collected with respect to the removal action at the site? These items were added to the action list.

**Site 6 – Explosives-Contaminated Wastewater Impoundment**

**CONSENSUS:** This site is former cache where TNT was placed in a hole and stored. The hole was later backfilled. Soil with concentrations of cadmium and zinc were left in the hole and then backfilled with 4

**Draft**  
**December 3-5, 2001**  
**PARTNERING MEETING NUMBER 42**  
**NASO YORKTOWN/CHEATHAM ANNEX**

feet of soil. After discussing the conditions of the site, the team agreed to evaluate whether further action was required at this site.

**Site 9 – Plant 1 Explosives-Contaminated Wastewater Discharge Area**

The team discussed re-evaluation of this site.

**Site 19 – Conveyor Belt Soil at Plant 1**

After discussing this site the following action items were set: 1) Jeff Harlow will confirm the extent of the excavation around the building. 2) Dave Martin will confirm whether the excavation was performed to residential or industrial levels.

**SSA 22 – Sand Blasting Grit Area**

The issue at this site was lead and cadmium in soil. The soil was removed to an established action level and the building was demolished.

**SSA 23 – Coal Storage Area**

The issue at this site was arsenic and vanadium in soil. During the removal action 9 drums of soil were removed in 2 phases.

Draft  
December 3-5, 2001  
**PARTNERING MEETING NUMBER 42**  
**NASO YORKTOWN/CHEATHAM ANNEX**  
ACTION LIST (12/3/01)

No.	ACTION	RESPONSIBILITY	OUTCOME	DATE
1	Revise LUCIP language based upon comments	Baker	A	2/5/02*
2	Send comments (circa 1998) on R I for Sites 8, 18, SSA14 to Letty Savage (Peter Knight has no comment response letter on Site 18)	Team & (BTAG)	A	11/14/01*
3	Meet on Prioritization of FY01/02 Goals & 10 sites that will require ESDs (based on funding, review times, ROD signatures, Schedules (LTM projects), Distribute to group for comment, Can/should we list on "final" documents/actions, & Identify sites that requires ESDs, distribute to group for comment	Scott, Don, Jeff, Jen	A	10/31/01*
4	Provide Comments on Site 18 ROD by 12/3/01	Team	A/C	12/3/01*
5	P. Knight to e-mail comments to Team & Letty S., Letty to send response to comments to Peter, Letty to call Peter morning of 11/1/01 - <i>Site 18</i>	Peter, Letty	A	11/1/01*
6	Find information on "agreement among LANTDIV, VDEQ, and Baker from predecessors, why were only 3 of 5 AOCs addressed? Prepare sampling plan for Penniman AOC, set conference call to discuss	Team & Don	A	12/3/01*
7	Are Public Meetings Necessary for ESDS <i>(NO)</i>	Bob	A	2/5/02
8	Summarize Details for a few Groundwater Courses to propose to team at February Meeting	Mary	A	2/5/02
9	Review FFA language with appropriate people (ie. Legal) at VA DEQ, and EPA, Region	Bob, Steve, Jeff	A	2/5/02
10	Scott will e-mail FFA language (D. Shepherd e-mail)	Scott	A	ASAP
11	Check with Frank/Peter concerning ICs at Site 6 Excavated area (Cache 8 Area)	Bob	A	2/5/02
12	Was Site 12 groundwater addressed in ROD? Were there any MCL exceedances?	Jeff & Don	A	12/4/01
13	Review locations in Outer Banks for February meeting (hotels, beach houses)	Jeff & Jennifer	A	1/1/02
14	Check with Frank on status of Site 18 ROD	Bob	A	2/5/02
15	CAX Site 3 - Fluorescein Dye MSDS	Jeff	A	2/5/02
16	CAX Site 9 - Confirm PCB results for soil samples	Baker (Dave)	A	2/5/02
17	CAX Site 10 - MSDS for DS2 & Fate information, confirm volume	Jeff & Don	A	2/5/02
18	CAX Site 11 - Review Work Plan, Penniman Data, approach to desk top study of AOCs	Baker (Mary)	A	2/5/02
19	CAX Site 12 - Find aerial photographs & use to locate site, prepare proposed sampling plan (5 point grid - 1 TAL/TCL, 4 TAL(metals) & 3 more samples between railroad tracks - all TAL/TCLs, compare results of grid samples to railroad samples & determine if railroad is a source	Baker	A	2/5/02
20	NWSY SSA3 - confirm groundwater flowpath monitored by wells is same as surface water discharge point, where/when were surface water samples collected?	Baker (Dave)	A	2/5/02
21	NWSY Site 19 - Confirm ecological risk only?	Baker (Dave)	A	2/5/02

**Draft**  
**December 3-5, 2001**  
**PARTNERING MEETING NUMBER 42**  
**NASO YORKTOWN/CHEATHAM ANNEX**

	Confirm extent of excavation around building. Was clean up to residential or industrial level?			
22	NWSY Site 19 – Confirm extent of excavation around building.	Jeff	A	2/5/02
23	Audio conference call set-up	Jayanti	A	1/29/02 1300 PM
24	VTC conference call set-up	Team (for each location)	A	1/29/02 10 AM
Notes: *Denotes items carried over from December Meeting Action List.				

**PARKING LOT ITEMS (12/3/01)**

- Mentoring/Training for new members on team structure – subgroups Tier II/III
- Add attachments to FFA for CAX sites (for February 2002 meeting) (2/5/02 - NOW AN ACTION item)

**FACILITATOR FEEDBACK**

- Digressed a lot (partially due to open discussion)/lacked clear purpose/goal for agenda items
- More sidebars/plops than normal but they were identified
- Unwillingness to scribe

**MEETING +/- Δ**

+	Δ
Meeting facility	No travel orders permitted
Concentrated LUCIP review	Re-evaluation/Discussion of new meeting logistics f Feb 02 meeting, requires planning/logistics to set up meeting
Groundwater Conference Opportunity list discussion	Couldn't have group activities due to per diem limitation
Easy access to CAX 12/3/01	
Late start	

**Draft**  
**December 3-5, 2001**  
**PARTNERING MEETING NUMBER 42**  
**NASO YORKTOWN/CHEATHAM ANNEX**

Weather great (70° F)	
Peter's snacks	

**NEXT PARTNERING MEETING**

**DATE:** February 5-7, 2002

**LOCATION:** Outer Banks, NC

**MEETING MANAGER:** Mr. J. Harlow

**RECORDER:** Mr. Don Joiner/Ms. M. Mullen

**TIMEKEEPER:** Mr. S. Mihalko

**MEETING HOST:** Mr. J. Harlow

**FACILITATOR:** Mr. S. Park

TABLE 7-9  
 FREQUENCY AND RANGE OF SURFACE SOIL DATA COMPARED TO SURFACE SOIL BACKGROUND CONCENTRATIONS  
 SITE 21 - BATTERY AND DRUM DISPOSAL AREA  
 NAVAL WEAPONS STATION YORKTOWN  
 YORKTOWN, VIRGINIA

Analyte	Site Contaminant						WPNSTA Background			
	No. of Positive Detects/No. of Samples	Range of Positive Detections		Range of Positive Detections	Range of Background Detections		No. of Positive Detects/No. of Samples	Range of Background Concentration	Maximum Detection Used in Screen	
<b>VOLATILES (ug/kg)</b>										
METHYLENE	1/14	60	- 60	60 - 60	7	J - 9	J	2/13	7J - 9J	60
ACETONE	1/14	7	J - 7	7J - 7J	8	J - 13	J	2/13	8J - 13	7
TOLUENE	3/14	1	J - 3	1J - 3J	0	0 - 0	0	0/13	ND	3
STYRENE	1/14	1	J - 1	1J - 1J	0	0 - 0	0	0/13	ND	1
<b>SEMIVOLATILES (ug/kg)</b>										
ACENAPHTH	1/19	110	J - 110	110J - 110J	0	0 - 0	0	0/13	ND	110
DI-N-BUTYL	3/19	42	J - 360	42J - 360J	0	0 - 0	0	0/13	ND	360
FLUORANTH	1/19	270	J - 270	270J - 270J	120	J - 430	J	4/13	120J - 430	270
PYRENE	2/19	49	J - 260	49J - 260J	160	J - 320	J	3/13	160J - 320J	260
BUTYLBENZ	7/19	43	J - 1400	43J - 1400	0	0 - 0	0	0/13	ND	1400
BENZO(A)A	1/19	200	J - 200	200J - 200J	120	J - 240	J	2/13	120J - 240J	200
CHRYSENE	1/19	260	J - 260	260J - 260J	150	J - 270	J	3/13	150J - 270J	260
BIS(2-ETHYL	10/19	74	J - 260	74J - 260J	0	0 - 0	0	0/13	ND	260
BENZO(B)FL	1/19	910	J - 910	910 - 910	230	J - 500	J	3/13	230J - 500	910
BENZO(K)FL	1/19	220	J - 220	220J - 220J	120	J - 130	J	2/13	120J - 130J	220
BENZO(A)PY	1/19	140	J - 140	140J - 140J	140	J - 180	J	2/13	140J - 180J	140
INDENO(1,2,3	1/19	130	J - 130	130J - 130J	160	J - 160	J	1/13	160J - 160J	130
BENZO(G,H,I	1/19	110	J - 110	110J - 110J	0	0 - 0	0	0/13	ND	110
<b>PESTICIDES/PCBS (ug/kg)</b>										
GAMMA-BH	2/19	13	- 22	13 - 22	0	0 - 0	0	0/13	ND	22
HEPTACHLO	2/19	13	- 22	13 - 22	0	0 - 0	0	0/13	ND	22
ALDRIN	2/19	11	- 20	11 - 20	0	0 - 0	0	0/13	ND	20
HEPTACHLO	1/19	0.34	J - 0.34	0.34J - 0.34J	0	0 - 0	0	0/13	ND	0.34
DIELDRIN	5/19	0.085	J - 46	0.085J - 46	0	0 - 0	0	0/13	ND	46
4,4'-DDE	9/19	0.62	J - 39	0.62J - 39	0	0 - 0	0	0/13	ND	39
ENDRIN	2/19	31	- 51	31 - 51	0	0 - 0	0	0/13	ND	51
4,4'-DDD	3/19	3.2	J - 190	3.2J - 190J	0	0 - 0	0	0/13	ND	190
4,4'-DDT	2/19	4.3	- 33	4.3 - 33	0	0 - 0	0	0/13	ND	33
METHOXYC	3/19	1.3	J - 2.8	1.3J - 2.8J	0	0 - 0	0	0/13	ND	2.8
ENDRIN KET	1/19	0.95	J - 0.95	0.95J - 0.95J	0	0 - 0	0	0/13	ND	0.95
ALPHA-CHL	3/19	2.6	- 15	2.6 - 15	0	0 - 0	0	0/13	ND	15
GAMMA-CH	3/19	3	- 13	3 - 13	0	0 - 0	0	0/13	ND	13
<b>TOTAL INORGANICS (mg/kg)</b>										
ALUMINUM	19/19	938	- 43300	938 - 43300	1960	- 24100	-	57/57	1960 - 24100	43300
ARSENIC	10/19	0.34	J - 11.6	0.34J - 11.6	0.46	L - 63.9	-	57/57	0.46L - 63.9	11.6
BARIUM	5/19	4.9	- 26.9	4.9 - 26.9	4.2	J - 80.2	-	57/57	4.2J - 80.2	26.9
BERYLLIUM	2/19	0.3	- 0.34	0.3 - 0.34	0.23	J - 0.93	J	38/57	0.23J - 0.93J	0.34
CADMIUM	5/19	1.5	J - 38.4	1.5J - 38.4J	1.2	J - 1.5	-	3/57	1.2J - 1.5	38.4
CHROMIUM	15/19	2.5	- 32.3	2.5 - 32.3	2.6	- 33.5	-	57/57	2.6 - 33.5	32.3

COBALT	4/19	0.78	-	4.1	0.78 - 4.1	0.88	J	-	6.7	J	54/57	0.88J - 6.7J	4.1
COPPER	10/19	1.6	-	61.9	1.6 - 61.9	1.2	J	-	24.4		48/57	1.2J - 24.4	61.9
IRON	19/19	1400	-	31100	1400 - 31100	1440		-	46400		57/57	1440 - 46400	31100
LEAD	19/19	4.6	-	43	4.6 - 43	2.1		-	43.1		57/57	2.1 - 43.1	43
MANGANES	19/19	3.7	J	1310	3.7J - 1310J	7.6	L	-	491		57/57	7.6L - 491	1310
MERCURY	7/19	0.06	J	4.4	0.06J - 4.4J	0.05	J	-	0.05	J	1/57	0.05J - 0.05J	4.4
NICKEL	5/19	1.9	-	10.5	1.9 - 10.5	3.8	J	-	12.5		43/57	3.8J - 12.5	10.5
SELENIUM	3/19	0.93	K	1.2	0.93K - 1.2K	0.21	L	-	0.61	L	30/57	0.21L - 0.61L	1.2
SILVER	1/19	1.2	-	1.2	1.2 - 1.2	1	J	-	2.1	J	5/57	1J - 2.1J	1.2
THALLIUM	1/19	1.8	-	1.8	1.8 - 1.8	0	0	-	0	0	0/57	ND	1.8
VANADIUM	6/19	12.4	-	49.4	12.4 - 49.4	5.2	J	-	64.7		57/57	5.2J - 64.7	49.4
ZINC	18/19	7.8	-	6780	7.8 - 6780	3.2	KJ	-	48.4		57/57	3.2KJ - 48.4	6780
CYANIDE, T	3/19	0.19	-	0.25	0.19 - 0.25	0	0	-	0	0	0/53	ND	0.25

Notes:

ND = Not detected

Shading indicates that the maximum detected concentration at the site lies within the range of background concentrations.

# NWS YORKTOWN/CAX/NAS OCEANA PARTNERING MEETING NUMBER 42

December 5, 2001  
Joint Meeting Minutes

## Introduction

The joint partnering meeting was held on December 5, 2001 at Williamsburg, WV. To start the meeting the team reviewed the agenda items. The revised agendas are provided below. The following participants were in attendance personally or by conference call as team members or the Tier II link for this meeting:

Name	Organization
Durwood Willis (conference call, Tier II update)	VDEQ
Jennifer Davis	LANTDIV
Tim Reisch	LANTDIV
Scott Park	LANTDIV
Jeff Harlow	WPNSTA Yorktown
Bob Stroud	USEPA Region III
Steve Mihalko	VDEQ
Peter Knight	BTAG
Don Joiner	Baker Environmental
Mary Mullen	Baker Environmental
Jayanti Sachdev	CH2M HILL

## Revised Agenda

Date	Agenda Item	Leader	Purpose/Goal	Time
12/5 0800 hrs	Welcome	Team	Warm-up and settle in.	15 minutes
0815 hrs	Check In	Team	Standard Meeting Format - More Efficient Meeting	15 minutes
0830 hrs	Tier II Update	Durwood Willis	Conference Call	30 minutes
0900 hrs	Review Agenda	Team		15 minutes
0915 hrs	Review Parking Lot Items	Team		10 minutes
0925 hrs	Joint Partnering Meeting Presentation - May 16-17	Team	Brainstorm for ideas	1 hour
1025 hrs.	Break	Team	Refresh, Recoup	15 minutes
1040 hrs	R&R Partnering Deliverable	Team	Gain consensus on Ground Rules drafted at last meeting	30 minutes
1110 hrs	Plus/Minus Delta	Jeff	Feedback	10 minutes
1120 hrs	Agenda Building for Joint Meeting	Jeff	Agenda for Next Time	10 minutes
1130 hrs	Lunch			1 hour

MM: J. Davis  
 Rec: J. Sachdev  
 Time: M. Mullen  
 Fac: J. Harlow

**NWS YORKTOWN/CAX/NAS OCEANA  
PARTNERING MEETING NUMBER 42  
December 5, 2001  
Joint Meeting Minutes, cont.**

**Joint Partnering Meeting Presentation – May 16-17, 2001**

**Objective:** Brainstorm for ideas – one presentation among NWS Yorktown/CAX/NAS Oceana.

- Conflict resolution staging/drill
- Moving partnering to the next level – where do we see the focus of partnering down the road ---- shift in R&R? How did we build trust? – 1 vote
- VTC – Pros/Cons, i.e. reducing travel costs, building trust – 5 votes
- Joint team – how we came together and how we are now splitting apart, due to Oceana winding down. Why isn't anyone else doing this? – 2 votes
- Small businesses presentation – either general presentation or successes/impediments in using them
- BAA (Broad Agency Analysis)- accessing Daramend – other groups do not use it because likely they don't know about it
- 5-year review - interpretations and implementations, cost of monitoring, annual inspections, LTM – Yorktown has them coming up, Oceana does not right now
- Top-ten finest moments of partnering – mini success stories, vs. one big one (i.e. Oceana biopile soils – turned a “mistake” into something positive) – 12 votes
- The use of professional facilitation
- Groundwater restrictions – challenges that the team(s) have to face (how do we cleanup contaminated groundwater if we know it won't be used for drinking water either now or in the future) – State (all gw is “drinkable”) vs. EPA (gw aquifer classifications) interpretations – 5 votes
- Groundwater operable units (GWOU) approach vs. by “site” – why this approach was taken?
- LUCIPs – trials and tribulations of leaving waste in place – gw/soil, but gw issue (Oceana) is beyond Tier I and even Tier II, cost estimates for leaving in place vs. not doing so – 5 votes

**R & R - Partnering Deliverable**

**Objective:** Gain consensus on Ground Rules drafted at last meeting (page 4 of the revised [December 2001] partnering deliverable).

- #6 – remove the word “agendas” from the first sentence.
- #6 – replace “his or her” with “his/her” in the second sentence.
- #12 – “...bring the data to the group to be considered for re-evaluation”.
- #15 – delete it.
- #17 and #19 – periods are missing.

Also Page 6: Update core members for NAS Oceana: Replace Jayanti Sachdev with Tony Tomlin as a core member. Jack Robinson will be an technical member. Jayanti Sachdev will be an adjunct member. Last meeting for Jack and Jayanti will be February 2002.

Peter's new e-mail address: [Peter.Knight@noaa.gov](mailto:Peter.Knight@noaa.gov)

Bob's: [stroud.robert@epa.gov](mailto:stroud.robert@epa.gov) (take all the "epamail" out of the EPA e-mail addresses).

Ed "Carl" to Ed "Corl".

Add Fax Numbers.

## Tier II Update – Durwood Willis

<b>Tier II topics for Team</b>
Met at the William F. Bolger Center for Leadership Development in Potomac, MD. Tier II feels that this place is equal to or nicer than the Xerox building (rooms, layout). Website address for Steve to pass to the rest of the team ( <a href="http://www.bolger.com">www.bolger.com</a> ).
If a team wants to meet for a one-day partnering meeting, that should be handled directly by the team with the Bolger Center or some other facility – let Doug Dronfield/CH2M HILL know if meeting at the Bolger Center. Phone number for Bolger Center: 301-983-7000.
Doug Dronfield will be sending out an e-mail with the proposed agenda for the joint meeting (ecological, legal, and technical topics). Provide comments to Doug on the agenda.
20 minutes maximum for each individual Tier I presentations.
Elevation of Tier I issues – use the set of elevation criteria.
Video conferencing – brought up by Tier I to Tier III. Tier III is on board with it, and Tier I should consider the use of it. Use of video conferencing in lieu of conference calls or in-person meetings, when feasible. In the meantime, Tier II is finding out who the technical folks are that can help with set up of this technology. Provide thoughts to Steve Mihalko.
Status of the ecological subgroup – focus more toward case-by-case specific issues, problems, questions. Contact your ecological subgroup member first.
Meetings between DoD and EPA within the next few weeks regarding the IC issue – hopefully will shed some light on how to Tier I should proceed. Will also be discussed at the Tier I/Tier II meeting in May 2002 – may be from a "historical" perspective at that point.
<b>Team topics for Tier II</b>
Scott, Jennifer, and Tim were not allowed per diem...had to drive and forth each night to Va. Beach, couldn't meet with team in the evening, and had out-of-pocket expenses.
Can't go to Somerset, PA (was scheduled for Feb. 2002), therefore had to spend quite a bit of time to decide where to meet instead.
Tier II should consider developing an "elevation path" for elevating ecological issues to the ecological subgroup.

**Plus-Delta**

+	Δ
---	---

Peter's pretzels	Somerset is out as a meeting location
We are ahead of schedule	Tim did not introduce the guest
Laura made it through the gate!	
Excellent Meeting Management	
Good snacks, break service	

## Discussion of Next Partnering Meeting Dates/Locations

2002		
February 5 <sup>th</sup> - 7 <sup>th</sup>	Kill Devil Hills, NC	MM: J. Harlow Rec: Baker /J. Sachdev Time: S. Mihalko Fac: S. Park/T. Reisch
March 12 <sup>th</sup> - 14 <sup>th</sup>	Philadelphia, PA (Embassy Suites for hotel, and CH2M HILL office for meeting room?)	MM: M. Mullen Rec: Baker /J. Sachdev Time: J. Davis Fac: S. Mihalko
April 23 <sup>rd</sup> - April 25 <sup>th</sup>	Williamsburg, WV	MM: T. Reisch/S. Park Rec: Baker /J. Sachdev Time: B. Stroud Fac: M. Mullen
May 16 <sup>th</sup> - May 17 <sup>th</sup> (Joint Meeting)	Bolger Center	
June 18 <sup>th</sup> - 20 <sup>th</sup>	Richmond, VA	MM: TBD Rec: Baker /J. Sachdev Time: TBD Fac: TBD
August 6 <sup>th</sup> - 8 <sup>th</sup>	Northern Virginia, VA (TBD)	MM: TBD Rec: Baker /J. Sachdev Time: TBD Fac: TBD
September 17 <sup>th</sup> - 19 <sup>th</sup>		MM: TBD Rec: Baker /J. Sachdev Time: TBD Fac: TBD
October 22 <sup>nd</sup> -24 <sup>th</sup>	Williamsburg, WV	MM: TBD Rec: Baker /J. Sachdev Time: TBD Fac: TBD
December 3 <sup>rd</sup> - 5 <sup>th</sup>	Williamsburg, VA	MM: TBD Rec: Baker /J. Sachdev Time: TBD Fac: TBD

**NWS YORKTOWN/CAX/NAS OCEANA  
PARTNERING MEETING NUMBER 42**

**December 5, 2001**

**Joint Meeting Minutes, cont.**

**Consensus Decisions**

The following summarizes the Consensus Decisions achieved during the December 2001 Joint Partnering Meeting.

- Partnering Deliverables group meeting roles, with modifications listed above.

**Joint Team Action Items**

Item	Person	Outcome	A/C	Date
Trial VTC in Jan. 2002/research VTC costs	Team	Setup for our agenda call on January 29, 2002	C	01/29/02
Check on VTC availability	Team	For January 29, 2002 call	C	12/22/01
Set up conference call number if VTC fails	Jayanti	If VTC fails	A	12/22/01
ERA feedback	Team	Provide any feedback on the ERA process to Tier II	A	May 2002
LUCIP	Baker	Add survey control to figures for all LUCIPs	A	2/05/02
LUCIP/LUCAP	Baker	Forward word and pdf version of LUCIP and LUCAP to Jayanti for use at NAS Oceana	A	2/05/02
LUCIP	Scott/Jeff/Jayanti	Determine how the LUCAP/MOA/LUCIP will work, who will maintain, who will update, region?, LANTDIV (admin. Rec.)?, facility?	A	2/05/02
Reserve a meeting room at CH2M HILL's PHL office for the March 12-14, 2001 meeting	Jayanti	Meeting Room for the March 2002 meeting	A	2/05/02
Keep minutes updated on the website (NASO and WPNSTA)	Jayanti/Don	Update website	A	2/05/02

Update calendar (NASO and WPNSTA)	Jayanti/Don	Update website	A	2/05/02
-----------------------------------	-------------	----------------	---	---------

### Joint Team Parking Lot

- None.

### Joint Team Agenda Building Items for the February 2001 Meeting

Agenda Item	Estimated Meeting Time
<b>Joint Team</b>	
Tier I/Tier II Joint Meeting Presentation - 4 options chosen (pick topic, begin presentation outline)	2 hours
Open discussion, including VTC assessment	1 hour
Partnering Exercise	30 minutes
Entrance and exit procedures for Tony, Jayanti, and Jack	45 minutes

Agenda building conference call/VTC: January 29, 2002 at 10:00 am via VTC, have a backup conference call number. Re-convene at 1:00 p.m. if VTC does not work and need to have a conference call that day instead.

DJ

WPNSTA YORKTOWN PARTNERING MEETING NUMBER 42  
 NASO PARTNERING MEETING NUMBER 19  
 DECEMBER AGENDA

Date	Agenda Item	Leader	Purpose/Goal	Time
12/03 1200 hrs	Welcome	Team	Standard Meeting Format - More Efficient Meeting	15 minutes
1215 hrs	Check-In	Team		10 minutes
1225 hrs	Guests/R&R/Review GRs	Jennifer		10 minutes
1235 hrs	Review Previous Meeting Minutes	Team	Provide corrections/comments to previous meeting minutes	10 minutes
1245 hrs	Review Facility Meeting Logistics	Jeff		5 minutes
1250 hrs	Review NWSY Parking Lot Items	Team		5 minutes
1255 hrs	Review NWSY Action Items	Team	Review what was accomplished and what needs to be completed or placed in the parking lot and carried to the next meeting	1 hour
1310 hrs	Groundwater conference opportunities	Mary	Discuss Princeton GW Remediation Course and other possibilities	30 minutes
1340 hrs	FFA Language	Scott	Update of D. Shephard's (LDIV Attorney) comments on how to include CAX	15 minutes
1410 hrs	Break	Team	Refresh, Recoup	15 minutes
1425 hrs	Review LUCIP Comments	Don	Review team comments. Status update on 7 Yorktown sites.	1 hour
1555 hrs	Break	Team	Refresh, Recoup	15 minutes
1610 hrs	Review revised Site 18 Timeline	Jeff	Review team comments	30 minutes
1640 hrs	Open discussion		Any comments, concerns, issues?	30 minutes
1710 hrs	Facilitator Feedback	Jeff	Critical analysis of meeting progress and self-facilitation skills	15 minutes
1725 hrs	End Day 1			

Bob - has site ~~IB~~ ROD in for review w/ EPA Attorney  
 thinks that ROD comments should be avail sometime in Jan.  
 → Bob → needs to see PRAPs - rods for 2, ~~8~~ 2, 8, SSA 14 -

Ramada Inn - KDH -

MM: T. Reisch/J. Davis  
 Rec: Baker /J. Sachdev  
 Time: M. Mullen  
 Fac: J. Harlow

**WPNSTA YORKTOWN PARTNERING MEETING NUMBER 42  
NASO PARTNERING MEETING NUMBER 19  
DECEMBER AGENDA**

Date	Agenda Item	Leader	Purpose/Goal	Time
12/4 0800 hrs	Welcome	Team	Standard Meeting Format - More Efficient Meeting	15 minutes
0815 hrs	Check In	Team		15 minutes
0830 hrs	Pre-Site Visit	Dave	Distribute site visit information (data/sampling loc). Review site schedule.	1 hour
0930 hrs	SITE VISIT	Dave	Highlight SSA 3 sed info, Penniman AOCs, CAX Site 11 Draft Sampling Plans	2 hours
1130 hrs	Lunch	Team		1 hour
1230 hrs	SITE VISIT	Dave	Highlight SSA 3 sed info, Penniman AOCs, CAX Site 11 Draft Sampling Plans	4 hours
1630 hrs	Facilitator Feedback	Jeff	Critical analysis of meeting progress and self-facilitation skills	15 minutes
1645 hrs	Agenda Building	Jeff	Agenda for Next Time	15 minutes
1700 hrs	End Day 2			

Action Items

- Site 9 - Davon - action item
- Site 10 - Jeff/Dow - MSDS - DB-2
- Site 11 → Penniman Data
- Site 19 - Review data - eco data - Jeff - extent of excavati. around bldg
- Site 19 - Excavated to industrial or residential levels - Dave
- ~~CAX Site 12 - Areal pl~~

Consensus

- CAX - Site 8 - Revise text
- Site 2 - NFA
- Site 12 - Consensus on Approach - grid 5 pts - 1 tal/tel  
areal photos - Baker - 4 tal motels
- Site 5 - NFA
- MM: T. Reisch/J. Davis
- Rec: Baker/J. Sachdev
- Time: M. Mullen
- Fac: J. Harlow
- 3 between RR tracks tal/tel

handle both w/ site 4

CAX AOC 3 / site 4  
AOC 4

**WPNSTA YORKTOWN PARTNERING MEETING NUMBER 42  
NASO PARTNERING MEETING NUMBER 19  
DECEMBER AGENDA**

Date	Agenda Item	Leader	Purpose/Goal	Time
12/5 0800 hrs	Welcome	Team	Warm-up and settle in.	15 minutes
0815 hrs	Check In	Team	Standard Meeting Format - More Efficient Meeting	15 minutes
0830 hrs	Review Agenda	Team		15 minutes
0845 hrs	Review Parking Lot Items	Team		10 minutes
0855 hrs	Joint Partnering Meeting Presentation – May 16-17	Team	Brainstorm for ideas	1 hour
0955 hrs.	Break	Team	Refresh, Recoup	15 minutes
8:30 <del>1010 hrs</del>	Tier II Update	Durwood Willis	Conference Call	30 minutes
1040 hrs	R&R Partnering Deliverable	Team	Gain consensus on Roles and Responsibilities drafted at last meeting	30 minutes
1110 hrs	Partnering Exercise	Jeff	Team evaluation exercise	30 minutes
1140 hrs	Facilitator Feedback	Jeff	Feedback	10 minutes
1150 hrs	Agenda Building for Joint Meeting	Jeff	Agenda for Next Time	10 minutes
1200 hrs	Lunch			1 hour
1300 hrs	Review Parking Meeting Minutes, Action Items & Parking Lot Items	Tim/Jayanti	Standard Meeting Format - More Efficient Meeting	30 minutes
1330 hrs	SWMU 25 ecological screen/tech memo	Laura	Review screen results, memo, and seek consensus	1 hour
1430 hrs	SWMU 25 Decision Document Language	Tim	Seek consensus	30 minutes
1500 hrs	Break	Team	Refresh	15 minutes
1515 hrs	SWMUs 1,15 & 2 4 DD & 2B,2C,2E DD	Tim	Update status of ICs/LTM	1 hour
1615 hrs	Final HHRA SWMU 2B,2C,2E	Jayanti	Seek consensus on response to comments	30 minutes
1645 hrs	Agenda building	Jeff		10 minutes
1655 hrs	Facilitator Feedback		Critical analysis of meeting progress and self facilitation skills	10 minutes
1705 hrs	+/-		Review Meeting day	10 minutes
1715 hrs	End day			

*Next Meeting:  
Somerset, PA???  
February 5<sup>th</sup> – 7<sup>th</sup>  
MM: J. Harlow; Rec: Baker /J. Sachdev; TK: S. Mihalko; Fac: S. Park/T. Reisch*

MM: T. Reisch/J. Davis  
Rec: Baker /J. Sachdev  
Time: M. Mullen  
Fac: J. Harlow

# Mail Message



[Close](#)

[Previous](#)   [Next](#)   [Forward](#)   [Reply to Sender](#)   [Reply All](#)   [Move](#)   [Delete](#)   [Properties](#)

**From:** Mary Mullen  
**To:** Shelly Liller, GATEDOM.gwia:pwcnorva.navy.mil:HARLOWJC, Don Joiner  
**Date:** Tuesday - November 27, 2001 9:54 AM  
**Subject:** Re: Hotel arrangements for Dec 3 and 4

Don/Jeff:  
I contacted the Marriott Courtyard and all of their meeting rooms are booked for Dec. 3, 4, & 5. Lindsey Hicks checked with the "full service" Marriott (about 1/4 mile away from the Courtyard) and they have meeting rooms available. The contact there is Peter Travis at 757-220-2500. He is out of the office today from 10 to 1, so I will try him again later. Just wanted to provide an update for you.

Mary

>>> Don Joiner 11/21/01 16:30 PM >>>  
Shelly -

Here is the list of people for now. These are either government employees, or government contractors.

Dec 3, 2001

- 1 Don Joiner
- 2 Mary Mullen (Baker)
- can 3 Jennifer Davis ✗ 57896194
- can 4 Jeff Harlow ✗
- 5 Peter Knight
- 6 Dave Martin (1 night only)
- can 7 John McCloskey ✗
- 8 Steve Mihalko
- 9 Bob Stroud

Dec 4, 2001

All those above except Dave Martin, plus

Tim Reisch  
Jack Robinson  
Jayanti Sachdev  
+ 2 others  
*Shelly Rosnick*

Thanks for taking care of this. I will out until Nov 29 and will check back with you then.

For Mary Mullen - can you contact the hotel next week and check on meeting room arrangements. Coordinate this with Jeff Harlow, as Jeff is the host. Hotel number is 757-221-0700. Shelly talked with a Lindsey Hicks, and the rooms are under Michael Baker. The confirmation no is 82103801.

DJ

*CAX - Exit 242B  
Courtyard - 242A*

**From:** Don Joiner  
**To:** Yorktown-Oceana Joint Partnering Team  
**Date:** 11/29/01 8:57AM  
**Subject:** Hotel for Dec Partnering

We have reserved a block of rooms at the Courtyard Marriott near Busch Gardens for the nights of Mon Dec 3 and Tues Dec 4.

The rooms are under Michael Baker and the confirmation number is 82103801.

Please call the hotel at 757-221-0700 to get a room in your name.

Directions to Courtyard - Exit 242A on I-64 (Rt 199) - continue for about 1 mile on 199 and exit onto Rt 60 East. Right at second light into Busch Corporate Center. Rt 199 is also the road to main gate at CAX.

Jeff will be providing information on logistics for the meeting room at CAX BOQ.

Please let me know when you have gotten your room reserved. We have more rooms than we will need - so I will need to cancel the extras.

Don Joiner  
Michael Baker Corporation  
757-631-5416  
djoiner@mbakercorp.com

**CC:** Liller, Shelly

**YORKTOWN - Site 18**

Sept 25<sup>th</sup> – Preliminary Draft PRAP to Scott/Jeff for review

Sept 27<sup>th</sup> – Scott/Jeff comments on Preliminary Draft PRAP back to Baker

Oct 1<sup>st</sup> – Team receives Draft ROD

Oct 3<sup>rd</sup> – Draft Final PRAP to State/EPA

Oct 23<sup>rd</sup> – Team brings comments for ROD to partnering meeting

Nov 11<sup>th</sup> – Open Comment Period

Nov 11<sup>th</sup> – Put public notice in Sunday paper

Nov 11<sup>th</sup> – No farther action for site 18

Nov 14<sup>th</sup> – Public meeting with RAB

Dec 12<sup>th</sup> – Comment Period closes

Dec 12<sup>th</sup> – 30 day review for counsel

Jan 28<sup>th</sup> – Final Comment on ROD

Feb – Get Rod Finalized and Signed

## GROUNDWATER CONFERENCES 2001

Nov 5

Ground-Water Discharge to Estuaries (NGWA cosponsored event)  
Web: [www.geosociety.org/meetings/2001](http://www.geosociety.org/meetings/2001) and [www.udel.edu/dgs/tmck/sgd](http://www.udel.edu/dgs/tmck/sgd)  
Boston, MA

Nov 12-15

American Water Resources Association's Annual Water Resources Conference  
PH: (540) 687-8390; Fax: (540) 687-8395;  
E-mail: [mike@awra.org](mailto:mike@awra.org)  
Albuquerque, New Mexico

Nov 14-16

2001 Groundwater Foundation's National Conference  
PH: (800) 858-4844; E-mail: [info@groundwater.org](mailto:info@groundwater.org)  
Pittsburgh, Pennsylvania

Nov 14-16

Petroleum Hydrocarbons and Organic Chemicals in Ground Water: Conference and  
Exposition  
Houston, Texas

Dec.3-7, 2001

The Remediation Course  
Orlando, FL

Dec 7-9

National Convention and Exposition  
53rd Annual Ground Water Expo  
Nashville, TN

## GROUNDWATER CONFERENCES 2002

Jan 7-11

Natural Attenuation, Risk Assessment & Risk-based Corrective Action  
Orlando, FL

Jan 21-23

- ~~No~~ An Introduction to Groundwater  
San Antonio, TX
- ~~No~~ Jan 21-23  
Artificial Recharge of Ground Water  
San Antonio, TX
- ~~No~~ Feb 25-26  
Fundamentals of Ground Water Chemistry  
San Antonio, TX
- ~~No~~ Feb 25-26  
MTBE Treatment Technology: Design and Implementation  
Orlando, FL
- ~~YES~~ Feb 26-28  
Natural Attenuation for Remediation of Contaminated Sites  
Orlando, FL
- ~~No~~ Feb 27-Mar 1  
Applications of Ground Water Geochemistry  
Orlando, FL
- ~~Yes~~ Mar 5-7  
The MODFLOW Course – Theory and Practical Applications in Natural Attenuation,  
Remediation Design, and Water Resource Management
- ~~No~~ Mar 8  
WinREST (Automated Mode Calibration Using WinPEST)  
Denver, CO
- ~~No~~ Mar 11-12  
Isotope Hydrology  
Denver, CO
- ~~No~~ Mar 11-12  
Applied Ground Water Data Management Using Microsoft Access, Oracle, and SQL  
Server  
Denver, CO
- ~~No~~ Mar 13-15  
Fractured Rock Aquifer Conference  
Denver, CO
- ~~YES~~ Mar 18-20  
Principles of Ground Water – Flow, Transport, and Remediation

Columbus, OH

*No* Mar 18-19  
Annual Ground Water Industry Legislative Conference (NGWA Fly-In)  
PH: (800) 551-7379; Fax: (614) 898-7786  
Washington, D.C.

*Yes* Mar 19-20  
Practical Applications of Natural Attenuation  
Columbus, OH

*No* Mar 20-21  
Fundamentals of Applied Soil Hydrology  
Columbus, OH

*No* Mar 26-28  
Computer Modeling of Natural Attenuation and Bioremediation Systems  
Orlando, FL

*Yes* Mar 26-28  
Understanding Migration, Assessment and Remediation of Non-Aqueous Phase Liquids  
(LNAPS and DNAPLS)  
(ORLANDO)

*No* Apr 8-10  
Water Well Design  
Chicago, IL

*Yes* Apr 9-10  
Remediation Technologies  
Chicago, IL

*No* Apr 11-12  
Midwest FOCUS Conference  
Chicago, IL

*Yes* May 13-15, 2002  
AWWA Annual Spring Conference "Coastal Water Resources"  
New Orleans, LA

*Yes* May 20-23  
Third International Conference on Remediation of Chlorinated and Recalcitrant  
Compounds  
(800) 783-6338; [conferencegroup@compuserve.com](mailto:conferencegroup@compuserve.com)  
Monterey, California

*No* June 6-7

128

MTBE Conference  
Anaheim, CA

2

July 1-3  
AWRA's Annual Summer Conference Ground Water/Surface Water Interactions  
Keystone, CO

3

Sept ??  
Southeast Focus Conference  
?? (2001 in Atlanta, Ga on Sept. 24-25)

Oct 3-4  
Northeast FOCUS Conference  
Burlington, VT

December 9-11  
Ground Water Expo  
Las Vegas, Nevada

## Mail Message



[Previous](#) [Next](#) [Forward](#) [Reply to Sender](#) [Reply All](#) [Move](#) [Delete](#) [Properties](#)

**From:** <Stroud.Robert@epamail.epa.gov>  
**To:** Don Joiner, gatedom.GWIA."harlowjc@pwcnorva.navy.mil"  
**Date:** Tuesday - November 20, 2001 4:03 PM  
**Subject:** FW: Naval Weapons Station-Yorktown  
 Mime.822 (5332 bytes) [View](#) [Save As](#)

Guys, please help me out with this.

Thanks,

Bob

Robert W. Stroud  
U.S. EPA Region III  
Federal Facilities Branch  
1650 Arch St.  
Phila, PA 19103  
(215) 814-3366  
(215) 814-3051 (FAX)  
(410) 305-2748 Ft. Meade

----- Forwarded by Robert Stroud/R3/USEPA/US on 11/20/01 03:55 PM -----

"Raziano,  
Todd M."           To: Robert Stroud/R3/USEPA/US@EPA  
<Thr1@cdc.gov       cc:  
>                   Subject: FW: Naval Weapons Station-Yorktown  
  
11/06/01  
11:05 AM

> -----Original Message-----  
> From: Raziano, Todd M.  
> Sent: Tuesday, September 18, 2001 11:10 AM  
> To: 'stroud.robert@epamail.epa.gov'  
> Subject: Naval Weapons Station-Yorktown  
>  
> Hi Bob...  
> My name is Todd Raziano. I currently work at ATSDR (Atlanta, GA) in  
> the  
> GIS section. I have been assigned a project that involves validating  
> all  
> NPL site polygons. Basically, I'm going to edit and in some cases  
> create  
> site boundaries (polygons) by using the most accurate information  
> (maps)  
> available. I'm contacting you because according to the EPA website you  
> are  
> the acting RPM for Naval Weapons Station-Yorktown.  
>  
> In validating a site, I usually use the following information: ATSDR

> Public Health Assessments, ATSDR Site Review and Updates, Aerial Photos,  
> EPA NPL Fact Sheets, EPA NPL Site Narratives, and EPA site maps.  
> Unfortunately, I recognized in a short period of time that PERIS (the  
> agencies file room) does not always have the necessary information to  
> accurately and completely perform my tasks. So...I am requesting some  
> assistance in trying to track down site boundary information for this  
> site. I've been able to find maps that accurately depict the vicinity  
> of  
> the site however not a clear site boundary. I have 3 basic CRITERIA  
> for a  
> "Good" Map: (1) A site boundary that is clear (i.e., fence or an area  
> that  
> is shaded)(2) Distinctive streets & landmarks (i.e., rivers,  
> railroads)  
> that bound the site (3) Sufficient resolution, scale (i.e., 1 inch =  
> 400  
> feet), note also consider the year of the map (i.e., some topographic  
> maps  
> are 20-30 years old, perhaps representing out dated areas).  
>  
> Also, you maybe be wondering exactly what I mean by site boundary.  
> What  
> the site boundaries are: the apparent facility site boundary,  
> depictions  
> of physical features found on the site (e.g. fences, property  
> boundaries,  
> roads, trees) that delineate the areas of reduced or restricted  
> access.  
> What the site boundaries are not: depictions of the extent of  
> contamination, areas of release, site remediation plans, or legal  
> property  
> boundaries. This project has been approved by the Superfund  
> headquarters.  
>  
> If you have any questions I'd be happy to explain further. I'd really  
> appreciate your assistance in my endeavors.  
>  
> Thank you ...  
> Sincerely, Todd M. Raziano  
>  
> Todd Michael Raziano, M.P.H.  
> Environmental Health Scientist  
> Spatial Analysis & Information Dissemination Section,  
> PERISB, DHAC, ATSDR, CDC  
> E Mail: thr1@cdc.gov  
> Phone: (404) 498-0394  
>  
>

**From:** Rich Hoff - X2099  
**To:** Ivester, Marlene  
**Date:** 7/2/01 10:44AM  
**Subject:** Re: Jeff Harlow's Office

Marlene,

O2000  
~~020062~~

I received a verbal from Scott Park that we can support Mr. Harlow. Please bill to 26007-172-0000-"PM Task". I expect that we will be reimbursed for up to \$5,000 and I'll get that in writing ASAP.

What I have tried to do is get our foot in the door to support Jeff on regional (technical) issues, with some success. Unfortunately, Jeff was recently moved and he needs help finding documents and organizing his new office space. What we'd like you to do is help him with his move and get him organized. I've done it before when I've been in town and I know it will be a challenge. He needs to open boxes, prioritize documents for review and stock administrative records for WPNSTA and a host of other activities. You can call us to determine what he needs and what he needs to throw away. Many draft deliverables are likely now finals.

We're keeping this "low-profile" until we get some approval to fund a stand-alone task, so this is work on a trial basis. It's also **grunt-work**, with the promise of obtaining administrative roles at federal facilities - many DoD facilities are going to outsourcing of certain civilian tasks and I'd like to think that this is a starting point for us if Navy adopts it in the region (ala Aberdeen). Jeff will dictate the schedule and the work, but it's a good opportunity to get to know the client and his daily responsibilities.

Please give me a call when you get a chance and I can better explain what we're trying to do.

Thanks!

get concurrence letter <sup>sm/</sup> to Scott

Shelly-Liller  
Lindsey Hicks -  
82103801

# Mail Message



**From:** "Sachdev, Jayanti A./WDC" <jsachdev@CH2M.com>  
**To:** Mary Mullen  
**Date:** Tuesday - November 20, 2001 10:50 AM  
**Subject:** RE: Yorktown/CAX/Oceana Agenda Conference Call Information  
 Mime.822 (3585 bytes) [View](#) [Save As](#)

Technically, yes, the team does need to accept the minutes, but lately with the joint minutes, that "formal" process really hasn't been happening, so I post them anyway. If changes need to be made the old version can always be deleted. I will go ahead and post them. In the meantime, you (or Don) may want to touch base with Haritha - she is usually very responsive!

Jayanti A. Sachdev, P.E.  
 CH2M HILL/WDC  
 Phone: 703-471-6405 x4355  
 Fax: 703-471-1508

-----Original Message-----

**From:** Mary Mullen [mailto:MMullen@mbakercorp.com]  
**Sent:** November 20, 2001 10:48 AM  
**To:** Sachdev, Jayanti A./WDC  
**Cc:** Don Joiner  
**Subject:** RE: Yorktown/CAX/Oceana Agenda Conference Call Information

These are not posted to the website as far as I know. I requested access for Don Joiner through Harita after our last meeting...I haven't heard if he got access to post to the website. Does the team have to formally accept the minutes before they get posted to the website?  
 Talk to you later

Mary

>>> "Sachdev, Jayanti A./WDC" <jsachdev@CH2M.com> 11/20/01 10:39AM >>>  
 Hi Mary-  
 Are these minutes posted on the website, or does it need to be done? Talk to you later today....

Jayanti A. Sachdev, P.E.  
 CH2M HILL/WDC  
 Phone: 703-471-6405 x4355  
 Fax: 703-471-1508

-----Original Message-----

**From:** Mary Mullen [mailto:MMullen@mbakercorp.com]  
**Sent:** November 19, 2001 11:19 AM  
**To:** robinsonjc@cdm.com; Sachdev, Jayanti A./WDC;  
 samihalko@deq.state.va.us; Davisjj@efdlant.navfac.navy.mil;  
 Parks@efdlant.navfac.navy.mil; reischta@efdlant.navfac.navy.mil;  
 Stroud.Robert@epamail.epa.gov; John\_mccloskey@fws.gov; Don Joiner;  
 peter.knight@noaa.gov; HarlowJC@PWCNORVA.NAVY.MIL  
**Subject:** Re: Yorktown/CAX/Oceana Agenda Conference Call Information

Team:

Joint Meeting Minutes are attached for your reference. Jennifer will send the Agenda later today.

Mary

Mary K. Mullen  
Senior Geologist  
Michael Baker Corporation  
3601 Eisenhower Ave., Suite 600  
Alexandria, Va 22304-6425  
703-317-6529  
FAX 703-960-9125

>>> "Sachdev, Jayanti A./WDC" <jsachdev@CH2M.com> 11/16/01 04:33PM >>>  
Team-

Following is the agenda conference call information:

Start Date/Time: 11/20/01 TUE 03:00 PM EST

Dial In Number: (888)476-3757

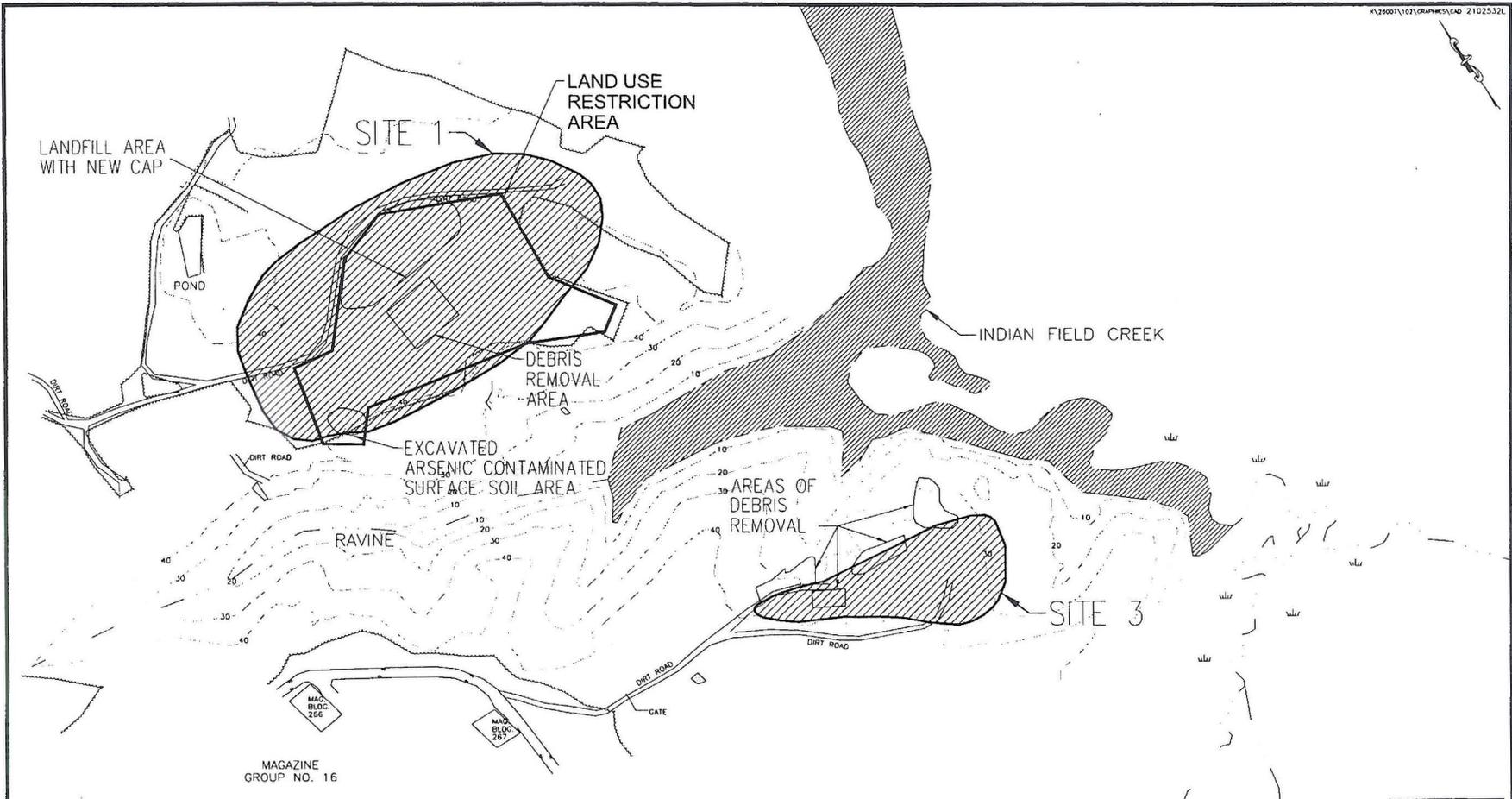
PARTICIPANT CODE: 524347

Attached is the draft agenda for NAS Oceana.

Mary, please forward the minutes/agenda for the joint meeting to the team prior to the call.

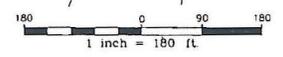
Have a great weekend!

Jayanti A. Sachdev, P.E.  
CH2M HILL/WDC  
Phone: 703-471-6405 x4355  
Fax: 703-471-1508



NOTES:

1. ELEVATIONS SHOWN WERE TAKEN FROM AN ALUMINUM RIVET LOCATED IN CONCRETE HEADWALL N. OF N. RD. TO AMMO OVERHAUL. BENCH MARK NUMBER MR-23 ELEVATION=44.11'
2. HORIZONTAL INFORMATION SHOWN WAS TAKEN FROM A DRAWING TITLED "HORIZONTAL SURVEYING CONTROL POINTS INDEX" BY TALBOT AND ASSOCIATES, LTD. CODE IDENT. NO. 80091 SHEET NUMBER 1-7.



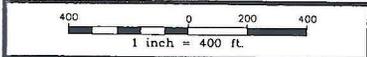
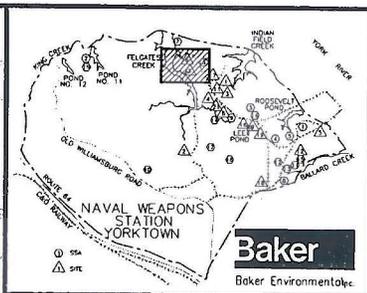
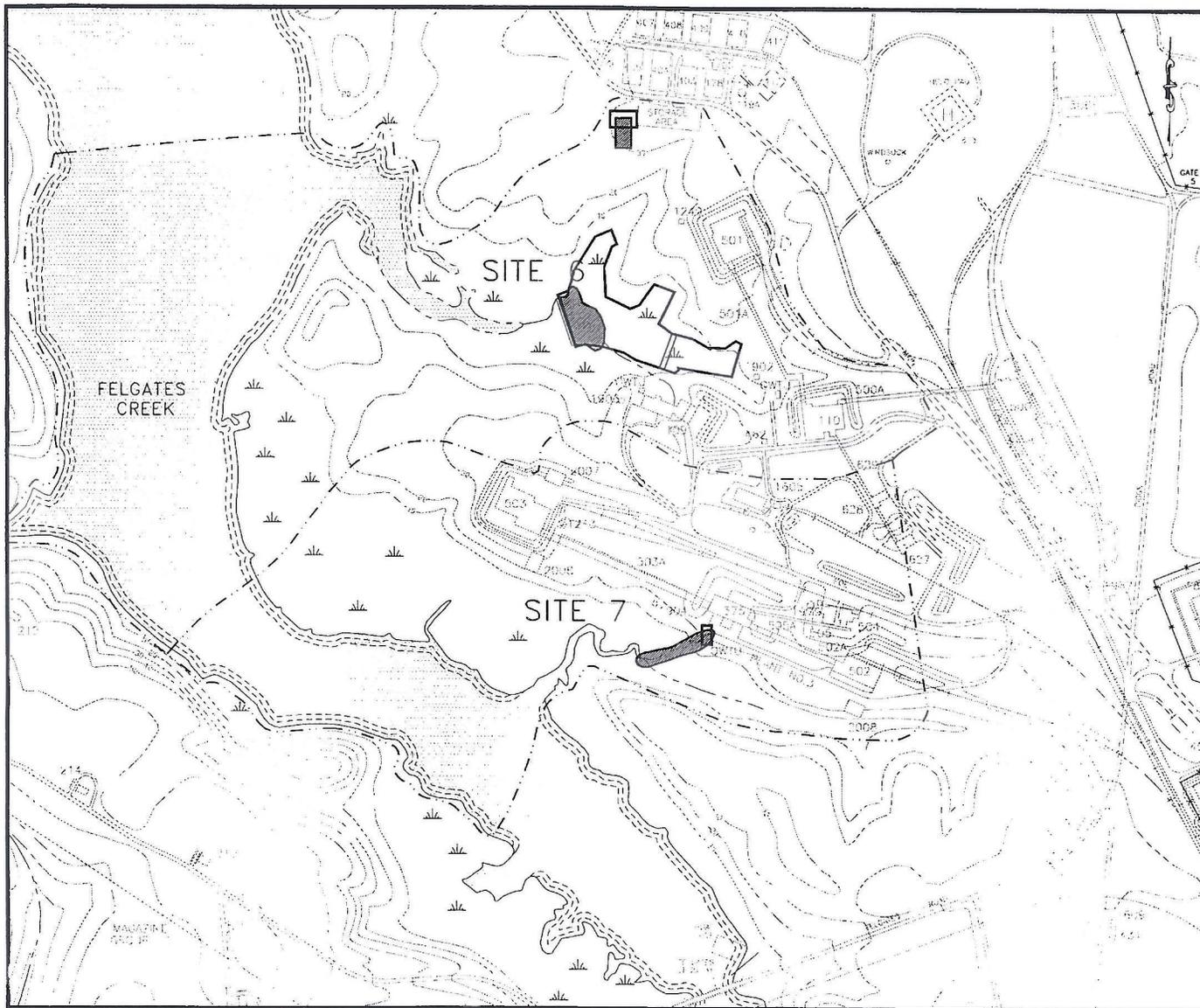
**Baker**  
Baker Environmental, Inc.

LEGEND	
	EDGE OF WATER
	TREELINE
	EDGE OF PAVEMENT
	BUILDING
	WETLANDS
	APPROXIMATE SITE BOUNDARY

SOURCE: PHR & A, AUGUST 1995.

LAND USE RESTRICTION FOR SITE 1

NAVAL WEAPONS STATION YORKTOWN  
YORKTOWN, VIRGINIA

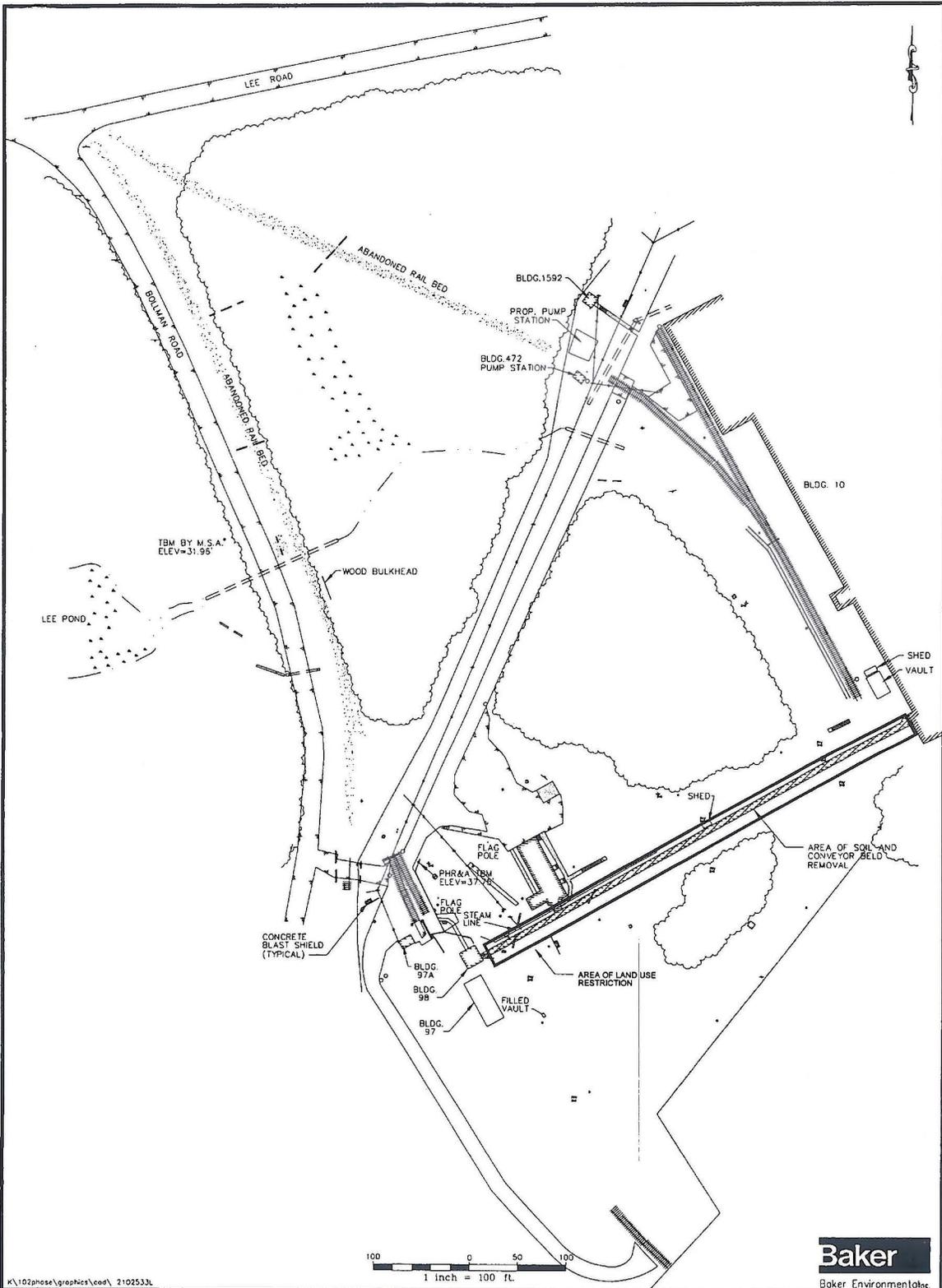


- DRAINAGE
- MARSH
- RAILROAD
- FENCE
- TREE LINE
- APPROXIMATE LIMIT OF STUDY AREA
- EDGE OF PAVEMENT
- STRUCTURE/BUILDING WITH NUMBER
- REMEDIAL INVESTIGATION AREA
- SURFACE WATER BODY
- GROUND SURFACE ELEVATION CONTOUR (FEET, ABOVE MEAN SEA LEVEL)
- PROHIBITED RESIDENTIAL USE AREA
- PROHIBITED ACTIVITIES AREA

© 1997 by Baker Environmental, Inc. 02102520K

LAND USE CONTROL OBJECTIVES SITES 6 AND 7

NAVAL WEAPONS STATION YORKTOWN YORKTOWN, VIRGINIA



K:\102phase\graphics\cad\ 2102533L

**LEGEND**

--- INTERMITTANT CREEK

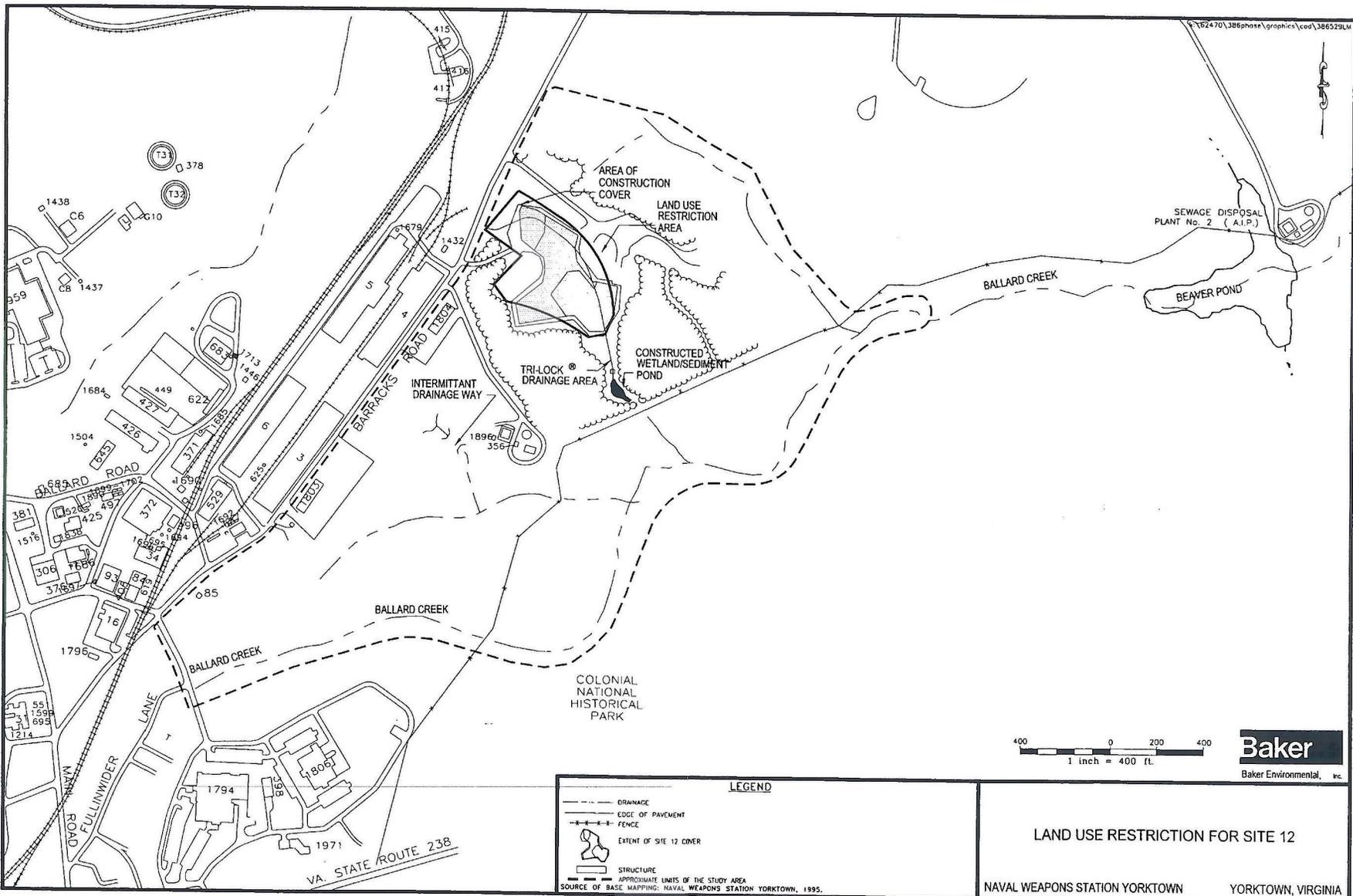
**LAND USE RESTRICTION FOR SITE 19**

SOURCE: PATTON, HARRIS, RUST & ASSOCIATES, 1995.

NAVAL WEAPONS STATION YORKTOWN

YORKTOWN, VIRGINIA

\\162470\386shore\graphics\cod\386529.LM



**LEGEND**

- DRAINAGE
- EDGE OF PAVEMENT
- FENCE
- EXTENT OF SITE 12 COVER
- STRUCTURE
- APPROXIMATE LIMITS OF THE STUDY AREA

SOURCE OF BASE MAPPING: NAVAL WEAPONS STATION YORKTOWN, 1995.

400 0 200 400  
1 inch = 400 ft.

**Baker**  
Baker Environmental, Inc.

**LAND USE RESTRICTION FOR SITE 12**

NAVAL WEAPONS STATION YORKTOWN YORKTOWN, VIRGINIA

## Mail Message



[Close](#)

[Previous](#)   [Next](#)   [Forward](#)   [Reply to Sender](#)   [Reply All](#)   [Move](#)   [Delete](#)   [Properties](#)

**From:** "Mary Mullen" <mmullen@mbakercorp.com>  
**To:** Don Joiner, gatedom.GWIA."harlowjc@pwcnorva.navy.mil"  
**Date:** Tuesday - November 27, 2001 4:52 PM  
**Subject:** Dec. 3, 4, & 5 Meeting Rooms  
 Mime.822 (1346 bytes) [View](#) [Save As](#)

Don & Jeff:  
Per my voice mails to you, the Marriott Courtyard meeting rooms were already booked. Lindsey Hicks at the Courtyard recommended the "full service" Marriott 1/4 mile away. I talked with Peter Travis at the Marriott (757-221-0700) this afternoon and reserved a meeting room for Dec. 3 & 5 (8:00 am to 5:30 pm) with morning and afternoon break/beverage service and Dec. 4 (8:00 am to 10 am).

He is sending a quote via e-mail to me Wednesday am. -

Mary

ATTACHMENT A.1  
 CONTRACT TASK ORDER 036  
 1997/1998 SITE MANAGEMENT PLAN  
 WPNSTA YORKTOWN, VIRGINIA

overhead July, 1999 ~~28~~ 28<sup>00</sup>  
 Dec 1998

Joyce Poland  
 4177

SUMMARY OF COST ESTIMATE

1. Total Direct Labor Cost (Reference to Attachment A.1)	\$ 16,138.96
2. Total Indirect Cost (Direct Labor Cost x 1.37)	\$ 22,110.38
3. Total Direct Labor and Indirect Costs (Lines 1+2)	\$ 38,249.34
4. Total ODCs- Including Equipment, excluding Subcontractors (Refer to Attachment A.3)	\$ 6,542.80
5. Award Fee (10% on Lines 3+4)	\$ 4,479.21
6. Travel Costs (Refer to Attachment A.2)	\$ 1,493.00
7. Total Costs, Including Subcontractors Less Award Fee (Lines 3+4+6)	\$ 46,285.14
8. Total Award Fee (Line 5)	\$ 4,479.21
9. Total CTO Cost (Lines 7+8)	\$ 50,764.35

ATTACHMENT A.1

CONTRACT TASK ORDER 036

1997/1998 SITE MANAGEMENT PLAN

WPNSTA YORKTOWN, VIRGINIA

ESTIMATED DIRECT LABOR COST AND PERSONNEL REQUIREMENTS

Baker Labor Category	Senior Review	Activity Coord.	Environmental Scientist	Draft Tech	Support Word Processor	Support Copying	Total Hours	Total Cost	
Task/Subtask Descriptions	CLEAN Classifications DL Rate: 1996	P-4 \$33.22	P-3 \$26.94	P-2 \$23.21	T-2 \$14.02	A-2 \$15.31	A-1 \$9.85		
Task 1 - Project Management - PP.PM			104	48		50	8	210	\$ -
Monthly Progress Meetings -PP.MG			40			10	5	55	\$ 4,760.14
Project Managers Meeting - PP.MG			14			2	1	17	\$ 1,279.95
Task 2 - SMP Development - SP.SP									\$ 417.63
Preliminary Draft-SP.SP.PD			80		24	8	4	116	\$ -
Draft - SP.SP.DR	4	24	40	7	2	1	74	74	\$ 2,653.56
Draft Final - SP.SP.DF	2	32	16	10	3	2	63	63	\$ 1,846.45
Final - SP.SP.FR	2	16	8	5	2	1	32	32	\$ 1,505.71
SMP Meeting - SP.MG		14			2	1	17	17	\$ 793.73
Photo Albums/Videos - SP.PV			104		2	2	108	108	\$ 417.63
									\$ 2,464.16
									\$ -
<b>Total Baker Hours</b>		8	324	216	46	81	25	692	
<b>Total Baker Direct Labor Cost</b>		\$ 265.76	\$ 8,728.56	\$ 5,013.36	\$ 644.92	\$ 1,240.11	\$ 246.25		\$ 16,138.96