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LETTER REPORT REGARDING COMPLETION OF INTERIM MEASURE FOR THE
EXCAVATION, TRANSPORTATION AND DISPOSAL OF SOIL CONTAINING PCB AT SOLID
WASTE MANAGEMENT UNIT 2 NS MAYPORT FL
7/26/1996
ABB ENVIRONMENTAL SERVICES



NAVSTA Mayport Administrative Record
Document Index Number

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32228-000
19.05.00.0009

Commanding Officer
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
Charleston, SC 29418

Attention: Mr. David Driggers (Code 1582)

Dear Mr. Driggers:

**SUBJECT: Completion of Interim Measure at SWMU 2 PCB Area
Resource Conservation and Recovery Act
Corrective Action Program
U.S. Naval Station, Mayport, Florida
Contract No. N62467-87-D-0317 CTO#028**

The interim measure for the excavation, transportation, and disposal of soil containing polychlorinated biphenyls (PCBs) at a site associated with Solid Waste Management Unit (SWMU) 2 has been completed and documented. The presence of PCBs at the site was originally documented in an Expanded Site Investigation (ESI) (E.C. Jordan, 1988). PCBs were detected at 2,576,000 micrograms per kilogram ($\mu\text{g}/\text{kg}$) in a soil sample collected at a sampling interval that extended from the land surface to a depth of 2 feet beneath the land surface at the location of a monitoring well located hydraulically downgradient from SWMU 2 (E.C. Jordan, 1988).

Findings from the ESI and investigations conducted for a Resource Conservation and Recovery Act Facility Investigation (RFI) at SWMU 2 and the PCB area are documented in the RFI reports for Group I SWMUs, U.S. Naval Station (NAVSTA), Mayport, Florida, dated November 1992 and March 1996 (ABB Environmental Services, Inc., [ABB-ES], 1992; 1996). These reports were prepared on behalf of Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina, by ABB-ES. Recommendations for conducting the interim measure were presented in the RFI report for Group I SWMUs prepared in November 1992, and the interim measure was in progress during the preparation of the RFI report prepared in March 1996.

Workplans prepared for SOUTHNAVFACENGCOM to guide the interim measure include the following:

- Interim Measure Workplan SWMU 2, PCB Area, NAVSTA Mayport, Florida, by ABB-ES, May 1994; and
- Interim Remediation Work Plan for SWMU 2 PCB Area, NAVSTA Mayport, Florida, by Bechtel Environmental, Inc. (Bechtel) June 1995.

ABB Environmental Services Inc.

Southern
Special Olympics
World Games
Connecticut 1995



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The purpose of the interim measure was to eliminate the potential spreading of soil containing PCBs to other areas surrounding or in the vicinity of the site. The objectives proposed for the interim measure are as follows:

- remove PCB-contaminated soil from the area north of SWMU 2 near monitoring well pair MPT-2-MW9S/9D and
- verify attainment of cleanup criteria through screening and laboratory analysis (ABB-ES, 1994).

A cleanup criterion of 25 parts per million (ppm) (25,000 $\mu\text{g}/\text{kg}$) was originally proposed in the interim measure workplan, but in response to regulatory comments was modified to 1 ppm (1,000 $\mu\text{g}/\text{kg}$) (ABB-ES, 1994). The 1 ppm criterion is the U.S. Environmental Protection Agency (USEPA) starting point guidance value (preliminary remediation goal) for assessing whether or not PCBs are present in soil at concentrations acceptable for unlimited exposure by a residential receptor (USEPA, 1990). Higher starting point values, 10 to 25 ppm, are suggested by USEPA to be applicable for industrial sites (USEPA, 1990).

The Navy's remedial action contractor (RAC), Bechtel, has provided documentation of the excavation, transportation, and disposal of the soil containing PCBs in a report entitled, "Completion Report of Solid Waste Management Unit 2, Naval Station Mayport, Florida," dated May 1996. Bechtel's report presents the following information:

- mobilizing to and demobilizing from the site;
- clearing and grubbing the work area;
- excavating soil containing PCBs;
- documenting the installation of two replacement monitoring wells;
- documenting waste management, transportation, and disposal;
- sampling and verifying of removal of soil containing PCBs at the site; and
- documenting problems encountered and their solutions (Bechtel, 1996).

Appendices to Bechtel's report contain photographs documenting the work activities, field screening data, waste manifests, a user's guide for the field screening test kits used, laboratory analytical data used to confirm the field test results, and schematics of the monitoring wells (MPT-2-MW9S/9D) that were replaced.

Technical oversight of the RAC activities during the interim measure was conducted by ABB-ES. The oversight activities were conducted under the supervision of a professional engineer registered in the State of Florida. A field logbook was maintained during the oversight activities; a photocopy of the field logbook is provided in Attachment A. Photographs were also taken during the interim measure; photographs depicting various stages of the interim measure are provided in Attachment B.

Based on review of Bechtel's report and the technical oversight activities, the information contained in Bechtel's report appears to accurately portray the interim measure site activities and sufficiently documents that the objectives of the interim measure were met.

No further investigation at this time is recommended for the SWMU 2 PCB site. The interim measure meets the objectives stated in the interim measure workplan (ABB-ES, 1994) and USEPA's preliminary remediation goal of 1 ppm for unlimited exposure to PCBs in soil by a residential receptor (USEPA, 1990). It is assumed that future use of the site, if any, will be industrial, which is compatible with the

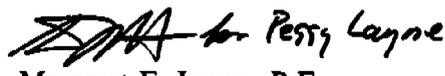
interim measure. However, should the site be proposed for any development or other use in the future, the documents referenced in this correspondence should be reviewed to assess whether or not the development is compatible with the current site conditions. Information concerning the investigation and interim measure at the SWMU 2 PCB site should be provided to Navy personnel responsible for planning site development.

If you have any questions, please call me at (904) 656-1293.

Very truly yours,

ABB ENVIRONMENTAL SERVICES INC.


Francis K. Lesesne, P.G.
Principal Geologist


Margaret E. Layne, P.E.
Principal Engineer

Attachments:

- Attachment A: Photocopy of Field Logbook
- Attachment B: Photographs
- Attachment C: References

cc: Cheryl Mitchell, NAVSTA Mayport

SWMU2.PCB
ASW.07.06

ATTACHMENT A
PHOTOCOPY OF FIELD LOGBOOK

MAYPORT NAVAL
STATION

INTERIM MEASURE
STUDIES

PCB AREA -
SWMU 2

NATIONAL

416

FIELD / TRANSIT BOOK

MAYPORT NAVAL STATION

IMS-2

Kassi

[S]

①

7/31/75

Objective: Observe stand of Dubium Measures,
removal of PCB contaminated soil
at SWMU 2 - Original Pesticide
Handling Area.

Personnel: Smith, ABB-ES
~~4300~~ ~~4300~~ (SIC)

1730 Arrival on site. Mobilization of
cleaning equipment in progress at
the site.

1745 Depart site

1830 Arrive on-site. Heavy storm arrive on-site
Personnel waiting after cleaning some
area at the site. Cleaning to continue
through this afternoon till Thursday
according to Steve Santomero, Scientist.

1830 Steve arrives at site. Mentioned
that cleaning of site to continue until
possibly end of this week. Anticipated
start of digging on week of 8/7.
Contract still not in place. Anticipated
Steve can do obtain contract
End of day

7/31/75

KCCH1507LA

7/31/75

(2)

8/22/95 SWMU 2 - PCB Area Being 80°F

Objective: Observe Interim Measures at

PCB Area (SWMU 2)

Personnel: Steve Kuchibotta, AEB-ES

0815 Arrived on-site. Paul Weatherford, Bechtel

on site. Paul informed me that no

digging is expected to take place today

because of rain and saturated ground

conditions. Anticipated start of

work Thursday or Friday or Monday

next week.

0830 General Trucks arrived at site and

left per Paul.

0900 Paul provides me a sketch of the

area and the work conducted

to date. Area had been cleaned

of trees and the two monitoring

wells at the site were removed.

The monitoring wells were removed

upto 1 to 2 feet below the

ground surface. Monitoring wells

possibly grouted prior to their

removal.

0930 Paul indicated that an empty (used

shell was observed at the site

(3)

during removal of monitoring wells

The shell could be from the ordnance

area. Paul indicated that if more

such shells were found they would be

base ordnance personnel would be

informed and the area scanned using

a metal detector to find any ~~metal~~

missiles

1000 Depart site.

1030 Arrived on-site. Paul constructing a

boot rack for the decontamination

area. Paul briefed me on the

work zone, support zone, clean zone

and clean zone at the site.

Map of area on next page to

be tried to check the area to

determine if the wells had been

grouted in place prior to their

removal. The wells were grouted

in June 1995 by GIP for AEB-ES

Used a ground water probe and walked

in the area to find soft spots or

holes. Puddles of water accumulated

at these well locations (or locations

where wells were removed)

Photographs - Roll 1

Roll 1

- 1 Work Area prior to digging.
- 2 " "
- 3 " "
- 4 Debris of monitoring wells removed from site.
- 5 Cleared work area.
- 6 Decon pad and support zone area.
- 7 Decon pad and water tank.
- 8 Support zone and Backhoe.
- 9 Access area.
- 1515 Depart site.
- 1515 Activities at site anticipated after rain stops. End of day.

~~SPRINTERS KUCHIBOTTA
8/22/95~~

8/23/95 SWMU 2 - PCB area Sunny 70°F

Objective: Observe Interim Measures at SWMU 2
Personnel: Stan Kuchibotta, AB6-ES
0930 Arrival on-site. Paul Weatherford and Steve Santamaria Bechtel on-site. They are working on pumping of stormwater in drainage ditch. Piping was set to SWMU 2 to drainage ditch across from AB6. Trailer to the drainage or stormwater ditch adjacent to the Ordinance area.
0945 Steve Santamaria departs site to obtain PVC piping for pumping at current piping does not function.
1000 Steve arrives on-site. PVC piping used and does not start pump. Steve digs a note in ditch to accommodate stormwater for pumping.
1015 Steve and Paul loading up pump to take back to pump currently not working.
1230 Paul and Steve Bechtel return to site to pump stormwater from the ditch.
1330 Pumping begins. Steve mentioned that the pump could not pump to across the street to the ditch beside the ordinance area. Therefore they were pumping the water.

(7)

- Area is being dug - Roll 1
- 15. Dig out area on northeast side
 - 16. Truck on viqueen at site
 - 17. Backhoe digging along northeast edge.
 - 18. Truck area
 - 19. Backhoe in northeast area.
 - 20. Devon load
 - 21. Contamination Reduction Zone and Support Zone
 - 22. Backhoe filling into truck number 2.
 - 23. Backhoe digging in contamination zone
 - 24. Area dug along east fence
 - 25. Area dug along south fence
 - 26. Site at end of 11/7/95 (uncovered)
 - 27. " " "
 - 28. " " "
 - 29. Covered site at end of 11/7/95
 - 30. " " "
 - 31. " " "
 - 32. " " "

SKIMMERS
11/7/95
KUCH/1203724

11/7/95 SUMV 2 - RCB Area

Objective: Observe Anterior Measures at SUMV 2.

Personnel: S.I.R. Kuchibotta, ABB-ES

0715 Arrival on site. Five Bechtel personnel and two Seacon personnel on site.

Digging on the northeast end of the site in progress. Three trucks on-site.

0815 Digging on southeast end along the fence begins. First truck arrives in contamination zone. A truck was viqueen pulled around it and viqueen loading up the area where loading into truck takes place in the contamination zone.

0830 Steve Santamaria mentions that digging may continue all day. No trucks have left site. List of personnel on-site.

JT Ginnis

Steve Santamaria, Bechtel

Ronald Xiquis, Bechtel

Bob Powell, Bechtel

Mark Willis, Bechtel

Susan Webb, ~~Bechtel~~ NAVY HAZ SPECIALIST NRS/MAYPORT

Representative of Trucking Company

0900 First Truck loaded. Susan Webb at site for NRS/Mayport to sign off on

(12)

route manifests for disposal of soil from the PCB area. Loading of second truck in progress. Still working along the east fence (running north-south).

0930 Third truck arrives for loading

1000 Loading of truck 3 complete. Truck four arrives on contamination zone.

1015 Truck 6 loading in progress. Continues along south fence (east-west direction). Each truck can carry up to 22 cubic yards of contaminated soil.

1100 Digging still in progress. Northwest portion of the eight trucks have been sent. Bechtel personnel depart site for lunch.

1230 Digging begins. Approximately nine trucks completed.

1430 Digging in progress. Fields were expected to stop around 1500 as the weighing station outside Mayport is expected to close down.

1500 Taking photographs at site. Bechtel personnel placing visor on

(13)

over uncovered areas on-site. The material will also be covered. Approximately ten trucks took soil from the site.

1545 Covering of site in progress. Water table encountered at about 12-2 feet. Bechtel personnel mentioned they were working around the water table and digging beyond it may be a problem. However, await results of sampling. May determine if further digging is required.

1645 Repair site. End of day.

SKINNAS KUCHIKUJUA
1/17/95

11 stored in roll off bins. The roll off bins would be placed in the parking lot away from our trailer.

12 1145 loading of first bin begins

13 1230 Trucks come in. The roll off bin is brought back to the site because it has 1000 pounds more on it.

14 1245 1000 pounds from bin are unloaded and first truck is loaded.

15 1300 Truck leaves site.

16 1330 Bechtel personnel stop digging for lunch.

17 1345 Excavation begins. Loading trucks at site.

18 1445 loading stops. Bechtel decides to load one more roll-off bin.

19 1545 Two roll-off bins and five trucks have been sent off today. The roll-off bins have been placed in ABB-ES parking lot.

20 1430 Donald mentioned that they could be excavating for the next few days (til Friday) and may do the confirmatory sampling on Monday 11/13.

21 1445 Informed Frank L. Mentioned to Donald and Steve Bechtel that they would use our trailer for confirmatory sampling.

22 end of day

23 SKM 11/13/95

9/19/95 SWMU 2 - PCB Area

Objective: Observe Exterior Measures at SWMU 2

Personnel: Slim Kubibotta, ABB-ES

0830 Arrival on-site. Five Bechtel personnel, trucking company representative and Susan Webb, Navy Specialist on-site.

Donald mentioned that the third truck was being filled today.

0915 Excavation still in progress. Fourth truck being filled.

1000 Truck filling still in progress.

1005 Excavation temporarily stopped. Susan Webb keeps waste manifests according to Donald and these manifests will be submitted to Steve Santenencia after the excavation at the site is completed.

Seven trucks and one roll-off bin filled.

1030 Excavation continues. Eight truck being filled.

1100 Excavation still in progress. Left site for USF of Black Hill.

1200 Excavation still in progress. Trucks being sent to scale.

1330 Arrive from Building 1587 to site. Pump for pumping water from the site being setup for pumping.

Photographs - Roll 2

| | |
|--|--|
| 6 | Excavation upto afternoon on-site |
| 7 | " |
| 8 | Excavated area near clean pond |
| 9 | " |
| 10 | " |
| 11 | Excavated area near pond from decon pond end |
| 12 | " |
| 13 | Pumping of water from contamination area |
| 14 | " |
| 15 | Area of excavation @ 1420 |
| <u>Photographs with Digital Camera</u> | |
| 10 | Excavation and truck filling at site |
| 11 | " |
| 12 | Pumping of water at site |
| 13 | " |
| 14 | Excavated area on-site @ 1420 ¹⁶⁴⁵ |
| 15 | Excavated area at 1645 |
| 16 | " |
| 17 | Pumping setup at the site |
| 18 | " |

| | |
|------|--|
| 1430 | One more roll-off bin filled and left in our parking lot. Rain water being pumped into our parking lot. Requested about the water be pumped to the stormwater ditch beside the Ordinance Shed across from our trailer. |
| 1500 | Pumping of rainwater still in progress. |
| 1530 | Excavation almost complete. Roll-off bins being filled. Roll-off bins will be checked tomorrow at ETS Trucking location and sent to the landfill. |
| 1550 | Pumping and digging still in progress. |
| 1600 | Pumping still in progress. Eleven trucks have been dispatched today. |
| | Also four roll-off bins have been filled and left in our parking lot. |
| 1615 | Another roll-off bin expected to be filled today. |
| 1645 | Still awaiting arrival of roll-off bin. Donald mentioned that they would like to complete the excavation today and move on to sample (particulates) and decon take next day. |
| 1700 | Still awaiting arrival of roll-off bin. Backhoe hole light on if the extra can be used during excavation late in the day. |

Photographs - Roll 2

16 Excavated area close to end of day 11/9/95

17 "

18 "

19 Pumping setup at site

20 "

21 "

~~22~~ (SN)

~~23~~ (SN)

1715 Red off bin has not arrived. Sunlight dwindling.

1730 Depart site. Bechtel personnel to wait for truck with roll off bin to arrive, load bin and set it in our parking lot. End of day

~~SR/MULLER
KUCHIBOTZ
11/17/95~~

11/10/95 SWM2 - PCB Area

Objective: Observe interim Measures at SWM2
Personnel: Spin Kuchibotta, ABE-ES

0845 Arrival on-site. Four Bechtel personnel and Steve Santamaria on-site.

0900 Penall, Bechtel informed that last truck had arrived at 1830 was loaded and dispatched from site late in the evening. Lighting on the backhoe was used for digging.

0915 Only three roll-off bins on our party lot, therefore the roll-off bins have been dispatched yesterday. Bechtel personnel setting up clean pad for backhoe and locating temporary sampling locations on-site.

0930 The site bounded and bermed have been marked at the site

1000 Clean pad and removal of soil on the backhoe's wheel are in progress.

1130 Soil on wheel of backhoe still being removed.
1200 Clean pad walls (one on each side) have been set with a pit in the center for collecting water to be

(22)

generated from steam cleaning of backhoe.

1215 Bichel personnel depart for lunch.
1315 Arrive on-site location of confirmatory sample collection locations in progress.

1430 Confirmatory sample locations identified. Demoning of the backhoe in progress. Rain water almost completely removed. Site returning to normal dry condition. Slight standing water along east fence of property.

1515 Steamcleaning of backhoe currently in progress. Cleaning or dison water being collected in a pit and two walls are placed to its east and west to ~~prevent~~ ^(SU) north and south to prevent spraying of water.

1530 Steamcleaning still in progress.
1545 Steamcleaning of backhoe front end in progress.

1600 Demoning of backhoe complete.
Pumping of demoning water into 55-gal drums in progress.

(23)

Photographs - Coll 2
22 Site totally excavated as shown in figure

23 "
24 "
25 Decon area for backhoe setup

26 Demoning of backhoe
27 Site with confirmatory sample flags (SU) 1/0

28 "
29 Demoning of backhoe Site with confirmatory sample flags (SU) 1/0
30 Site with confirmatory sample locations

Photographs with Digital camera
(SU)
19 Decon pad setup

20 "
21 Demoning of backhoe
22 Site with confirmatory sampling locations

23 Demoning of backhoe and pit with arena
24 "
25 Pumping from decon pit.

(SU)
Photographs - Coll 2
Demoning pit with backhoe being demoned

31 "
32 Pumping from decon pit into truck
33 Site at end of 11/10/95

34 "
35 "
36 "

(24)

1615 Pumping water in progress. Drum pad for backhoe to be left as constructed in case needed after confirmatory sampling is complete. Confirmatory sampling may need lead to more excavation at site.

1630 Decon water pumped into drum. Drum placed on back of Bechtel truck. Decon water to be disposed later. Three red-off bins still located in our parking lot.

1700 Steve and Frank Cater arrive on-site at 1645. Concerning with visqueen in progress.

1715 Site work complete. Confirmatory sampling to start at 0730 a.m. to Steve Santamania. Area for their analysis setup inside trailer.

1730 End of day. Report site.

SRINIVAS KUCHIBOTLA
11/10/95

(25)

11/13/95 SWMU 2 - PCB Area
Objective: Obtain Interim Measures at SWMU 2
Personnel: Srin Kuchibotla, ABB-ES

0800 Arrival on-site. Donald X arrives on-site.

0815 Donald X., Bechtel arrives at ABB trailer to drop off sampling kits. Confirmatory sampling using immunosorbent kits expected to begin this morning.

0845 Two more Bechtel personnel arrive on-site. Deconning of sampling equipment in progress. Also Donald and J putting labels on sample bottles. Site covered with rain water, ~~from~~ over the weekend. Rain fell even ~~so~~ on Saturday according to weather reports on television.

0915 Labeling of sampling bottles and identifying sampling locations in progress.

1000 Deconning of equipment still in progress.

1050 Donald and two other Bechtel personnel collecting duplicate samples in the beginning. They plan on collecting

Photographs - Roll 3

- 27 Site on morning of 11/13/95
 - 26 Collection of samples for immunorelay tests
 - 25 " " " " " "
 - 24 Decanning of hand auger
 - 23 Collection of confirmatory sample with hand auger.
 - 22 Immunorelay test in progress
 - 21 Immunorelay test in progress.
- SENIAS KUMARIA
11/13/95
- Photographs with Digital Camera
 - 31 Immunorelay test in progress.
- SENIAS KUMARIA
11/13/95
- Photographs with Digital Camera
 - 26 Site in morning of 11/13/95 (8)
 - 27 Collection of confirmatory samples for immunorelay tests
 - 28 " " " " " "
 - 29 Decanning of Hand Auger
 - 30 Collection of confirmatory samples with hand auger

Other samples later.

- 1145 Sample collection on west side of baseline completed. The baseline referenced here is the baseline running northeast-southwest at the site.
- 1200 Bechtel samples depart site for lunch. Approximately 70 samples collected. Samples collected include duplicates, matrix spikes and matrix spike duplicates.
- 1245 Bechtel personnel (JT and other person) return to site. Preparations to collect samples east of the northeast-southwest baseline in progress.
- 1300 Donald X. Bechtel returns from lunch. Samples east of the baseline to be collected using hand auger as standing water was observed east of the baseline.
- 1330 Sampling begins. Observe photographs for extent of water on the east of the baseline. Approx. initially 2 feet east of the baseline. Hand auger is decanned between

(28)

locations. Rain water approximately 1-2 feet along the east fence, east of the northeast-southwest baseline.

1445 Collection of confirmatory samples for immunosay tests complete. Tests would be done in the ABB trailer. After tests are complete ten samples for shipping to the laboratory will be collected.

1345 Tests begin. Donald X., Bechtel performing the tests in the ABB trailer.

1430 First soil sample tested. Preparations of standardized solutions for comparison begins.

1445 Standardized solution still being prepared. Methodology for the immunosay tests consists of

1. Transfer 10 microliters of soil sample into plastic jar with solvent and mechanical ball bearings.
2. Take one bulb full and transfer to syringe. Take 30 microliters using pipette and transfer into dilution vials. Transfer items from

(29)

dilution vials to buffer solution vials.

After transfer items from buffer solution vials into test tubes with antibody. With antibiody test tube

(in) ~~add~~ keep buffer solution for ten minutes. Add enzymes (three drops) and retain for five minutes. Then away items in test tube

and rinse four times with wash substrate. Solution finally add ~~substrate~~ ~~substrate~~

A and B and retain for 2.5 min.

Add stop solution and verify

results against standardized

solutions using Differential

Photometer

(in) 1350 Testing still in progress. Tests completed

on four samples. Sample 12's tested

are H3 F4, H3 & F2. All tests

were negative. No PCBs detected

In those samples

End of day. Depart trailer

1800

BR/M/AS Ketch BOTA
1/13/95

11/14/95 SWMU 2 - PCB Area

Objective: Assess Anterior Measures at SWMU 2

Personnel: Srin Kuchibhotla, ABB-ES

0730 Arrival on site. Donald and two Sechtel

personnel on site. Inaugural tests

on the confirmatory soil samples

collected yesterday being performed.

0800 Bob and JT of Sechtel performing

the test today. Test being performed

in sets of four. Four samples being

tested by JT and four by Bob.

0900 Testing still in progress. Results of

F6, J6, F3, J4, I1N, L5, G1N, H1N

and I12 did not indicate presence of

PCBs in them.

1015 Testing still in progress. Thirteen samples

completed so far.

1025 Three samples identified PCBs in them.

Sample numbers are F1, G2 and J5.

Sample number G2 did not indicate

presence of PCBs. Seventeen samples

tested so far. Sample numbers K6, G3

I3 and I10 did not identify PCBs

in them. Twenty samples tested so

far.

1030 Tests will be rerun on samples that

identified PCBs in them.

1130 Testing still in progress. Samples

~~1030~~ F1, G2, J5 and G3 were rerun and

no PCBs were identified in those

samples.

1200 Samples L4, M3, I12, K5, G1, J3,

F5 and H1 did not identify PCBs

in them. Twenty eight sample name

been tested so far.

1215 ETS trucking company arrives at tailors

to pick up roll off bins. Depart for

lunch.

1255 Return from lunch. Trucking company

brings back roll off bin and leaves

it in ABB parking lot.

1315 Inaugural tests still in progress.

1430 Samples I2, I13, H2, K4, K3, I12D,

F1N, M2, K2, A3D, G1N & C did not

indicate presence of PCBs in them.

Forty samples have been tested so

far.

1600 Tests on K1D, B5, D1N, B4, F1N, L1N,

B1, B3, C2ND, B1N, C6, C6D, E1,

B6, C5, K1, K1N, J1N, D2 & E6 did

Photographs - Roll 3

20 Immunity tests in progress
29 "

SRINIVAS KUCHIBOTLA
11/14/95

Photographs with Digital Camera
31 Immunity tests being conducted in train
32 "

SRINIVAS KUCHIBOTLA
11/14/95

not indicate presence of PCBs in them Sixty samples completed so far. Samples KIN JIN, D2 and E6 initially indicated PCBs in them. Sample number was reduced from 104 samples to 97 samples with 10 duplicates. Total samples collected 107 samples

1745 Tests on E3N, E2N, E5, A4, B3, O2, C4N, N2, CSD, B2, A2, N1, AS, A3, O1N, E4, BINKA1 did not indicate presence of PCBs in them. Sample

O1 and O4N indicated presence of PCBs in them. D4N will be retested tomorrow. Sample O1 was tested three and all three times immunnassary test indicated PCBs greater than 1ppm in sample 80 samples collected to date. End of day. Depart trailer. Truck arrives to pick up one roll off bin in parking lot. End of day.

SRINIVAS KUCHIBOTLA
11/14/95

11/15/95 SWMU2 - PCB Area
 Objective: Observe Interim Measures at SWMU2
 Personnel: Srin Kuchibotla, AB8 - ES
 0715 Arrival on-site.
 0750 Bechtel personnel arrived on-site.
 0830 Begin immunoassay tests.
 1050 Samples C2N, K2D, C4, L1, M1, D4, A4D, D4N, P1, N2N, C3, E2 and D5 were tested so far. D4N has been retested. D4N was tested yesterday - samples C4, D4, D4N indicated presence of PCBs in them. Rest of samples did not have PCBs. All samples that indicated presence of PCBs greater than 1 ppm were tested twice. D4N indicated presence of PCBs yesterday. 92 samples still in progress. 92 samples have been tested so far.
 1145 Samples A6, J1, D2N, D3N, J2, L2, A1, EIN, D6, AIN, L2, MIN and E3 and MIN indicated presence of PCBs in them. 06 samples have been tested so far. Miscalculation in counting and therefore percent indicated 107 samples.

1215 Bechtel personnel depart for lunch. Analysis complete.
 1315 Bechtel personnel return to site to work on collection of samples for laboratory analysis.
 3415 Depart trailer for conducting water levels at SWMUs 6 & 7.
 1530 Return to trailer. Bechtel personnel not at site. Return to groundwater monitoring site.
 1700 Conversation with Steve Santamaria, Steve indicated that he had taken ten samples for laboratory analysis, ~~two~~ one duplicate, one matrix spike and one matrix spike duplicate. Total samples sent to lab ~~10~~ 11. Fifteen. Two water samples one source blank and one rimate blank were also shipped.

SRINIVAS
 11/15/95
 KCH/BJG

(36)

11/16/95 SWMU 2 - PCB Area

Objective: Observe Interim Measures at QWTP

Personnel: Srln Kuchibotla, ABB-ES

0830 Arrival on-site. Bechtel personnel were ready with a backhoe awaiting arrival of a roll-off bin.

0830 Depart trailer to conduit water conduits at SWMU 6 and 7.

1100 Arrival on trailer. Bechtel personnel still awaiting arrival of roll-off bin on-site.

1230 Roll-off bin arrives on-site. ~~Bechtel~~ ^{Bechtel} ~~arrives~~ ^{begins} excavation of soil in the SWMU.

1330 Excavation still in progress. Roll-off bin placed on ground for loading. Roll-off bin being loaded using front end of backhoe.

1345 Depart for lunch.

1430 Arrival on site. Areas C4 and D4 had been worked (excavated) at. Six inches of soil was removed from ~~area~~ ^{area} C4.

Grids C4 and D4. Confirmatory sampling after ^{soil} ~~soil~~ ^{sample} ~~sample~~ ^{indicated} ~~presence~~ ^{presence} of PCB above ^(ppm) ~~ppm~~ in grid ~~D4~~ ^{D4} and ~~more~~ ^{more} ~~inches~~ ^{inches} eight inches of soil was removed

11/16/95

(37)

A total of 26 inches of soil from excavated from grid D4.

1445 Confirmatory sampling for Grid D4 (final) was in progress. Grids D4N and O2 were being excavated.

1630 Six inches of soil were removed from grids D4N and O2 and soil samples were collected for confirmatory sampling.

Analysis indicated that PCBs were below 1 ppm in the soil samples from those grids. ~~Final confirmatory sampling from grid D4 indicated presence of PCBs ppm.~~ ^{Final confirmatory sampling from grid D4 indicated presence of PCBs ppm.}

1730 Discussion with Srln Santamania, Bechtel in their trailer. Srln mentioned that the six inches of soil removed from grids D4N and O2 could not be

placed in a roll-off bin because the roll-off bin had excessive soil in it. He mentioned that he would

~~excavate~~ ^{fill} dispose this soil in a bin on a later date (next day - 11/17/95)

1805 Depart Bechtel trailer. End of day

SRINIVAS KUCHIBOTLA
11/16/95

11/16/95 Photographs on Camera - Roll 3

18 Excavation at locations D4 and C4 on grid

17 Excavation at location D2 on grid

16 "

15 Excavation at D4N on grid

14 "

Photographs on Digital Camera

33 Excavation at locations D4 and C4 on grid

34 Excavation at location D2 on grid

35 Excavation at location D4N on grid

36 Roll-off bin being loaded at site on 11/16/95

Photographs on Camera - Roll 3

13 Roll-off bin being loaded at site

12 "

SRINIVAS KULUBOTLA
11/16/95

11/18/95 DWTP (SE) 17/18

7/18/95 SWMU 2 - PCB Area

Objective: Observe Status of Interim Measures at Site

Personnel: Sriin Kulubotla, MSB-ES

0900 Steve entered the trench and mentioned that the two wells at the site had been installed. The drill cuttings from the #1 (SE) 12/18 from wells had been placed in the drums. Three drums were used for the deep well and two for the shallow well.

0945 Photographs were taken for the sites after backfilling and well installation.

Photographs taken using Digital Camera

Backfill on - site

" "

" "

4 Monitoring well locations

5 "

11 Photographs taken on Camera - Roll 3

10 Backfilled site

9 "

8 Monitoring Well Locations with drilling fluids

7 Monitoring well locations with drilling
mud and fluids in drums

6 Baled filled site

1030 Steve mentioned that they would be seeding the site today. Seeding would be complete today.

1500 Arrive on site. Seeding complete. Area inside summit and outside have been seeded. End of day

12/19/95 Photographs of SUMU 2.

Objective: Take photographs of SUMU 2 after work is complete.

Personnel: Sirin Kuchibidde, KBK-ES

1045 Photographs taken at site.

Photograph using camera - Roll 3

4 Site after seeding. Work complete 12/19

3 "

2 "

1 "

1200 End of day.

SKIRINIBS
KUCHIBIDDE
12/19/95

ATTACHMENT B
PHOTOGRAPHS



Photo 1: View looking east at the SWMU 2 PCB area.

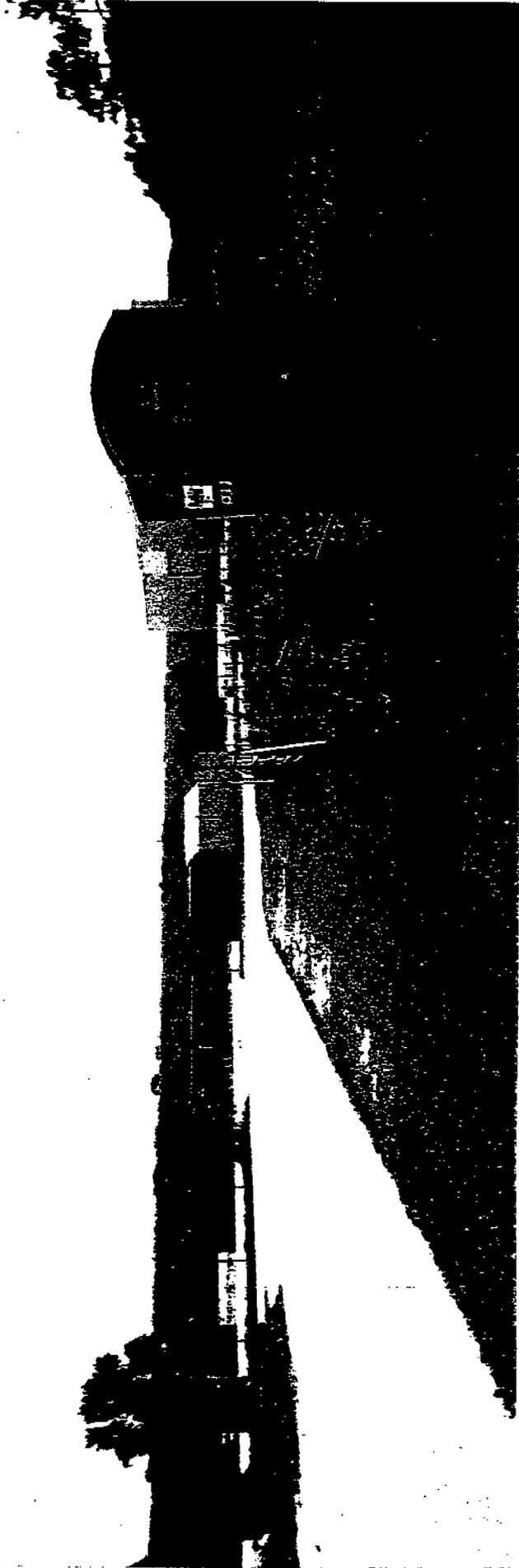


Photo 2: View looking south. SWMU 2 PCB area is on the west (right) side of the photograph and SWMU 2 landfill B is the paved area in front of the berm for the eastern dredge-material holding area (SWMU 50).



Photos 3 and 4: A Bechtel employee is pumping water from drainage ditches after a period of heavy rainfall. The water was discharged to drainage ditches on the other side of the road from the SWMU 2 PCB area. This occurred prior to the excavation activities.

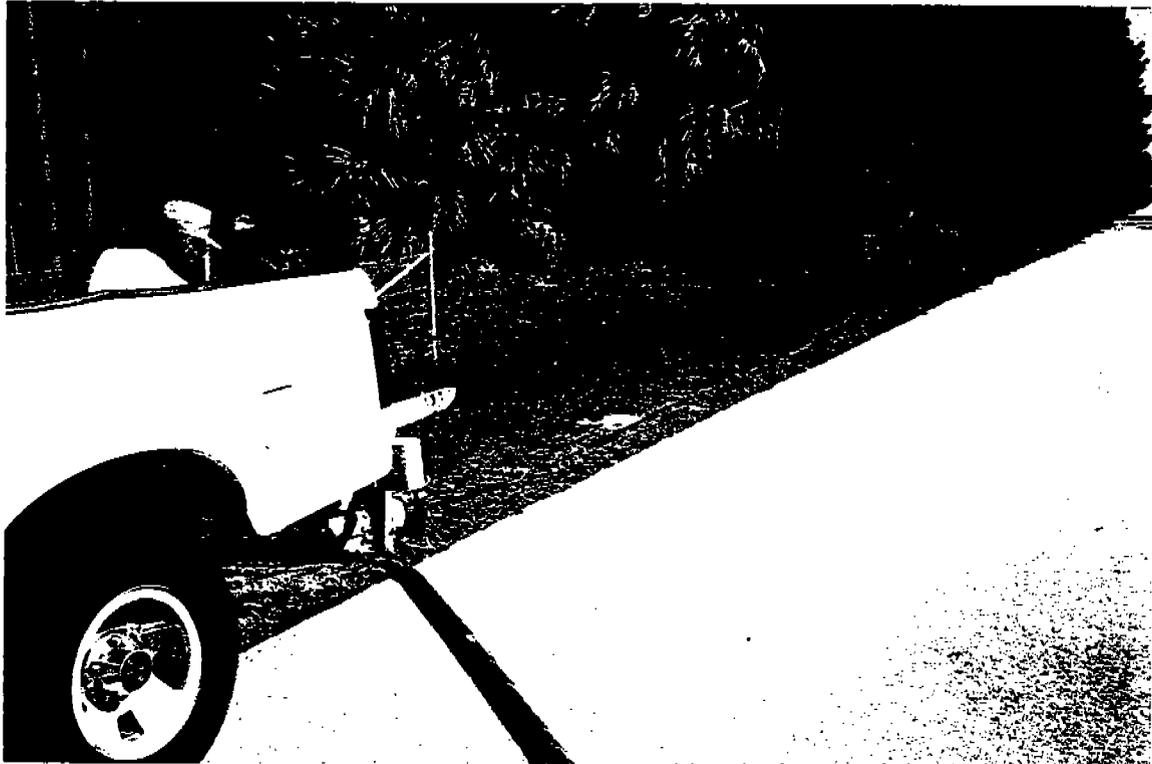




Photo 5: View looking east of the decontamination pit.



Photo 6: Decontamination of the trackhoe.



Photo 7: Decontamination of the trackhoe.



Photo 8: Storage tank OU1, decontaminated water

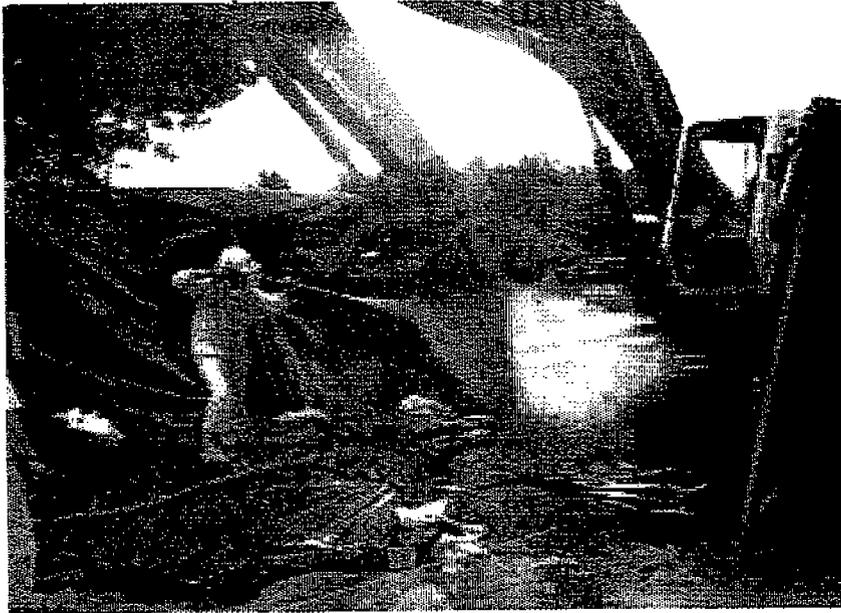


Photo 9: Decontamination of the trackhoe.



Photo 10: Decontamination of the trackhoe.



Photo 11: View looking west of the SWMU 2 PCB area. The stakes mark the grid used to determine the areas requiring excavation (ABB-ES, 1994) (Bechtel, 1995) and are reference points for confirmatory sampling activities.



Photo 12: Monitoring wells MPT-2-MW 95/91 were grouted and abandoned, and the surface completion, concrete pad, protection casings and bumper post were removed. The wells are located in the wooded area to the left (south) of the trackhoe in the top picture.



Photo 13: Trackhoe excavating soil.

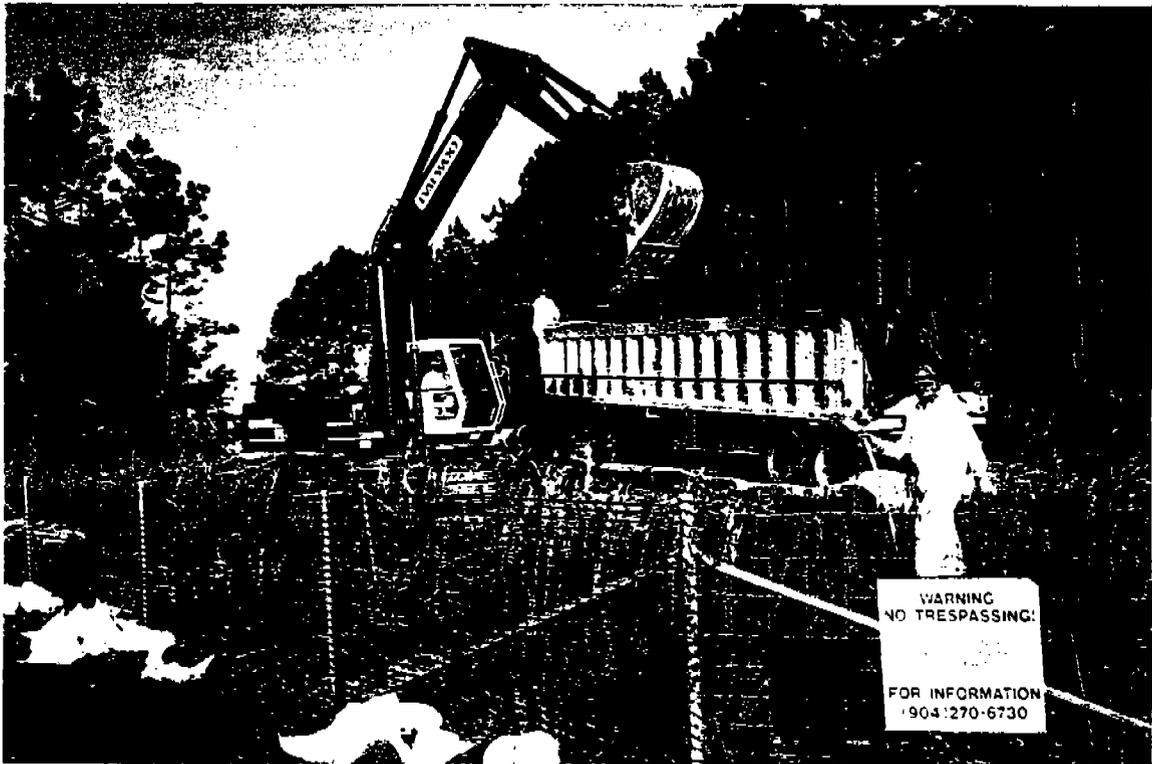


Photo 14: Loading excavated soil into a 20-cubic-yard trailer.

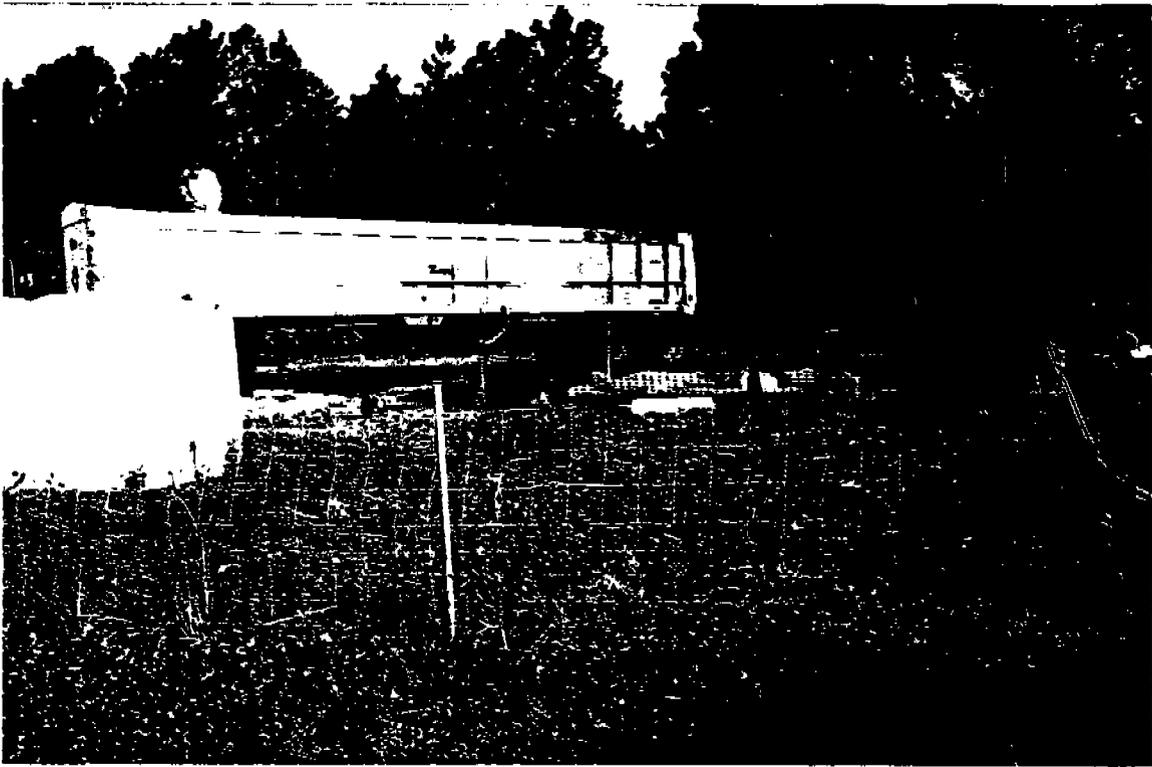


Photo 15: Leveling soil in the 20-cubic-yard trailer.



Photo 16: Loaded 20-cubic-yard trailer covered and ready for transport.

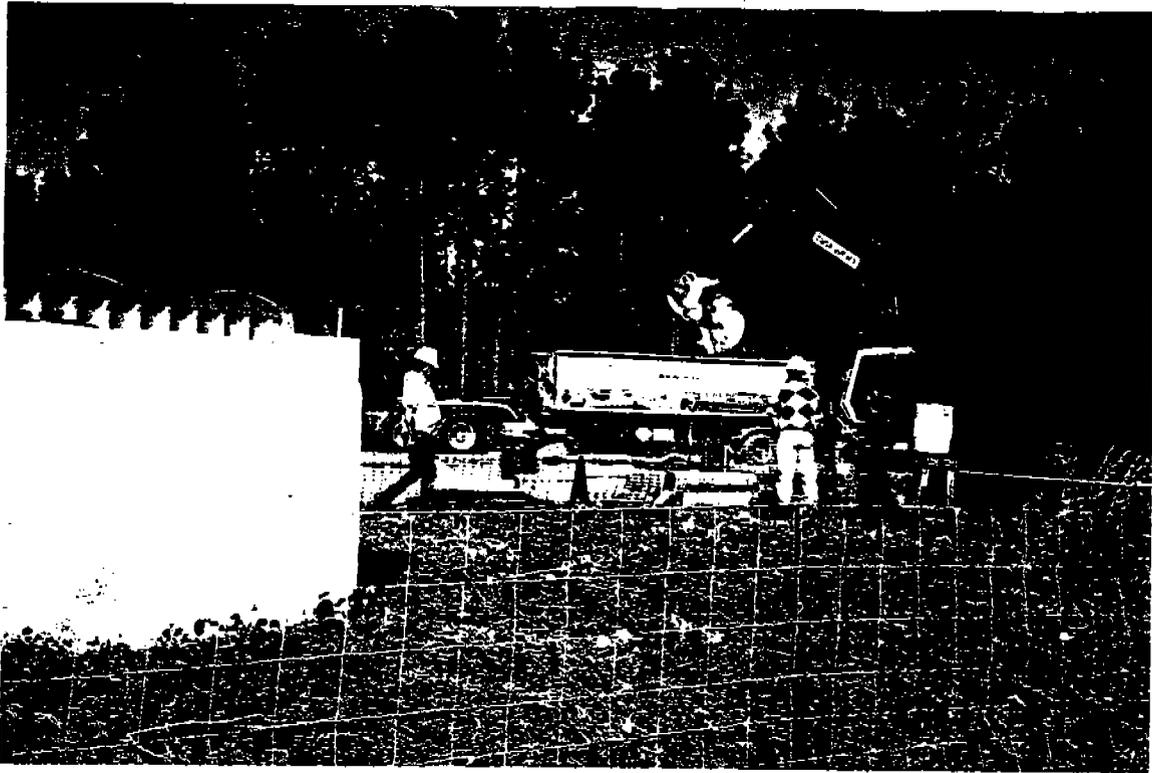


Photo 17: Excavated soil being placed in a 20-cubic-yard roll-off container.



Photo 18: Twenty-cubic-yard roll-off container that has been filled, covered, and awaits transport. The container was temporarily stored in a parking lot across the street (east) of the SWMU 2 PCB site.

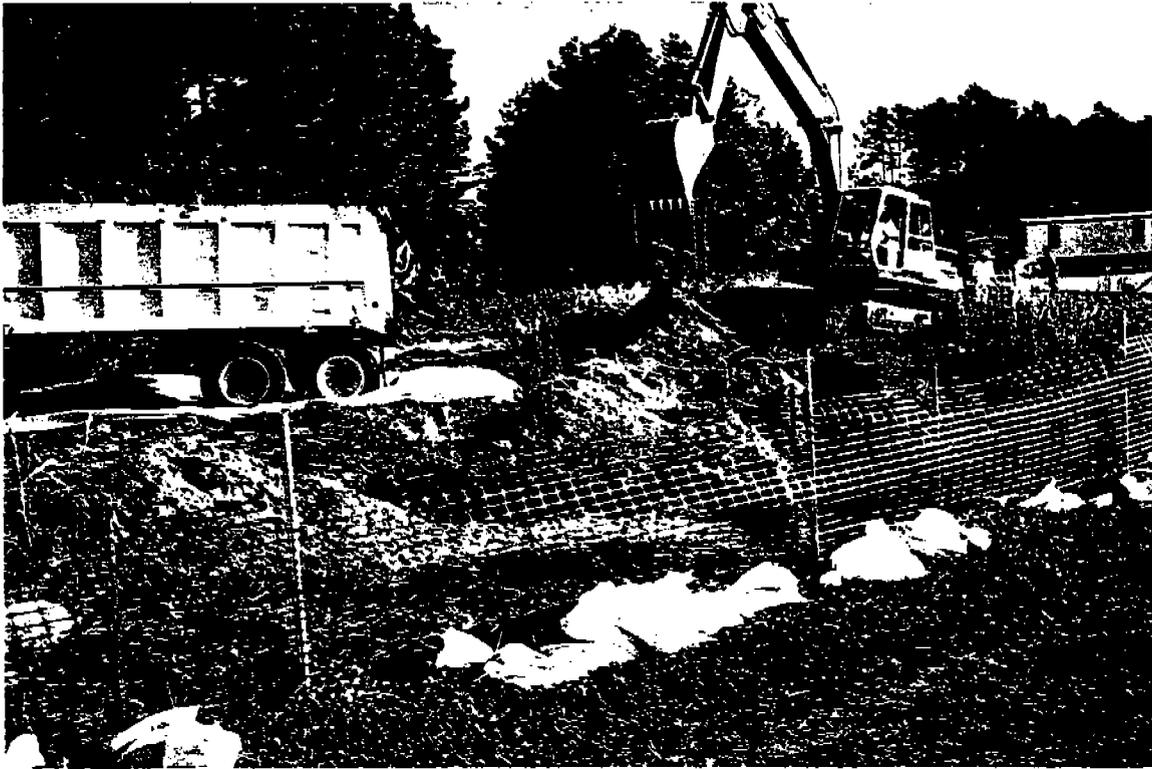


Photo 19: Excavating soil at the SWMU 2 PCB area.



Photo 20: Excavating soil at the SWMU 2 PCB area.



Photo 21: Excavated areas and soil stockpiles covered with polyethylene sheeting.



Photo 22: Excavated areas and soil stockpiles covered with polyethylene sheeting.

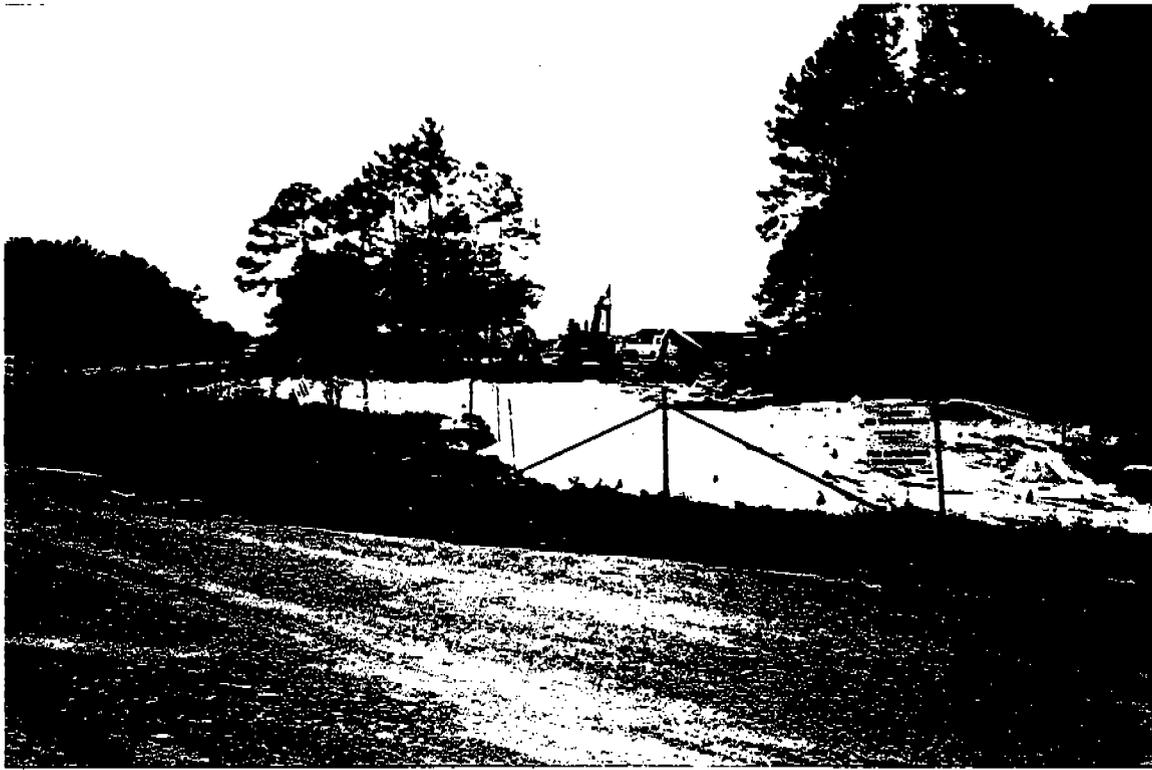


Photo 23: Excavated area covered with polyethylene sheeting.

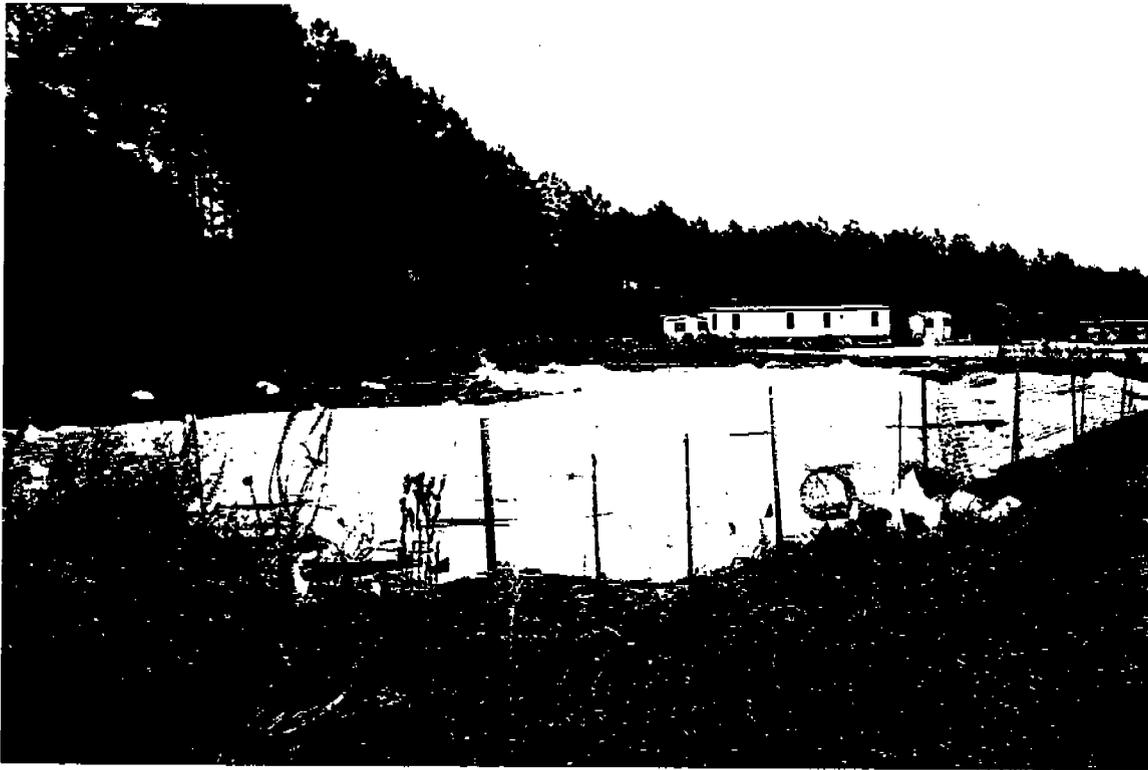


Photo 24: Excavated area covered with polyethylene sheeting.



Photo 25: Excavating the western part of the SWMU 2 PCB site. Water from recent precipitation is contained by the polyethylene sheeting.

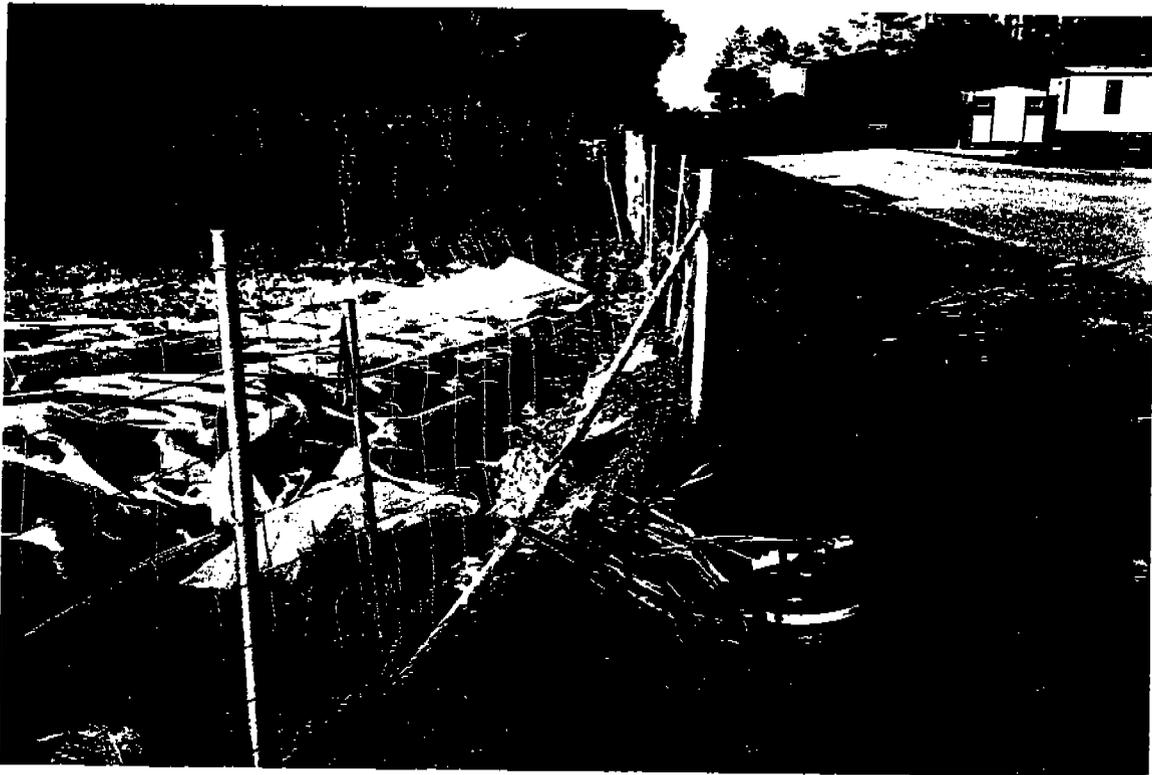


Photo 26: A pump was used to remove rainwater contained by the polyethylene sheeting.



Photos 27 and 28: A trash pump was used to remove rainwater that collected on polyethylene sheeting during precipitation. The water was pumped to a parking lot located across the street (east) of the site.





Photo 29: Excavating soil and loading a 20-cubic-yard trailer.

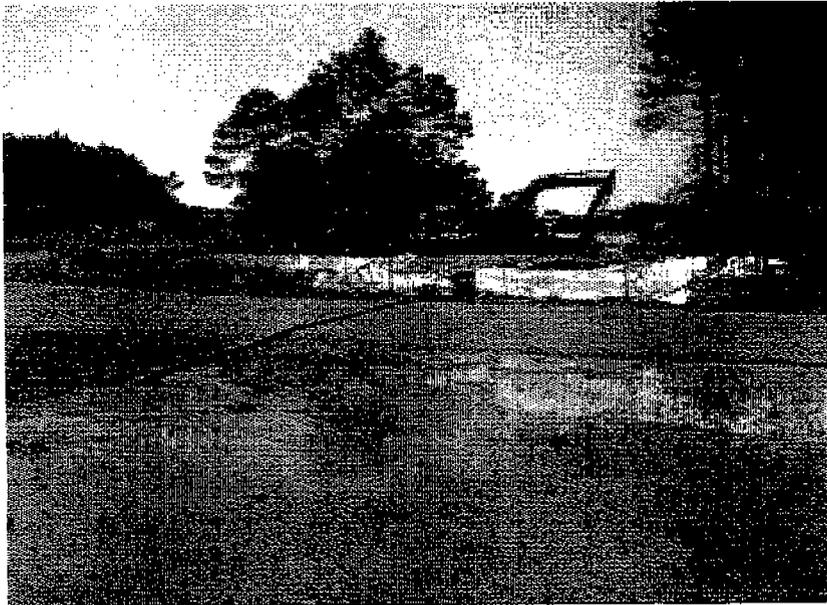
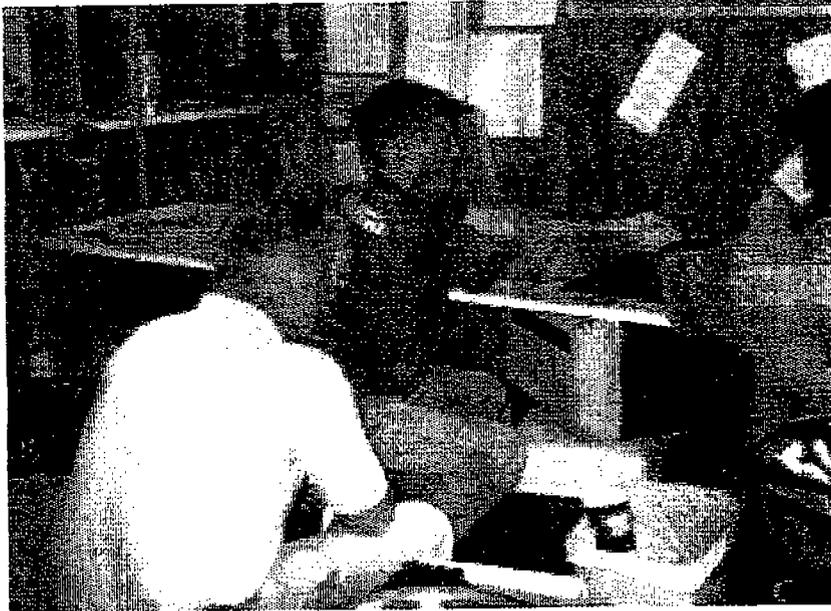


Photo 30: Rainwater that collected on polyethylene sheeting was pumped to a parking lot located across the street (east) of the SWMU 2 PCB site.



Photos 31 and 32: Collecting a soil sample for field screening analysis.





Photos 33 and 34: Analyzing a soil sample using the immunoassay testing kit (ENSYS PCB RIS[®] test kit)



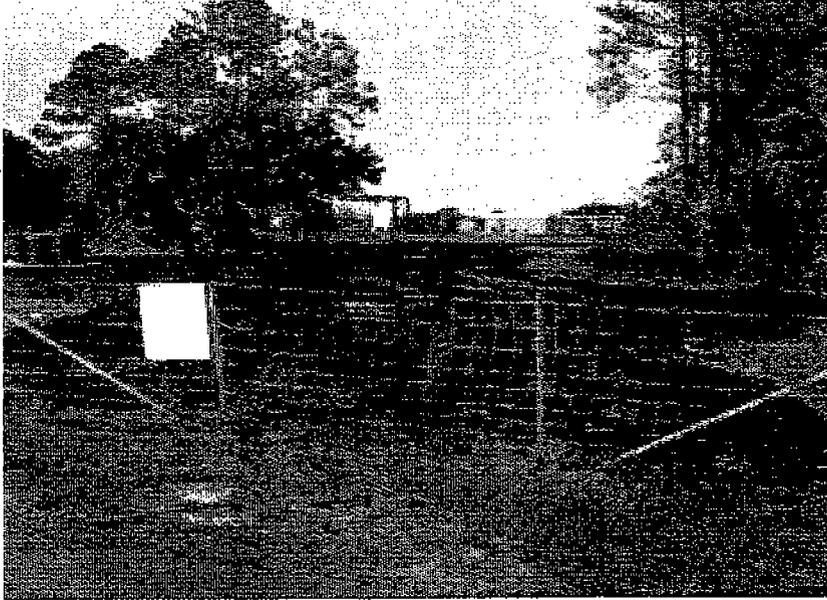


Photo 35: View looking west of backfill material (dark soil) placed at the SWMU 2 PCB site.

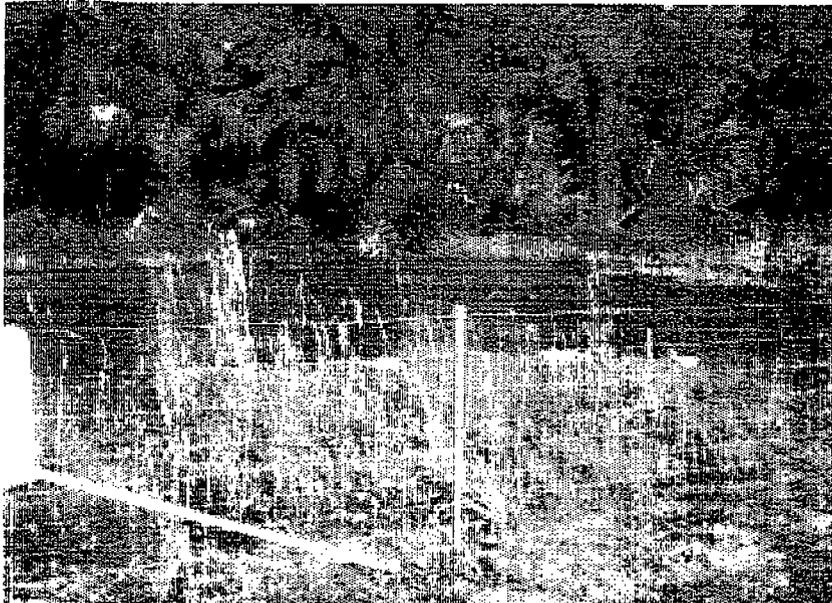


Photo 36: View looking north of backfill material (dark soil) placed at the SWMU 2 PCB site.

ATTACHMENT C
REFERENCES

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- ABB-Environmental Services, Inc., (ABB-ES), 1992, Resource Conservation and Recovery Act (RCRA) Facility Investigation, Group I SWMUs, U.S. Naval Station Mayport (Volumes I and II) (Final), prepared for Southern Division Naval Facilities Engineering Command (SOUTHNAVFACENGCOCM), North Charleston, South Carolina, November.
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