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CNC CHARLESTON  
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LETTERS REGARDING SOUTH CAROLINA DEPARTMENT OF HEALTH AND  
ENVIRONMENTAL CONTROL APPROVAL OF WELL INSTALLATION AT FUEL  
DISTRIBUTION SYSTEM ZONES D, F, AND G CNC CHARLESTON SC

01/03/1997

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Commissioner: Douglas E. Bryant

Board: John H. Burriss, Chairman  
William M. Hull, Jr., MD, Vice Chairman  
Roger Leaks, Jr., Secretary

Promoting Health, Protecting the Environment

Richard E. Jabbour, DDS  
Cyndi C. Mosteller  
Brian K. Smith  
Rodney L. Grandy

Commander Paul Rose  
Officer In Charge, Caretakers Site Office  
Naval Facilities Engineering Command, Southern Division  
Building NH-45  
Charleston Naval Base  
Charleston, SC 29408-2020

Re: Monitoring Well Installation Request, dated December 13, 1996  
Fuel Distribution System, Zones D, F, G  
Charleston Naval Base  
Charleston County

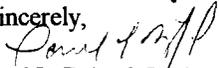
Date: January 3, 1997

Commander Rose:

Please find enclosed approval for the installation of approximately sixty-eight (68) monitoring wells along the fuel distribution system within the referenced RCRA zones. It is anticipated that all activities and reporting requirements will be conducted in accordance with the technical specifications and operating procedures provided in the RFI Comprehensive Sampling and Analysis Plan and Final Zones D, F, G Work Plan, as appropriate.

Should you have any questions please contact me at (803) 734-5328.

Sincerely,

  
Paul L. Bristol, Hydrogeologist  
Groundwater Assessment and Development Section  
Bureau of Water

cc: Trident District EQC  
Mr. Tony Hunt  
Department of the Navy  
Southern Division, Naval Facilities Engineering Command  
2155 Eagle Drive, P.O. Box 10068  
Charleston, SC 29411-0068

### Monitoring Well Installation Approval Form

Date of Issue: January 3, 1997

Approval No: 7825

Approval is hereby granted to: Department of the Navy  
(on behalf of): Charleston Naval Base  
GWPD Site #: 15405  
County: Charleston

This approval is for the construction of sixty-eight (68) monitoring wells designated (to be designated) in accordance with the construction plans and technical specifications submitted to the Department on August 30, 1994 and requested December 13, 1996. The well(s) are to be constructed within the surficial aquifer for the intended purpose of monitoring groundwater quality and/or water level(s) at the referenced facility. Approval is provided with the following conditions:

1. The latitude and longitude, surveyed elevations, boring and/or geologist logs and actual (as built) construction details for each well be submitted to Paul L. Bristol within thirty (30) days of completion (of last well(s) installed). (to be submitted with final report)
2. Each well shall be labeled with an identification plate constructed of a durable material affixed to the casing or surface pad where it is readily visible. The plate shall provide monitoring well I.D.#, date of construction, static water level, and driller name and state certification #.
3. Well construction and sampling derived waste including, but not necessarily limited to, drill cuttings, drilling fluids, development and purge water should be managed properly and in compliance with applicable requirements. If containerized, each vessel should be clearly labeled with regard to contents, source, and date of activity.
4. A minimum of forty-eight (48) hours prior to initiation of drilling activities, please provide notice to Trident District EQC Office (803-740-1590).
5. Please provide ground-water quality analytical data (chemical analysis and/or water level(s)) associated measurements (i.e., in-situ field measurements) to Paul L. Bristol within thirty (30) days of receipt from laboratory. (to be submitted with final report)
6. Monitoring wells shall be installed by a well driller certified by the State of South Carolina.

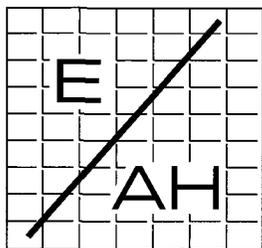
This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and the Department of Health and Environmental Control Regulations R.61-71.

Approved by:



Paul L. Bristol, Hydrogeologist, P.G.  
Groundwater Assessment & Development Section  
Bureau of Water

cc: Trident District EQC



# EnSafe / Allen & Hoshall

a joint venture for professional services

## Program Management Office

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5909 Shelby Oaks Dr.  
Suite 201  
Memphis, TN 38134  
Phone (901) 383-9115  
Fax (901) 383-1743

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Fax (804) 766-9558

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Phone (919) 851-1886  
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Phone (615) 399-8800  
Fax (615) 399-7467

**Dallas**  
4545 Fuller Drive  
Suite 326  
Irving, TX 75038  
Phone (214) 791-3222  
Fax (214) 791-0405

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Lo 1.6.97  
Lo 1.6.97  
PLUM

RECEIVED

DEC 18 1996

RECEIVED

DEC 27 1996

Groundwater Assessment and Development Section

December 13, 1996

Mr. Paul Bergstrand  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, SC 29201

RE: Request for Approval of Monitoring Well Permits for the Fuel Distribution System, Naval Base Charleston, Charleston, South Carolina

Dear Mr. Bergstrand:

This letter serves as a request to SCDHEC to issue well permits for approximately 68 shallow monitoring wells. In accordance with the Final Zones D, F, and G Work Plan, monitoring wells will be installed at the 17 locations where elevated Total Petroleum Hydrocarbons have been detected during screening along the Fuel Distribution System. Four groundwater samples will be collected at an approximate 20-foot radius in each direction surrounding the 17 locations identified in the screening. The well depths are anticipated to range from 10 to 20 feet below level surface depending on the depth to groundwater, TPH soil contamination, and the fuel pipeline. The well borings will be drilled using hollow stem auger methods. Well construction materials and methods will conform to the CSAP.

This submittal fulfills the requirements for notification to SCDHEC as stated in the *South Carolina Well Standards and Regulations Document R.61-71*. The DPT subcontractor is tentatively scheduled to initiate drilling activities on Monday, January 6, 1997.

Mr. Paul Bergstrand  
December 13, 1996  
Page Two

If you have any questions, comments or need additional information, please do not hesitate to call me or Amy Stehlin at (904) 479-4595 or onsite at NAVBASE Charleston (803) 747-0336. We look forward to hearing from you on this matter. Thank you for your assistance.

Sincerely,

EnSafe/Allen & Hoshall

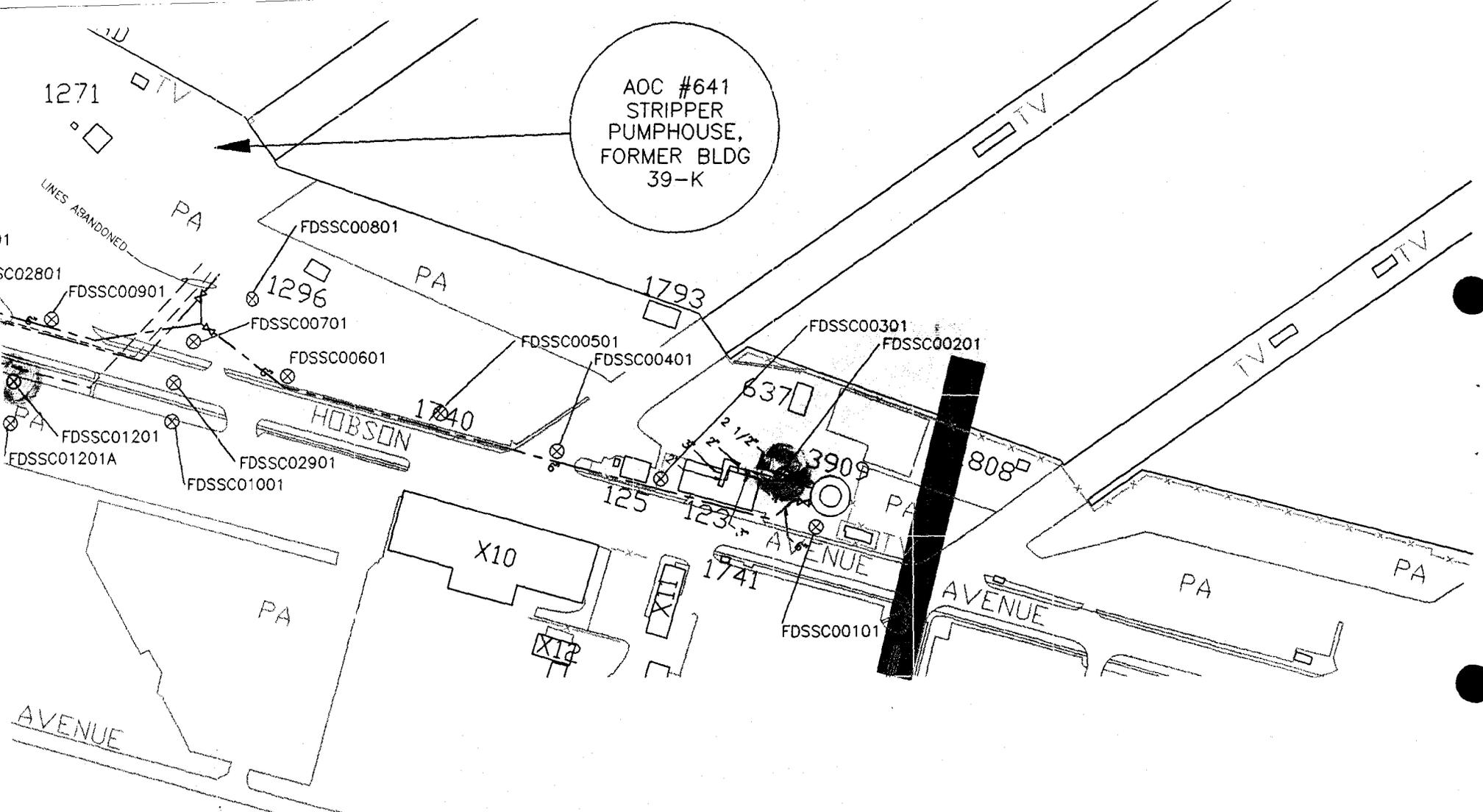
*PB Hardy for*

By: Craig R. Smith  
Task Order Manager

Enclosure

cc: Todd Haverkost, SCSafe  
Tony Hunt, SOUTHDIV  
Doyle Brittain, USEPA Region IV  
CTO-2907, file

AOC #641  
STRIPPER  
PUMPHOUSE,  
FORMER BLDG  
39-K



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SCALE FEET

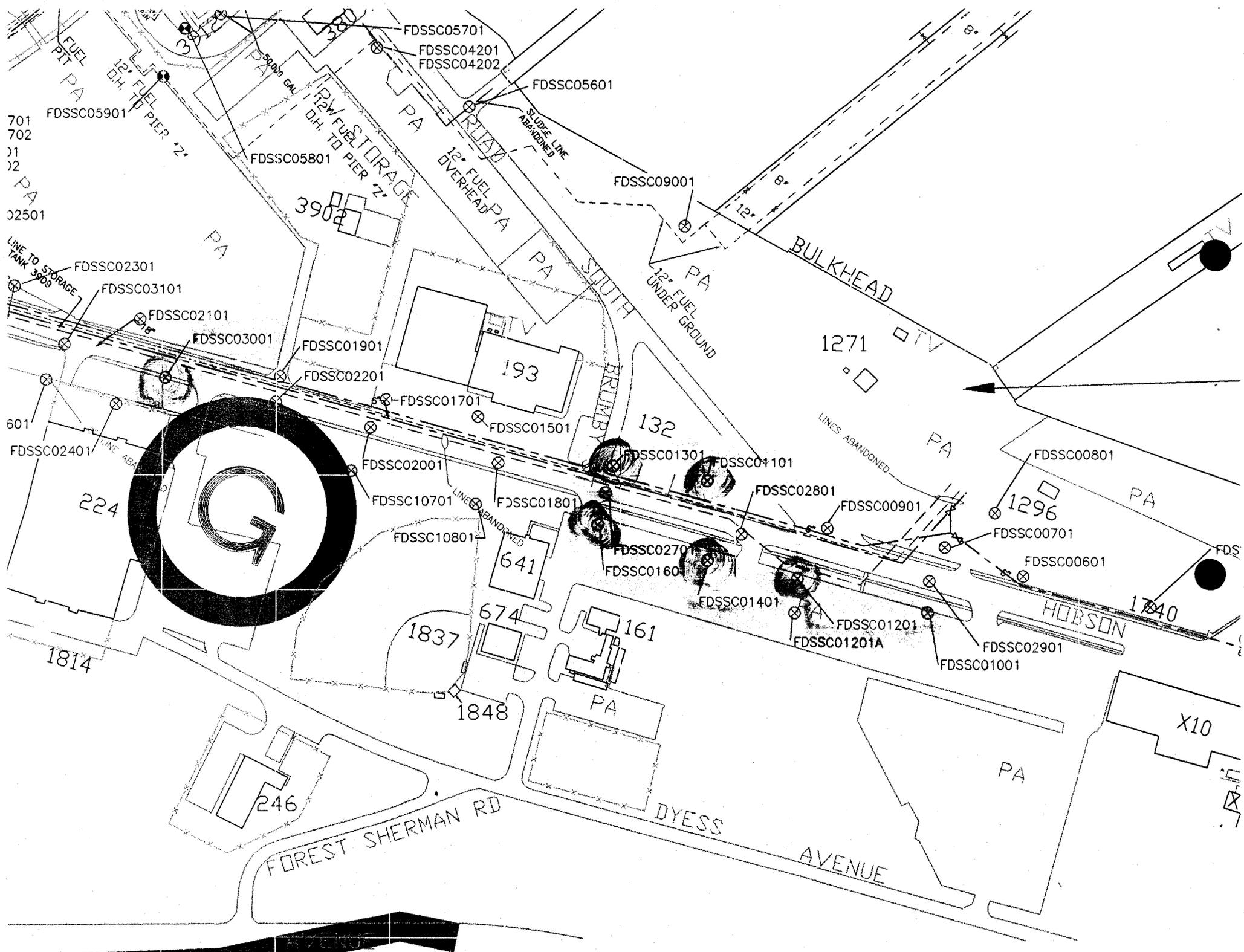


ZONES F, & G  
RCRA FACILITY INVESTIGATION  
60% PROGRESS MEETING  
NAVAL BASE CHARLESTON  
CHARLESTON, S.C.

SAMPLING LOCATIONS  
FUEL DISTRIBUTION SYSTEM

REVISION	
Rev Date:00/00/00	Rev By: NAME
Rev Date:00/00/00	Rev By: NAME
Rev Date:00/00/00	Rev By: NAME
Rev Date:08/12/96	Rev By: E.ROGERS
Rev Date:06/06/96	Rev By: E.ROGERS

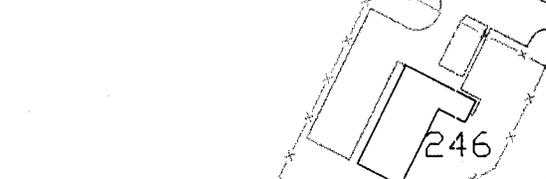
Dr by: E. ROGERS	Tr by: NAME
Ck by: E. EATON	App by: T. HAVERKOST
Date: 11/26/96	DWG. No: 207110505



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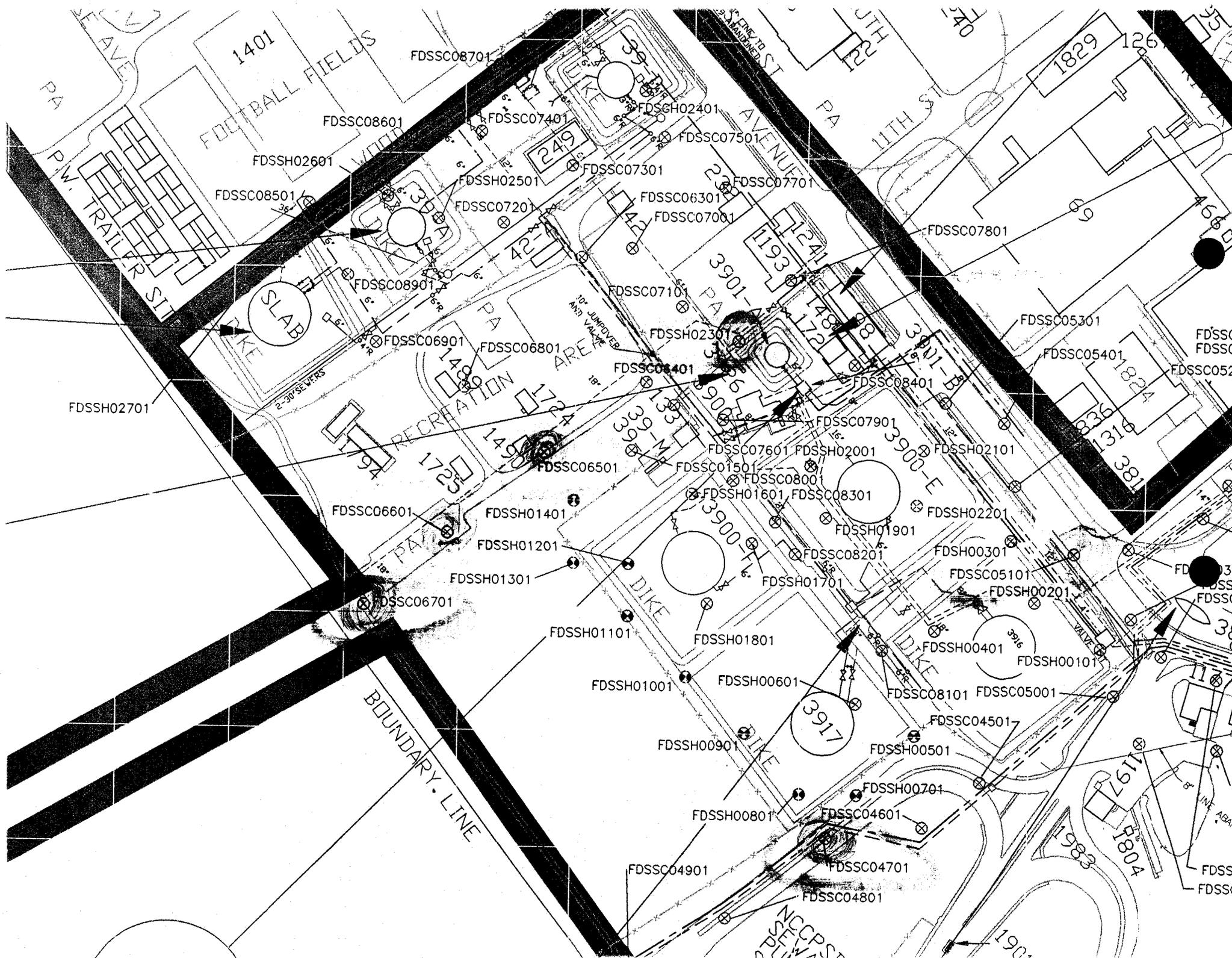
601

1814



X10





1401

FOOTBALL FIELDS

FDSSC08701

FDSSC08601

FDSSH02601

FDSSC08501

FDSSC07401

FDSSGH02401

FDSSC07501

FDSSH02501

FDSSC07301

FDSSC07701

FDSSC07201

FDSSC06301

FDSSC07001

FDSSC07801

SLAB

FDSSC08901

FDSSC06901

FDSSC06801

FDSSC07101

FDSSH02301

FDSSC06401

FDSSC08401

FDSSC05301

FDSSC05401

FDSSC

FDSSC052

FDSSH02701

RECREATION AREA

10' JUMPYER AND VAULT

FDSSC06501

FDSSC07601

FDSSH02001

FDSSH02101

FDSSC01501

FDSSC08001

FDSSH01601

FDSSC08301

FDSSC06601

FDSSH01401

FDSSH02201

FDSSH01201

FDSSC08201

FDSH00301

FDSSH01301

FDSSH01701

FDSSC05101

FDSSC06701

FDSSH00201

FDSSH01101

FDSSH01801

FDSSH00401

FDSSH00101

FDSSH01001

FDSSH00601

FDSSC08101

FDSSC05001

FDSSH00901

FDSSH00501

FDSSC04501

BOUNDARY LINE

FDSSH00701

FDSSH00801

FDSSC04601

FDSSC04901

FDSSC04701

FDSSC04801

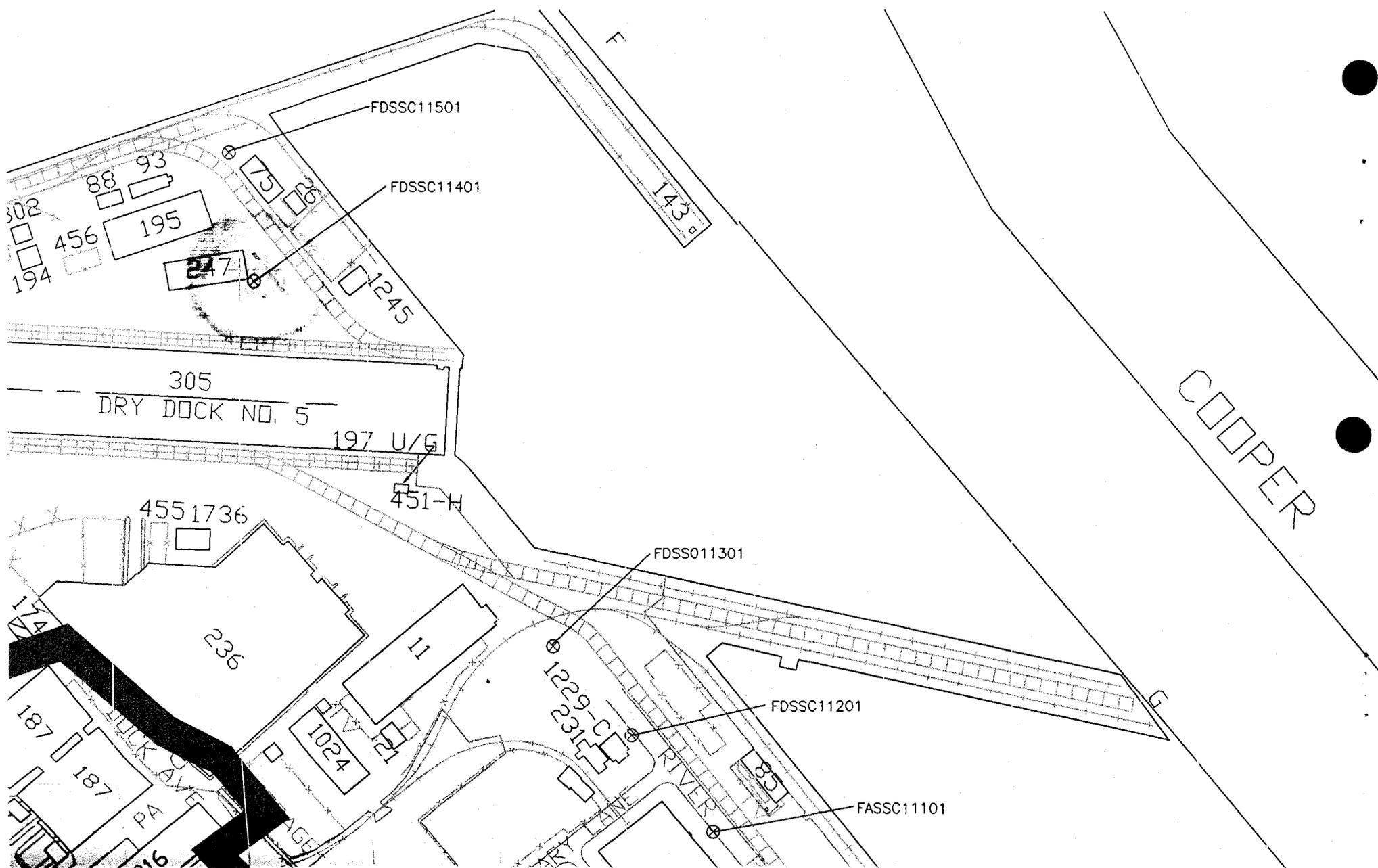
1983

1804

FDSS

FDSSC





**Commissioner:** Douglas E. Bryant

**Board:** John H. Burriss, Chairman  
William M. Hull, Jr., MD, Vice Chairman  
Roger Leaks, Jr., Secretary

*Promoting Health, Protecting the Environment*

Richard E. Jabbour, DDS  
Cyndi C. Mosteller  
Brian K. Smith  
Rodney L. Grandy

fl

Commander Paul Rose  
Officer In Charge, Caretakers Site Office  
Naval Facilities Engineering Command, Southern Division  
Building NH-45  
Charleston Naval Base  
Charleston, SC 29408-2020

Date: December 10, 1996

Commander Rose:

Please find enclosed monitoring well approval issued by Mr. Paul Bergstrand for Zone DFG. The author concurred with the approval and transmitted same via facsimile November 27, 1996, to Environmental and Safety Designs, Inc.

Should you have any questions please contact me at (803) 734-5328.

Sincerely,  
  
Paul L. Bristol, Hydrogeologist  
Groundwater Assessment and Development Section  
Bureau of Water



Commissioner: Douglas E. Bryant

Board: John H. Burriss, Chairman  
William M. Hull, Jr., MD, Vice Chairman  
Roger Leaks, Jr., Secretary

Promoting Health, Protecting the Environment

Richard E. Jabbour, DDS  
Cyndi C. Mosteller  
Brian K. Smith  
Rodney L. Grandy

Handwritten initials in the top right corner of the page.

Mr. Craig R. Smith  
Environmental and Safety Design  
2114 Airport Boulevard  
Pensacola, FL 32504

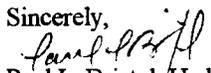
Re: Monitoring Well Request, dated November 18, 1996  
Charleston Naval Base Zone DFG  
SC0-170-022-560  
Charleston County

Date: December 10, 1996

Dear Mr. Smith:

Please find enclosed a copy of the monitoring well approval previously transmitted to you via facsimile on November 27, 1996. Future requests for investigative activities associated with petroleum hydrocarbon releases at Naval Base Charleston should be directed to my attention at the Bureau of Water.

Should you have any questions please contact me at (803) 734-5328.

Sincerely,  
  
Paul L. Bristol, Hydrogeologist  
Groundwater Assessment and Development Section  
Bureau of Water

cc: Trident District EQC

FAX MESSAGE

TO: Craig Smith

En-Safe  
ORGANIZATION

904-479-4595 9120                      904-479-4595  
FAX NUMBER                                      PHONE NUMBER

FROM: Paul C. Bristol

SC DHEC  
ORGANIZATION

(803) 734-4661                                      (803) 734-5300  
FAX NUMBER                                      PHONE NUMBER

SUBJECT/COMMENTS: Due to time constraints - I will utilize P. Bergstrom's  
MW - approval - I will follow with additional comments/recommendations  
the week of December 2 1996 - Reports and data this investigation should  
be forwarded to my attention - I look forward to working with you  
and staff of En Safe

Paul

DRINKING WATER PROT

(AUTO)

THE FOLLOWING FILE(S) ERASED

FILE	FILE TYPE	OPTION	TEL NO.	PAGE	RESULT
053	TRANSMISSION		919044799120	03	OK

ERRORS

- 1) HANG UP OR LINE FAIL    2) BUSY    3) NO ANSWER    4) NO FACSIMILE CONNECTION

18 November 1996

**CERTIFIED MAIL**

Commander Paul Rose  
Officer In Charge, Caretakers Site Office  
Naval Facilities Engineering Command, Southern Division  
Building NH-45  
Charleston Naval Base  
Charleston, SC 29408-2020

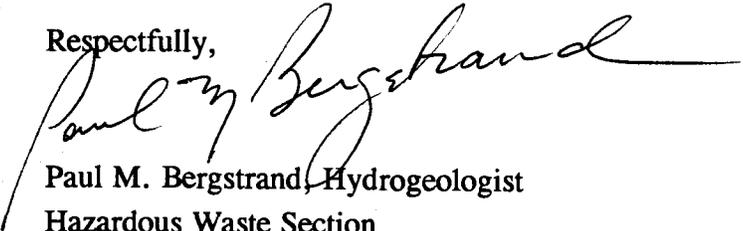
RE: Zone DFG Monitoring Well Request, Dated 18 November 1996 (Smith to Bergstrand)  
Naval Base Charleston  
Charleston County  
SC0-170-022-560

Commander Rose :

The above referenced request has been reviewed with respect to R.61-79.265 Subpart F of the South Carolina Hazardous Waste Management Regulations and R.61-71 of the South Carolina Well Standards and Regulations. This request is for the installation of up to fifty temporary monitoring wells to assess potential contamination of the surficial aquifer. The deepest monitoring wells are anticipated to be completed to approximately 15 feet.

Attached, please find a Monitoring Well Approval Form and a copy of the proposed well locations. A copy of this monitor well approval form should be on site during drilling operations. Additional assessment may be required at these locations. Should there be any questions, please contact me at 803-896-4016.

Respectfully,

  
Paul M. Bergstrand, Hydrogeologist  
Hazardous Waste Section  
Division of Hydrogeology  
Bureau of Solid and Hazardous Waste

DD961081.PMB

## Monitoring Well Installation Approval

Approval is hereby granted to Commander Paul Rose: for

Zone DFG, per enclosed Maps  
Charleston Naval Shipyard/Base  
Charleston County  
RCRA Permit # SC0-170-022-560

for the construction of up to fifty temporary monitoring wells designated in accordance with the construction plans and specifications submitted to the Department on 20 November 1996 (Smith to Bergstrand).

The wells will be constructed within the surficial aquifer to the approximate depth of 15 feet below the surface and screened for the purpose of monitoring aquifer conditions.

### Conditions:

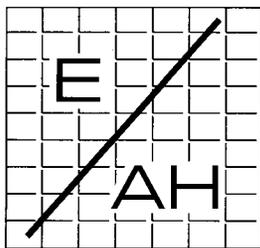
1. A driller certified to operate in the State of South Carolina must install the monitoring wells.
2. The driller's certification number, the latitude and longitude and the actual construction details for each well be submitted with the report of laboratory findings.
3. Submit a record of field parameter measurements with the well construction details.
4. All drill cuttings from the boreholes and purge water from well development must be contained. The containerized materials must be analyzed for disposal utilizing the same methods as the samples.
5. Contact Christine Sanford-Coker, Trident District EQC Hydrogeologist, during normal business hours at (803) 740-1590 at least 48 hours before installation of the wells.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and the Department of Health and Environmental Control Well Standards and Regulations, R.61-71.

Date of Issue: 21 November 1996

Approval Number: HW-96-0092

  
Paul M. Bergstrand, Hydrologist  
Hazardous Waste Section  
Division of Hydrogeology  
Bureau of Solid and Hazardous Waste



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L 12.10.96  
L 12.10.96  
PLM

## Program Management Office

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Fax (615) 399-7467

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4545 Fuller Drive  
Suite 326  
Irving, TX 75038  
Phone (214) 791-3222  
Fax (214) 791-0405

# RECEIVED

NOV 26 1996

Groundwater Assessment  
and Development Section

November 21, 1996

Mr. Paul Bristol  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, SC 29201

RE: Request for Approval of Temporary Well Point Permits for the Fuel Distribution System, Naval Base Charleston, Charleston, South Carolina

Dear Mr. Bristol:

This letter serves as a request to SCDHEC to issue well permits for approximately 56 temporary well points. In accordance with the Final Zones D, F, and G Work Plan, groundwater samples will be collected at 14 locations where elevated Total Petroleum Hydrocarbons have been detected during screening along the Fuel Distribution System. The samples will be collected using direct push technology (DPT). Zone G will have approximately 44 points. Zone F will have approximately 8 points and Zone E will have approximately 4 points. Four groundwater samples will be collected at an approximate 20-foot radius in each direction surrounding the 14 locations identified in the screening. The sample depths are anticipated to range from 4 to 15 feet below level surface depending on the depth to groundwater, TPH soil contamination, and the fuel pipeline.

This submittal fulfills the requirements for notification to SCDHEC as stated in the *South Carolina Well Standards and Regulations Document R.61-71*. The DPT subcontractor is tentatively scheduled to initiate drilling activities on Tuesday, December 3, 1996.

Mr. Paul Bristol  
November 21, 1996  
Page Two

If you have any questions, comments or need additional information, please do not hesitate to call me at (904) 479-4595 or Mr. Levin Ham (803) 884-0029 or onsite at NAVBASE Charleston (803) 747-0336. We look forward to hearing from you on this matter.

Sincerely,

EnSafe/Allen & Hoshall

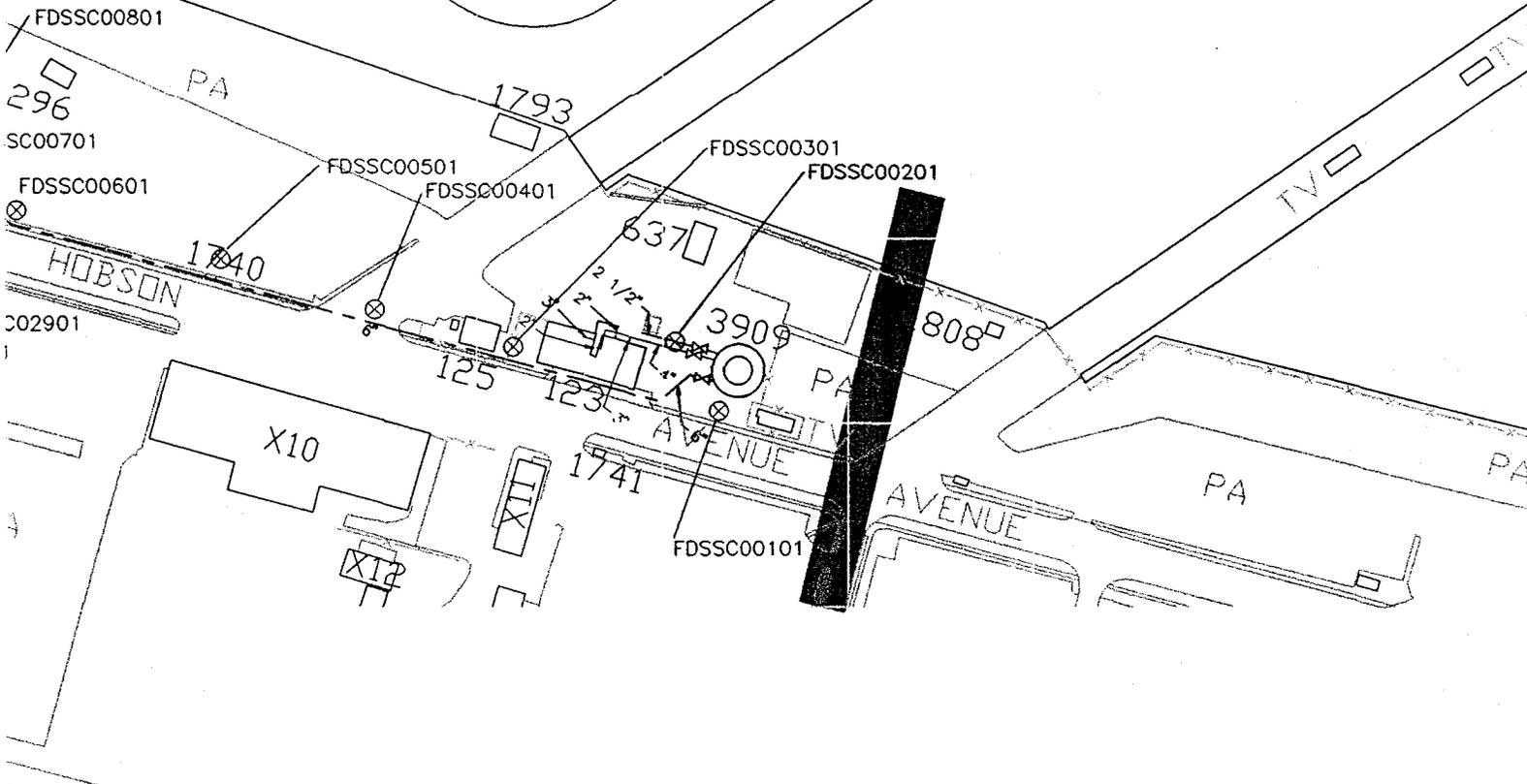


By: Craig R. Smith  
Task Order Manager

Enclosure

cc: Todd Haverkost, SCSafe  
Tony Hunt, SOUTHDIV  
Doyle Brittain, USEPA Region IV  
CTO-2907, file

AOC #641  
STRIPPER  
PUMPHOUSE,  
FORMER BLDG  
39-K



200  
FEET

Rev By: NAME
Rev By: NAME
Rev By: NAME
Rev By: E.ROGERS

*CORRECT AS  
OF 10/23  
(TALKED W/ SJP REGARDING  
60, 61, 62 MESS UP)*



ZONES D, F, & G  
RCRA FACILITY INVESTIGATION  
30% PROGRESS MEETING  
NAVAL BASE CHARLESTON  
CHARLESTON, S.C.

SCREENING SAMPLE PROGRESS  
FUEL DISTRIBUTION SYSTEM

Dr by: E. ROGERS	Tr by: NAME
Ck by: E. EATON	App by: T. HAVERKOST
Date: 10/04/96	DWG Name: 297NDFG5

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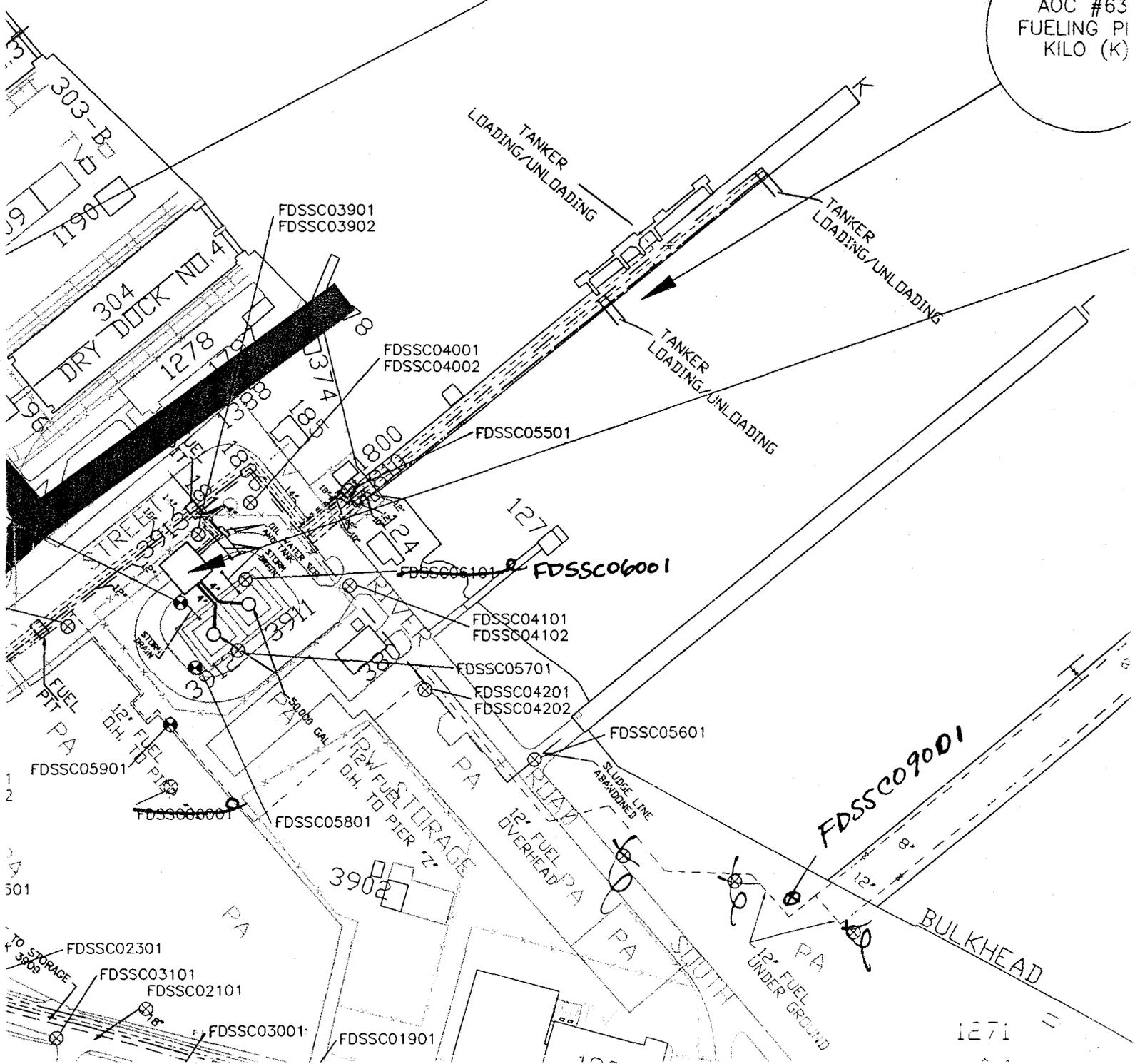
BOOSTER PUMPHOUSE

EBB

CENTRAL

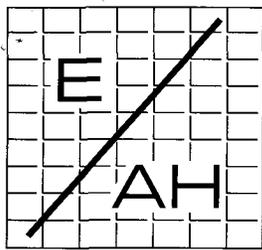
AOC #623  
CONCRETE  
TANK  
BUILDING 98

AOC #63  
FUELING PI  
KILO (K)









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NOV 20 1996

HYDROGEOLOGY

**Program  
Management  
Office**

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Phone (901) 383-9115  
Fax (901) 383-1743

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Fax (919) 851-4043

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Phone (214) 791-3222  
Fax (214) 791-0405

November 18, 1996

Mr. Paul Bergstrand  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, SC 29201

HW-96-0092

DD 961081.PMB

TRACKED AS MWAPP. 21 NOV 96

RE: Request for Approval of Temporary Well Point Permits for the Fuel Distribution System, Naval Base Charleston, Charleston, South Carolina

Dear Mr. Bergstrand:

This letter serves as a request to SCDHEC to issue well permits for approximately 56 temporary well points. In accordance with the Final Zones D, F, and G Work Plan, groundwater samples will be collected at 14 locations where elevated Total Petroleum Hydrocarbons have been detected during screening along the Fuel Distribution System. The samples will be collected using direct push technology (DPT). Zone G will have approximately 44 points. Zone F will have approximately 8 points and Zone E will have approximately 4 points. Four groundwater samples will be collected at an approximate 20-foot radius in each direction surrounding the 14 locations identified in the screening. The sample depths are anticipated to range from 4 to 15 feet below level surface depending on the depth to groundwater, TPH soil contamination, and the fuel pipeline.

This submittal fulfills the requirements for notification to SCDHEC as stated in the *South Carolina Well Standards and Regulations Document R.61-71*. The DPT subcontractor is tentatively scheduled to initiate drilling activities on Tuesday, December 3, 1996.

to lab - VOC  
SUOC  
Perst  
Perst  
met.

Mr. Paul Bergstrand  
November 18, 1996  
Page Two

If you have any questions, comments or need additional information, please do not hesitate to call me at (904) 479-4595 or Mr. Levin Ham (803) 884-0029 or onsite at NAVBASE Charleston (803) 747-0336. We look forward to hearing from you on this matter.

Sincerely,

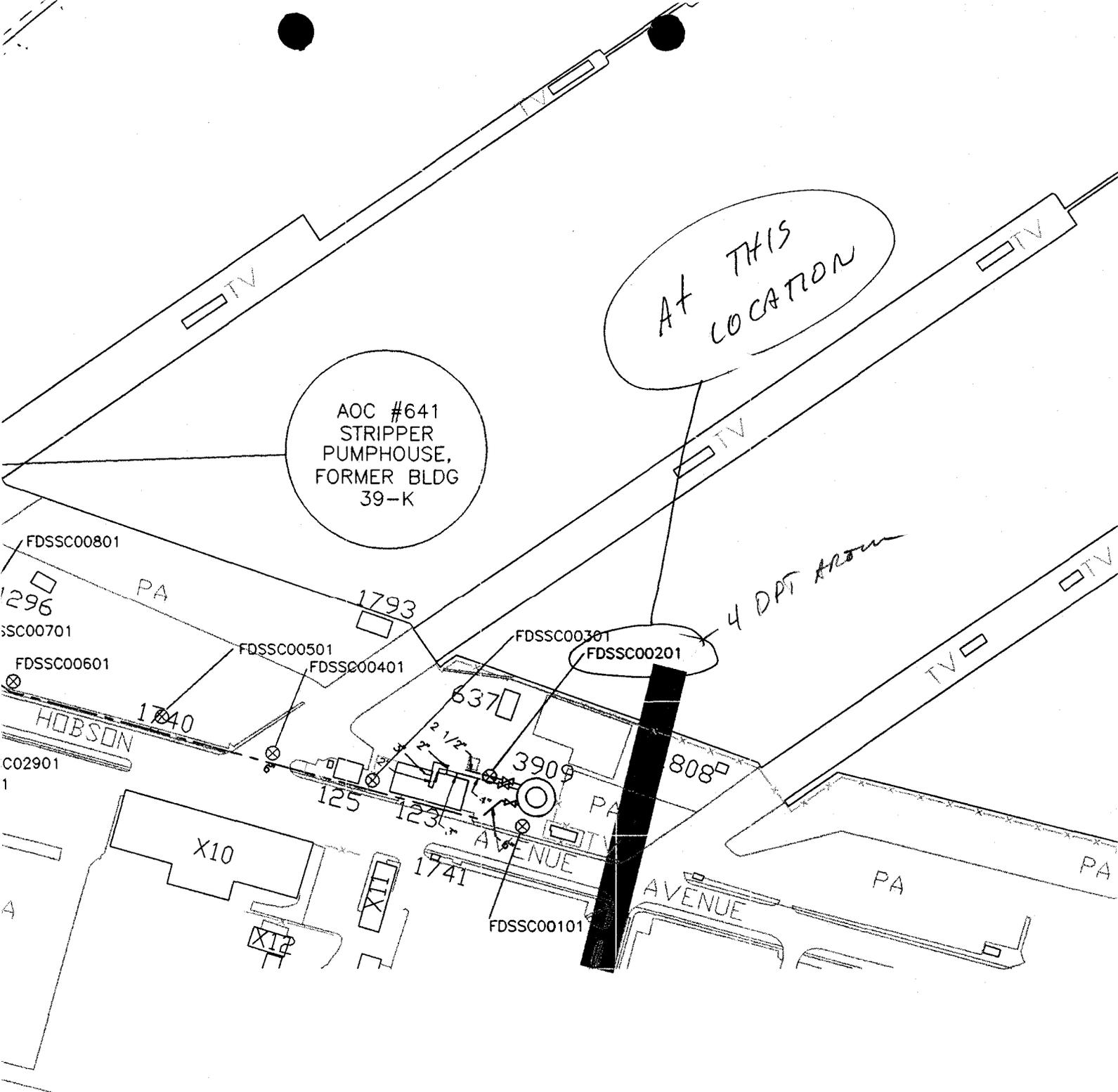
EnSafe/Allen & Hoshall



By: Craig R. Smith  
Task Order Manager

Enclosure

cc: Todd Haverkost, SCSafe  
Tony Hunt, SOUTHDIV  
Doyle Brittain, USEPA Region IV  
CTO-2907, file



200  
FEET

Rev By: NAME
Rev By: NAME
Rev By: NAME
Rev By: E.ROGERS

*CORRECT AS OF 10/23 (TALKED W/ SUP REGARDING 60, 61, 62 MESS UP)*



ZONES D, F, & G  
RCRA FACILITY INVESTIGATION  
30% PROGRESS MEETING  
NAVAL BASE CHARLESTON  
CHARLESTON, S.C.

SCREENING SAMPLE PROGRESS  
FUEL DISTRIBUTION SYSTEM

Dr by: E. ROGERS	Tr by: NAME
Ck by: E. EATON	App by: T. HAVERKOST
Date: 10/04/96	DWG Name: 297NDFG5

She  
Of



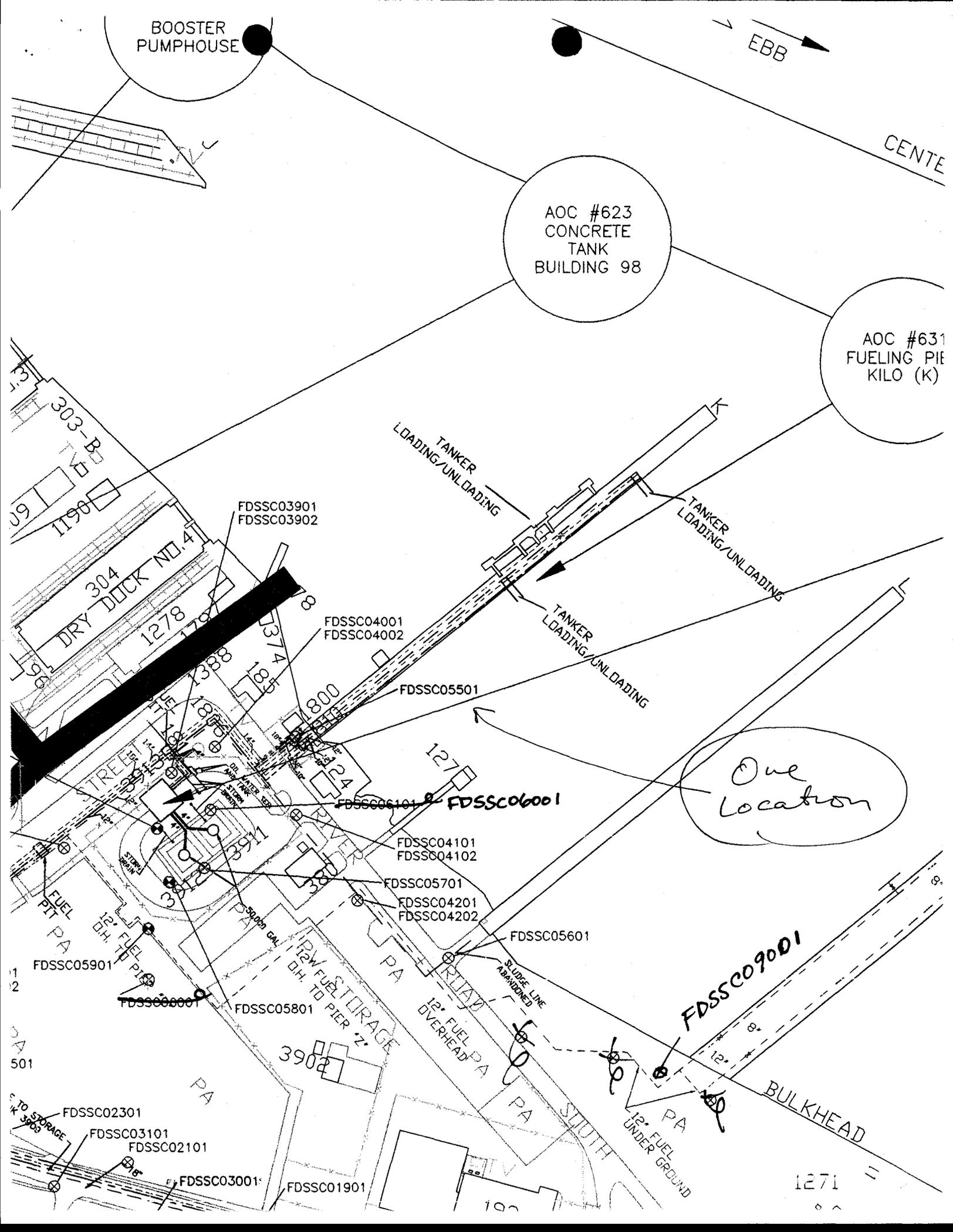
BOOSTER PUMPHOUSE

EBB

CENTE

AOC #623  
CONCRETE  
TANK  
BUILDING 98

AOC #631  
FUELING PIER  
KILO (K)

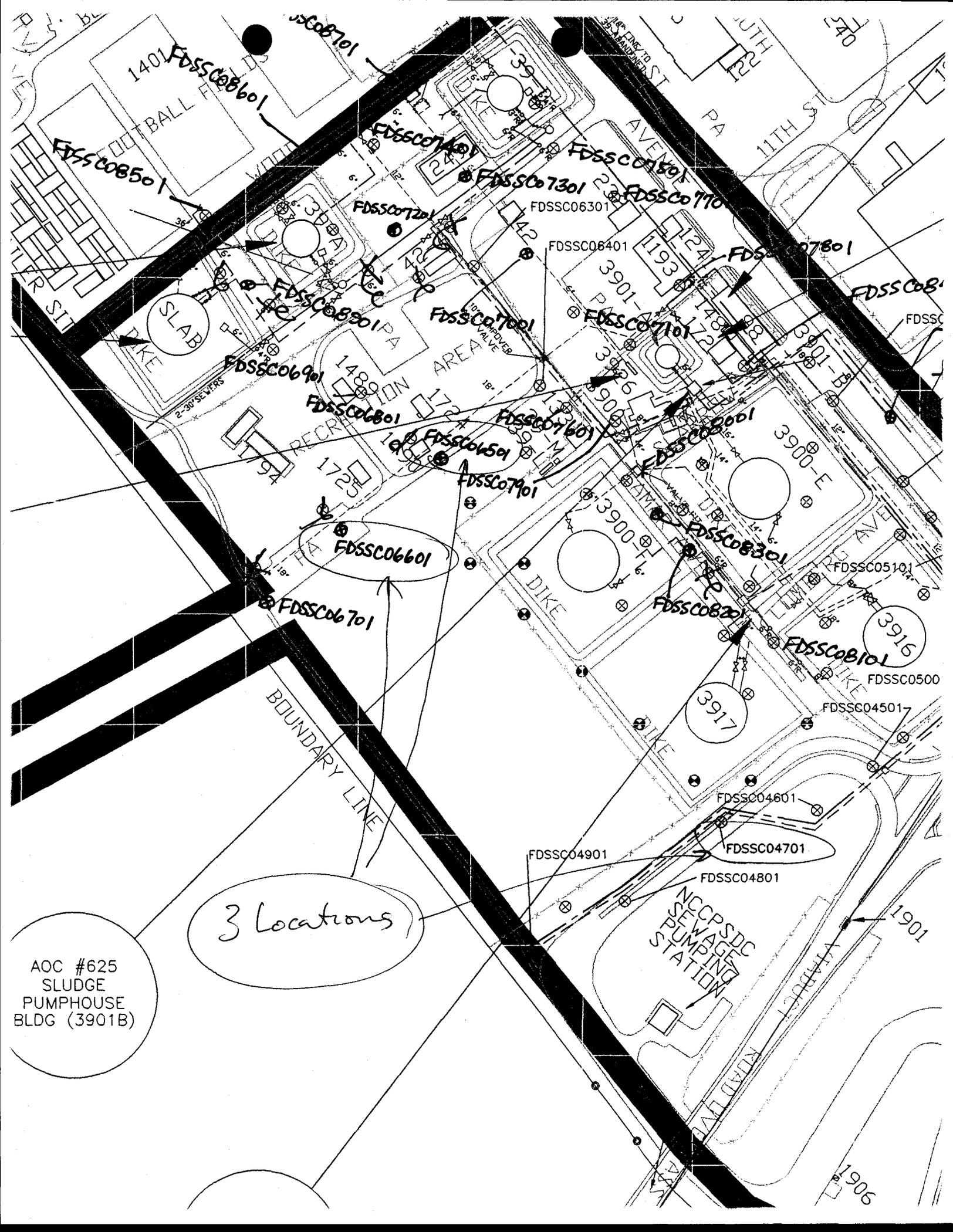


One Location

FDSSC09001

BULKHEAD

1271



1401 FDSS08601

FDSS08501

SLAB

FDSS06901

FDSS06801

FDSS06601

FDSS06701

3 Locations

AOC #625  
SLUDGE  
PUMPHOUSE  
BLDG (3901B)

BOUNDARY LINE

NCCP SDC  
SEWAGE  
PUMPING  
STATION

FDSS04901

FDSS04601

FDSS04701

FDSS04801

FDSS04501

FDSS05101

3916

3917

3900-E

3900-T-6

3906

3901

3901

FDSS06301

FDSS06401

FDSS06701

FDSS07101

FDSS07101

FDSS07601

FDSS06501

FDSS07201

FDSS07301

FDSS07701

FDSS07801

FDSS08101

FDSS08201

FDSS08201

FDSS08301

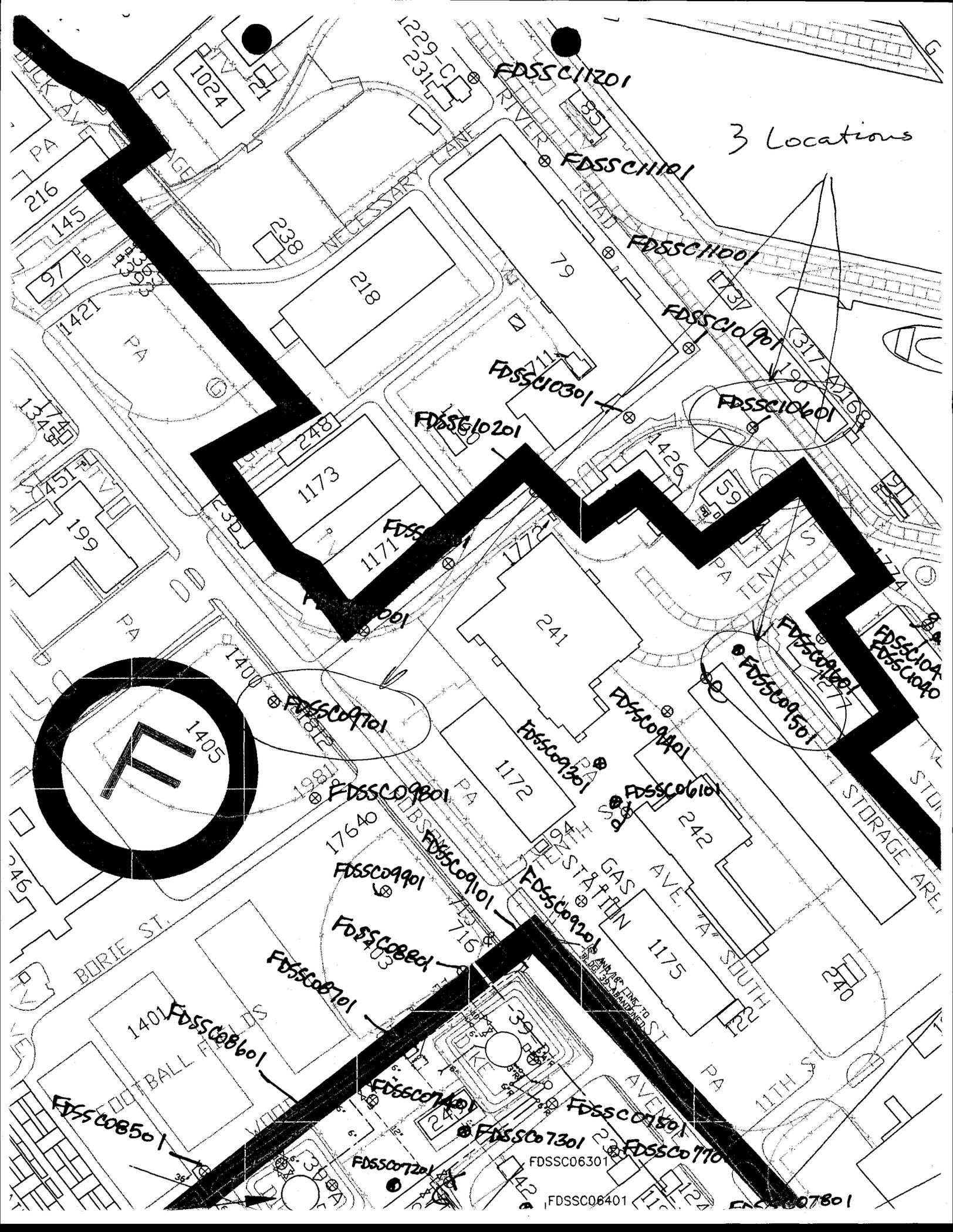
FDSS08101

FDSS0500

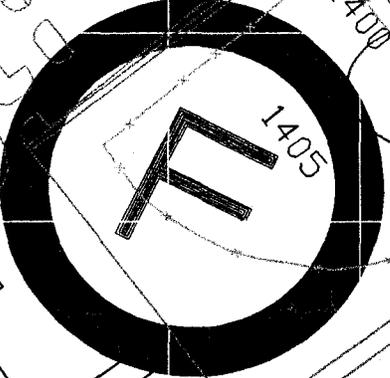
FDSS04501

1901

1906



3 Locations



FDSSC11201

FDSSC11101

FDSSC11001

FDSSC10901

FDSSC10601

FDSSC10201

FDSSC10301

FDSSC10001

FDSSC10001

FDSSC10001

FDSSC09501

FDSSC09701

FDSSC09801

FDSSC09301

FDSSC09401

FDSSC06101

FDSSC09901

FDSSC09101

FDSSC09201

FDSSC08201

FDSSC08701

FDSSC08601

FDSSC08501

FDSSC07401

FDSSC07301

FDSSC07801

FDSSC07701

FDSSC07201

FDSSC06301

FDSSC06401

FDSSC07801

ENV SAFE

ENVIRONMENTAL AND SAFETY DESIGNS, INC.

FAX

2114 Airport Blvd., Suite 1150  
Pensacola, FL 32504

Phone 904-479-4595  
Fax 904-479-9120

To:	From:	Date:
PAUL Bristol	CRAIG Smith	

Fax to number: (803) 734-4661

Number of pages: 8

Remarks:

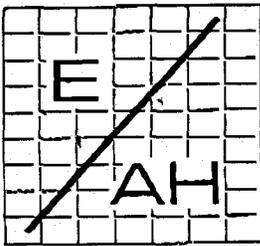
Paul,  
We just spoke with Paul Bergstrand who  
led us to forward all Well Permit Requests to you.  
This request is for temporary well points (CPT) along  
the East Distribution system at CNSY. Please  
feel free to contact us should you have any questions or  
require additional information.

The hard copy of this request is also being sent.

Thank you for your continued support.

Sincerely,

CRAIG R. Smith



# EnSafe / Allen & Hoshall

a joint venture for professional services

## Program Management Office

Shelby Oaks Plaza  
5909 Shelby Oaks Dr.  
Suite 201  
Memphis, TN 38134  
Phone (901) 383-9115  
Fax (901) 383-1743

## EnSafe/Allen & Hoshall Branch Offices:

Charleston  
935 Houston Northcutt Blvd.  
Suite 113  
Mt. Pleasant, SC 29464  
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Fax (803) 856-0107

Cincinnati  
400 TechnoCenter Dr.  
Suite 301  
Milford, OH 45150  
Phone (513) 248-8449  
Fax (513) 248-8447

Pensacola  
2114 Airport Blvd.  
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Hampton, VA 23666  
Phone (804) 766-9556  
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Raleigh  
5540 Centerview Drive  
Suite 205  
Raleigh, NC 27606  
Phone (919) 851-1886  
Fax (919) 851-4043

Nashville  
311 Plus Park Blvd.  
Suite 130  
Nashville, TN 37217  
Phone (615) 399-8800  
Fax (615) 399-7467

Dallas  
4545 Fuller Drive  
Suite 326  
Irving, TX 75038  
Phone (214) 791-3222  
Fax (214) 791-4405

November 21, 1996

Mr. Paul Bristol  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, SC 29201

RE: Request for Approval of Temporary Well Point Permits for the Fuel  
Distribution System, Naval Base Charleston, Charleston, South Carolina

Dear Mr. Bristol:

This letter serves as a request to SCDHEC to issue well permits for approximately 56 temporary well points. In accordance with the Final Zones D, F, and G Work Plan, groundwater samples will be collected at 14 locations where elevated Total Petroleum Hydrocarbons have been detected during screening along the Fuel Distribution System. The samples will be collected using direct push technology (DPT). Zone G will have approximately 44 points. Zone F will have approximately 8 points and Zone E will have approximately 4 points. Four groundwater samples will be collected at an approximate 20-foot radius in each direction surrounding the 14 locations identified in the screening. The sample depths are anticipated to range from 4 to 15 feet below level surface depending on the depth to groundwater, TPH soil contamination, and the fuel pipeline.

This submittal fulfills the requirements for notification to SCDHEC as stated in the *South Carolina Well Standards and Regulations Document R.61-71*. The DPT subcontractor is tentatively scheduled to initiate drilling activities on Tuesday, December 3, 1996.

Mr. Paul Bristol  
November 21, 1996  
Page Two

If you have any questions, comments or need additional information, please do not hesitate to call me at (904) 479-4595 or Mr. Levin Ham (803) 884-0029 or onsite at NAVBASE Charleston (803) 747-0336. We look forward to hearing from you on this matter.

Sincerely,

EnSafe/Allen & Hoshall

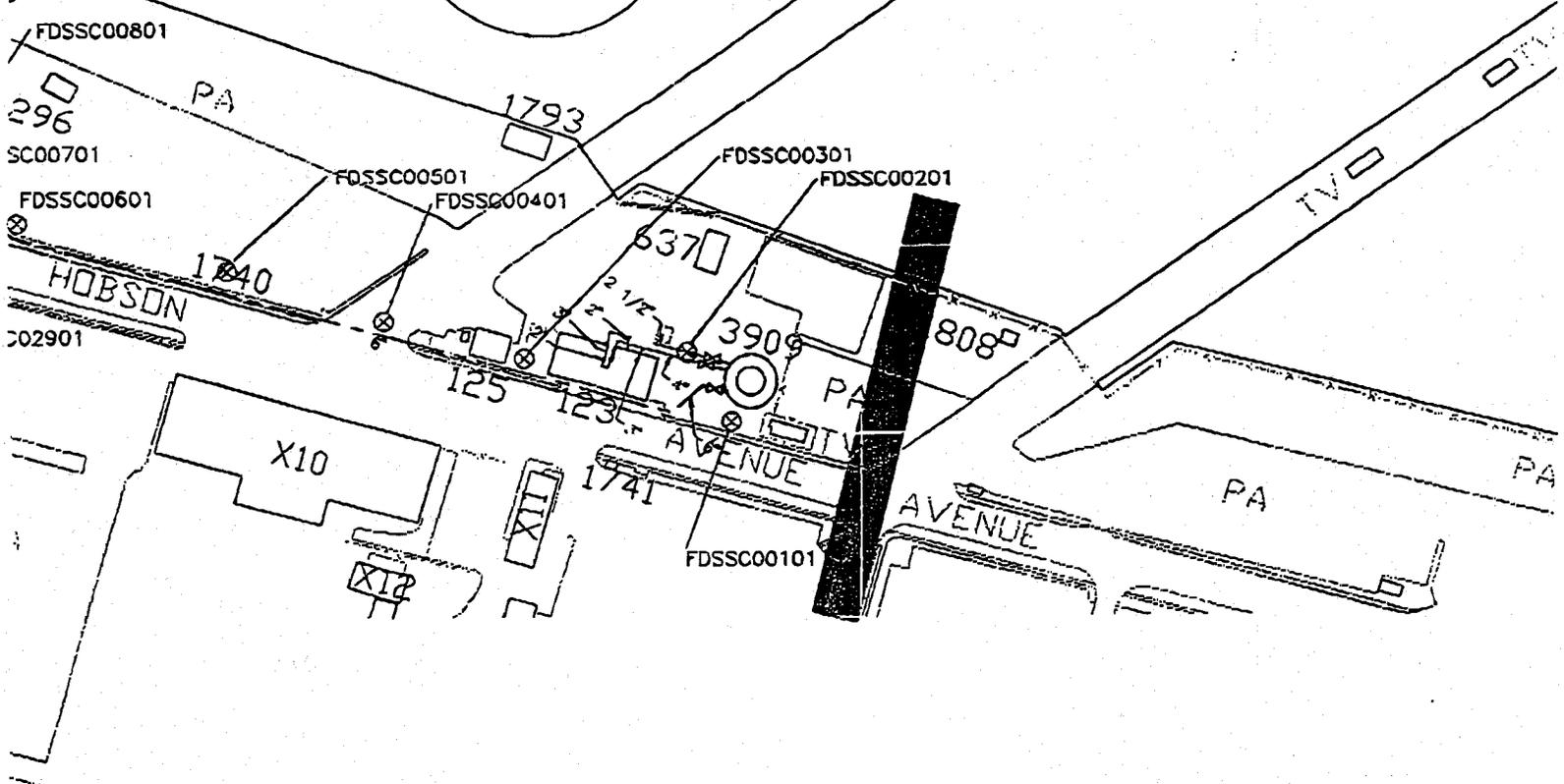


By: Craig R. Smith  
Task Order Manager

Enclosure

cc: Todd Haverkost, SCSafe  
Tony Hunt, SOUTHDIV  
Doyle Brittain, USEPA Region IV  
CTO-2907, file

AOC #641  
STRIPPER  
PUMPHOUSE,  
FORMER BLDG  
39-K



200  
FEET



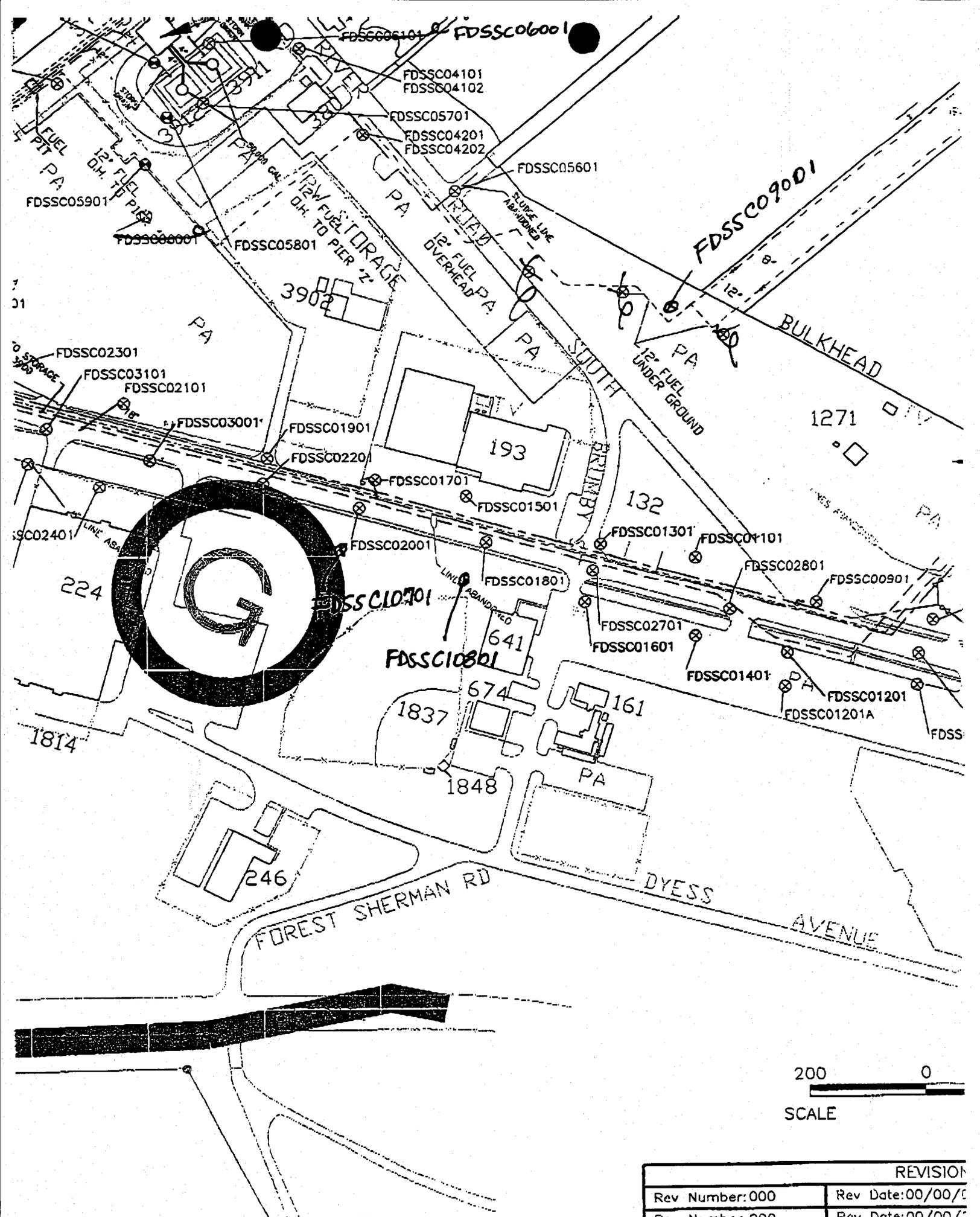
ZONES D, F, & G  
RCRA FACILITY INVESTIGATION  
30% PROGRESS MEETING  
NAVAL BASE CHARLESTON  
CHARLESTON, S.C.

*CORRECT AS  
OF 10/23  
(TALKED W/ SWP REGARDING  
60, 61, 62 MESS UP)*

SCREENING SAMPLE PROGRESS  
FUEL DISTRIBUTION SYSTEM

Rev By: NAMF
Rev By: NAME
Rev By: NAME
Rev By: E.ROGERS

Dr by: E. ROGERS	Tr by: NAME
Ck by: E. EATON	App by: T. HAVERKOST
Date: 10/04/96	DWG Name: 297NDFG5



**G**

200 0  
SCALE

REVISION	
Rev Number: 000	Rev Date: 00/00/00
Rev Number: 000	Rev Date: 00/00/00









DEPARTMENT OF THE NAVY

CHARLESTON NAVAL SHIPYARD  
CHARLESTON, S.C. 29408-6100

LI ✓ TAM  
Lo 9.4.94 LAM  
also Comment

LI ✓

5090  
Ser 106.21/0147  
14 March 1996

15 MAR 1996

Mr. Timothy Mettlen  
Ground Water Protection Division  
Bureau of Drinking Water Protection  
South Carolina Department of Health and  
Environmental Control  
2600 Bull Street  
Columbia, SC 29201

Re: Free Product Recovery at Building 1346 (Site ID #14067)

Ref: (a) Zones D, F, and G RFI Work Plan  
(b) DHEC GWPD Letter of 29 February 1996

Dear Mr. Mettlen,

Charleston Naval Shipyard (CNSY) is conducting the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) of Naval Base Charleston. The Zones D, F, and G RFI Workplan for Naval Base Charleston (Ref. a) includes Area of Concern (AOC) 609, which is the former gasoline station/automotive repair and maintenance shop at Building 1346.

CNSY requests that your concerns, promulgated in reference (b), for Building 1346 (Site ID #14067) be addressed in the existing Area of Concern 609 for the same area. This will also be a topic of discussion at the next BRAC Closure Team Meeting currently scheduled for 9 April 1996.

If you have any questions or require further information, please contact Amos Webb at (803) 743-5519 or Bo Camp at (803) 743-9985.

Sincerely,

*R. L. Laney*

R. L. Laney  
Director, Occupational Safety,  
Health and Environmental Office  
By direction of the Commander,  
Charleston Naval Shipyard

Copy to:  
SCDHEC (Bowers)  
COMNAVBASE (N4BEC, Dearhart, Fontenot)  
SOUTHNAVFACENGCOM (Hunt, Stockmaster, Hutto)  
Ensafe, Allen and Hoshel (Haverkost)  
S & ME (Chestnut)  
Trident District EQC (Christine Sanford-Coker)  
Caretaker Site Office (Cdr. Dalby Camp)  
Quality... A way of life at Charleston Naval Shipyard.

RECEIVED

MAR 21 1996

Groundwater Protection  
Division

FY97 DERA Budget INFO:

CNWS POL Yard - listed as "Executable  
work which must be postponed"  
Table 3.

Present status: unknown project



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APR 18 1996  
Groundwater Protection  
Division

DEPARTMENT OF THE NAVY  
SOUTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
P. O. BOX 190010  
2155 EAGLE DRIVE  
NORTH CHARLESTON, S.C. 29419-9010

5090  
Code 18E2  
15 April 96

Ms. Ann Ragan  
South Carolina Department of Health and Environmental Control  
2600 Bull Street  
Columbia, SC 29201

### PROPOSED FY97 DERA EXECUTION PROGRAM

Dear Ms. Ragan:

Every spring, our headquarters requires us to submit a detailed list of our projected DERA work for the upcoming fiscal year. Over the past few weeks, we have been refining our list of required work and narrowing it down to what we believe is the most essential work that we can fund and execute. We would appreciate you and your staff's review and feedback on the enclosed package. By copy of this letter, we also solicit feedback from all persons and offices that receive this letter, both regulatory and military. If there are others within your organization that should comment on this letter but haven't received a copy, please pass a copy to them also.

The enclosure includes a summary of the process that we've gone through to narrow these requirements down to the list of the most essential work. Since we tasked our project managers to work with regulatory and activity stakeholders to prioritize requirements, we trust that you're already acquainted with what we have been going through. If you have concerns about the process or suggestions on improvements or if you feel that you didn't adequately participate in the prioritizing, please let us know as part of your feedback.

Table 1 of the enclosure presents the work that we expect to execute in FY97. If there is critical work that is missing from this list, let us know what is missing and the reasons why it is so critical. Also let us know what work in Table 1 can be postponed so as to offset any critical work to be added. We are required to stay within the current funding targets from our headquarters, so any work that is added will force us to drop other work which is identified in Table 1.

PROPOSED FY97 DERA EXECUTION PROGRAM

We would appreciate all feedback by 1 May. This will allow us a chance to discuss your concerns and make adjustments to Table 1, if needed, before we submit it to our headquarters around 13 May. Please forward your feedback to the attention of Mr. Charlie Black, Code 185.

Sincerely,

 C D Black for

R. C. DAVIS, JR.

Head, Environmental Services Division II

Encl:

(1) Summary of DERA Requirements & Project Validation Process

Copy to:

SCDHEC, Columbia, SC, Paul Bergstrand, Timothy Mettlen, Jim White, David Walton

MCRD Parris, Island, SC, NREAO Johnsie Nabors

MCAS Beaufort, SC, NREAO, Alice Howard

NWS Charleston, SC, Barry Lewis

MCAS Beaufort, SC, Frank Araico

EPA, Atlanta, GA, Jon Johnston, w/o encl

EPA, Atlanta, GA, Craig Benedikt, w/o encl

NAS Jacksonville, FL, Jerry Wallmeyer, w/o encl

EPA, Atlanta, GA, Jay Bassett, w/o encl

## SUMMARY OF DERA REQUIREMENTS & PROJECT VALIDATION PROCESS

The information below outlines the basic process that we used to make our FY97 DERA workload projections. RPMs were tasked to work with their regulatory and activity counterparts to prioritize their upcoming DERA work and to estimate the amount of additional funding required in FY97 to support that work. These projections assumed no constraints on funding levels. In reality, Southern Division's DERA funding target for FY97 is \$39,215,000 which is significantly below the total workload that our RPMs projected.

A workload validation team was established to evaluate all required work presented by RPMs and to decide how the FY97 funding should be distributed. This validation team consisted of Elaine Morrison (head of our Hazardous Waste branch), Herb Fraser-Rahim (head of our UST branch), Charlie Black, Jim Ferro, Pat Franklin (heads of our three Installation Restoration branches) and Mike Maughon (environmental engineer in our Technical Support branch and member of the Navy's Innovative Remediation Technologies Working Group).

The basic approach of the validation team for prioritizing the workload involved evaluating work against the criteria listed below and scoring the work based on the results of the evaluation. RPMs were interviewed about their projected work and provided input during the scoring process. Scoring was accomplished by assigning points for each weighted criteria and totaling the scores for all criteria. Criteria used for scoring (which is presented in their order of weighting) included:

1. the planned use of innovative technologies, methods or approaches with demonstrated cost effectiveness;
2. the importance of the work to the stakeholders (RPM/regulators/activity/trustees/etc.);
3. the potential of the work to reduce a site's relative risk rank (using the DOD relative risk ranking system);
4. the potential that the work helps us achieve a prompt response action which contains significant threats or avoids significant increases in future costs for a site;
5. the need to complete an on-going phase of work at a site (to avoid lost value of previously executed work and to avoid significant rework);
6. whether a project will avoid an enforcement action or NOV/NOD;
7. the potential to keep the most critical work going at all bases for all programs;
8. the potential that the work will help us meet NAVFAC's quarterly execution targets (thus enhancing our chances to obtain additional funds in FY97 and later years);
9. the potential that the work leads to prompt completion of all actions at a site;
10. whether the work addresses significant concerns raised by the public.

Not all work presented by the RPMs was scored. Since the total projected workload significantly exceeded our funding target for FY97, RPMs were asked to narrow their projections down to those items which they and the stakeholders considered to be essential for FY97. Only the essential work was then scored. Additionally, funding required for operations, maintenance and monitoring of systems already in place was not scored since this work needs to be given top priority.

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APR 18 1996

Groundwater Protection  
Division

Enclosure (1)

Once scoring was completed, work was then prioritized by the scores and all work was balanced against the following DOD execution criteria:

1. at least 85% of the FY97 funds must be spent at high risk sites (using the DOD relative risk ranking system);
2. at least 66% of the FY97 funds must be spent towards cleanup efforts (final or interim response actions, removals, and long term operations, maintenance and monitoring);

Finally the list was given a "reality check" was done by the validation team and RPMs to insure that the scoring hadn't eliminated work which we intuitively know is highly critical. A very few highly critical items of work had been eliminated in the scoring. These items were added to the list and lower scoring, less critical work was deleted to insure that we stayed within our funding target.

The attached tables summarize the FY97 DERA program. Table 1 identifies identifies all work which we expect to fund in FY97 based on our current funding target and cost projections. Table 2 includes work which RPMs identified as essential for FY97, but which did not receive funding because of higher priority work identified in Table 1. Some of this work may receive funding in FY97 if additional funds become available, if cost projections for Table 1 work decreases or if work in Table 1 significantly slips or otherwise becomes unexecutable in FY97. Table 3 shows other work which RPMs identified as being desirable and executable in FY97 but for which execution in FY97 was not considered to be essential. It is very unlikely that any of this work will receive funding in FY97.

Tables 4 through 7 summarize cost projections from Tables 1 through 3. Table 4 summarizes cost projections for each Navy or Marine Corps activity. Tables 5 and 6 summarizes cost projections by State and EPA Region. Table 7 summarizes the costs by risk ranks from the DoD risk ranking system.

**TABLE 1 - WORK TARGETED FOR FY97 FUNDING**

This table identifies all work which we expect to fund in FY97 based on our current funding target and cost projections. Costs for these are represented in the "Targeted" columns in Tables 4 through 6.

<b>TABLE 1</b>			
<b>Location</b>	<b>Site</b>	<b>Site Risk Rank</b>	<b>Description of Work to be Funded in FY97</b>
<b>EPA REGION 4</b>			
<b>FLORIDA</b>			
Jacksonville FL FISC	UST 000001	Med	Remediation of Jet Fuel
Jacksonville FL FISC	UST 000002	Low	Monitoring at DFM
Jacksonville FL NAS	SITE 26&27	High	Remedial Action at OU1
Jacksonville FL NAS	SWMU 00001	Low	Closure, Hangar 1000 HW tanks
Jacksonville FL NAS	SWMU 00002	Med	GW Monitoring, ISDB, DSDB and PP
Jacksonville FL NAS	UST 000002	High	Monitoring at Test Cell 873
Jacksonville FL NAS	UST 000004	High	Monitoring at Gas Hill
Jacksonville FL NAS	UST 000010	Med	Monitoring at Hangar 115
Jacksonville FL NAS	UST 000013	Med	CAR/RAP at Auto Hobby Shop
Jacksonville FL NAS	Various	High	Finish RI/FS at OU3
Key West FL NAS	SITE 00001	High	ROD for Truman Annex Disposal Area
Key West FL NAS	SITE 00003	High	ROD for Truman Annex DDT Mixing Area
Key West FL NAS	SWMU 00001	High	CMI at Boca Chica Open Disposal Area
Key West FL NAS	SWMU 00002	High	CMI at Boca Chica DDT Mixing Area
Key West FL NAS	SWMU 00009	High	O&M for GW recovery system
Key West FL NAS	UST 000001	High	O&M at Truman Berth Wharf
Key West FL NAS	UST 000003	High	Remediation at Trumbo Point Fuel Farm
Mayport FL NS	SWMU 00004	High	Finish RFI/CMS at Landfill E
Mayport FL NS	SWMU 00004	High	CMI Design at Landfill E
Mayport FL NS	SWMU 00014	High	Finish RFI/CMS at Mercury & OW Spill Area
Mayport FL NS	SWMU 00014	High	CMI Design at Mercury & Oily Waste Spill Area
Mayport FL NS	SWMU 00015	High	Finish RFI/CMS at Old Pesticide Handling Area
Mayport FL NS	SWMU 00015	High	CMI Design at Old Pesticide Handling Area
Mayport FL NS	UST 000001	High	UST Remediation at Bldg 265
Mayport FL NS	UST 000005	Med	O&M at Pier Alpha/Delta
Mayport FL NS	UST 000008	High	Monitoring at Incinerator 1601
Panama City FL CCS	SWMU 00010	High	CMI Design at Oil/Water Separator
Panama City FL CCS	SWMU 00013	High	O&M at Bioslurp system
Panama City FL CCS	UST 000001	High	O&M at 20,000 gal tanks
Panama City FL CCS	UST 000003	High	O&M at East Dock Bayou

**TABLE 1 (Cont)**

Pensacola FL NAS	SITE 00038	High	Remedial design at OU11
Pensacola FL NAS	SWMU 00001	Low	O&M for GW System , Sludge Drying Beds
Pensacola FL NAS	UST 000015	High	UST Remediation at Bronson Field
Pensacola FL NAS	UST 000017	High	Montioring at DFM leak
Pensacola FL NAS	Various	High	Remedial design at OU2
Pensacola FL NAS	Various	High	Remedial action at OU10
Whiting Field FL NAS	SITE 00030	High	Finsh RI/FS at South Field Hangar
Whiting Field FL NAS	SITE 00030	High	Remedial design at South Field Hangar
Whiting Field FL NAS	SITE 00032	High	Finsh RI/FS at North Field Hangar
Whiting Field FL NAS	SITE 00033	High	Finsh RI/FS at Mid Field Hangar
Whiting Field FL NAS	UST 000002	Med	CAR/RAP at ASTs 1483, 1439
<b>GEORGIA</b>			
Albany GA MCLB	SITE 00003	High	O&M for PSC 3 GW recovery system
Albany GA MCLB	SITE 00006	High	Remedial Design for PSC 3 Drainiage Ditch Sediments
Albany GA MCLB	SITE 00013	High	Remedial Design for IWTP Pipeline
Albany GA MCLB	SWMU 00002	Med	O&M for GW Recovery at IWTP Sludge Beds
Albany GA MCLB	SWMU 00004	Med	RCRA Investigation , PSC 23 Mat Div Storage Area
Athens GA NSCS	UST 000001	High	O&M for Horizontal Well
Kings Bay GA NSB	SITE 00005	Med	Finish RFI at Old Army Reserve Disposal Area
Kings Bay GA NSB	SITE 00011	High	O&M for Landfill GW Containment System
Kings Bay GA NSB	SITE 00011	High	Expand GW remedation at Landfill hot spots
Kings Bay GA NSB	SITE 00016	Med	Finish RFI at Old Army Sewage Treatment Plant
<b>MISSISSIPPI</b>			
Gulfport MS NCBC	SITE 00006	High	O&M for Free Product Recovery System
Gulfport MS NCBC	SITE 00008	High	Continued Remediation of Dioxin Sediments
Meridian MS NAS	Various	High	Finish Site Inspection Report
<b>SOUTH CAROLINA</b>			
Beaufort SC MCAS	UST 000003	High	Monitoring at MCEX Exchange
Beaufort SC MCAS	UST 000006	High	Monitoring at Laurel Bay Bioremediation
Beaufort SC MCAS	UST 000011	Low	Monitoring at Tank Farm C
Beaufort SC MCAS	UST 000013	Med	Monitoring at Day Tanks Fuel Farm
Charleston SC NWS	SWMU 00002	Med	RFI at Old Northside Munitions Demilitarization
Charleston SC NWS	SWMU 00009	Med	Finish RCRA Closure at Old HW Mgt Facility
Charleston SC NWS	SWMU 00018	High	Add'n Sampling for Old Southside OB/OD Facility
Charleston SC NWS	SWMU 00018	High	IM - Remove Mercury Batteries, OB/OD Facility
Charleston SC NWS	SWMU 00021	High	RFI at Old South Annex Burning Grounds
Charleston SC NWS	SWMU 00023	High	RFI at Old South Annex Sanitary Landfill
Charleston SC NWS	SWMU 00027	Med	RFI at South Annex Roundhouse
Bonneau SC	UST 000015	High	Remediation at "Short Stay"

**TABLE 1 - (Cont)**

Parris Island SC MCRD	SITE 00001	High	Implement RI at Incinerator Landfill
Parris Island SC MCRD	SITE 00002	High	Implement RI at Borrow Pit Landfill
Parris Island SC MCRD	SITE 00003	High	Implement RI at Causeway Landfill
Parris Island SC MCRD	UST 000001	High	O&M at Facility 850
Parris Island SC MCRD	UST 000002	High	O&M at AVGAS pipeline
<b>TENNESSEE</b>			
Memphis TN NSA	UST 000001	High	Monitoring at Tank 1482
Memphis TN NSA	UST 000001	High	O&M at Exchange Gas Station
Memphis TN NSA	UST 000002	High	Monitoring at Exchange Gas Station
Memphis TN NSA	UST 000008	High	Monitoring at Flying Club
Memphis TN NSA	Various	High	CMS for Assembly E
Memphis TN NSA	Various	Low	RFI for Assembly F
<b>EPA REGION 5</b>			
<b>INDIANA</b>			
Crane IN NSWC	SWMU 00003	High	CMI at Ammunition Burning Grounds
Crane IN NSWC	SWMU 00006	High	RFI/CMS at Demolition Range
Crane IN NSWC	SWMU 00007	High	RFI/CMS at Old Rifle Range
Crane IN NSWC	SWMU 00009	High	RFI/CMS at Pesticide Area
Crane IN NSWC	SWMU 00010	High	RFI/CMS at Rockeye Munitions
<b>MINNESOTA</b>			
Fridley MN NIROP	SITE 00003	High	Additional RI/FS Funding at OU3
Fridley MN NIROP	SITE 00005	High	O&M for GW Recovery System
Fridley MN NIROP	SITE 00005	High	Permanent GW Treatment Plant at OU1
<b>EPA REGION 6</b>			
<b>LOUISIANA</b>			
New Orleans LA NAS	SITE 00005	Low	Finish RI/FS at Sandblast Grit Disposal Area
New Orleans LA NAS	SITE 00006	High	Finish RI/FS at Fuel Farm Tank Strippings Site
New Orleans LA NAS	SITE 00012	Low	Finish RI/FS at former WWTP
New Orleans LA NAS	SITE 00013	Low	Finish RI/FS at Golf Course Northside Drainage
New Orleans LA NAS	SITE 00014	Med	Finish RI/FS at Golf Course Southside Drainage
New Orleans LA NAS	SITE 00015	Low	Finish RI/FS at Fuel Farm Tank Spill
New Orleans LA NAS	Various	Low	Finish RI/FS at POL Disposal
New Orleans LA NSA	SITE 00001	Med	Finish RI/FS at Waste Oil Tank Bldg 273
New Orleans LA NSA	SITE 00002	Low	Finish RI/FS at Waste Oil Tank Bldg 80
New Orleans LA NSA	SITE 00003	High	Finish RI/FS at Waste Oil Tank T-42-1
New Orleans LA NSA	SITE 00009	Med	Finish RI/FS at Landfill at Bldg 704

**TABLE 1 - (Cont)**

**TEXAS**

Corpus Christi TX NAS	SWMU 00001	High	Finish RFI/CMS at DPDO Landfill
Corpus Christi TX NAS	SWMU 00001	High	Monitoring at IWTP
Corpus Christi TX NAS	SWMU 00005	High	RFI/CMS at Bldg 8
Corpus Christi TX NAS	UST 000003	Low	LTM at Army Fuel Depot 216A
Corpus Christi TX NAS	UST 000009	High	O&M at Fuel Farm 216
Dallas TX NWIRP	SWMU 00118	High	O&M for GW Containment System
Dallas TX NWIRP	Various	High	Finish Mountain Lake investigation
Kingsville TX NAS	SITE 00001	Med	Finish RI/FS at STP Landfill
Kingsville TX NAS	UST 000003	Med	O&M at 1763, JP-5 Fuel
McGregor TX NWIRP	SWMU 00001	Med	Finish RFI/CMS At Area S Burning Grounds
McGregor TX NWIRP	SWMU 00003	Med	Finish RFI/CMS At Area F West Settling Ponds
McGregor TX NWIRP	SWMU 00005	High	Finish RFI/CMS At Area M Interior Settling Basins
McGregor TX NWIRP	SWMU 00007	High	Finish RFI/CMS At Area M Acid Plating Tank

TABLE 2 - OTHER ESSENTIAL WORK NOT CURRENTLY TARGETTED

This table includes work which RPMs identified as essential for FY97, but which did not receive funding because of higher priority work identified in Table 1. Some of this work may receive funding in FY97 if additional funds become available, if cost projections for Table 1 work decreases or if work in Table 1 significantly slips or otherwise becomes unexecutable in FY97.

TABLE 2			
Location	Site	Site Risk Rank	Description of Other Work Not Currently Targetted
<b>EPA REGION 4</b>			
<b>FLORIDA</b>			
Jacksonville FL NAS	UST 000001	High	Remediation at 880 Exchange
Key West FL NAS	SWMU 00003	High	CMI and Design for
Key West FL NAS	SWMU 00009	High	CMI and Design for
Mayport FL NS	SWMU 00004	High	IRA for Landfill E
Mayport FL NS	SWMU 00014	High	IRA for Mercury & Oily Waste Spill Area
Mayport FL NS	UST 000006	High	Remediation for BEQ pipeline
Mayport FL NS	UST 000006	High	RAP for BEQ Pipeline
Panama City CSS	SWMU 00003	High	CMI and Design for Landfill C Burn and Disposal Area
Panama City CSS	SWMU 00009	High	CMI and Design for Fire Training Area
Pensacola FL NAS	SITE 00001	High	Remedial Design for OU1 Landfill
Pensacola FL NAS	SITE 00002	High	Remedial Design for OU3 Southeast Waterfront
Pensacola FL NAS	SITE 00015	High	Remedial Design for OU4 Pesticide Rinsate Area
Pensacola FL NAS	SITE 00036	High	Remedial Design for IWTP Sewer Line
Pensacola FL NAS	SITE 00040	Med	Remedial Design for OU 15 Bayou Grande
Pensacola FL NAS	SITE 00041	High	Remedial Design for OU16 Wetlands
Pensacola FL NAS	SITE 00042	Med	Remedial Design for OU17 Pensacola Bay
Whiting Field FL NAS	SITE 00030	High	Remedial Action for Southfield Hangar
Whiting Field FL NAS	SITE 00033	High	Remedial Action for Midfield Hangar
Whiting Field FL NAS	SITE 00033	High	Remedial Design for Midfield Hangar
Whiting Field FL NAS	UST 000002	Med	Remediation at Leaking AST 1438, 1439
<b>GEORGIA</b>			
Albany GA MCLB	SWMU 00005	Med	RA at PSC 24 Fac Div Storage Area
<b>SOUTH CAROLINA</b>			
Charleston SC NWS	SWMU 00010	Low	RCRA Cap at Bldg 930 Vault
Charleston SC NWS	SWMU 00014	Low	RCRA Cap at Bldg 58 Vault

**TABLE 2 - (Cont)**

<b>TENNESSEE</b>			
Memphis TN NSA	SWMU 00043	Low	RFI for Assemblies G&H
Memphis TN NSA	UST 000001	High	Remediation at TANK 1482, BLDG. 376
Memphis TN NSA	UST 000002	High	Remediation at Navy Exchange Service Station
Memphis TN NSA	UST 000008	High	Remediation at Flying Club, UST 1205N, 1205S
<b>EPA REGION 5</b>			
<b>INDIANA</b>			
Crane IN NSWC	SWMU 00001	High	RFI for Mustard Gas Burial Site
<b>EPA REGION 6</b>			
<b>TEXAS</b>			
Corpus Christi TX NAS	SWMU 00001	High	CMI for DPDO Landfill
McGregor TX NWIRP	SWMU 00005	High	CMI for Area M Interior Settling Basins
McGregor TX NWIRP	SWMU 00007	High	CMI for Area M Acid Plating Tank

TABLE 3 - EXECUTABLE WORK WHICH MUST BE POSTPONED

This table includes work which RPMs identified as being desirable and executable in FY97 but for which execution in FY97 was not considered to be essential. It is very unlikely that any of this work will receive funding in FY97.

TABLE 3			
Location	Site	Site Risk Rank	Description of Work which Must Be Postponed
<b>EPA REGION 4</b>			
<b>FLORIDA</b>			
Jacksonville FL NAS	UST 000005	Med	CAR & RAP for Power Plant
Jacksonville FL NAS	UST 000011	High	CAR & RAP for Hush House
Jacksonville FL NAS	UST 000012	Low	CAR & RAP for 1558 1&2
Key West FL NAS	SITE 00002	Low	NFA Decision Document for Transformer Oil Disposal
Key West FL NAS	SITE 00006	Med	NFA Decision Document for Dredger Key Refuse Disposal
Key West FL NAS	SITE 00018	High	Remedia Design for GW Treatment,
Key West FL NAS	SITE 00020	High	Finish RI/FS for Demolition Key
Key West FL NAS	SWMU 00004	Med	CMI Design for
Key West FL NAS	SWMU 00005	Med	CMI Design for AIMD Bldg 980A
Key West FL NAS	SWMU 00007	Med	CMI Design for AIMD Bldg 990A
Key West FL NAS	UST 000002	Med	POL Remdiation, Truman Electric Plant
Key West FL NAS	UST 000007	High	POL Remediation, Boca Chica
Mayport FL NS	SWMU 00007	High	IM, Expand GW Recovery System at Sludge Beds
Mayport FL NS	SWMU 00023	High	CMI for Jacksonville Ship Yard Area
Mayport FL NS	SWMU 00024	High	CMI for North Florida Ship Yard Area
Mayport FL NS	SWMU 00025	High	CMI for Atlantic Marine, Inc., Area
Mayport FL NS	UST 000004	Low	Finish CAR for SIMA Bldg 1490
Mayport FL NS	UST 000007	Low	CAR & RAP for PWTP 283
Mayport FL NS	UST 000013	Low	CAR & RAP for Pier Bravo
Mayport FL NS	UST 000014	Low	CAR & RAP for Bldg 3
Panama City CSS	SWMU 00013	High	CMI Design for Old Fire Fighting Area
Panama City CSS	UST 000002	High	POL Remediation at Marina
Pensacola FL NAS	SITE 00004	Low	Remedial Design for Army Rubble Disposal Area
Pensacola FL NAS	SITE 00006	Low	Remedial Design for Ft Redoubt Disposal Area
Pensacola FL NAS	SITE 00007	Low	Remedial Design for Fire Fighting School
Pensacola FL NAS	SITE 00008	Low	Remedial Design for Rifle Range Disposal Area
Pensacola FL NAS	SITE 00016	Low	Remedial Design for Brush Disposal Area
Pensacola FL NAS	SITE 00022	Low	Remedial Design for Refueler Repair Shop
Pensacola FL NAS	SITE 00024	Med	Remedial Design for DDT Mixing Area
Pensacola FL NAS	SITE 00044	Low	RI/FS for Bldg 3221

**TABLE 3 - (Cont)**

Pensacola FL NAS	UST 000014	Med	CAR & RAP for Tanks 681, 682
Pensacola FL NAS	UST 000019	Low	CAR & RAP for Bldg 3241
Pensacola FL NAS	UST 000020	Low	POL Remediation, Fuel Farm Pipeline
Pensacola FL NAS	UST 000021	High	POL Remediation, Berthing Pier
Pensacola FL NAS	UST 000022	High	Remediation, Sludge Fuel Tank
Pensacola FL NAS	UST 000024	Low	CAR & RAP for Sherman Field
Pensacola FL NAS	UST 000025	Low	CAR & RAP for Bldg 1932
Pensacola FL NAS	Various	Med	Remedial Design for OU6
Whiting Field FL NAS	UST 000005	High	POL Remediation at Pipe Leak , Site 2894
<b>GEORGIA</b>			
Kings Bay GA NSB	SITE 00002	Med	Site Screening at Fire Training Pit
Kings Bay GA NSB	SITE 00011	High	Final CMI Design for Landfill
<b>SOUTH CAROLINA</b>			
Beaufort SC MCAS	SITE 00002	Med	RFI for Lafrene Road Landfill
Beaufort SC MCAS	SITE 00003	Med	RFI for Borrow Pit Landfill
Beaufort SC MCAS	SITE 00005	Med	Interim Measure at Pesticide Residue Pit Area
Beaufort SC MCAS	SITE 00006	Med	RFI for Inert Landfill Seepage
Beaufort SC MCAS	SITE 00008	Med	RFI for Kavieng Street Landfill
Beaufort SC MCAS	SITE 00009	Med	Interim Measure at Former Lube Oil Pit
Beaufort SC MCAS	UST 000009	Med	Remediation at Fueling Pier Tanks 567/568
Beaufort SC MCAS	UST 000011	Low	Remediation at Tank farm C
Charleston SC NWS	SWMU 00011	Low	RFI for Old Southside Pesticide Rinse Area
Charleston SC NWS	SWMU 00012	Low	RFI for Old Southside PCP Treatment Area
Charleston SC NWS	SWMU 00024	Low	RFI for Old South Annex Waste Disposal Area
Charleston SC NWS	SWMU 00025	Low	RFI for Old South Annex Fuse Disposal Area
Charleston SC NWS	SWMU 00028	Low	RFI for South Annex Building 3818
Charleston SC NWS	SWMU 00029	Low	RFI for South Annex Building 3820
Charleston SC NWS	SWMU 00030	Low	RFI for South Annex Hardstand Area
Charleston SC NWS	SWMU 00040	Low	RFI for S.Annex Bldg 3818 Fuel Contamination
Charleston SC NWS	SWMU 00048	Med	RFI for Building 91, Ammunition Renovation
Charleston SC NWS	UST 000001	Med	POL Remediation at Facility
Parris Island SC MCRD	SITE 00012	High	Eco RI for Jericho Island
Parris Island SC MCRD	SITE 00014	High	Eco RI for Storm Sewer Outfalls
Parris Island SC MCRD	SITE 00021	High	Eco RI for O/W Separators
Parris Island SC MCRD	UST 000001	High	POL Remediation at Facility 850
Parris Island SC MCRD	UST 000002	High	Remediation at AVGAS Pipeline
<b>TENNESSEE</b>			
Bristol TN NWIRP	SITE 00002	High	Remedial Action, Hllow Drum Disposal Area
Bristol TN NWIRP	SITE 00004	High	Remedial Action, Plating Pit

**TABLE 3 - (Cont)**

**EPA REGION 5**

**ILLINOIS**

Glenview IL NAS	SITE 00002	High	Interim Action, S027 Dump
Glenview IL NAS	SITE 00019	High	Interim Action, Indoor Firing Range
Glenview IL NAS	SITE 00020	Med	Interim Action, Hobby Shop

**INDIANA**

Crane IN NSWC	SWMU 00020	High	RFI for CAAA QA/QC Test Area
Crane IN NSWC	SWMU 00032	High	RFI for Tank Farm

**EPA REGION 6**

**TEXAS**

Corpus Christi TX NAS	SWMU 00002	High	CMI for CCAD Liquid Waste Disposal Area
Corpus Christi TX NAS	SWMU 00004	High	CMI for Aircraft Fire Training Area
Corpus Christi TX NAS	UST 000007	High	Remediation at PW Trans Waste Oil Tank
Corpus Christi TX NAS	UST 000008	Low	POL Remediation at Abandoned Radar, Perry Place
Kingsville TX NAS	SITE 00003	Med	RI/FS for Transportation Motor Pool
Kingsville TX NAS	SITE 00006	Med	RI/FS for Fire Fighting trainig Area
Kingsville TX NAS	SITE 00008	Med	RI/FS for Landfill
Kingsville TX NAS	SITE 00010	Med	RI/FS for Waste POL/Solvent Disposal Pit
McGregor TX NWIRP	SWMU 00002	Med	Finish RFI at Area M Outfall Ditch
McGregor TX NWIRP	SWMU 00004	Low	Finish RFI at Area R Acid Contamination
McGregor TX NWIRP	SWMU 00008	Low	Finish RFI at Area F Diesel Contamination

**TABLE 4 - SUMMARY BY ACTIVITY**

	All Projected Work			Essential Work			Targeted Work		
	Cleanup	Study	Total	Cleanup	Study	Total	Cleanup	Study	Total
Jacksonville FL FISC	\$1,046	\$0	\$1,046	\$1,046	\$0	\$1,046	\$1,046	\$0	\$1,046
Jacksonville FL NAS	\$10,463	\$1,088	\$11,551	\$10,463	\$626	\$11,089	\$8,196	\$626	\$8,822
Key West FL NAS	\$4,017	\$510	\$4,527	\$3,009	\$80	\$3,089	\$2,727	\$80	\$2,807
Mayport FL NS	\$4,206	\$1,733	\$5,938	\$1,692	\$941	\$2,633	\$660	\$925	\$1,585
Panama City FL CSS	\$4,962	\$225	\$5,187	\$2,689	\$106	\$2,795	\$1,540	\$29	\$1,569
Pensacola FL NAS	\$2,042	\$2,243	\$4,284	\$1,563	\$520	\$2,083	\$1,252	\$247	\$1,499
Whiting Field FL NAS	\$2,284	\$1,572	\$3,856	\$1,884	\$1,572	\$3,456	\$74	\$1,472	\$1,546
Albany GA MCLB	\$982	\$178	\$1,160	\$536	\$178	\$714	\$536	\$178	\$714
Athens GA NCSC	\$53	\$0	\$53	\$53	\$0	\$53	\$53	\$0	\$53
Kings Bay GA NSB	\$1,358	\$1,150	\$2,508	\$1,208	\$650	\$1,858	\$1,208	\$650	\$1,858
Gulfport MS NCBC	\$1,943	\$150	\$2,093	\$1,418	\$150	\$1,568	\$1,418	\$150	\$1,568
Meridian MS NAS	\$105	\$25	\$130	\$105	\$25	\$130	\$105	\$25	\$130
Beaufort SC MCAS	\$752	\$1,109	\$1,861	\$230	\$0	\$230	\$230	\$0	\$230
Charleston SC NWS	\$3,938	\$3,552	\$7,490	\$2,377	\$1,782	\$4,159	\$1,225	\$1,782	\$3,007
Parris Island SC MCRD	\$764	\$1,550	\$2,314	\$147	\$650	\$797	\$147	\$650	\$797
Bristol TN NWIRP	\$125	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0
Memphis TN NSA	\$187	\$670	\$857	\$187	\$670	\$857	\$37	\$520	\$557
Glenview IL NAS	\$2,600	\$0	\$2,600	\$0	\$0	\$0	\$0	\$0	\$0
Crane IN NSWC	\$3,150	\$3,055	\$6,205	\$3,150	\$1,968	\$5,118	\$3,150	\$1,792	\$4,942
Fridley MN NIROP	\$2,678	\$500	\$3,178	\$2,678	\$500	\$3,178	\$2,678	\$500	\$3,178
New Orleans LA NAS	\$0	\$140	\$140	\$0	\$140	\$140	\$0	\$140	\$140
New Orleans LA NSA	\$0	\$80	\$80	\$0	\$80	\$80	\$0	\$80	\$80
Corpus Christi TX NAS	\$8,891	\$2,410	\$11,301	\$5,076	\$1,220	\$6,296	\$76	\$1,220	\$1,296
Dallas TX NWIRP	\$148	\$885	\$1,033	\$148	\$885	\$1,033	\$0	\$885	\$885
Kingsville TX NAS	\$228	\$2,112	\$2,340	\$70	\$366	\$436	\$70	\$366	\$436
McGregor TX NWIRP	\$1,642	\$720	\$2,362	\$1,642	\$600	\$2,242	\$0	\$600	\$600
<b>TOTAL</b>	<b>\$58,561</b>	<b>\$25,656</b>	<b>\$84,217</b>	<b>\$41,368</b>	<b>\$13,709</b>	<b>\$55,077</b>	<b>\$26,425</b>	<b>\$12,917</b>	<b>\$39,342</b>

TABLE 5 - SUMMARY BY STATE									
	All Projected Work			Essential Work			Targeted Work		
	Cleanup	Study	Total	Cleanup	Study	Total	Cleanup	Study	Total
Florida	\$29,019	\$7,370	\$36,389	\$22,345	\$3,845	\$26,190	\$15,494	\$3,379	\$18,873
Georgia	\$2,392	\$1,328	\$3,720	\$1,796	\$828	\$2,624	\$1,796	\$828	\$2,624
Illinois	\$2,600	\$0	\$2,600	\$0	\$0	\$0	\$0	\$0	\$0
Indiana	\$3,150	\$3,055	\$6,205	\$3,150	\$1,968	\$5,118	\$3,150	\$1,792	\$4,942
Louisiana	\$0	\$220	\$220	\$0	\$220	\$220	\$0	\$220	\$220
Minnesota	\$2,678	\$500	\$3,178	\$2,678	\$500	\$3,178	\$2,678	\$500	\$3,178
Mississippi	\$2,048	\$175	\$2,223	\$1,523	\$175	\$1,698	\$1,523	\$175	\$1,698
S Carolina	\$5,454	\$6,211	\$11,665	\$2,754	\$2,432	\$5,186	\$1,602	\$2,432	\$4,034
Tennessee	\$312	\$670	\$982	\$187	\$670	\$857	\$37	\$520	\$557
Texas	\$10,909	\$6,127	\$17,036	\$6,936	\$3,071	\$10,007	\$146	\$3,071	\$3,217
Total	\$58,561	\$25,656	\$84,217	\$41,368	\$13,709	\$55,077	\$26,425	\$12,917	\$39,342

TABLE 6 - SUMMARY BY EPA REGION									
	All Projected Work			Essential Work			Targeted Work		
	Cleanup	Study	Total	Cleanup	Study	Total	Cleanup	Study	Total
Region 4	\$39,224	\$15,754	\$54,978	\$28,605	\$7,950	\$36,555	\$20,452	\$7,334	\$27,786
Region 5	\$8,428	\$3,555	\$11,983	\$5,828	\$2,468	\$8,296	\$5,828	\$2,292	\$8,120
Region 6	\$10,909	\$6,347	\$17,256	\$6,936	\$3,291	\$10,227	\$146	\$3,291	\$3,437
Total	\$58,561	\$25,656	\$84,217	\$41,368	\$13,709	\$55,077	\$26,425	\$12,917	\$39,342

TABLE 7 - SUMMARY BY DOD RISK RANKS									
	All Projected Work			Essential Work			Targeted Work		
	Cleanup	Study	Total	Cleanup	Study	Total	Cleanup	Study	Total
High	\$49,521	\$14,806	\$64,327	\$37,054	\$10,420	\$47,474	\$23,528	\$9,836	\$33,364
Medium	\$6,182	\$6,602	\$12,784	\$2,307	\$2,820	\$5,127	\$2,042	\$2,762	\$4,804
Low	\$2,858	\$4,249	\$7,106	\$2,007	\$470	\$2,477	\$855	\$320	\$1,175
Total	\$58,561	\$25,656	\$84,217	\$41,368	\$13,709	\$55,077	\$26,425	\$12,917	\$39,342
% Cleanup			70%			75%			67%
% High Risk			76%			86%			85%