

003B

Post-Remedial Action Letter Report

for

001

Site 2, Phase I

Naval Weapons Industrial Reserve Plant (NWIRP)

Bethpage, New York



Northern Division Naval Facilities Engineering Command

Contract Number N62472-90-D-1298

Contract Task Order 0212

June 1996

C F BRAUN ENGINEERING CORPORATION

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1.0 PROJECT DESCRIPTION

1.1 INTRODUCTION

C F Braun Engineering Corporation (C F Braun) conducted over site activities as part of the Remedial Design, Phase I, for Sites 1 and 2 at the Naval Weapons Industrial Reserve Plant (NWIRP), located in Bethpage, New York. These activities were performed under the Comprehensive Long-term Environmental Action Navy (CLEAN) Contract No. N62472-90-D-1298, Contract Task Order (CTO) 0212. This Post-Remedial Action Letter Report summarizes the work performed by the Remedial Action Contractor (RAC), as identified in the Remedial Design (C F Braun, 1995b) and subsequent project plans (Foster Wheeler, 1995a).

The Bethpage NWIRP which was established in 1933 is located on Long Island, Nassau County, New York. The NWIRP is a Government-Owned Contractor Operated (GOCO) facility operated by Northrup-Grumman Corporation.

The remedial design prepared by C F Braun was for both Sites 1 and 2. As specified in the design, the RAC was to perform additional investigation activities (Post-Design Study) at both Site 1 and Site 2 to confirm the remediation areas. Upon the completion of this investigation it was determined that adequate information existed to conduct the remediation of Site 2. However, the results for Site 1 indicated that the contamination was more wide spread in the horizontal and vertical directions. Therefore, additional investigation activities were required to completely delineate the areas of contamination. As a result of this additional investigation, the Site 1 remediation has been delayed. This Letter Report will only address activities conducted at Site 2, as shown on Figure 1-1.

The Site 2 - recharge basin area is located in the northeast corner of the Navy's property and north of Site 1. It contains three recharge basins which currently receive non-contact cooling water. Historically, these basins also received rinse waters from Grumman operations. Also located on this site are the former sludge drying beds which no longer exist and have been filled in. Sludge from the Plant 02 industrial waste treatment facility was dewatered in these beds before being disposed of off site.

2.0 SUMMARY OF REMEDIAL ACTION

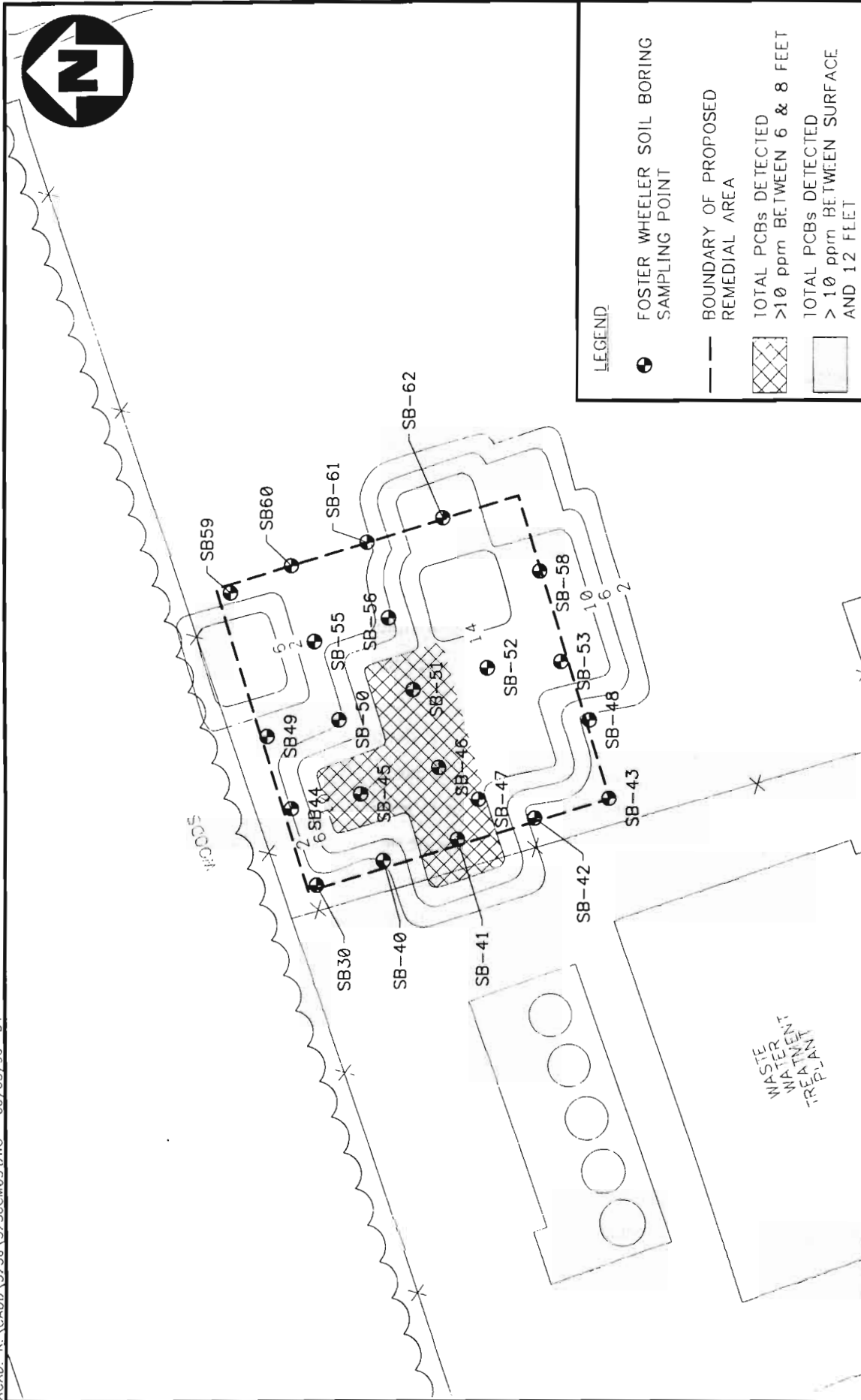
Remedial activities were conducted from March 3, 1996 through May 10, 1996 in accordance with the Project Plans submitted by Foster Wheeler. During this period C F Braun recorded the activities performed by the RAC and presented the information in Weekly Reports (week 1 through week 8). Field activities lasted for eight weeks (Weekly Reports are provided in Appendix A). These reports also included the weekly meeting minutes and any pertinent attachments relating to field activities. To assure accurate information pertaining to the project was recorded in a timely fashion, a field log book was kept by the C F Braun over site engineer and was used to prepare the Weekly Reports. A copy of the field logbook is provided in Appendix B.

2.1 POST-DESIGN STUDY

As indicated in the remedial design, an action level of 10 ppm for concentrations of total PCBs in soil was used by Foster Wheeler to identify Site 2 soils requiring excavation and disposal. All soils in excess of 500 ppm of total PCBs, required incineration. The analytical results from 25 soil borings, installed by Foster Wheeler for the Post-Design Study, were used to identify soil containing PCBs that exceed the action level and to define the horizontal and vertical limits of the proposed excavation (Foster Wheeler, 1995a). Figure 2-1 illustrates the excavation plan prepared for Site 2 based on these analytical results. According to the Pre-excavation Sampling Results, Figure 2-2 depicts the soil areas requiring remediation, total PCBs were detected at concentrations greater than 10 ppm at soil depths between 6 feet and 8 feet in the cross-hatched portion of the excavation and at soil depths between the surface layer and 12 feet in the non cross-hatched area. Based on the soil contained within these horizontal and vertical limits, Foster Wheeler estimated that 2016 cubic yards or 3276 tons of soil containing concentrations of total PCBs greater than 10 ppm would be excavated from Site 2 (Foster Wheeler, 1995b).

2.2 EXCAVATION/DISPOSAL

Excavation of the PCB-contaminated soil was performed at Site 2 between March 3, 1996 and April 24, 1996. According to field directions given by Foster Wheeler, the top 4-foot layer of soil was excavated from the portion of Site 2 indicated by the cross-hatched section of Figure 2-2. This soil was temporarily stockpiled at Site 2 as Soil Pile A and Soil Pile C, to be used as clean backfill following excavation. The remaining soils excavated from Site 2 were loaded into dump trailers and transported to the railroad transfer station located in Farmingdale, New York, for transfer to rail car and final disposal at the Grayback Mountain hazardous waste landfill located in Clive, Utah. The material was identified as a Solid



SITE 2
PCB CONCENTRATION AREAS OF EXCAVATION
NWIRP, BETHPAGE, NEW YORK

FIGURE 2-2

C F BRAUN

a minimum compaction of 95% was achieved. Compaction and geophysical test results are included in Appendix F.

2.3.1 Stockpile Material

The material placed in stockpiles identified as A and C were tested by C F Braun to verify they did not contain PCBs at concentrations that exceeded 10 ppm. A five part composite sample was collected from each pile and submitted for analysis. The location where the samples were collected is shown on Figure 2-3. The results of the analysis on the composite sample for Stockpile A was 4.7 ppm total PCBs and Stockpile C was 6.0 ppm. These results were in the range where dilution due to compositing could result in a false negative value for one of the individual sample, therefore, each sample was analyzed separately and the results of the analyses are as follows:

<u>Stockpile</u>	<u>Sample Identification</u>	<u>Total PCB Concentration</u>
A	SPA-01	6.50 ppm
A	SPA-02	3.50 ppm
A	SPA-03	4.20 ppm
A	SPA-04	2.70 ppm
A	SPA-05	2.80 ppm
C	SPC-01	4.40 ppm
C	SPC-02	4.70 ppm
C	SPC-02FD	5.00 ppm
C	SPC-03	4.80 ppm
C	SPC-04	3.50 ppm
C	SPC-05	5.50 ppm

The results indicated that both stockpiles were applicable for use as backfill. A copy of the laboratory submittal is provided in Appendix I.

2.3.2 Backfilling Operation

Backfill material included stockpiles A and C and material from an off site source. The offsite material was from American Materials Inc. located in Kings Park, New York. The approximate amount of offsite material provided was the following:

Screened Sand:	2,440 tons
Bankrun:	787 tons
Process Fill:	2,500 tons

A copy of the offsite backfill material delivery tickets are provided in Appendix J. The material was placed in 1 to 2 foot lifts and compacted with a vibrating roller. Soil compaction testing was performed by Materials Testing Lab Inc. under a subcontract to Foster Wheeler. The results of the testing is provided in Appendix F.

3.0 CONFIRMATORY SAMPLING

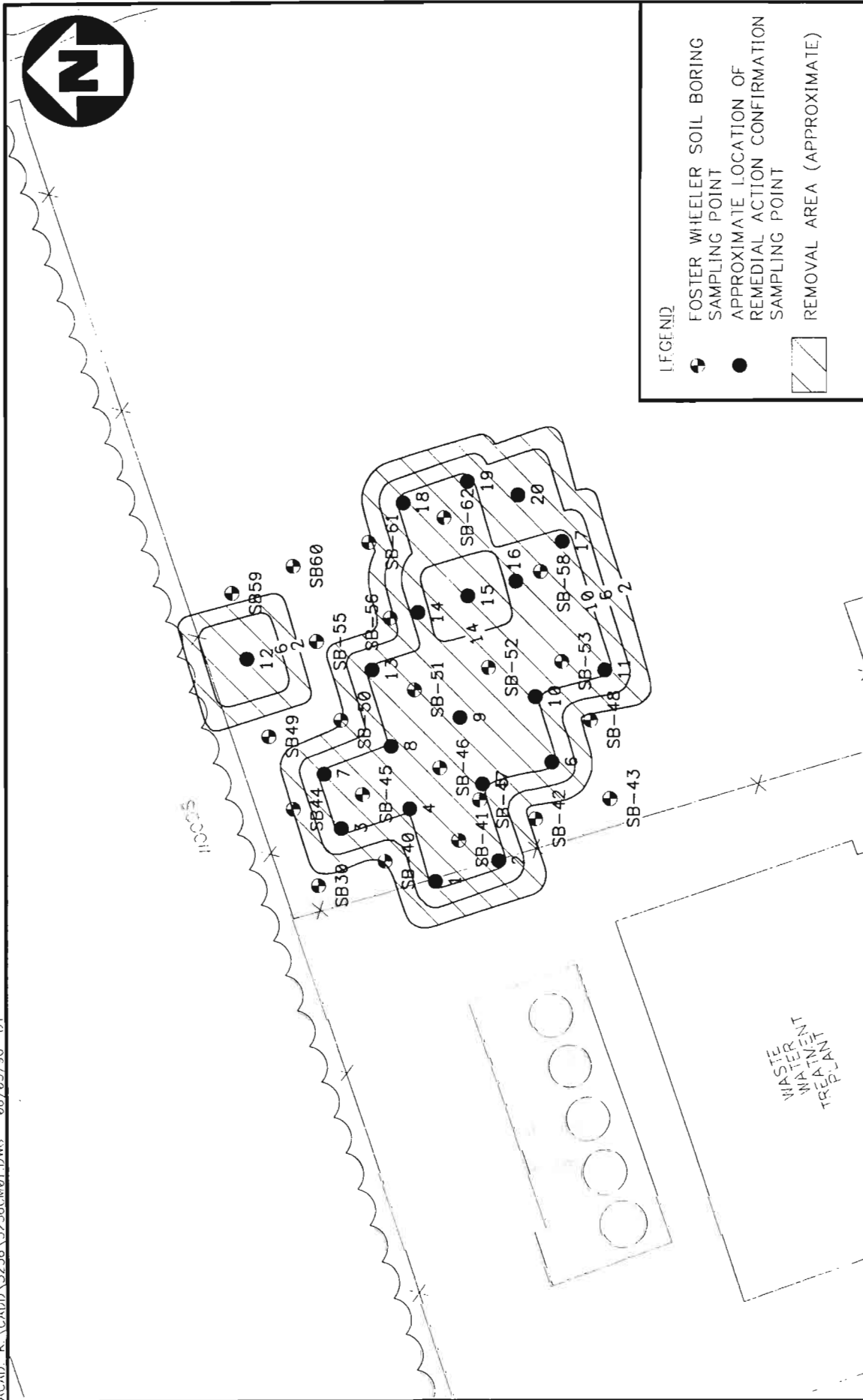
Analytical results generated by field test kits and a fixed-based laboratory were used at Site 2 to confirm that soil containing total PCBs at concentrations greater than 10 ppm had been excavated from within the horizontal and **vertical** limits established by Foster Wheeler. Samples were collected along the base of the excavated area according to the Remedial Action Verification Field Sampling and Analysis Plan prepared by Foster Wheeler and C F Braun (C F Braun, 1995a).

3.1 FIELD TEST KITS

Preliminary field screening of the excavated portions of Site 2 was performed by a Foster Wheeler field team using an OHMICRON RAPID Assay kit for total PCBs. Following excavation of a portion of Site 2 to the predetermined horizontal and vertical limits, field test samples were collected at the base of the excavation according to the C F Braun Sampling Plan (C F Braun, 1995a). In general, the field test kits correlated well with the analytical results generated from soil samples delivered to the fixed-based laboratory. At soil sample locations where the field test kit analytical results were below the 10 ppm action level for concentrations of total PCBs, excavation was stopped and a soil sample was collected by a C F Braun field representative for analysis by a fixed-based laboratory. At soil sample locations where field test kit analytical results exceeded the 10 ppm action level for concentrations of total PCBs, the area containing the sample location was re-excavated and then resampled using the field test kit. This procedure was repeated until the field test kit analytical result at that particular sample location was below the 10 ppm action level. Table 3-1 summarizes the field test results generated by the field test kit. Figure 3-1 shows the locations of the samples.

Additional removal was conducted based on the RAC field kit analysis at three locations.

- Soil sample locations 1 and 7 were re-excavated on 4/10/96 because the initial field test samples collected at these 2 locations exceeded the 10 ppm action level for total PCBs. The re-excavated soil volume was approximately 10 feet by 10 feet by 2 feet in each area.
- Soil sample location 1 was re-excavated a second time on 4/12/96 because the field test sample collected at that location exceeded the 10 ppm action level for concentrations of total PCBs. The re-excavated soil volume was approximately 10 feet by 10 feet by 2 feet. Locations 1 through 8 were resampled a second time and analyzed by the field test kits to



SITE 2
REMEDIAL ACTION VERIFICATION SAMPLING LOCATION MAP
NWIRP, BETHPAGE, NY

FIGURE 3-1

CF BRAUN

TABLE 3-2

SITE 2 - FIXED-BASED LABORATORY CONFIRMATORY RESULTS
 NWIRP, BETHPAGE, NEW YORK

Date Sampled	Sample ID	Sample Location	Total PCB Concentration ⁽¹⁾
4/12/96	S2-A-01	1	1.00 ppm
4/12/96	S2-A-02	2	0.17 ppm
4/12/96	S2-A-03	3	6.70 ppm
4/12/96	S2-A-04	4	3.00 ppm
4/12/96	S2-A-05	5	1.10 ppm
4/12/96	S2-A-06	6	0.19 ppm
4/12/96	S2-A-07	7	8.60 ppm
4/12/96	S2-A-08	8	4.10 ppm
4/12/96	S2-A-12	12	0.11 ppm
4/12/96	S2-A-13	13	19.00 ppm
4/12/96	S2-A-29	Duplicate of S2-A-03	5.60 ppm
4/22/96	S2-A-13R	13 (after additional removal)	4.90 ppm
4/22/96	S2-A-09	9	4.00 ppm
4/22/96	S2-A-10	10	1.40 ppm
4/22/96	S2-A-11	11	< 0.03 ppm
4/22/96	S2-A-14	14	1.80 ppm
4/22/96	S2-A-15	15	0.69 ppm
4/22/96	S2-A-16	16	5.5 ppm
4/22/96	S2-A-17	17	2.3 ppm
4/22/96	S2-A-18	18	0.68 ppm
4/22/96	S2-A-19	19	1.40 ppm
4/22/96	S2-A-20	20	2.40 ppm
4/22/96	S2-A-30	Duplicate of S2-A-16	6.70 ppm

(1) The only PCB detected was AROCLOR-1248, all other PCBs were non-detects.

4.0 SUMMARY AND CONCLUSIONS

The RAC performed remedial action activities for Site 2 at NWIRP. The purpose of the remedial action was to remove PCB contaminated soil that had concentrations in excess of 10 ppm. Work commenced on March 3, 1996 and was completed on May 10, 1996.

During the remedial action, a total of 7,239 tons of PCB contaminated soil was excavated and disposed of at the Grayback Mountain hazardous waste landfill located in Clive, Utah. Removal of all PCBs at concentrations in excess of 10 ppm were verified through field test kits and fixed based laboratory analysis

Following excavation, sample locations from the approved Sampling and Analysis Plan were sampled by RAC personnel. These samples were analyzed using an OHMICRON RAPID Assay kit for total PCBs. If the total PCB concentration was below 10 ppm, then C F Braun personnel collected samples for fixed based laboratory analysis. If the test kit or the fixed based laboratory analysis indicated that PCB concentrations exceeded 10 ppm, then additional soil was removed and the location was resampled. This procedure was repeated until all PCB contamination in excess of 10 ppm was removed from Site 2.

Based on the remedial action and the confirmation sampling it can be concluded that all PCB contamination in excess of 10 ppm was removed from Site 2 and disposed of properly.

REFERENCES

C F Braun Engineering Corporation, 1995a. Remedial Action Verification Field Sampling and Analysis Plan for Sites 1 and 2, Phase I, Naval Weapons Industrial Reserve Plant. December 1995.

C F Braun Engineering Corporation, 1995b. Final Submission for Remedial Design, Sites 1 and 2, Phase I, Naval Weapons Industrial Reserve Plant. June 1995.

Foster Wheeler Environmental Corporation, 1995a. Forwarding of Pre-excavation Sampling Results. December 11, 1995.

Foster Wheeler Environmental Corporation, 1995b. Project Plans; October 12, 1995b.

APPENDIX A

WEEKLY ACTIVITY REPORTS



C F Braun

**Weekly Progress Report - Week 1
3/19/96 to 3/22/96
CTO 212 - Site 2 Remediation
NWIRP Bethpage, NY
Prepared by: Craig Farkos**

The following activities occurred during Week 1:

Tuesday 3/19/96:

- * Michael Snyder arrives at Site 2 as a C.F. Braun representative for construction oversight.
- * The RAC, Foster Wheeler Corporation, clears and grubs Site 2 in preparation for excavation.
- * The horizontal limits of excavation at Site 2 are established by the construction crew based on analytical results from 25 soil samples collected by Foster Wheeler prior to excavation (Foster Wheeler, 1995)(Figure 1 enclosed).
- * The construction crew removes the top 1 foot to 2 foot layer of clean soil from the northwest section of Site 2 identified using the analytical results from the pre-excavation soil samples. This clean soil is stockpiled at Site 2 in the area of soil sample SB54 and in the area of soil sample SB63.

Wednesday 3/20/96:

- * Craig Farkos arrives at Site 2 as a C.F. Braun representative for construction oversight.
- * C. Farkos and M. Snyder meet with Bob Ingram and Al Taormina of the Navy to review site operations.
- * Items covered during the meeting included:
 - William Dolhancay of Foster Wheeler will issue daily construction reports to the REICC office. Each of these reports will be routed to the C.F. Braun representative for review and written comment prior to final delivery to the Navy REICC.
 - B. Ingram and A. Taormina note that they are looking to C.F. Braun representatives to provide oversight services and manifest handling and to keep the Navy REICC office informed as to site developments and construction plans.
 - C. Farkos informs B. Ingram and A. Taormina that 7-day turnaround on confirmatory soil samples may be improved by taking half the confirmatory samples on half the excavated site while the other half of the site is beginning to be excavated. B. Ingram and A. Taormina suggest that C. Farkos look into potential cost increases related to performing 2-day sample analysis turnaround on confirmatory samples collected from each of the excavated halves of Site 2.
- * B. Dolhancay informs C.F. Braun representatives that some of the surface excavation extended beyond the clean surface layer. Consequently, the 2 soil stockpiles have been declared to be contaminated with some concentrations of PCB's. These 2 piles were covered by plastic sheeting and were kept separate from any additional clean surface soil excavated from the site.

Thursday 3/21/96:

- * Foster Wheeler project manager for Site 2 remediation, Howard Lazarus, arrives at the site.
- * C Farkos and M. Snyder provide H. Lazarus with a copy of the C.F.Braun excavation design documents and specifications.
- * C. Farkos, M. Snyder, B. Ingram, B. Dolhancay, H. Lazarus meet at REICC office to review construction plans.

Also, David Ardito, project manager for Laidlaw Corporation, joins the meeting through teleconference call.

- * The construction crew continues to remove the clean surface soil layers from the Site 2. Also, the construction crew stockpiles all site debris at the northwest corner.

Friday 3/22/96:

- * The materials for construction of the decontamination pad are delivered to Site 2. The decontamination pad is constructed as a 14 foot by 25 foot by 2 foot deep pit. The base of the pit is covered by a 4-inch layer of sand. The sand layer is then covered by a 40 mil liner. The liner is covered by another 4-inch sand layer which is then covered by a layer of stone. A water collection sump and sump pump are located in the lower corner of the pad.
- * Ten empty 55-gallon drums are delivered to the site and will be used to contain the decontamination water.
- * C. Farkos and M. Snyder visit the railroad yard to inspect the unloading ramp. The ramp is constructed of steel beams with a railroad-tie decking. A worker informs the two that an empty truck was driven up the ramp yesterday without incident.

C F Braun

Weekly Progress Meeting - Week 1
March 21, 1996
CTO 212 - Site 2 Remediation
NWIRP Bethpage, NY

List of Attendees:

Craig Farkos	C.F. Braun
Mike Snyder	C.F. Braun
Bob Ingram	Navy
Bill Dolhancay	Foster Wheeler
Howard Lazarus	Foster Wheeler
David Ardito	Laidlaw Corp. (through teleconference)

Meeting Minutes:

- * Items reviewed in the meeting include:
 - D. Ardito faxed a copy of the proposed PCB-contaminated-soil shipping manifest and step-by-step manifest signing and copy distribution instructions to the meeting group (Attachment 1). D. Ardito assures B. Ingram that signed copies of the manifest will be provided to the REICC office after each of the loaded trucks has been weighed at the site. The loaded truck will not leave the site until these signed copies have been given to the REICC office. The REICC office will also be given photocopies of the manifest signed by railroad transporter following transfer of the PCB contaminated soils to the railroad cars. Finally, copies of the manifests signed by the landfill operator will be delivered to the REICC after the soil has been received at the Utah landfill. D. Ardito notes that the truck dump site at the railyard will be manned by a Laidlaw representative, Phillip Embrescia, and that protective plastic sheeting will be used at the railyard to collect any spilled soil.
 - B. Ingram, M. Snyder and C. Farkos question H. Lazarus regarding construction of an equipment decontamination pad at Site 2. H. Lazarus informs the group that he is initially inclined to not construct a pad at the site. H. Lazarus notes that no decontamination pad was requested by the Navy personnel who attended the initial site visit in the fall of 1995. M. Snyder notes that a pad will be required to clean the excavation equipment at the end of the job. C. Farkos notes that decontamination operations were mentioned several times in the Foster-Wheeler Work Plan for Site 2. B. Ingram notes the potential for community complaints if soil is tracked onto public roadways. For these reasons, H. Lazarus agrees to construct a decontamination pad at Site 2 for excavation equipment cleaning and dump truck cleaning.
 - B. Ingram notes that a progress meeting will be held at 10:30, on Thursday of each week that the Site 2 project continues. C. Farkos agrees to prepare a report of the meeting minutes for distribution to all represented groups.
 - B. Dolhancay notes that excavation is tentatively scheduled to begin on Monday, March 25th. Approximately 2000 cubic yards of soil will be excavated and removed from Site 2 during this remediation. Four dump trucks, each with a 23 cubic yard capacity will be used on a daily delivery rotation between Site 2 and the railroad yard. B. Dolhancay estimates that each of the 4 trucks will make 5 round trips each day. The clean trucks will arrive at the site on the first day. The wheels will be decontaminated prior to leaving the site on each delivery. The empty truck bed will be sealed at the railroad yard after each load dump. The truck beds will not be completely decontaminated at the site. Laidlaw is responsible for completely decontaminating the truck beds following the final delivery of PCB-contaminated soil from the Site 2. Five railroad cars shall be filled per day.

LAIDLAW
ENVIRONMENTAL
SERVICES

David A. Ardito
Sales Manager
Special Projects

To: Bill Dolhancey @ Foster Wheeler
cc: Al Taormina @ US Navy
From: David A. Ardito/LES
Date: 03/20/96 05:34:28 PM
Subject: Transportation Steps

The following are the steps Laidlaw Environmental Services, Inc. will follow to properly manifest and transport waste materials from the US Navy Site in Bethpage, NY to Laidlaw's Grassy Mountain Facility in Clive, UT.:

Trucks will be dispatched by Laidlaw to the loading site.
Foster Wheeler will load contaminated soils in each truck not exceeding 24 tons.
The trucks will go to the Grumman scale house to be weighed.
If the weight is acceptable, pounds are converted to kilograms.
That figure is placed on the manifest in Section G.
A Navy representative will sign the manifest as well as the Laidlaw driver.
Three parts of the manifest are left with the Navy Representative.
The driver delivers the soil to the transloading site in Farmingdale, NY.
The LIRR signs the manifest after dumping and retains a copy.
Copies of the original manifest are made by Laidlaw's Project Manager.
These copies are for Navy, Foster Wheeler and loaded railcar.
The railcar is tarped and ready for pickup by LIRR.

A discussion to further describe this process will occur on 3/21/96 at 1:30 PM EST as well as the first day of loading, 3/25/96.

Due Date:
Attention Priority: Normal



STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION
HAZARDOUS WASTE MANIFEST
P.O. Box 12820, Albany, New York 12212

Form Approved OMB No. 2050-0033. Ex...

Please print or type. Do not Staple.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA No. NYD 002047967	Manifest Document No.	2. Page 1 of 3	Information in the shaded area is not required by Federal law.
Generator's Name and Mailing Address MAILSTOP A-41-03, NMIRP NAVY PLANT 3 GRUMMAN AEROSPACE CORP., BETHPAGE, NY 11714-3593		U.S. NAVY-REICC-BETHPAGE		State Manifest Document No. NY 8729128	
4. Generator's Phone (516) 575-2121		Generator's ID SAME		State Generator's ID 085	
Transporter 1 (Company Name) Wills Trucking		6. US EPA ID Number QHD 068913409		State Transporter's ID 800-571	
Transporter 2 (Company Name) Long Island Railroad		8. US EPA ID Number NYD 980641623		State Transporter's ID N/A	
Designated Facility Name and Site Address 05 Pollution Control, Grayback Mountain Facility 3 Mi. East 7 Mi North of Knolls Exit 41 off I80 Clive, UT 84029		10. US EPA ID Number UTD 991301748		State Facility's ID N/A	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity	
a. RD, Environmentally Hazardous Substances, Solid, N.O.S. 9, UN 3077, PG III (PCB) (Marine Pollutant)		No. Type		Unit	
b. 23.75 tons lbs 20,800 kg <i>95 ton/22 car</i> 20 - 23 tons/drum x .454 = kg		0 0 1 D T		K	
c. Refuse 3,48					
d.					
J. Additional Descriptions for Materials listed Above 0895-0010		K. Handling Codes for Wastes Listed			
a.		b.			
b.		c.			
b.		d.			
15. Special Handling Instructions and Additional Information Emergency Contact Number - Al Taormina 516-575-2121 Out of Service Date _____ Railcar # _____					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, hazard class, and are in all respects in proper condition for transport by highway according to applicable international and national regulations and state laws and regulations. If I am a large quantity generator, I certify that I have program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method treatment, storage, or disposal currently available to me which minimizes the present and future threat to health and the environment; OR if I am a small generator, I have made a good faith effort to minimize my waste and select the best waste management method available to me and that I can afford.					
Printed/Typed Name		Signature		M...	
17. Transporter 1 (Acknowledgement of Receipt of Materials)					
Printed/Typed Name		Signature		M...	
18. Transporter 2 (Acknowledgement or Receipt of Materials)					
Printed/Typed Name		Signature		M...	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		M...	

In case of emergency or spill immediately call the National Response Center (800) 424-9602 and the N.Y. Dept. of Environmental Conservation (516) 457-7382.

GENERATOR

TRANSPORTER

FACILITY

C F Braun Engineering Corporation

Foster Plaza VII
661 Andersen Drive
Pittsburgh, PA 15220-2745

(412) 921-7090
FAX: (412) 921-4040

C-49-04-6-040

April 6, 1996

Project Number 5236

Mr. Steven Lehman (Code 4051/SL)
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop No. 82
Lester, PA 19113-2090

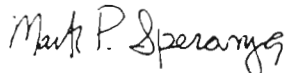
Reference: CLEAN Contract No. N62472-90-D-1298
Contract Task Order 0212

Subject: Northern Division, Naval Facilities Engineering Command
Naval Weapons Industrial Reserve Plant, Bethpage, New York
Transmittal of Weekly Report and Meeting Minutes from Progress Meeting No. 2

Dear Mr. Lehman:

You will find enclosed one (1) copy each of the Weekly Report and meeting minutes from the Progress Meeting No. 2. If you have any questions or require additional information, please call me at 412-921-8916.

Very truly yours,



Mark P. Speranza, P.E.
Project Manager

MPS/dt

Enclosure

c: Mr. Roger Boucher, NORTHDIV (w/o enclosure)
Mr. Paul Briegel, NORTHDIV
Mr. Jim Colter, NORTHDIV
Mr. Al Taormina, Navy REICC
Mr. Bob Ingram, Navy
Mr. Howard Lazarus, Foster Wheeler
Mr. Bill Dolhancay, Foster Wheeler
Mr. David Ardito, Laidlaw Corporation (minutes only)
Mr. John Trepanowski, C.F. Braun
Mr. Daryl Hutson, C.F. Braun
Mr. Craig Farkos, C.F. Braun
File 5236

C F Braun

Weekly Progress Report - Week 2

3/25/96 to 3/29/96

CTO 212 - Site 2 Remediation

NWIRP Bethpage, NY

Prepared by: Craig Farkos

The following activities occurred during Week 2:

Monday 3/25/96:

- * Excavation and shipping of PCB-contaminated soil to the Laidlaw facility at 1600 Highland Ave (railroad yard) begins today. Four 18-wheel trucks (app. 23 ton capacity) supplied by Wills Trucking Inc are making the soil shipments. Each truck is weighed empty, filled, then reweighed full. Each truck then leaves the site.
- * David Ardito of Laidlaw arrives in Bethpage to direct soil transfer activities at the railyard. He reviews manifest handling procedures with A. Taoramina and B. Ingram. The ROICC office retains copies 3,4 and 8 after filling in the shipping weight, manifest document number, and signing. Another photocopy with the railyard director's signature will be furnished to the ROICC office after the soil has been transferred into the railroad car.

The following truck identifications are being used:

<u>Truck Cab No</u>	<u>Trailer Body No.</u>	<u>Weight Ticket Code No.</u>
138	439	88
132	489	94
82	446	91
78	346	92

- * Excavation being performed at northwest corner. Also stockpiled PCB-contaminated soil being removed from this northwest corner. Each truck has its wheels sprayedcleaned on the decon pad prior to leaving the site.
- * C. Farkos and B. Ingram visit the Laidlaw dumpsite at the railroad yard. Upon arriving at the site we see P. Embruccia shoveling PCB-contaminated soil from under the ramp into a front end loader bucket. Approximately 2 cubic yards of soil had been spilled from the dump truck onto the ground. No PPE is being worn by P. Embruccia or the other two laborers working with the soil. When asked by B. Ingram, the 2 laborers note they are not aware that the soil was contaminated with PCBs. D. Ardito acknowledges that the men should be wearing PPE but that the shipment had not yet arrived. D. Ardito is also advised that the bucket of the front end loader would have to be decontaminated. Also, all spilled soil would have to be placed into the rail car before the end of the day. Rail cars are covered by tarp at the end of the day.
- * M. Snyder finishes project oversight duties today and returns to Wayne, PA office.
- * No daily reports have been submitted by Foster Wheeler to date.

Tuesday 3/26/96

- * Soil excavation continues in the northwestern section of Site 2 in the area of sample SB41. PCB-contaminated soil stockpiled under the plastic sheeting in the northwest portion of Site 2 is being removed from the site. An additional stockpile of PCB-contaminated soil is covered by plastic sheeting in the southeastern portion of Site 2. Dust at Site 2 is being controlled using water sprayed from a garden hose and nozzle.
- * All workers at the railroad yard are now wearing appropriate PPE. According to B. Dolhancey, the two laborers and P. Embroccia do not have 40-hour health & safety certificates on file with the Foster-Wheeler H& S office. B. Dolhancey notes that a spill report was not required for the soil deposited under the truck ramp on 3/25/96 because this soil was captured on plastic sheeting and transferred to the railroad car.
- * Foster Wheeler assigns a worker to full-time duty operating the scale house.
- * C. Farkos questions the Foster Wheeler H & S manager regarding the work plan for air monitoring. According to the FW Work Plan, three air monitoring stations are to be located at Site 2. The H & S manager notes that she had issued a letter informing the Navy that the monitoring stations would be replaced by 1 hand-held monitor operated at Site 2 by the H & S manager. A copy of the letter is enclosed.

Wednesday 3/27/96

- * PCB contaminated soil stockpiled in the southeast corner of the site since 3/20/96 is being loaded into the trucks and transferred to the railyard. Based on weight tickets, a total of 134 tons of soil has been moved from this pile.
- * David Evans and John Barnes of the New York State Department of Environmental Conservation arrive at the Site 2 with A. Taoramina. They observe site activities including excavation, truck loading, and truck decontamination. The wind and sun had evaporated much of the moisture contained in the soil during the morning. A cloud of dust was created by one of the trucks entering Site 2, and this cloud moved in the direction of the houses adjacent to Site 1. The water truck that had been delivered to the site earlier in the morning was filled with Grumman well water from a hydrant located near the water treatment plant, and this water was sprayed over the Site 2 work area. A. Taoramina was to determine if this water was potable or not.
- * C. Farkos visits the railyard and notes that the two laborers previously working on the dump ramp are now working with the uncontaminated rail cars. According to D. Ardito, the Laidlaw laborer working on the dump ramp has received 40-hour health & safety training. Some soil has fallen below the ramp onto the protective plastic. The following procedure is used to unload each truck:
 1. Front loader goes to top of the ramp and uses a chain to raise the catch shute off the railcar.
 2. Wooden stakes are wedged into the shute guide tracks to hold the shute in a raised position.
 3. Front loader travels down the ramp and is chained to the railcars so that an empty area in the railcar is positioned under the shute.
 4. Front loader goes to top of the ramp and raises shute while wedges are removed from the guide tracks. Shute is lowered onto railcar sidewall.
 5. Truck drives up the ramp and dumps the soil. Worker shovels soil off of shute rim into railcar.
 6. Process begins over again.

The total elapsed time for the procedure to be completed is 35 to 40 minutes.

It is estimated that the trucks spend approximately 30 minutes between entering the base and leaving with a full load. It then takes 60 to 90 minutes before the truck returns for another base operation.

Thursday 3/28/96

- * Weekly meeting held at the ROICC office. (See Meeting Minutes - Week 2)
- * C. Farkos reviews extent of excavation to this time at Site 2:

<u>Date</u>	<u>Total soil removed</u>	<u>Total number of runs</u>	<u>Begin time of runs</u>	<u>End time of runs</u>
3/25/96	139 tons	7	10:00	2:33PM
3/26/96	360 tons	18	8:17	4:11PM
3/27/96	301 tons	12	8:11	3:31PM

This data was collected from the weight tickets attached to the shipping manifests. According to the 3/27/96 data, 134 tons of the 301 total shipped was from the stockpile of PCB-contaminated soil located in the southeast corner of Site 2. It is estimated by C. Farkos that the stockpile of PCB-contaminated soil removed on 3/25/96 and 3/26/96 from the northwest corner of Site 2 contained a similar soil volume.

- * B. Dolhancey gives daily Site 2 activity reports for the period between 3/18/96 and 3/27/96 to C. Farkos for review. C. Farkos to return copies to the Navy on 4/1/96.
- * A. Taoramina varified water being used for dust supression is potable.

Friday 3/29/96

- * C. Farkos goes to railroad yard at 7:15 AM to review dumping procedure. Three trucks departed Site 2 at 7:00 AM. Trucks arrive at railyard at 7:38 AM. P. Embrescia has site prepared for first unload at 8:00 AM. All three trucks unloaded by 8:15 AM. Truck 4 arrives at 8:40 AM. Truck 4 was delayed at Site 2 due to load readjustment. C. Farkos meets Larry Walker at railyard. He will be assisting with truck unloading documentation. Workers present at railyard include L. Walker, P. Embrescia and the two laborers seen by C. Farkos and B. Ingram on 3/25/96. All workers are wearing proper PPE. G. Jones and S. Myerson are not at the railyard.
- * Heavy morning snows are making driving difficult. Snow ends at 1:00 PM.
- * One Wills truck breaks its hydraulic line at the railyard. Soil load cannot be dumped. Truck must be repaired today. B. Dolhancey notes that two additional trucks will be included in the transport system next week. Excavation and shipping data will be updated on 4/1/96.

C F Braun

Weekly Progress Meeting - Week 2
March 28, 1996
CTO 212 - Site 2 Remediation
NWIRP Bethpage, NY

List of Attendees:

Al Taoramina	Navy ROICC
Bob Ingram	Navy ROICC
Craig Farkos	C.F. Braun
William Dolhancay	Foster Wheeler
Grey Coppi	Foster Wheeler
Cheryl Polios	Foster Wheeler
Lynn Niles	Foster Wheeler
David Ardito	Laidlaw Corp. (through teleconference)

Meeting Minutes:

- * The weekly meeting was held at the ROICC office. Items reviewed in the meeting include:
 - B. Dolhancey recounted to G. Coppi the events associated with Day 1 operations at the railyard including the unsatisfactory PCB-contaminated soil handling procedures. D. Ardito assures meeting attendants that the two untrained laborers who were handling the soil on Day 1 are still working at the railyard, but only with liners for the clean cars and other noncontaminated equipment. D. Ardito notes that 40-hour H&S certificates are not on file for these two workers.
 - D. Ardito notes that Garland Jones and Stewart Myerson have now been assigned by Laidlaw to the railyard. G. Coppi notes that G. Jones has only submitted Refresher H & S certification and not 40-hour certification. B. Dolhancey notes that no 40-hour H & S certificate is on file for P. Embrescia. D. Ardito notes that Larry Walker will be temporarily replacing him at the railyard as site supervisor. No 40-hour certification is on file for Walker. D. Ardito notes that he will furnish certificates for Jones, Embrescia and Walker.
 - B. Dolhancey notes to D. Ardito that the bucket for the front end loader must be decontaminated at the close of the job. D. Ardito agrees to ship the bucket to Site 2 for decon. D. Ardito also agrees to decon all other equipment used at the railyard to handle contaminated soil. D. Ardito agrees to provide proper PPE to all railyard workers and to properly dispose of all PPE.
 - D. Ardito notes that Wills Trucking Corp. is working as a subcontractor to Laidlaw. Under this contract, Laidlaw is responsible for proper handling of all PCB-contaminated soil when it is placed into the Wills truck at Site 2. According to D. Ardito, Laidlaw is legally responsible for activities related to soil shipment and handling to the railyard as long as the trucks comply with established weight limits for road transportation. D. Ardito notes that the trailer beds will not be decontaminated at the close of the job since these trailers are dedicated to hazardous waste transportation. B. Dolhancey notes that the Navy and Wills request that no trucks be staged overnight or on weekends at the railyard because of safety considerations. During non-work hours all trucks will be covered and staged on Navy property.
 - C. Farkos requests D. Ardito to supply written confirmation that George Burns is certified to sign the manifests for the Long Island Railroad. D. Ardito to furnish.

- B. Dolhancey reviews site operating hours with D. Ardito and meeting group:

7:00 AM trucks should be light-weighted and ready at Site 2 for loading. Trucks can exit the gate by Building #15 as early as 6:30 AM.

Site workers will rotate lunch breaks so that no downtime occurs during this period.

The last loaded truck will leave the base at 3:30 PM. Work at Site 2 will stop after this time.

- C. Farkos reviews the confirmatory field sampling plan with meeting attendants. A copy of the field sampling diagram is presented to L. Niles. C. Farkos requests copies of all Foster Wheeler confirmatory field test results.



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C-49-04-6-077

April 9, 1996

Project Number 5236

Mr. Steven Lehman (Code 4051/SL)
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop No. 82
Lester, PA 19113-2090

Reference: CLEAN Contract No. N62472-90-D-1298
Contract Task Order 0212

Subject: Northern Division, Naval Facilities Engineering Command
Naval Weapons Industrial Reserve Plant, Bethpage, New York
Transmittal of Weekly Report and Meeting Minutes from Progress Meeting No. 3

Dear Mr. Lehman:

You will find enclosed one (1) copy each of the Weekly Report and meeting minutes from the Progress Meeting No. 3. If you have any questions or require additional information, please call me at 412-921-8916.

Very truly yours,

Mark P. Speranza, P.E.
Project Manager

MPS/dt

Enclosure

- c: Mr. Roger Boucher, NORTHDIV (w/o enclosure)
- Mr. Paul Briegel, NORTHDIV
- Mr. Jim Colter, NORTHDIV
- Mr. Al Taormina, Navy REICC
- Mr. Bob Ingram, Navy
- Mr. Howard Lazarus, Foster Wheeler
- Mr. Bill Dolhancay, Foster Wheeler
- Mr. David Ardito, Laidlaw Corporation (minutes only)
- Mr. John Trepanowski, C.F. Braun
- Mr. Daryl Hutson, C.F. Braun
- Mr. Craig Farkos, C.F. Braun
- File 5236

C F Braun

Weekly Progress Report - Week 3

4/01/96 to 4/05/96

CTO 212 - Site 2 Remediation

NWIRP Bethpage, NY

Prepared by: Craig Farkos

The following activities occurred during Week 3:

Monday 4/01/96:

- * The following additional excavation data has been collected since the previous weekly report:

<u>Date</u>	<u>Total soil removed</u>	<u>Total number of runs</u>	<u>Begin time of runs</u>	<u>End time of runs</u>
3/28/96	326 tons	14	8:23 AM	3:09 PM
3/29/96	185 tons	10	8:25 AM	2:23 PM

- * Evacuation continues in the northwest portion of the Site 2. Excavation has proceeded to the required 4-foot depth along the northwest fenceline. Excavation now continues in a southern direction along the fenceline. B. Dolhancay checks excavation depths using survey equipment. Estimate that Site 2 excavation is approximately 33 % complete. A total of 1311 tons of soil has been excavated and removed from Site 2 between 3/25/96 and 3/29/96.
- * Two of the four truck drivers that worked the past week have been replaced by two new drivers. The following drivers and trucks are now working at Site 2:

<u>Truck No</u>	<u>Trailer No</u>	<u>Driver</u>	<u>Weight Ticket Code No</u>
132	489	Ed Stumbaugh	94
138	439	Sonny Belgrach	88
NA	346	Greg McLeod	95
NA	446	Dean Murphy	90

- * C. Farkos visits the railyard. Notes that the front end loader is being repaired because the fuel filters became clogged when the loader ran out of gas on Friday. During this time all four full dump trucks are staged at the yard. The dump gate to truck number 138 is also being repaired at the yard because the gate release will not disengage. One truck has unloaded to this point. The railcar cannot be repositioned to accept additional soil until the front end loader is repaired. The repair is completed at 10:00 AM.
- * L. Walker informs C. Farkos that the Long Island Rail Road EPA ID number typed on the shipping manifests is incorrect.

Incorrect EPA ID No: NYD 980641625

Correct EPA ID No: NYR000021345

C. Farkos telephones D. Ardito to inform him and to advise him that all completed manifests must be corrected. D. Ardito agrees to correct the completed manifests. A total of 61 manifests have been completed between 3/25/96 and 3/29/96.

- * C. Farkos returns completed daily construction reports to B. Dolhancay for distribution.

Tuesday 4/02/96

- * Excavation is being performed in the southwest portion of Site 2, in the area of soil boring SB-47. Excavation in the area of borings SB-41, SB-45 and SB-54 is completed to the required 10-foot depth. This portion of the excavated area is covered by plastic. Some of the soil excavated from the area near SB-46 and SB-47 is being temporarily stockpiled at Site 2 in the area near SB-52.
- * A Foster Wheeler field technician arrives at Site 2 to collect confirmatory field samples at the locations of SB-41, SB-45, SB-46, and SB-54. Samples are to be analyzed at the field trailer (results to be provided next week).
- * C. Farkos notes to B. Dolhancay the erosion along the excavated wall adjacent to the waste water treatment plant. B. Dolhancay notes that he has prepared to have a rainwater catch basin constructed in the southwest portion of Site 2 near boring location SB-43. C. Farkos also notes that runoff from the water treatment plant asphalt area should also be controlled. B. Dolhancay agrees to evaluate.
- * C. Farkos meets with H. Lazarus and B. Dolhancay at Site 2. H. Lazarus estimates that an additional 1000 cubic yards will have to be excavated from Site 2 from this point to the finish. H. Lazarus notes that it will be Laidlaw's responsibility to supply the necessary railcars to transport this soil. H. Lazarus notes that drums containing Site 2 decontamination water will be disposed by Laidlaw. He notes that disposal of these drums is included in Laidlaw's scope of work established by Foster Wheeler. B. Dolhancay notes that work hours at Site 2 beginning tomorrow and continuing until the job close will be:

6:30 AM - truckers and workers arrive at Site 2.

3:30 PM - Site 2 excavation and truck loading ends.

- * C. Farkos reviews operations at the railyard. Two new site workers have been added to the workforce in addition to P. Embrescia and the 2 workers who have been at the site since 3/25/96. All workers are wearing proper PPE. It now takes between 5 minutes and 10 minutes to unload each truck at the ramp. C. Farkos notes to D. Ardito that Laidlaw must change the Long Island Railroad EPA ID number for copies #3, #4 and #8 of all completed manifests currently held by the ROICC office. D. Ardito agrees.
- * H. Lazarus and B. Dolhancay arrive at the railyard to review operations with D. Ardito and C. Farkos. H. Lazarus indicates that approximately 1600 tons of soil have been excavated and shipped from Site 2 to this point. H. Lazarus estimates that the excavation is approximately 33% completed and that Laidlaw should be prepared to handle an additional 3200 tons of soil to complete the excavation. D. Ardito notes that 45 railroad cars were originally scheduled for the entire job. D. Ardito agrees to evaluate railcar needs. D. Ardito agrees to dispose of the decontamination water stored in drums at Site 2.

Wednesday 4/03/96

- * B. Dolhancay advises Site 2 workers to shore up Site 2 fencing and to move the worker decontamination area adjacent to the truck decontamination area. A new, wider truck entrance lane will be created at Site 2. B. Dolhancay also notes that a runoff collection sump and trench has been created in the area of boring SB-43 to handle soil erosion.
- * B. Dolhancay agrees with C. Farkos to collect field screening samples in the same sample locations proposed by C. Farkos for the confirmatory samples. A sample location diagram was given by C. Farkos to L. Niles on 3/28/96. C. Farkos agrees to review the plan further with L. Niles.

- * C. Farkos notes to A. Taoramina and B. Ingram that C.F. Braun recommends that all new manifests being generated at Site 2 be retyped and free of cross-out lines.
- * C. Farkos visits the railyard. L. Walker informs C. Farkos that manifest 1 through 60 were mailed out on 4/1/96. Manifests 61 through 93 are supposed to be mailed out on 4/3/96. C. Farkos notes that the photocopies of manifests 1 through 20 and 82, 83 85 and 86 currently located in the ROICC office do not have the proper EPA ID number for the Long Island Railroad. L. Walker examines the original copies of manifests 82, 83, 85 and 86 in his office and notes that he must make the correction to these originals. Manifests 80, 81, 87 and 88 have already been corrected.
- * C. Farkos speaks with P. Embrescia at the railyard. P. Embrescia notes that no railcars will be delivered to the rail-yard today. Three cars are currently at the yard -- one car is filled and tarped, one car is being filled, and one car is empty. These 3 cars will be filled today. P. Embrescia notes that 10 additional cars should arrive at the yard on Monday. C. Farkos notes that 25 cars are required for a full week of excavated soil. C. Farkos also notes that P. Embrescia is holding copies of manifests 93 and 94 in the shipping envelope used to attach the manifest to the railcar. P. Embrescia notes that he plans to give these manifest to a railroad operator to attach to the railcars that have already been removed from the railyard. P. Embrescia notes that "this is a mistake."
- * P. Embrescia and the truck drivers note to C. Farkos that 2 of the trucks are temporarily out of service. Truck 138 is out of service for approximately 2 hours because of an electrical problem with the taillights. Truck 132 is out of service for approximately 3 hours because of a cracked seal in the rear hub.
- * B. Dolhancay confirms that excavation will terminate at Site 2 at approximately 1:00 PM today. The site workers and truck drivers will not return until 4/8/96.

Thursday 4/04/96

- * No excavation being performed at Site 2. The trailers to all 4 trucks are tarped and staged at Site 2. C. Farkos reviews the extent of excavation to date. See enclosed figure. The following additional excavation data has been collected since 3/29/96:

<u>Date</u>	<u>Total soil removed</u>	<u>Total number of runs</u>	<u>Begin time of runs</u>	<u>End time of runs</u>
4/1/96	321 tons	15	8:09 AM	3:45 PM
4/2/96	447 tons	21	7:43 AM	4:30 PM
4/3/96	252 tons	12	8:23 AM	1:37 PM

A total of 2331 tons of soil have been removed from Site 2 to date. This soil has been delivered to the railyard in 109 truckloads. According to D. Ardito, 45 railcars were originally ordered to complete this job. Four truckloads are required to fill one railcar. A total of 27 railcars have been filled. Ten additional railcars are scheduled to arrive on Monday, 4/8/96. H. Lazarus and B. Dolhancay estimate that the excavation is approximately 30% to 40% complete.

Friday 4/05/96

No work was conducted at Site 2.

C F Braun

**Weekly Progress Meeting - Week 3
April 4, 1996
CTO 212 - Site 2 Remediation
NWIRP Bethpage, NY**

List of Attendees:

Al Taoramina	Navy ROICC
Craig Farkos	C.F. Braun
William Dolhancay	Foster Wheeler
Cheryl Polios	Foster Wheeler
Lynn Niles	Foster Wheeler

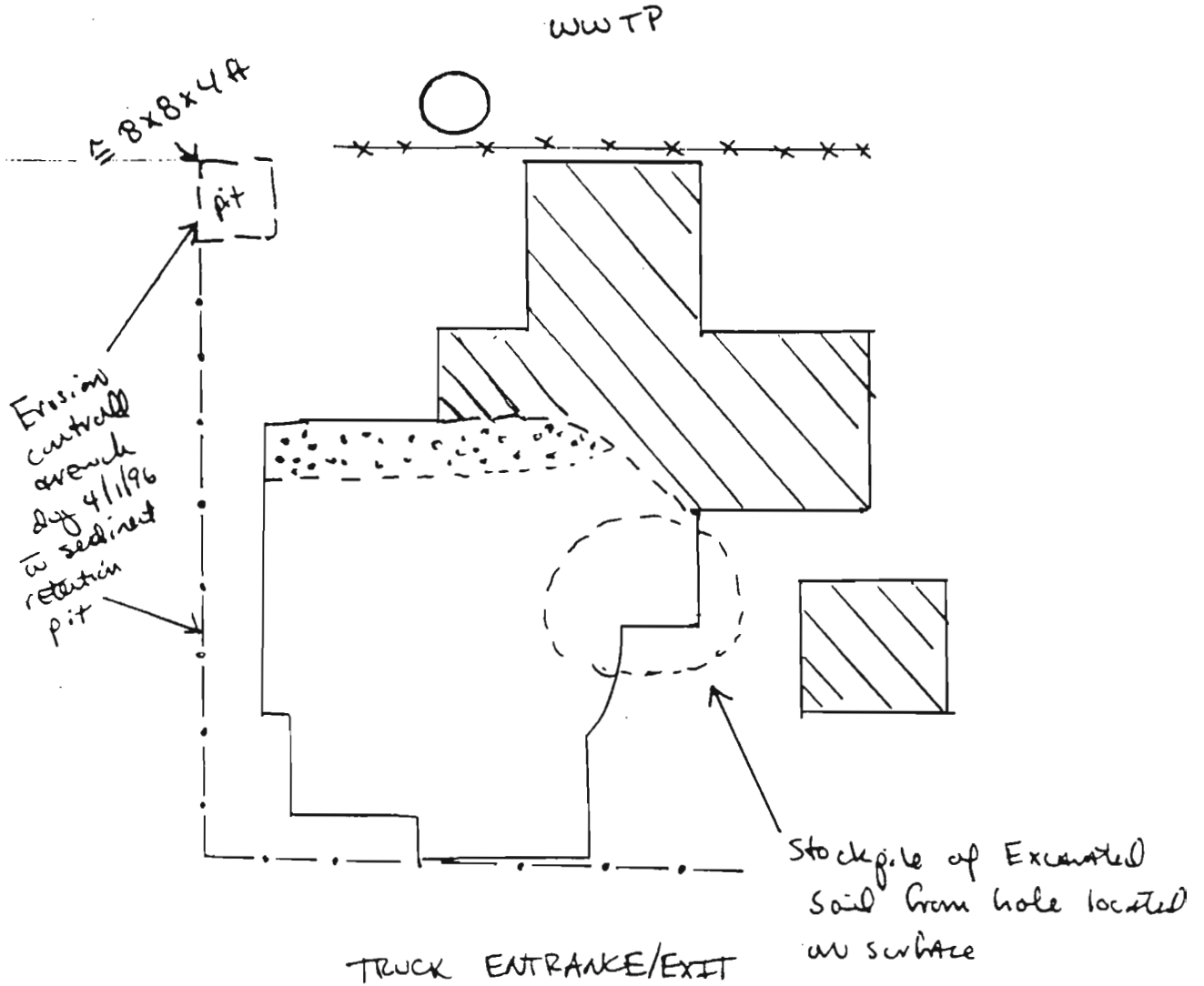
Meeting Minutes:

- B. Dolhancay notes that according to H. Lazarus, Laidlaw is responsible for all soil handling operations conducted at the railyard and in transit from Site 2. Foster Wheeler cannot direct Laidlaw with regards to any of the soil handling procedures being used at the railyard or in transit from Site 2. Foster Wheeler will continue to be responsible for all soil excavation and handling procedures conducted at Site 2. A. Taoramina notes that the close proximity of the railyard to Site 2 obligates the Navy to review the railyard operations and discuss with Foster Wheeler and Laidlaw any items of concern. B. Dolhancay notes that Foster Wheeler agrees to decontaminate the front loader bucket used at the railyard when the job has been completed.
- B. Dolhancay and C. Polios note that air monitoring will be conducted on a periodic basis at Site 2. The site will continue to be sprayed by the water truck thereby eliminating the need for continuous monitoring.
- B. Dolhancay reviews the delay in railcar delivery that occurred this week. Site 2 operations were terminated at 1:30 PM on 4/3/96. Ten cars are scheduled to arrive on 4/8/96. Twenty five cars are needed to transport the quantity of soil generated during a full week of excavation. Excavation may only proceed for 2 days next week.
- B. Dolhancay reviews the problems associated with completing the manifests and attaching them to the railcars. According to B. Dolhancay and Thomas Tealing of Foster Wheeler, the following steps must be taken by Laidlaw to change the Long Island Railroad EPA ID number on the manifests:
 1. Laidlaw must notify the New York Department of Environmental Conservation and the Utah disposal facility, in writing, of the manifest change.
 2. Laidlaw must get written authorization from the waste generator to make the manifest change.
 3. Laidlaw must make the change to all copies of all completed manifests.
 4. Laidlaw must prove to the waste generator that the change has been made to all copies of the manifests.

Currently, several photocopies of the completed manifests issued by Laidlaw to the ROICC office do not indicate any change. Also, several manifest copies of sheet #3, #4 and #8 retained by the ROICC office for mailing to the New York DEC and the Utah disposal facility do not

indicate any change. As indicated in the activity report for 4/3/96, Laidlaw has mailed manifests 1 through 60 to the required destinations. B. Dolhancay notes that he will contact D. Ardito to have the necessary changes made for next week's shipments.



- B. Dolhancay notes that photocopies of manifests 93 and 94 were not affixed to the railcar, as required by law, when the car containing these loads was removed from the railyard (See daily activity report for 4/3/96). According to T. Tealing, these manifest copies may be replaced by bills of lading delivered to the railroad and the Utah dumpsite. B. Dolhancay agrees to contact D. Ardito regarding these manifest handling requirements.
- C. Farkos notes that the approved Foster Wheeler PCB Waste Disposal Plan (December, 1995) projected 3276 tons of PCB-contaminated soil to be excavated from Site 2. Weight tickets indicate that 2331 tons of soil have been removed from Site 2 through 4/3/96. H. Lazarus and B. Dolhancay estimate that the project is 30% to 40% completed. B. Dolhancay notes that he plans to keep the clean soil excavated from the sideslopes separate from the PCB-contaminated soil excavated from the other portions of the area to minimize soil shipments. C. Farkos notes that the 2 stockpiles of PCB contaminated soil estimated to be 134 tons per pile were included in the shipping total.
- A. Taoramina agrees to determine if the large stockpile of soil located in the southern section of the site can be used as backfill. B Dolhancay agrees to use field test samples to determine the concentration of PCB's contained in this soil prior to backfilling.



Erosion control trench
by 4/1/96
to sediment retention
pit

Stockpile of Excavated
Soil from hole located
in surface

TRUCK ENTRANCE/EXIT

-  Finished excavation to 4/4/96
-  Excavation in process



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C-49-04-6-146

April 15, 1996

Project Number 5236

Mr. Steven Lehman (Code 4051/SL)
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop No. 82
Lester, PA 19113-2090

Reference: CLEAN Contract No. N62472-90-D-1298
Contract Task Order 0212

Subject: Northern Division, Naval Facilities Engineering Command
Naval Weapons Industrial Reserve Plant, Bethpage, New York
Transmittal of Weekly Report and Meeting Minutes from Progress Meeting No. 4

Dear Mr. Lehman:

You will find enclosed one (1) copy each of the Weekly Report and meeting minutes from the Progress Meeting No. 4. If you have any questions or require additional information, please call me at 412-921-8916.

Very truly yours,

Mark P. Speranza
Mark P. Speranza, P.E.
Project Manager

MPS/dt

Enclosure

c: Mr. Roger Boucher, NORTHDIV (w/o enclosure)
Mr. Paul Briegel, NORTHDIV
Mr. Jim Colter, NORTHDIV
Mr. Al Taormina, Navy ROICC
Mr. Bob Ingram, Navy
Mr. Howard Lazarus, Foster Wheeler
Mr. Bill Dolhancay, Foster Wheeler
Mr. David Ardito, Laidlaw Corporation (minutes only)
Mr. John Trepanowski, C.F. Braun
Mr. Daryl Hutson, C.F. Braun
Mr. Craig Farkos, C.F. Braun
File 5236

C F Braun

Weekly Progress Report - Week 4
4/08/96 to 4/12/96
CTO 212 - Site 2 Remediation
NWIRP Bethpage, NY
Prepared by: Craig Farkos

The following activities occurred during Week 4:

Monday 4/08/96:

- * Excavation continues in the central portion of Site 2 in the area of SB-52 and SB-53. The decontamination pad is in good condition. The runoff collection trench is collected surface water from the excavation area.
- * The following analytical results have been obtained for the field samples collected from the excavated area:

<u>Sample Date</u>	<u>Sample Location</u>	<u>Analytical Result</u>
4/2/96	SB-41	Non Detect
4/2/96	SB-45	2.7 ppm
4/2/96	SB-46	2.8 ppm
4/2/96	SB-54	Non Detect

The action level for concentrations of PCB's in Site 2 soils is 10 ppm.

- * B. Dolhancay advises C. Farkos that field screening and confirmatory samples can be collected from the excavated portion of Site 2. Field screening samples will be collected by Foster Wheeler at the locations identified on the sample plan prepared by C. Farkos. Confirmatory samples will be collected by C. F. Braun in those same locations after field screen samples have confirmed that all PCB-contaminated soil exceeding the 10 ppm action level has been excavated and removed from that portion of the site.
- * Also, field screen composite samples are collected from each of the 3 soil piles designated as "clean soil piles" at Site 2.
- * C. Farkos visits railyard. P. Embruscia notes that water was found in the bed of railcar #13 at the Utah dumpsite. According to P. Embruscia, the water was tested for leachate contamination, and results were satisfactory. The soil from car #13 was disposed of at the landfill.
- * C. Farkos asked B. Dolhancay if Laidlaw is complying with the manifest correction guidelines presented in last Thursday's meeting (see meeting minutes 4/4/96). B. Dolhancay notes that Foster Wheeler has now determined that these guidelines do not have to be followed by Laidlaw and that Laidlaw can continue to correct the manifests by crossing out the wrong EPA ID number and writing over the correct EPA ID number for the Long Island Railroad.

Tuesday, 04/09/96

- * C. Farkos visits the railyard. Notes that all four dump trailers are full and waiting to dump. Three full railcars are currently located on the dumpsite rail spur. The last of the four trailers had departed from Site 2 for the railyard at 8:23 AM. P. Embruscia notes that the railroad workers would not arrive until after 9:30 AM to

replace the full railcars with empty railcars. Prior to dumping, the empty railcars would have to be lined. The first dump trailer in the queue did not return to Site 2 for its second load until 10:50 AM.

- * C. Farkos notes to P. Embruscia that manifest copies #4 and #8 retained at the ROICC office did not have the proper EPA ID number for the Long Island Railroad on manifests 1 through 93. Also, photocopies of the completed manifests prepared by Laidlaw and retained at the ROICC office did not have the proper EPA ID number on copies 1 through 60.
- * The following analytical results are reported for the field screen samples collected from the "clean soil piles":

<u>Sample Date</u>	<u>Soil Pile</u>	<u>Sample PCB Concentration</u>
4/8/96	A	4.0 ppm
4/8/96	B	6.3 ppm
4/8/96	C	5.1 ppm

See the enclosed diagram for the clean soil pile locations.

A. Taoramina advises Foster Wheeler that he would like soil samples collected from clean pile B to be analyzed also for volatile, semivolatile and metals concentrations prior to backfilling this soil.

- * C. Farkos indicates the confirmatory sample locations in the excavated area of Site 2, and the Foster Wheeler field team collects field screen samples at each of the 8 sample locations. See the enclosed diagram for the sample locations.
- * The following soil excavation and transportation data was collected:

<u>Date</u>	<u>Total Soil Shipped</u>	<u>Total Number Loads</u>	<u>1st Truck Depart</u>	<u>Last truck depart</u>
4/4/96		No soil shipped as no railcars available		
4/5/96		No soil shipped as no railcars available		
4/8/96	384 tons	18	8:40 AM	4:30 PM

Wednesday, 04/10/96

- * The following analytical results were reported by Foster Wheeler for field screen samples collected from the excavated portions of Site 2:

<u>Sample Date</u>	<u>Sample Number</u>	<u>PCB Concentration</u>
4/9/96	1	13.8 ppm
4/9/96	2	Non Detect
4/9/96	3	3.7 ppm
4/9/96	4	1.9 ppm
4/9/96	5	2.9 ppm
4/9/96	6	Non Detect
4/9/96	7	20.8 ppm
4/9/96	8	3.0 ppm
4/9/96	12	Non Detect

The action level for concentrations of total PCB's in the Site 2 soil is 10 ppm. The areas surrounding sample 1 and sample 7 will be reexcavated since the detected PCB concentrations in these 2 samples exceeds the action level.

- * The diesel fuel line of one of the dump trailers was ruptured as the truck passed over the exit berm of the decontamination pad. Approximately 8 to 10 gallons of diesel fuel was released outside the limits of Site 2 before the truck was backed over the decontamination pad and the leaking fuel was captured in a plastic tub. The leaked fuel mixed with the melting snow and surface water outside the decontamination pad and flowed into the two stormwater collection drains located near Site 2. Some containment of the fuel was achieved

locating hay bales and absorbent pads around the storm drains. A. Taoramina was notified of the spill and he notified Grumman Emergency Services. A Grumman spill control team arrives at the site and advises B. Dolhancay to use sand to construct stormwater control berms along the flow path and to continue using absorbent pads. Grumman supplies B. Dolhancay with a large absorbent boom to be located around the outfall for one of the recharge basins. B. Dolhancay notes that the construction crew will remove the top 6-inch soil layer from all affected areas outside the Site 2 boundary. (See enclosed figure). Excavation and transport of PCB contaminated soil from Site 2 to the railyard terminates at 10:00 AM.

The following excavation information was determined:

<u>Date</u>	<u>Total Soil Shipped</u>	<u>Number of Loads</u>	<u>First Truck Depart</u>	<u>Last Truck Depart</u>
4/9/96	304 tons	14	8:04 AM	3:39 PM

Thursday, 04/11/96

- * Excavation and transport of diesel fuel contaminated soil from the Site 2 staging area continues until 10:00 AM. C. Farkos uses the weight tickets to calculate the following weight of diesel contaminated soil removed from Site 2:

<u>Date</u>	<u>Driver</u>	<u>Tons of Soil Shipped</u>	<u>Time Out of Site</u>
4/11/96	Ed Stumbaugh	21	7:48 AM
4/11/96	Greg McLeod	21	8:10 AM
4/11/96	Dean Murphy	22	8:33 AM
4/11/96	Ed Stumbaugh	22	9:16 AM
4/11/96	Greg McLeod	22	9:42 AM

- * The fourth truck driven by Sonny Belgrach was not used in the morning because a broken tarp was being repaired. This truck was back in service at Site 2 at 11:15 AM.
- * C. Farkos reviews and confirms the field sampling plan for soil pile B and the excavated area with M. Speranza of C. F. Braun. Field sampling is scheduled for 4/12/96.
- * C. Farkos shows B. Dolhancay a map of the limits of excavation at Site 2 and notes that the trucks and excavation equipment continue to drive over areas of Site 2 identified to be clean on the map. Also, the front loader is stockpiling PCB contaminated soil, without a plastic ground liner, near or on a section of Site 2 identified to be clean on the map. B. Dolhancay acknowledges my concern and notes that the surface layer of soil in the traffic and stockpile areas will be excavated and hauled to the railyard following completion of backfilling and compaction of the excavated area in Site 2.

Friday, 04/12/96

- * Trucks are being loaded from the large stockpile of PCB contaminated soil located at the edge of the current excavation located between SB-52 and SB-57. Soil is being excavated from down in the hole near this edge. Also, some soil from this stockpile is being relocated in the area between SB-55 and SB-61. No plastic was placed below this soil (see notes for 4/11/96).
- * The areas around soil sample #1 and #7 are reexcavated because the analytical results for these samples exceeded the 10 ppm action level for PCB concentrations (see notes for 4/10/96). A 10 foot x 10 foot by 2 foot volume of soil was excavated from each of these two sample locations. Because of the soil disturbance caused by the excavation equipment, sample locations 1 through 8 were resampled by the field screen method. Also, an additional field screen sample was collected from location #13 which had been excavated to grade.

- The following analytical results were obtained from the second round of field screen samples collected by Foster Wheeler:

<u>Sample Date</u>	<u>Sample Location</u>	<u>PCB Concentration</u>
4/12/96	1	17.8 ppm
4/12/96	2	Non Detect
4/12/96	3	5.2 ppm
4/12/96	4	6.8 ppm
4/12/96	5	1.8 ppm
4/12/96	6	1.0 ppm
4/12/96	7	5.9 ppm
4/12/96	8	4.9 ppm
4/12/96	13	4.5 ppm

Sample location 12 was not resampled as the initial sample result of 4/11/96 was below 10 ppm.

Sample location #1 must be reexcavated because the concentration of PCB's detected in the sample exceeds the 10 ppm action level.

- A 10 foot x 10 foot x 2 foot volume of soil is excavated from sample location #1. Sample location #1 is once again resampled by Foster Wheeler using the field test kit.

The following analytical result is obtained for the second resample of location #1:

<u>Sample Date</u>	<u>Sample Location</u>	<u>PCB Concentration</u>
4/12/96	1	Non Detect

- C. Farkos collects confirmatory soil samples from all sample locations since all field screen sample results are now below the 10 ppm action level for concentrations of total PCB's. Ten samples were collected plus one sample duplicate and one MS/MSD sample. The samples were shipped to Quantara Laboratories, Pittsburgh, PA, for 7-day turnaround analysis for concentrations of total PCB's in soil. All sampled portions of the excavated area were covered with plastic until backfilling.
- Foster Wheeler collects field screen samples in 5 separate locations on the "clean soil pile B." These locations are indicated on the enclosed figure. The samples were collected at approximately the following depths within pile B.

<u>Sample Date</u>	<u>Sample ID</u>	<u>Sample Depth</u>
4/12/96	SPB -01	3 feet
4/12/96	SPB -02	3 feet
4/12/96	SPB-03	3 feet
4/12/96	SPB-04	3 feet
4/12/96	SPB-05	5 feet

The samples were shipped today to NYTEST Environmental, Long Island NY, for 72-hour turnaround analysis for RCRA, TCL, TCLP and TAL parameters.

- B. Dolhancay notes that 25 tons of sand was deposited in the nearby salt barn to replace the sand used by Foster Wheeler during the diesel spill cleanup operations.

The following excavated soil shipping information was collected today:

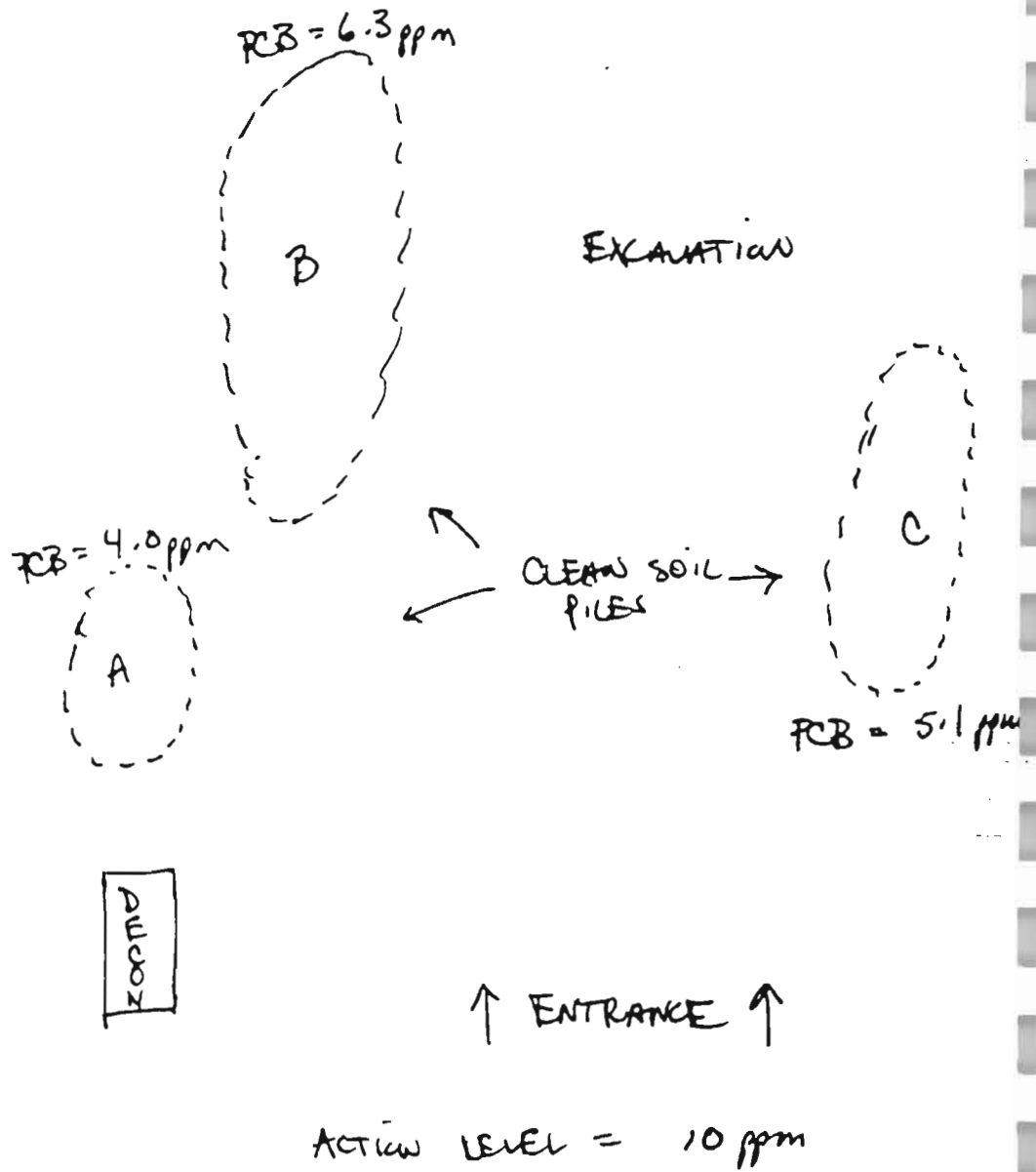
<u>Ship Date</u>	<u>No. of trucks</u>	<u>Total Tons</u>	<u>1st Truck out</u>	<u>Last Truck Out</u>
4/11/96	17	373 tons	7:48 AM	4:09 PM
4/12/96	12	264 tons	7:31 AM	12:47 PM

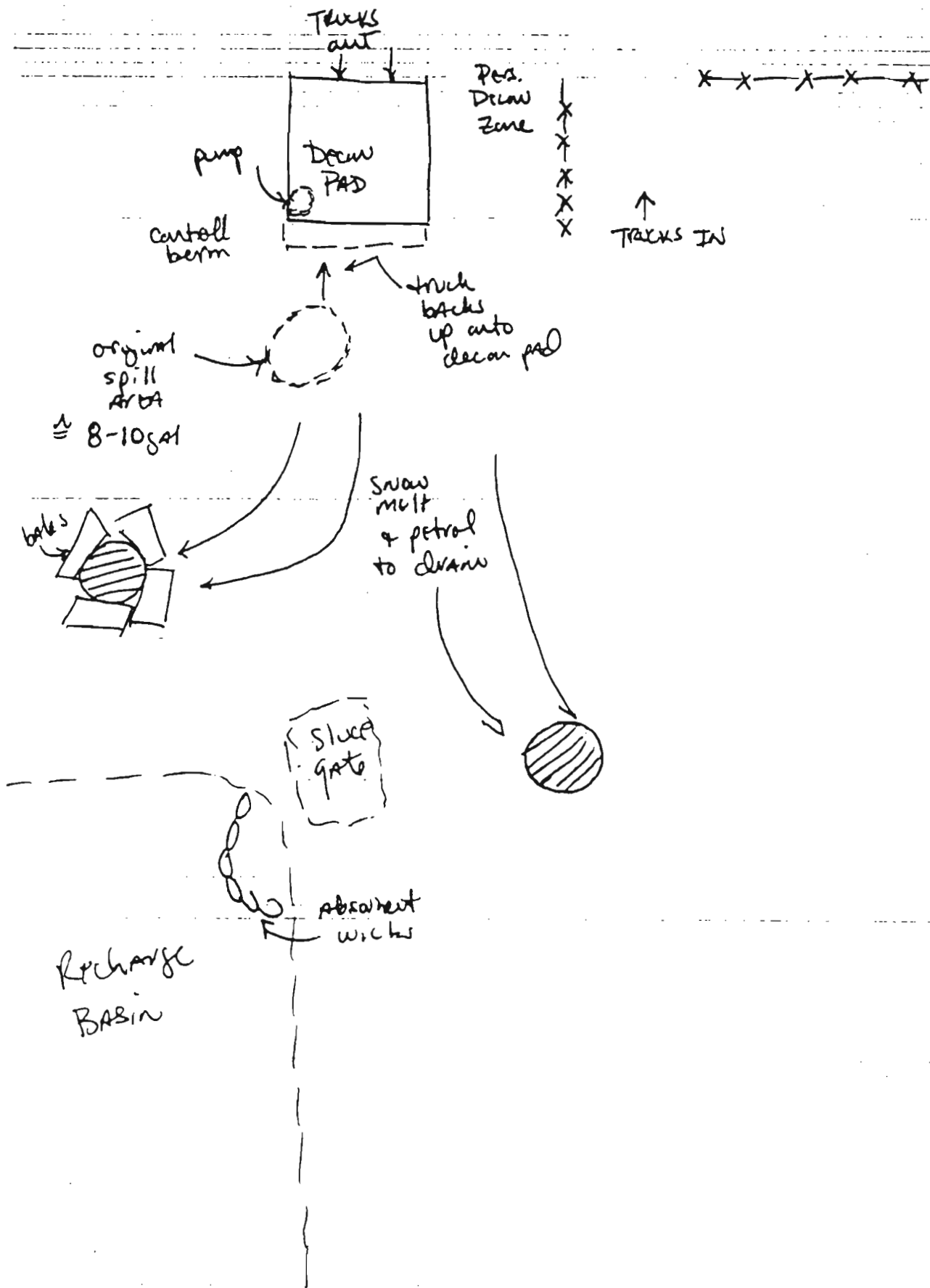
No additional shipments were made after 12:47 PM on 4/12/96 as all available railcars were filled.

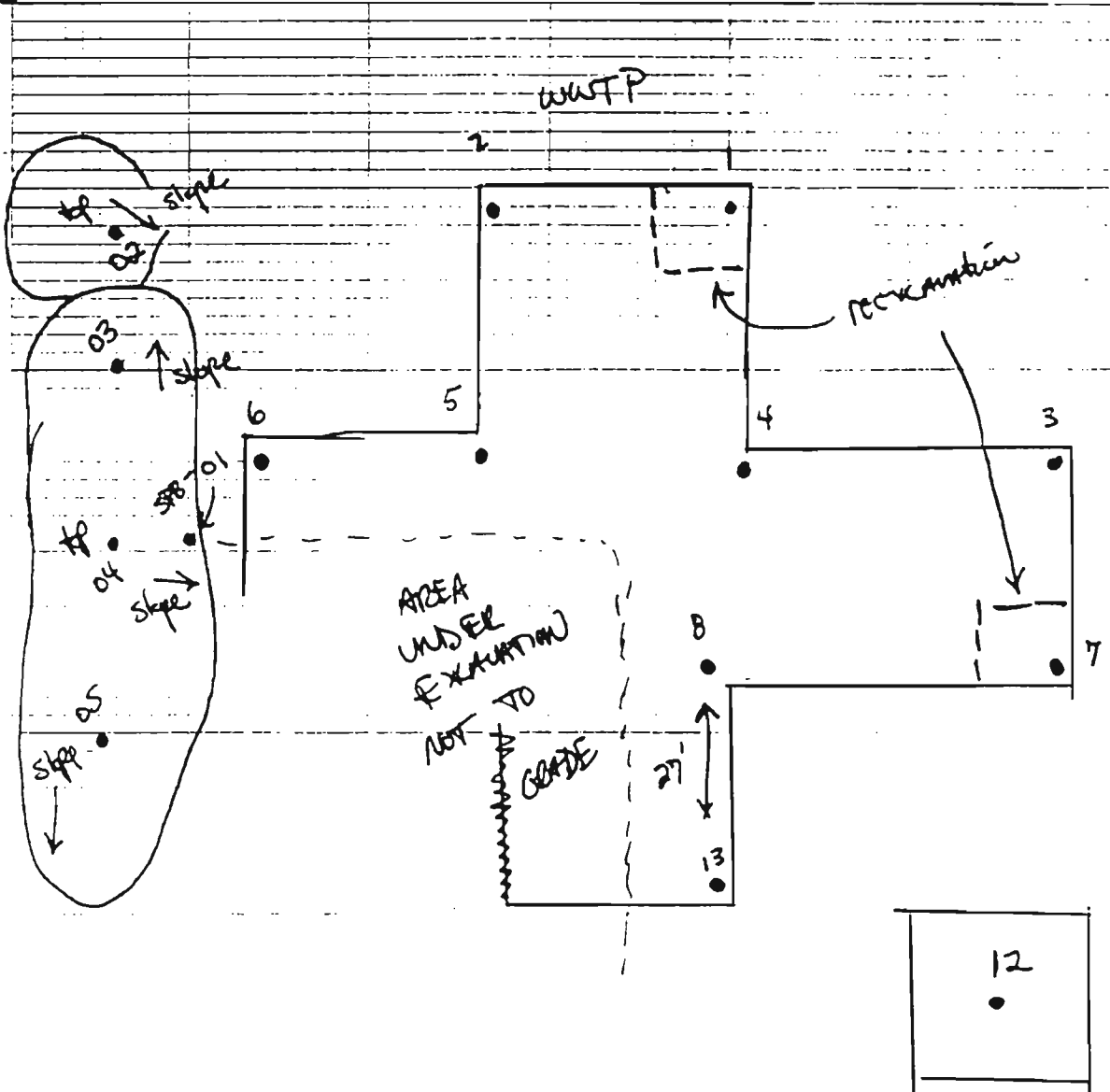
The trailers of all 4 trucks were tarped and staged for the weekend at Site 2.

The total quantity of soil removed for the week is 1,431 tons in 66 loads. The total quantity of soil removed from Site 2, to date, is 3,762 tons in 175 loads.

FIELD SCREEN SAMPLES
COLLECTED $\frac{6}{9}$ 4/8/96
WWTP







C F Braun

**Weekly Progress Meeting - Week 4
April 10, 1996
CTO 212 - Site 2 Remediation
NWIRP Bethpage, NY**

List of Attendees:

Al Taoramina	Navy ROICC
Steven Lehman	NORTHDIV
Craig Farkos	C.F. Braun
William Dolhancay	Foster Wheeler
Cheryl Polios	Foster Wheeler
Lynn Niles	Foster Wheeler

Meeting Minutes:

The weekly construction meeting was held in the ROICC office:

- B. Dolhancay recounts the activities related to cleanup of the diesel fuel spill at Site 2 (see note above). B. Dolhancay notes that the New York State DEC has been notified. Representatives from the DEC are scheduled to arrive at Site 2 on 4/12 or 4/15 for a site review. The spill number assigned by the DEC to event is 9600467. Also, B. Dolhancay has notified Laidlaw and Wills Trucking. The decontamination pad is in good condition. All diesel fuel contaminated soil will be excavated and stored on a separate plastic liner at Site 2 until it is removed to the railyard. B. Dolhancay notes that the Navy will not incur any expenses associated with excavation and removal of the diesel-contaminated soil. The Navy will only be responsible for expenses associated with the first 3 hours of today's activities at Site 2.
- The members of the group review the field sampling plan for the large "clean soil pile B" at Site 2. The soil pile will be sampled at 5 separate locations. Each of the 5 samples will be collected at a sample depth of 2 to 4 feet below the soil surface. Each of the 5 samples will be analyzed for TCL volatiles, semivolatiles, TAL metals and TCLP metals. Sample results will be reported by fax from the lab within 72 hours of sample shipment.
- The meeting members agree that the other 2 "clean soil piles" located at Site 2 will not be sampled further. The PCB concentrations detected by the field screening process (See notes for 4/9/96) and the analytical results collected by Foster Wheeler during previous sampling events at Site 2 support the conclusion that soil piles A and C can be considered clean and can be used for backfill.
- C. Farkos asks B. Dolhancay to confirm that an 85 ton minimum soil charge per railcar is not being assessed to the Navy by Laidlaw at the Utah dumpsite. B. Dolhancay will confirm.
- B. Dolhancay notes that he has requested Laidlaw to replace the larger dump trailers with standard, triaxle trucks for transport of the PCB soil to the railyard.
- C. Farkos shows a map of the Site 2 area of excavation to the members of the meeting. B. Dolhancay shows the members of the meeting the extent of excavation to date, and estimates that the excavation is 60 percent complete. B. Dolhancay anticipates that excavation at Site 2 will be completed by 4/19/96. According to B. Dolhancay, backfilling of the portions of the excavated area confirmed to be clean will take place concurrently with excavation of the remaining PCB contaminated soil from Site 2.



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C-49-04-6-216

April 23, 1996

Project Number 5236

Mr. Steven Lehman (Code 4051/SL)
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop No. 82
Lester, PA 19113-2090

Reference: CLEAN Contract No. N62472-90-D-1298
Contract Task Order 0212

Subject: Northern Division, Naval Facilities Engineering Command
Naval Weapons Industrial Reserve Plant, Bethpage, New York
Transmittal of Weekly Report and Meeting Minutes from Progress Meeting No. 5

Dear Mr. Lehman:

You will find enclosed one (1) copy each of the Weekly Report and meeting minutes from the Progress Meeting No. 5. If you have any questions or require additional information, please call me at 412-921-8916.

Very truly yours,

Mark P. Speranza, P.E.
Project Manager

MPS/dt

Enclosure

- c. Mr. Roger Boucher, NORTHDIV (w/o enclosure)
- Mr. Paul Briegel, NORTHDIV
- Mr. Jim Colter, NORTHDIV
- Mr. Al Taormina, Navy ROICC
- Mr. Bob Ingram, Navy
- Mr. Howard Lazarus, Foster Wheeler
- Mr. Bill Dolhancay, Foster Wheeler
- Mr. David Ardito, Laidlaw Corporation (minutes only)
- Mr. John Trepanowski, C.F. Braun
- Mr. Daryl Hutson, C.F. Braun
- Mr. Craig Farkos, C.F. Braun
- File 5236

C F Braun

Weekly Progress Report - Week 5
4/15/96 to 4/19/96
CTO 212 - Site 2 Remediation
NWIRP Bethpage, NY
Prepared by: Craig Farkos

The following activities occurred during Week 5:

Monday 4/15/96:

- * Excavation is proceeding in the area of SB-58 and SB-63. The stockpile of excavated PCB-contaminated soil is now located in the area bounded by SB-55, SB-56, SB-60 and SB-61. No plastic tarp is located under this stock pile. The trucks are being loaded by the front end loader using the soil from this stockpile.
- * P. Embruscia notifies B. Dolhancay and the drivers from Wills trucking that Wills is being replaced tomorrow by trucks and drivers from JBT Trucking of West Babylon, NY. JBT Trucking employs union-sponsored drivers. At the end of the day, each of the four Wills trailer beds is cleaned by spraying the elevated bed over the Site 2 decontamination pad. One trailer is staged overnight at Site 2 as Greg McLeod did not report for work today at Site 2. This trailer will be removed tomorrow morning.
- * Personnel from the New York Department of Environmental Conservation have not come to inspect the site of the past week's diesel fuel spill.

Tuesday, 4/16/96

- * Heavy rainfall is generating significant surface runoff at Site 2 in the morning.
- * Four trucks from JBT Trucking; Babylon, NY; arrive at Site 2 at 7:00 AM. The following information is collected regarding the new trucking firm for Site 2 soils:

<u>Driver</u>	<u>Tractor No.</u>	<u>Trailer No.</u>
Jim Byrne	95-846	8085
Bob Denneky	94-319	2
Cliff Sieber	94-319	6
Steve Arthur	89-1	8084

- According to P. Embruscia each truck is permitted to operate at a gross weight of 120,000 pounds. Each truck is to transport 60,000 pounds of PCB-contaminated soil per load.
- * B. Ingram notes that the mesh tarps currently installed on each of the 4 JBT trailers will not prevent rain infiltration during transport. Given today's heavy rains, B. Ingram notifies B. Dolhancay and P. Embruscia to terminate all soil transport activities today. All 4 JBT trailers are instructed to return to Site 2 and dump the first loads back in the stockpile. B. Ingram informs B. Dolhancay and P. Embruscia that the mesh tarps must be replaced on all 4 trucks if soil is to be transported during rainstorms.
 - * Because of the heavy rain and significant runoff at Site 2, B. Ingram instructs B. Dolhancay to terminate all sitework until tomorrow. B. Dolhancay instructs Site 2 worker to excavate additional runoff collection trenches around the excavated area of Site 2. B. Dolhancay informs C. Farkos that the available plastic sheeting at Site 2 is insufficient to cover the entire stockpile of PCB-contaminated soil. No sheeting is applied. Straw bales are placed around the entire perimeter of the stockpile to control silt runoff. C. Farkos

notes to B. Dolhancay that the sideslopes are collapsing into the excavated area identified to be below the PCB action level by last week's field sampling. B. Dolhancay notes that these sideslopes are comprised clean soil. Given the heavy rains and the Site 2 runoff conditions, C. Farkos notes to B. Dolhancay that additional field screen samples may need to be collected from a few points in the excavated and sampled portion of Site 2 and the area underlying and surrounding the stockpile of PCB-contaminated soil. Dolhancay agrees.

- * Site 2 construction activities finish at 11:00 AM.
- * Photocopies of the corrected manifests #1 through #106 arrive at the ROICC office from the Utah dumpsite.

Wednesday, 4/17/96

- * JBT Trucking arrives with 2 trucks using automatically operated canvass tarps and 2 trucks using mesh tarps that must be manually applied and removed from the soil in the truck bed.
- * Tractors 94-301 and 95-363 arrive at Site 2 without valid New York IRP vehicle registration. B. Dolhancay receives faxed copies of IRP registration extensions for both tractors. All drivers produce certification to operate at 120,000 pounds gross weight.
- * Truck operating information is summarized below:

<u>Driver</u>	<u>Tractor No.</u>	<u>Trailer No.</u>
Joe Caterish	95-363	6
Bob Denneky	94-301	2
Jim Arthur	91-752	5
Dave Croner	89589	8084

Thursday, 4/18/96

- * Excavation continues in the area of SB-62 and SB-63.
- * A JBT driver arrives at Site 2 to remove the trailer staged since 4/16/96. The raised trailer is cleaned with a pressure sprayer over the decontamination pad.

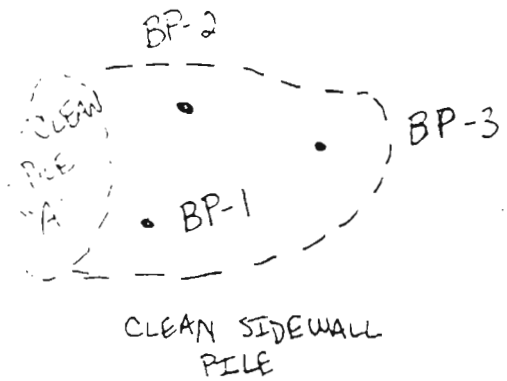
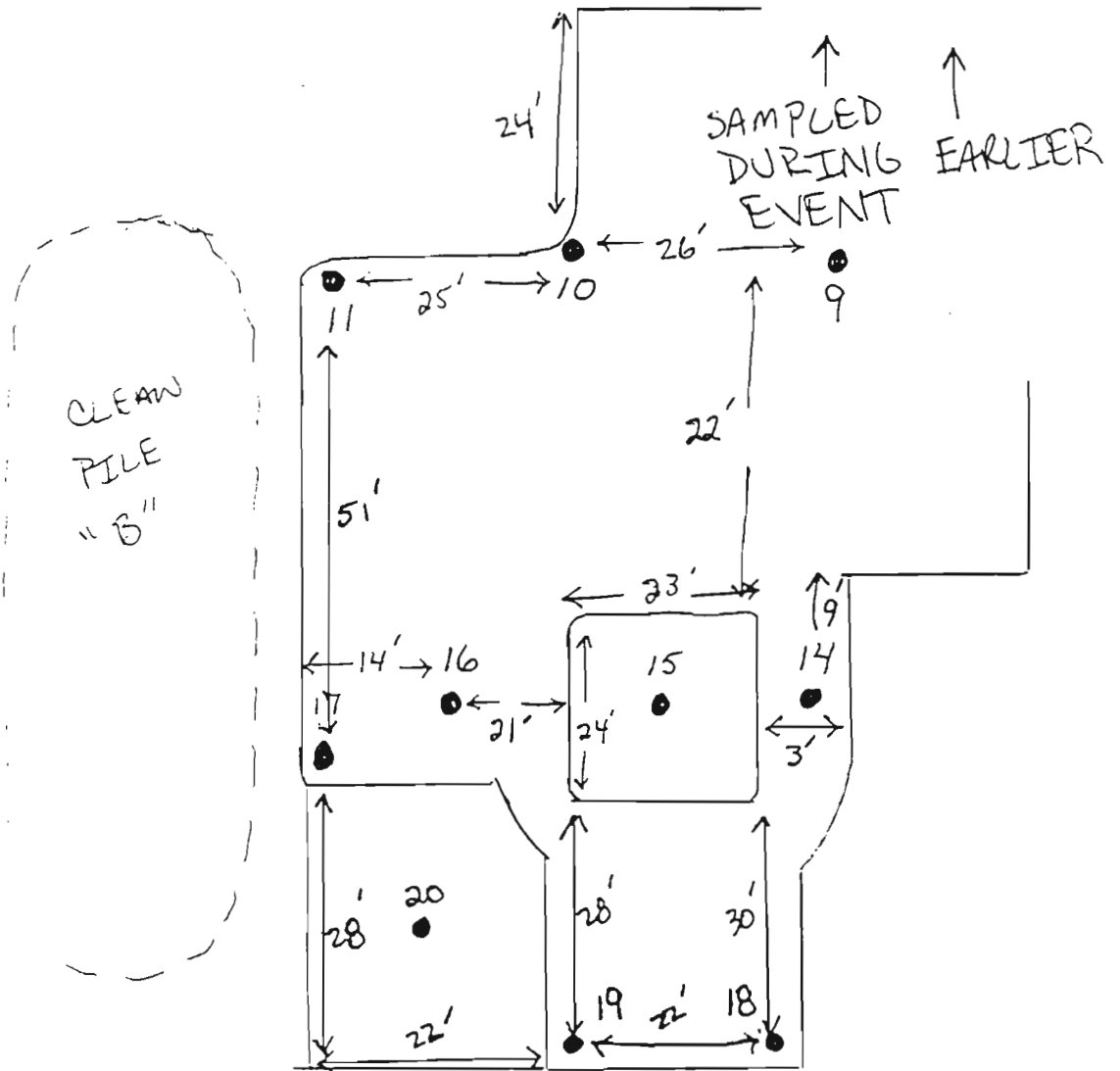
Friday, 4/19/96

- * Excavation of the PCB-contaminated soils at Site 2 is completed today. The following excavation data is available for the week:

<u>Date</u>	<u>No. of Deliveries</u>	<u>Total Tons of Soil</u>	<u>First Truck Out</u>	<u>Last Truck Out</u>
4/15/96	12	260 tons	7:33 AM	2:07 PM
4/16/96		No deliveries due to heavy rains		
4/17/96	19	601 tons	7:44 AM	3:46 PM
4/18/96	14	429 tons	8:27 AM	3:20 PM
4/19/96	15	454 tons	7:38 AM	2:40 PM

The cumulative total PCB-contaminated soil excavated from Site 2, including the week of 4/15/96, was 5,506 tons. This soil was transported in 235 truckloads to the railroad dumpsite. The total quantity of soil removed for the week was 1,744 tons transported in 60 truckloads.

- * C. Farkos locates the final 10 soil sample locations in the base of the excavation. These locations are sampled today by Foster Wheeler using the field test kits. Samples were collected by Foster Wheeler at locations 9, 10, 11, 14, 15, 16, 17, 18, 19 and 20. Also, field screen samples BP-1, BP-2 and BP-3 were collected from the pile of soil excavated from the sidewalls and dumped adjacent to clean soil pile "A" (See diagram and meeting minutes 4/19/96).



NEW SAMPLE POINTS
4/19/96 ●

C F Braun

Weekly Progress Meeting - Week 5

April 19, 1996

CTO 212 - Site 2 Remediation

NWIRP Bethpage, NY

List of Attendees:

Al Taoramina	Navy ROICC
Bob Ingram	Navy ROICC
Craig Farkos	C.F. Braun
William Dolhancay	Foster Wheeler
Cheryl Polios	Foster Wheeler
Howard Lazarus	Foster Wheeler

Meeting Minutes:

The weekly construction meeting was held in the ROICC office:

- B. Dolhancay and H. Lazarus notes that Foster Wheeler will coordinate disposal of the drill cuttings staged at Site 1. Analytical results for the cuttings indicate that PCB concentrations are less than 500 ppm in all but the surface layer of 1 drum. The drummed cuttings will be transferred from Site 1 to Site 2 by the Site 2 front-end loader. All soil will be removed from the drums at Site 2, added to the existing stockpile of PCB-contaminated soil, and shipped to the railyard with the other Site 2 soil. The empty drums will be crushed and shipped to the railyard with the soil for delivery to Utah. Also, the drums staged adjacent to Site 2 by C.F. Braun during an earlier Site 2 investigation will be handled in the same way.
- B. Dolhancay and H. Lazarus notes that Foster Wheeler will remove the drummed decontamination fluids generated at Site 2 and mix it with the stockpile of PCB-contaminated soil at Site 2.
- B. Dolhancay informs the attendants that the current manifest used for Site 2 soils are satisfactory for the transport of the drill cuttings from Site 1 and the soil moistened by the decontamination fluids. Also, B. Dolhancay reiterates that these manifests are satisfactory for the soil excavated because of the diesel fuel spill of 4/11/96 which were temporarily stockpiled at Site 2.
- B. Dolhancay and H. Lazarus note that Laidlaw is responsible for all costs associated with decontamination of the front-end loader bucket and soil hopper used at the railyard as well as the four JBT trailers. At the request of A. Taoramina and B. Ingram, B. Dolhancay and H. Lazarus agree to oversee the decontamination of these items and agree to supply the Navy with a release from liability for each of these pieces of equipment.
- H. Lazarus indicates that Foster Wheeler may not reimburse Laidlaw for expenses associated with demobilization of equipment at the railyard since Laidlaw personnel have indicated that the railyard facility may be used in the future for additional hazardous waste disposal operations. B. Dolhancay and H. Lazarus note that all equipment used at Site 2 will be demobilized at the close of the job. The fence adjacent to the waste water treatment plant and the gravel in that area disturbed by Foster Wheeler will be replaced by Foster Wheeler. The fence removed from Site 1 by Foster Wheeler will not be replaced. The trailers will not be demobilized in anticipation of additional construction activity at Site 1.

- B. Dolhancay notes that purchased backfill for the Site 2 excavation area will be minimized by scraping up to a 3 foot layer from the area immediately outside the fenced entrance to Site 2. Following scraping, this area will be regraded by Foster Wheeler to promote proper drainage.
- B. Dolhancay and H. Lazarus agree to collect field screen samples at locations selected by C. Farkos in the entrance corridor to Site 2, in the surface soil currently covered by the PCB-contaminated soil stockpile, and in the stockpile of soil adjacent to clean pile "A" which was generated by excavating the sidewalls to Site 2. These field screen samples will be used to confirm that all these soils contain PCB's at concentrations below the 10 ppm action level.
- H. Lazarus requests a letter from C.F. Braun approving the use of clean soil pile "B" as backfill for Site 2. The letter should note exceptions to the approved design with regard to all backfill being delivered from offsite and the specified geophysical parameters for the backfill. H. Lazarus agrees to supply analytical results for the geophysical parameters of clean soil pile "B."
- B. Dolhancay notes that the base of excavation at Site 2 will be professionally surveyed on 4/22/96 or 4/23/96.
- B. Ingram notes that the truck trailers of the selected soil removal company must be fitted with water-proof tarps prior to the start of any construction activity at Site 1. H. Lazarus outlines the nature and extent of contamination at Site 1. Additional details will be forthcoming pending completion of the laboratory analyses of Site 1 soil samples.
- C. Farkos notes that manifest numbers 1 through 175 retained at the ROICC offices have been forwarded to the following departments:

Copy #3: Utah State Division of Solid & Hazardous Waste
P.O. Box 14480
Salt Lake City, Utah 84114-4880

Copy #4: State of New York Department of Environmental Conservation
Division of Hazardous Substance Regulation
P.O. Box 12820
Albany, New York 12212

Copy #8: Retained at the ROICC office.



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A Division of Halliburton NUS Corporation

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FAX: (412) 921-4040

C-49-05-6-012

May 1, 1996

Project Number 5236

Mr. Steven Lehman (Code 4051/SL)
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop No. 82
Lester, PA 19113-2090

Reference: CLEAN Contract No. N62472-90-D-1298
Contract Task Order 0212

Subject: Northern Division, Naval Facilities Engineering Command
Naval Weapons Industrial Reserve Plant, Bethpage, New York
Transmittal of Weekly Report and Meeting Minutes from Progress Meeting No. 6

Dear Mr. Lehman:

You will find enclosed one (1) copy each of the Weekly Report and meeting minutes from the Progress Meeting No. 6. If you have any questions or require additional information, please call me at 412-921-8916.

Very truly yours,


Mark P. Speranza, P.E.
Project Manager

MPS/dt

Enclosure

c: Mr. Roger Boucher, NORTHDIV (w/o enclosure)
Mr. Paul Briegel, NORTHDIV
Mr. Jim Colter, NORTHDIV
Mr. Al Taormina, Navy ROICC
Mr. Bob Ingram, Navy
Mr. Howard Lazarus, Foster Wheeler
Mr. Bill Dolhancay, Foster Wheeler
Mr. Randy Miller, Laidlaw Corporation (minutes only)
Mr. John Trepanowski, C.F. Braun
Mr. Daryl Hutson, C.F. Braun
Mr. Craig Farkos, C.F. Braun
File 5236

C F Braun

Weekly Progress Report - Week 6

4/22/96 to 4/26/96

CTO 212 - Site 2 Remediation

NWIRP Bethpage, NY

Prepared by: Craig Farkos

The following activities occurred during Week 6:

Monday 4/22/96:

- * Excavation within the boundaries of the Site 2 contamination area is completed today. The four JBT trucks continue to be loaded from the stockpile of excavated PCB-contaminated soil located in the area of SB-55, SB-60 and SB-61.
- * Analytical results for the field screen samples collected by Foster Wheeler on 4/19/96 are as follows:

<u>Date</u>	<u>Sample Location</u>	<u>Total PCB Concentration</u>
4/19/96	9	2.8 ppm
4/19/96	10	3.1 ppm
4/19/96	11	1.5 ppm
4/19/96	14	2.5 ppm
4/19/96	15	2.1 ppm
4/19/96	16	3.6 ppm
4/19/96	17	4.3 ppm
4/19/96	18	2.0 ppm
4/19/96	19	13.5 ppm
4/19/96	20	2.7 ppm
4/19/96	BP-1	2.5 ppm
4/19/96	BP-2	2.3 ppm
4/19/96	BP-3	7.1 ppm

- * Analytical results for the laboratory samples collected by C. F. Braun on 4/12/96 are as follows:

<u>Date</u>	<u>Sample ID</u>	<u>Sample Location</u>	<u>Total PCB Concentration</u>
4/12/96	S2-A-01	1	1.0 ppm
4/12/96	S2-A-02	2	0.2 ppm
4/12/96	S2-A-03	3	6.7 ppm
4/12/96	S2-A-04	4	3.0 ppm
4/12/96	S2-A-05	5	1.1 ppm
4/12/96	S2-A-06	6	0.2 ppm
4/12/96	S2-A-07	7	8.6 ppm
4/12/96	S2-A-08	8	4.1 ppm
4/12/96	S2-A-12	12	0.1 ppm
4/12/96	S2-A-13	13	19.0 ppm
4/12/96	S2-A-29	3 Duplicate of S2-A-03	5.6 ppm

The detected PCB in each of the 11 analytical results reported above was Aroclor 1248. For all 11 samples, the concentrations of all other Aroclors were reported as Non-Detect.

- * Because the PCB concentrations detected in Foster Wheeler sample #9 and C. F. Braun sample #S2-A-13 exceed the 10 ppm action level, a 10 ft x 10 ft x 2 ft volume of soil was reexcavated from both locations.

Foster Wheeler collected field screen samples from each of the reexcavated areas and reported the following analytical results:

<u>Date</u>	<u>Sample Location</u>	<u>Total PCB Concentration</u>
4/22/96	13	7.0 ppm
4/22/96	19	3.2 ppm

- * Since all analytical results reported by Foster Wheeler for the field screen samples were less than the 10 ppm action level, C.F. Braun collected the following samples for laboratory analysis:

<u>Date</u>	<u>Sample ID</u>	<u>Sample Location</u>
4/22/96	S2-A-09	9
4/22/96	S2-A-10	10
4/22/96	S2-A-11	11
4/22/96	S2-A-14	14
4/22/96	S2-A-15	15
4/22/96	S2-A-16	16
4/22/96	S2-A-17	17
4/22/96	S2-A-18	18
4/22/96	S2-A-19	19
4/22/96	S2-A-20	20
4/22/96	S2-A-30	16 Field Duplicate

- * Site 2 laborers begin moving drums containing drill cuttings from Site 1 to Site 2 for disposal. The following drum inventory was made by C. Farkos:

Site 1 Drum Inventory

	<u>Number of Drums</u>
Drums filled with drill cuttings	178
Drums filled with decontamination water	49
Drums filled with sample jars	1
Empty Drums	2

The drums filled with Site 1 decontamination water were not removed from Site 1. These drums and the contents will be disposed by Laidlaw.

Tuesday 4/23/96

- * The transfer of drums from Site 1 to Site 2 and the disposal of these drums continues today. The stockpile of PCB-contaminated soil continues to be loaded into JBT trucks and shipped to the railyard. JBT trailer #8084 is out of service until 12:00 PM because of a broken tractor axle.
- * C. Farkos speaks with J. Trepanowski, D. Brayack and R. Simcik regarding the following issues:
 1. Foster Wheeler proposes to use soil piles A, B and C currently stockpiled at Site 2 as backfill for the excavation area. Foster Wheeler is currently subjecting 5 discrete samples collected from soil pile B to a full suite of laboratory analyses because pile B is comprised of soil derived from various base operations (See field notes 4/12/96). Foster Wheeler proposes to use analytical results reported from field test kits to determine if soil piles A and C contain PCBs at concentrations below the 10 ppm action level and may be used as Site 2 backfill. Soil pile A is comprised of soil scraped from the top 4 foot surface layer of Site 2 (non-cross hatched area on the enclosed drawing), and soil excavated from the sideslopes of the hole. Soil pile C is comprised of soil scraped from the same 4 foot surface layer of Site 2. According to H. Lazarus, analytical results for the top 4 foot portion of Foster Wheeler soil borings collected in November 1995 from this area (See enclosed drawing) reported total concentrations of PCBs at concentrations less than the 10 ppm action level.

A review of literature for the RAPID Assays field test kits used at Site 2 indicate that a reactivity factor of 0.85 for Aroclor 1248 and 0.41 for Aroclor 1242 must be applied to the "blind" PCB concentration reported by the kit. Given that both Aroclor 1242 and Aroclor 1248 have been detected in Site 2 surface soils at concentrations greater than 10 ppm (See Foster Wheeler analytical results, 12/11/95), some "clean" surface soils were mistakenly mixed with PCB-contaminated surface soils during the initial excavation (See field notes 3/27/96 and 3/28/96), and the correlation between the reported field test kit result and the laboratory analytical result has been weak (See Foster Wheeler field test result, sample location #13, 4/12/96, vs. C. F. Braun laboratory analytical result, sample location #13, 4/12/96), it is recommended by C.F. Braun that composite soil samples collected from soil piles A and C be subjected to laboratory analysis prior to being used as backfill.

2. C.F. Braun design specifications (June 1995, Section 02220, pp 1 through 6), outline specific geophysical parameters for Site 2 backfill. Foster Wheeler proposes to use soil pile B as Site 2 backfill. Since this soil was not excavated from Site 2 and was derived from various base locations, it is recommended by C.F. Braun that the geophysical parameters for this soil be determined prior to backfilling and that a written waiver of the approved Section 02220 specifications be obtained prior to using this soil as backfill.

R. Simcik agrees to contact S. Lehman regarding these two issues and to notify C. Farkos of the appropriate site action.

- * R. Simcik notifies C. Farkos that S. Lehman requests that 5 discrete samples be collected from both soil pile A and soil pile C. Each of the sets of 5 discrete samples are to be composited by Quanterra Labs to form a single, representative sample for each pile. The 2 samples are to be analyzed by Quanterra Labs for concentrations of total PCBs using a 72-hour turnaround.

Wednesday 4/24/96

- * C. Farkos collects the following samples from soil piles A and C (See enclosed diagram)

<u>Date</u>	<u>Soil Pile A - Sample ID</u>	<u>Soil Pile C - Sample ID</u>
4/24/96	SPA-01	SPC-01
4/24/96	SPA-02	SPC-02
4/24/96	SPA-03	SPC-03
4/24/96	SPA-04	SPC-04
4/24/96	SPA-05	SPC-05

All samples are collected at a depth of 2 feet below the ground surface.

- * A D-5 bulldozer and small surface roller are delivered to Site 2 today.
- * A 6 inch to 10 inch surface layer of soil is being scraped from portions of the traffic areas of Site 2 (See enclosed diagram). The scraped soil is being stockpiled with the PCB soils and crushed drums and transported to the railyard. Drum transfer from Site 1 is completed today. Of the total soil transported from Site 2 for 4/24/96, C. Farkos notes the following information regarding this scraped soil:

<u>Date</u>	<u>Trailer No.</u>	<u>Tons of Soil</u>	<u>Trailer Departure</u>
4/24/96	6	30	10:55 AM
4/24/96	2	31	11:06 AM

- * Trucking of all PCB-contaminated soil and crushed drums stockpiled at Site 2 is completed today. At the close of the day, all 4 JBT tractors and trailers are cleaned over the decontamination pad and permitted to depart Site 2.
- * The following shipping information is collected for the week:

<u>Date</u>	<u>Number of Truckloads</u>	<u>Tons of Soil</u>	<u>First Delivery</u>	<u>Last Delivery</u>
4/22/96	17	534	7:39 AM	4:49 PM
4/23/96	16	506	7:31 AM	4:08 PM
4/24/96	14	436	7:36 AM	4:02 PM

The total soil and crushed drums shipped for the week from Site 2 to the railyard was 1476 tons transported in 47 loads. The cumulative total quantity of soil shipped to the railyard from Site 2 between 3/25/96 and 4/24/96 is 6982 tons. This soil was transported to the railyard in 282 truckloads.

Thursday 4/25/96

- * The remaining surface layer of the traffic areas in Site 2 are scraped at a depth of 6 inches to 10 inches. This soil is stockpiled at Site 2 for transport to the railyard next week with the decontamination pad (See enclosed diagram). R. Simcik instructs C. Farkos not to collect any confirmatory samples from the scraped traffic areas. The excavated portion of Site 2 is being lined with straw bales and prepared for next week's backfilling activity. Access ramps are constructed into the excavation area. One ramp is excavated in the area of SB-42. Another ramp is excavated in the area of SB-45. Portions of the site not confirmed to be clean are not disturbed.
- * The base and boundaries of the excavated portion of Site 2 is surveyed by a professional surveyor.
- * The front-end loader and track excavator are cleaned over the decontamination pad.
- * C. Farkos mails copies #3 and #4 of manifest 176 through 283 to the state regulatory authorities.

Friday 4/26/96

- * The Site 2 construction equipment and manpower are directed to Site 1 to excavate a test pit. The excavation reveals a 4-inch clay pipe with no visible drainage holes. Four soil samples are collected by Foster Wheeler personnel and the area is backfilled with the excavated material.

C F Braun

**Weekly Progress Meeting - Week 6
April 25, 1996
CTO 212 - Site 2 Remediation
NWIRP Bethpage, NY**

List of Attendees:

Al Taoramina	Navy ROICC
Bob Ingram	Navy ROICC
Craig Farkos	C.F. Braun
William Dolhancay	Foster Wheeler
Randy Miller	Laidlaw Environmental (teleconference)

Meeting Minutes:

The weekly construction meeting was held in the ROICC office:

- C. Farkos and B. Dolhancay identify to R. Miller the weight discrepancy between the manifested weight written by the Navy ROICC on the manifest and the manifested weight printed by the Utah disposal facility on the Rail Reconciliation Form. According to R. Miller, this difference is caused by conversion from kilograms to pounds.
- C. Farkos and B. Dolhancay identify to R. Miller the weight discrepancy between the weight printed on weight ticket generated at the Navy yard, the manifested weight printed by the Utah disposal facility on the Rail Reconciliation Form, and the Site weight printed by the Utah disposal facility on the Rail Reconciliation Form. According to R. Miller, the Site weights recorded on the Rail Reconciliation Forms are generated by weighing transporter trucks containing PCB soil excavated from the railcar at the Utah dumpsite. R. Miller notes that these trucks are not lightweighed prior to every transfer of PCB soil into the trailer. B. Dolhancay notes that some soil may stick into the trailer following dumping in the Utah landfill. This sticking may cause the numerous discrepancies between the total pounds of soil recorded by the ROICC office for each railcar and the greater, total pounds of soil frequently reported to be unloaded from each railcar at the Utah disposal facility. R. Miller agrees to identify and calculate these numerous discrepancies and to print a "discrepancy plot" of the calculations. A calculation and plot will be generated per every 50 manifests received at the Utah facility. If the plot indicates that these discrepancies exceedingly favor the Utah disposal facility, then R. Miller agreed to use the net pounds values printed on the weight tickets generated at the Navy yard as the basis for billing for disposal of the PCB soils.
- C. Farkos notes the numerous differences between the kilogram values written by the ROICC on the manifests and the corresponding kilogram values printed on the Certificates of Disposal generated at the Utah disposal facility. R. Miller notes that these discrepancies are not a regulatory violation unless the differences are greater than 10%.
- R. Miller agrees to generate a letter for the ROICC outlining and resolving the issues noted above.
- B. Dolhancay notes that 2 railcars are staged at the railyard to transport the final soil shipments from Site 2.
- B. Dolhancay notes that the boom will be collected from the recharge basin and that a new replacement boom will be delivered to Grumman.



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C-49-05-6-144

May 16, 1996

Project Number 5236

bc: Dave Brayack
Rob Simcik

Mr. Steven Lehman (Code 4051/SL)
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop No. 82
Lester, PA 19113-2090

Reference: CLEAN Contract No. N62472-90-D-1298
Contract Task Order 0212

Subject: Northern Division, Naval Facilities Engineering Command
Naval Weapons Industrial Reserve Plant, Bethpage, New York
Transmittal of Weekly Report and Meeting Minutes from Progress Meeting No. 7

Dear Mr. Lehman:

You will find enclosed one (1) copy each of the Weekly Report and meeting minutes from the Progress Meeting No. 7. If you have any questions or require additional information, please call me at 412-921-8916.

Very truly yours,

Mark P. Speranza, P.E.
Project Manager

MPS/dt

Enclosure

c: Mr. Roger Boucher, NORTHDIV (w/o enclosure)
Mr. Paul Briegel, NORTHDIV
Mr. Jim Colter, NORTHDIV
Mr. Al Taormina, Navy ROICC
Mr. Bob Ingram, Navy
Mr. Howard Lazarus, Foster Wheeler
Mr. Bill Dolhancay, Foster Wheeler
Mr. Randy Miller, Laidlaw Corporation (minutes only)
Mr. John Trepanowski, C.F. Braun
Mr. Daryl Hutson, C.F. Braun
Mr. Craig Farkos, C.F. Braun
File 5236

C F Braun

Weekly Progress Report - Week 7
4/29/96 to 5/03/96
CTO 212 - Site 2 Remediation
NWIRP Bethpage, NY
Prepared by: Craig Farkos

The following activities occurred during Week 7:

Monday 5/29/96:

- * The following analytical results are received by C. Farkos at Site 2:

C. F. Braun Confirmatory Samples for Base of the Excavation

<u>Sample Date</u>	<u>Sample ID</u>	<u>Sample Location</u>	<u>Total Concentration PCB's</u>
4/22/96	S2-A-09	9	4.0 ppm
4/22/96	S2-A-10	10	1.4 ppm
4/22/96	S2-A-11	11	Non-Detect
4/22/96	S2-A-13R	13	4.9 ppm
4/22/96	S2-A-14	14	1.8 ppm
4/22/96	S2-A-15	15	0.7 ppm
4/22/96	S2-A-16	16	5.0 ppm
4/22/96	S2-A-17	17	2.1 ppm
4/22/96	S2-A-18	18	0.7 ppm
4/22/96	S2-A-19	19	1.3 ppm
4/22/96	S2-A-20	20	2.3 ppm
4/22/96	S2-A-30	16 Field Duplicate	6.5 ppm

All reported concentrations are for the PCB, Aroclor 1248. All other Aroclors were reported at Non-Detect concentrations.

All confirmatory field samples are less than the 10 ppm action level for concentration of total PCB's at Site 2.

C.F. Braun Composite Samples for Soil Pile A and Soil Pile C

<u>Sample Date</u>	<u>Sample ID</u>	<u>Total Concentration PCBs</u>
4/24/96	Composite: SPA-01 SPA-02 SPA-03 SPA-04 SPA-05	4.7 ppm
4/24/96	Composite: SPC-01 SPC-02 SPC-03 SPC-04 SPC-05	6.0 ppm

All reported concentrations are for the PCB, Aroclor 1248. All other Aroclors were reported at Non-Detect concentrations.

The composite sample result for both piles is below the 10 ppm action level for total PCBs at Site 2

M. Speranza informs C. Farkos that the EPA guidance document on site sampling for PCB contamination recommends a maximum total PCB concentration of 2.8 ppm in order to statistically declare each of the 5 aliquats making up composite samples SPA and SPC to be less than the 10 ppm action level established for Site 2. Since the analytical results reported for both composite samples is greater than 2.8 ppm, M. Speranza recommend that each of the 5 aliquats making up composite sample SPA and each of the 5 aliquats making up composite sample SPC be analyzed separately by Quanterra Labs. M. Speranza notes to C. Farkos that S. Lehman has authorized 72-hour turnaround analysis for all 10 samples. C. Farkos notifies Quanterra Labs of the work order.

Foster Wheeler Confirmatory Samples for Soil Pile B

<u>Sample Date</u>	<u>Sample ID</u>	<u>Chromium Conc.</u>	<u>Zinc Concentration</u>
4/12/96	SPB-01	18.3 ppm	42.1 ppm
4/12/96	SPB-02	6.9 ppm	24.5 ppm
4/12/96	SPB-03	36.6 ppm	59.5 ppm
4/12/96	SPB-04	17.6 ppm	75.6 ppm
4/12/96	SPB-05	20.6 ppm	75.5 ppm

The New York State action level for chromium and zinc in soils is reported by Foster Wheeler to be 10 ppm and 20 ppm, respectively. Most of the analytical results reported above exceed these limits.

The detected concentrations of total PCBs in all 5 samples were below the 10 ppm action level for Site 2.

- * The following PCB soil shipping data is recorded:

<u>Date</u>	<u>Total Tons</u>	<u>Number of Loads</u>	<u>First Load Out</u>	<u>Last Load Out</u>
4/29/96	97	3	8:20 AM	11:39 AM

All 3 soil shipments are generated from scraping the PCB-contaminated surface layer of Site 2 in the high traffic areas.

Tuesday 4/30/96

- * Construction workers prepare Site 2 for delivery of backfill material by excavating access ramps into Site 2. A roller operator has reported to Site 2 for the duration of the backfilling.
- * M. Speranza informs C. Farkos that all analytical results for the base of the excavation have been confirmed by a staff chemist. The excavation may now be backfilled.
- * American Materials Inc, Kings Park, NY, delivers 2 loads of backfill (materials are referred to a bankrun and processed fill) to Site 2 for B. Dolhancay's inspection. The job manager for American Materials is given a copy of the C.F. Braun specifications for offsite backfill material.
- * Two additional loads are delivered and compacted today (see Table, 05/03/96).
- * No geotesting of the compacted fill is being performed.
- * B. Dolhancay informs C. Farkos that a sample of the processed fill has been delivered to the geotesting lab to confirm compliance with approved backfill specifications. A sample of the bankrun material was not collected.

Wednesday 5/1/96

- * Delivery of offsite backfill by American Materials continues today. The backfill is being distributed across the site by the bulldozer and compacted by the vibratory roller (see Table, 5/03/96).
- * No geotesting of the compacted fill is being performed.

Thursday 5/2/96

- * The following analytical results for the individual aliquats for Piles A and C are faxed to C. Farkos from Quanterra Labs:

<u>Sample Date</u>	<u>Sample ID</u>	<u>Total PCB Concentration</u>
4/24/96	SPA-01	6.5 ppm
4/24/96	SPA-02	3.5 ppm
4/24/96	SPA-03	4.2 ppm
4/24/96	SPA-04	2.7 ppm
4/24/96	SPA-05	2.8 ppm
4/24/96	SPC-01	4.4 ppm
4/24/96	SPC-02	4.7 ppm
4/24/96	SPC-03	4.8 ppm
4/24/96	SPC-04	3.5 ppm
4/24/96	SPC-05	5.5 ppm
4/24/96	SPC-02FD	5.0 ppm

All detected concentrations are for Aroclor 1248. All other Aroclors are reported at Non-Detect concentrations.

Because all analytical results are below the 10 ppm action level for total PCB concentration. M. Speranza advises C. Farkos that Pile A and Pile C may be used as backfill for Site 2. C. Farkos informs B. Dolhancay.

- * A field representative from Materials Testing Lab Inc, New Hyde Park, NY, arrives onsite today to monitor the geophysical parameters of the lifts of backfill being compacted at Site 2. Field monitoring is performed by a Troxler testing device. The following geophysical parameters are identified for Site 2 materials:

<u>Material Tested</u>	<u>Wet Density</u>	<u>Dry Density</u>	<u>Maximum Density</u>	<u>Moisture Content</u>
Pile C Material	129 lb/cu ft	123 lb/cu ft	126 lb/cu ft	5.3 %
Material from Site 2 Evaluation	119 lb/cu ft	112 lb/cu ft	115 lb/cu ft	6.3 %
Processed Fill	135 lb/cu ft	123 lb/cu ft	123 lb/cu ft	10.5 %

Site 2 backfill material is comprised of bankrun soils supplied by American Materials and onsite soils derived from Pile A and Pile C. Field testing is performed at various locations within the compacted area following compacting of each soil lift (See enclosed field test results for 5/2/96, 5/3/96).

- * A. Taoramina and B. Ingram inform C. Farkos and B. Dolhancay that no weekly progress meeting will be held today. The meeting will be rescheduled for next week.

Friday 5/3/96

- * Material delivery & compacting operations continue.

- * The following backfill delivery data for Site 2 is recorded:

<u>Date</u>	<u>Number of truckloads</u>	<u>Total Tons</u>	<u>Material Classification</u>
4/30/96	1	40	Processed Fill
4/30/96	3	124	Bankrun
5/1/96	10	414	Bankrun
5/2/96	2	84	Bankrun
5/2/96	6	245	Screened Sand
5/3/96	2	83	Bankrun
5/3/96	12	567	Screened Sand

The density used by American Materials for the processed fill and bankrun fill is 1.25 ton/cy. The density used for the screened sand is 1.20 ton/cy.

- * John McGrath of the Navy Contract Administration visits Site 2 to review operations with B. Dolhancay and C. Farkos.
- * Manifests 1 through 120 have been returned to the ROICC office from the Utah disposal facility. C. Farkos advises B. Dolhancay that no bell curves have been received from R. Miller at the Utah disposal facility (See meeting minutes 4/25/96).
- * Two trucks are used to deliver backfill to Site 2 from 4/30/96 to 5/1/96. Four trucks are used to deliver backfill to Site 2 for 5/2/96 and 5/3/96. C. Farkos timed 1 round trip for soil delivery to require 2 hours 30 min. Labor downtime is incurred between deliveries.
- * B. Dolhancay informs C. Farkos that the geotechnical test results for the processed fill have not yet arrived. No samples of the screened sand have been collected for laboratory analysis.

C F Braun

**Weekly Progress Meeting - Week 7
May 2, 1996
CTO 212 - Site 2 Remediation
NWIRP Bethpage, NY**

List of Attendees:

Al Taoramina	Navy ROICC
Bob Ingram	Navy ROICC
Craig Farkos	C.F. Braun
William Dolhancay	Foster Wheeler

Meeting Minutes:

- May 2, 1996 - A. Taoramina and B. Ingram inform C. Farkos and B. Dolhancay that no progress meeting will be held this week. The meeting will be rescheduled for next week.



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C-49-05-6-145

May 16, 1996

Project Number 5236

bc: Dave Brayack
Rob Simcik

Mr. Steven Lehman (Code 4051/SL)
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop No. 82
Lester, PA 19113-2090

Reference: CLEAN Contract No. N62472-90-D-1298
Contract Task Order 0212

Subject: Northern Division, Naval Facilities Engineering Command
Naval Weapons Industrial Reserve Plant, Bethpage, New York
Transmittal of Weekly Report and Meeting Minutes from Progress Meeting No. 8

Dear Mr. Lehman:

You will find enclosed one (1) copy each of the Weekly Report and meeting minutes from the Progress Meeting No. 8. If you have any questions or require additional information, please call me at 412-921-8916.

Very truly yours,

Mark P. Speranza, P.E.
Project Manager

MPS/dt

Enclosure

c: Mr. Roger Boucher, NORTHDIV (w/o enclosure)
Mr. Paul Briegel, NORTHDIV
Mr. Jim Colter, NORTHDIV
Mr. Al Taormina, Navy ROICC
Mr. Bob Ingram, Navy
Mr. Howard Lazarus, Foster Wheeler
Mr. Bill Dolhancay, Foster Wheeler
Mr. Randy Miller, Laidlaw Corporation (minutes only)
Mr. John Trepanowski, C.F. Braun
Mr. Daryl Hutson, C.F. Braun
Mr. Craig Farkos, C.F. Braun
File 5236

C F Braun

Weekly Progress Report - Week 8

5/06/96 to 5/10/96

CTO 212 - Site 2 Remediation

NWIRP Bethpage, NY

Prepared by: Craig Farkos

The following activities occurred during Week 8:

Monday 5/06/96:

- * B. Dolhancay not at Site 2 because of illness.
- * Soil delivery to Site 2 by American Materials continues. Field representative from Materials Testing present to monitor compacting. The following additional geophysical parameters are identified by the field representative for the screened sand being used as backfill:

<u>Material Tested</u>	<u>Wet Density</u>	<u>Dry Density</u>	<u>Maximum Density</u>	<u>Moisture Content</u>
Screened Sand	111 lb/cu ft	105 lb/cu ft	109 lb/cu ft	5.1 %

- * Geotechnical test results for the processed fill is not complete. Bankrun and screened sand backfill have not been sampled by B. Dolhancay for geotechnical analysis. Certificate of "clean soil" has not been produced by the backfill supplier.
- * The following Site 2 activity was observed by C. Farkos:

<u>Time</u>	<u>Activity</u>
0700	Five truckloads of soil delivered by American Materials.
0900	Two operators finish spreading delivered soil. Compacting continues.
1000	Five truckloads of soil delivered by American Materials.
1115	Two operators finish spreading delivered soil. Compacting continues.
1245	Five truckloads of soil delivered by American Materials.
1350	Two operators finish spreading delivered soil. Compacting continues.
1440	Compacting finished.
1520	Five truckloads of soil delivered by American Materials.
1530	Workers offsite for day.

Tuesday 5/7/96

- * B. Dolhancay not at Site 2 because of illness.
- * Soil delivery to Site 2 by American Materials continues. Field representative from Materials Testing present to monitor compacting.
- * Geotechnical test results for the processed fill is not complete.
- * The following activities occur at Site 2:

<u>Time</u>	<u>Activity</u>
0700	Five truckloads of soil delivered by American Materials.
0800	Two operators finish spreading delivered soil. Compacting continues.
0830	Compacting complete.

0940 Four truckloads of soil delivered by American Materials.
 1050 Two operators finish spreading delivered soil. Compacting continues.
 1220 Four truckloads of soil delivered by American Materials.
 1350 Two operators finish spreading delivered soil. Compacting continues.
 1500 Three truckloads of soil delivered by American Materials.
 1530 Grading and compaction finished for day.

- * C. Farkos notes to A. Taoramina that screened sand is being placed and compacted into the excavated area. No certificate of "clean soil" produced by the backfill supplier. No geotechnical analysis have been performed on the screened sand and the bankrun to confirm compliance with the approved design specifications. A. Taoramina notes that since an exception to the specifications was granted to permit backfilling of Pile A and Pile C, an exception can also be granted for the use of screened sand for backfill. C. Farkos will assure continued compliance with the specified compaction limits. C. Farkos notes the Site 2 activity breakdown for 5/6/96 and 5/7/96 listed above.

Wednesday 5/8/96

- * B. Dolhancay returns to Site 2 following illness.
- * American Materials trucks are dumping processed fill into the excavated area for backfill. C. Polios notes that a verbal communication with Materials Testing confirms that the processed fill complies with the approved geotechnical design specifications. No certificate of "clean soil" is provided by the backfill supplier
- * The following Site 2 activities are recorded by C. Farkos:

<u>Time</u>	<u>Activity</u>
0700	Two American Materials tucks unload processed fill at Site 2.
0740	Three American Materials tucks unload processed fill at Site 2.
0810	Two operators finish spreading backfill.
0830	Compacting finished.
0940	Three American Materials tucks unload processed fill at Site 2.
0950	One American Materials tuck unloads processed fill at Site 2.
1007	One American Materials tucks unloads processed fill at Site 2.
1030	Two operators finish spreading backfill. Begin regrading side areas of Site 2. Compaction continues.
1125	Two operators and compaction operator finish.
1220	One American Materials truck delivers load.
1240	Two American Materials trucks deliver fill.
1250	One American Materials truck delivers load.
1330	C. Farkos off Site 2 for meeting with ROICC.
1430	C. Farkos returns to Site 2. One American Materials truck dumping load.
1440	One American Materials truck dumps load.
1450	One American Materials truck dumps load.
1500	One American Materials truck dumps load. Operator continue spreading and compacting.
1530	Workers off Site 2 for day.
1600	Three trucks dump loads.

All three laborers are working continuously on Site 2 cleanup and traffic control between 0940 and 1530.

Thursday 5/9/96

- * C. Farkos visits the Calverton site in the morning. Returns to Site 2 at 1300.
- * One JBT Trucking vehicle is being used to haul the excavated decontamination pad and the pile of scraped soil to the railyard for transport to Utah. Following dumping, the truck bed is decontaminated and the decontamination water is added to the PCB-contaminated soil contained in the railcar.

Friday 5/10/96

- * Compaction of delivered backfill continues. An additional hauler is using two trucks to deliver backfill to Site 2. Six trucks are delivering backfill to Site 2.
- * Laborers are working on Site 2 cleanup and reinstalling the fence around Site 2.
- * Two truckloads of gravel are delivered to Site 2. The gravel is spread in the area adjacent to the waste water treatment plant. B. Dolhancay notes that the laborers will return to Site 2 on 5/13/96 to complete reinstallation of the fence. Backfilling and compaction operations will be completed today.
- * The following backfill delivery activities occurred this week:

<u>Date</u>	<u>Total Tons Delivered</u>	<u>Number of Loads</u>	<u>Type of Material</u>
5/6/96	82	2	Bankrun
5/6/96	745	18	Screened Sand
5/7/96	640	16	Screened Sand
5/8/96	924	22	Processed Fill
5/9/96	767	18	Processed Fill
5/10/96	To Be Supplied By Foster Wheeler**		

- * The following PCB-contaminated materials were removed from Site 2:

<u>Date</u>	<u>Total Tons</u>	<u>Number of Loads</u>	<u>First Truck Out</u>	<u>Last Truck Out</u>
5/9/96	160	5	7:55 AM	5:33 PM

These are the final loads of PCB-contaminated material to be removed from Site 2. The cumulative total quantity of soil shipped to the railyard from Site 2 between 3/25/96 and 5/9/96 is 7239 tons. This soil was transported to the railyard in 290 truckloads.

- * C. Farkos requests the following documents from B. Dolhancay:
 - Certificates of "clean soil" from the backfill suppliers.
 - Lab results for the geophysical testing of the processed backfill.
 - Laidlaw-generated "release of liability" of the Navy for decontamination of all equipment used at the railyard.
 - Backfill tickets for deliveries of 05/10/96.
 - Compaction testing results for 05/10/96.
 - Analytical results for decontamination verification of Site 2 construction equipment.
 - H. Lazarus responses to C.F. Braun-generated Site 2 construction activity exceptions report (delivered to H. Lazarus 04/09/96).
- * B. Dolhancay agrees to forward the requested materials.**
- * C. Farkos closes Site 2 oversight activities today.

**Footnote: On the day of printing this Week 8 report (5/21/96), these documents had not been delivered to C.F. Braun from Foster Wheeler. These requested items will be included in the final Site 2 letter report to be prepared by C.F. Braun.



April 25, 1996

Mr. Bill Dohancy
Foster-Wheeler
c/o U. S. Navy-REICC-Bethpage
Mail Stop A-41-03
NWIRP Navy Plant 3
Grumman Aerospace Corporation
Bethpage, New York 11714-3593

RE: Evaluation and Resolution of Weight Differences

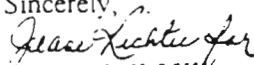
Dear Mr. Dohancy:

This letter confirms our telephone discussion of today referring to the differences to date in weights of waste volume received by U. S. Pollution Control, Inc.'s Grassy Mountain Facility from the Bethpage, New York project. As discussed, the shipments of rail loads of PCB Waste which has been transferred from truck to rail to truck have evidenced some variation in weight which is less than the 10% weight discrepancy. The nature of the discussions concerning weight differences is focused on assuring fair accounting of material for invoicing purposes under unit cost conditions.

The difference in weights could be due to random differences due to different scales, different application of conversion factors or other reasons. The customer indicates that it uses a certified scale and confirms these weights with a second certified scale, and these confirmations demonstrate a weight reproducibility of 0.1%. The Grassy Mountain Facility agrees to construct an analysis of fifty (50) loads comparing the generator's weight (in pounds from the scale ticket) to the Grassy Mountain Facility weight (in pounds from the scale ticket). If the comparison should random variations which in the aggregate essential cancel out Grassy Mountain will continue to invoice based on Grassy Mountain weights. If the comparison shows consistently heavier weights at the Grassy Mountain Facility, the facility agrees to change its weight determination for invoice purposes to reflect the generator's weight for each load. The previously invoiced loads could be rectified and credited as necessary.

The Grassy Mountain Facility will construct the first comparison on the first fifty loads and transmit the comparison to you when it is completed.

I appreciate your interest and absolutely concur that it is in the interest of all parties that the weights for invoice purposes be of understood and agreed-upon accuracy. Please feel free to call me at (801) 323-8960 if you have any questions regarding this letter. I will forward the comparison on the first fifty loads as soon as it is complete.

Sincerely,

W. Randall Miller
W. Randall Miller
General Manager
Grassy Mountain Facility

cc: Phil Embrescia
Howard Lazarus

Via Fax: (516) 293-7486



May 7, 1996

Mr. Bill Dohancy
Foster-Wheeler
c/o U. S. Navy-REICC-Bethpage
Mail Stop A-41-05
NWTRP Navy Plant 3
Grumman Aerospace Corporation
Bethpage, New York 11714-3593

Via Fax: (201) 842-7025

RE: Follow Up of April 25, 1996 Letter: "Evaluation and Resolution of Weight Differences"

Dear Mr. Dohancy:

As discussed in the above referenced letter, I am enclosing the waste volume weight comparison report to you. Please review and I will call you Wednesday, May 8, 1996 to discuss the results of our random report.

Sincerely,

W. Randall Miller
General Manager
Grassy Mountain Facility

cc: Phil Embrescia
Howard Lazarus

1996 load number	manifest number	arrival date	NAVY weight	GMF weight	difference
3386	00006	04/08/96	48000	47120	-880
3387	00007	04/08/96	43200	47260	4060
3374	00008	04/08/96	40820	55420	14600
3375	00009	04/08/96	43580	51280	7700
3388	00010	04/08/96	39240	37200	-2040
3389	00011	04/08/96	40940	44220	3280
3377	00012	04/08/96	43260	29260	-14000
3376	00013	04/08/96	44980	40760	-4220
3382	00014	04/08/96	41140	54020	12880
3383	00015	04/08/96	46220	54300	8080
3384	00016	04/08/96	46440	42680	-3760
3385	00017	04/08/96	47320	32180	-15140
3378	00018	04/08/96	43120	31280	-11840
3379	00019	04/08/96	45540	41720	-3820
3380	00020	04/08/96	43140	47360	4220
3381	00021	04/08/96	51100	62920	11820
3470	00026	04/11/96	46200	41380	-4820
3471	00027	04/11/96	45300	45780	480
3472	00028	04/11/96	45520	41740	-3780
3473	00029	04/11/96	45740	45480	-260
3486	00030	04/11/96	43940	44820	880
3467	00031	04/11/96	41760	39680	-2080
3468	00032	04/11/96	44040	42520	-1520
3474	00033	04/11/96	40320	53440	13120
3469	00034	04/11/96	42440	52680	10240
3475	00035	04/11/96	43680	50500	6820
3476	00036	04/11/96	44620	28660	-15960
3477	00037	04/11/96	43780	41680	-2100
3516	00038	04/12/96	46400	46080	-320
3517	00039	04/12/96	42380	48380	6000
3518	00040	04/12/96	46600	42040	-4560
3519	00041	04/12/96	41660	43040	1380
3512	00042	04/12/96	45340	60240	14900
3513	00043	04/12/96	44860	44140	-720
3514	00044	04/12/96	44480	34320	-10160
3515	00045	04/12/96	47400	45480	-1920
3486	00046	04/11/96	42100	52620	10520
3487	00047	04/11/96	45580	41400	-4180
3488	00048	04/11/96	43140	33740	-9400
3489	00049	04/11/96	32720	39720	7000
3598	00050	04/15/96	42840	45520	2680
3624	00051	04/15/96	42540	52840	10300
3625	00052	04/15/96	34320	33660	-660
3626	00053	04/15/96	43660	35520	-8140
3627	00054	04/15/96	43260	41600	-1660
3628	00055	04/15/96	41500	42560	1060
3629	00056	04/15/96	40900	42360	1460
3631	00057	04/15/96	42100	40440	-1660
3630	00058	04/15/96	39220	48440	9220
3632	00059	04/15/96	40320	50880	10560

totals 2168700 2212360 43660



MATERIALS TESTING LAB INC.

NEW YORK DIVISION

1529 JERICO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

FIELD DENSITY REPORT (NUCLEAR)

PROJECT GULNAM AIR FORCE FACILITY

DATE MAY 20 1996

CLIENT FOSTER WHEELER

TECHNICIAN Lloyd A Bucknok

TIME ARRIVE 9:00 AM

TIME DEPART _____

PERMIT # _____

JOB # _____

MATERIAL	LOCATION	DEPTH	W.D./D.D. LBS./CU FT		M%	W.D.	PROCTOR D.D. MAX D.D.		CO
SANDY	SITE # 2 BETHPAGE SG 200 AGERA	Elevation				111.6	106.2	110.5	
"	SB-A5	123.0	113.6	109.6	5.6	"	"	"	9
"	SB-A6	122.63	115.0	110.0	4.5	"	"	"	90
"	SB-A7	122.87	115.2	109.6	5.1	"	"	"	90
"	SB-53	122.35	114.9	108.8	5.6	"	"	"	98
"	SB-51	122.09	112.9	107.5	5.0	"	"	"	96
"	SB-58	125.58	117.6	110.2	6.9	"	"	"	99
"	SB-62	122.0	117.0	112.4	4.5	"	"	"	10
"	" "	121.0	113.3	107.8	5.1	"	"	"	97
"	" "	120.0	113.7	107.2	5.12	"	"	"	97
"									
"									
"									
"									
"									

REMARKS:

PROCTOR =
 WT OF MOLD EMPTY = 9.4
 WT OF MOLD & MATERIAL = 13.12
 (-) WT OF MOLD = 3.72
 (X) 30 = PROCTOR WT 111.6
 DRY DENSITY DERIVED FROM PROCTOR 106.2
 MAXIMUM DRY DENSITY 110.5
 DERIVED FROM FAMILY CHART # 2



MATERIALS TESTING LAB INC.

130-07 26th AVENUE
SUITE 100
FLUSHING, NEW YORK 11354

lg #2

(718) 445-1414
FAX: (718) 359-8611

DATE: MAY 7, 1996

SOIL COMPACTION TEST RESULTS:

CLIENT: FOSTER & WHEELER

PROJECT: ARMYMAN AIR FORCE FACILITY

LOCATION: SOIL #2 AREA SQ 200

DUGE SAND:
W.D. 111.3 W.D. 120.9 MIXTURE OF PURE S...
D.D. 1052 D.D. 111.6
MAX 110.5 max 113.5

TEST	DEPTH	EXACT LOCATION	PA FA
#1	ELEVATION 122.62	SB-27	9
#2	123-06	SB-52	9
#3	123-52	SB-57	9
#4	124.98	SB-58	9
#5	121.75	SB-53	9
#6	122.02	SB-27	10

TECHNICIAN: Noyd A Ruckmoe

TIME ON SITE: FROM 11:30 TO 3:30



MATERIALS TESTING LAB INC.

130-07 26th AVENUE
SUITE 100
FLUSHING, NEW YORK 11354

(718) 445-147
FAX: (718) 359-864

Pg #2

DATE: MAY 7, 1996

SOIL COMPACTION TEST RESULTS:

CLIENT: FOSTER WHEELER

PROJECT: GLUMANN AIR FORCE FACILITY

LOCATION: SITE # 2 BETHPAGE AREA SQ 70

TEST	DEPTH	EXACT LOCATION	PA FA
#1	ELEVATION 122.46	SB-52	9
#2	122.92	SB-57	96
#3	124.38	SB-58	10
#4	121.15	SB-53	92
#5	121.49	SB-51	98
#6	122.03	SB-46	100

TECHNICIAN: Lloyd A. Ruckmoe *11/04/96*

TIME ON SITE: FROM 9:30 TO 3:30



MATERIALS TESTING LAB INC.

NEW YORK DIVISION

1529 JERICHO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

FIELD DENSITY REPORT (NUCLEAR)

PROJECT GRUMAN AIR FORCE FACILITY DATE MAY 8, 1996
 CLIENT FOSTER WHEELER TECHNICIAN Lloyd A. Bucknor
 TIME ARRIVE 7:30 AM TIME DEPART _____
 PERMIT # _____ JOB # _____

MATERIAL	LOCATION	DEPTH ELEVATION	W.D./D.D. LBS./CU FT		M%	W.D.	PROCTOR D.D.	MAX D.D.	COM
SANDY SOIL				116.6	19.6%			121.0	
"	SB-47	120.42	132.4	116.6	13.6%			"	96
"	SB-45	128.0	129.9	115.0	13.0%			"	95
"	SB-58	122.78	131.8	115.6	14.0%			"	95
"	SB-52	120.86	131.0	116.4	12.6%			"	96
"	SB-46	120.43	132.0	117.1	12.7%			"	96
"	SB-59	121.7	130.6	115.5	13.1%			"	95
"	SB-51	119.89	130.5	115.6	12.4%			"	95
"	SB-53	119.55	131.3	116.7	12.5%			"	96

REMARKS:
MDE DERIVED FROM 5 POINT
PROCTOR

PROCTOR -
 WT OF MOLD EMPTY =
 WT OF MOLD & MATERIAL =
 (-) WT OF MOLD =
 (X) 30 = PROCTOR WT _____
 DRY DENSITY DERIVED FROM PROCTOR _____
 MAXIMUM DRY DENSITY _____
 DERIVED FROM FAMILY CHART # _____



MATERIALS TESTING LAB INC.

130-07 26th AVENUE
SUITE 100
FLUSHING, NEW YORK 11354

(718) 445-14
FAX: (718) 359-86

DATE: MAY 7, 1996

SOIL COMPACTION TEST RESULTS:

CLIENT: FOSTER WHEELER

PROJECT: GLUMAN AIR FORCE FACILITY

LOCATION: SITE #2 BOTH PAGE AREA S4 2

TEST	DEPTH	EXACT LOCATION	PA F
#1	ELEVATION 121.42	SB 49	9
#2	121.86	SB 52	9
#3	129.33	SB 57	9
#4	123.78	SB 58	9
#5	120.55	SB 53	9
#6		SB 51	9

SB-47

TECHNICIAN: Lloyd A. Bucknor

[Signature]

TIME ON SITE: FROM 7:30

TO 3:30



MATERIALS TESTING LAB INC.

NEW YORK DIVISION

1529 JERICHO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

FIELD DENSITY REPORT (NUCLEAR)

PROJECT GRUDMAN AIR FOLDC FACILITY

DATE MAY 31 1996

CLIENT FORTEL WHEELER

TECHNICIAN Lloyd A. Bucknax

TIME ARRIVE 7:00 AM

TIME DEPART 3:00 PM

PERMIT # _____

JOB # _____

MATERIAL	SITE # 2' BATH PAGE	LOCATION	DEPTH	W.D./D.D. LBS./CU FT		M%	PROCTOR			
				W.D.	D.D.		MAX D.D.	COM		
SAND	SB-42	200-AGRA	ELEVATION 119.73	114.5	108.6	5.4	111.0	105.2	109.5	99.2
SAND	SB-45	"	122.14	114.8	109.3	5.0	"	"	"	97.1
SAND	SB-53	"	123.0	112.9	107.6	4.9	"	"	"	97.1
SAND	SB-51	"	123.09	113.7	108.6	4.7	"	"	"	99.1
SAND	SB-62	"	124.0	113.1	107.1	5.6	"	"	"	97.8
SAND	SB-62	"	122.05	118.2	111.1	6.4	"	"	"	100.2
SAND	SB-54	"	124.71	129.0	120.8	6.8	131.7	122.9	126.3	97.6
SAND	"	"	124.71	134.6	125.6	7.2	"	"	126.3	99.0
SAND	"	"	123.71	125.7	120.3	4.5	"	"	"	97.2
SAND	"	"	123.71	133.3	125.1	6.5	"	"	"	99.0

PROCTOR =

WT OF MOLD EMPTY = 9.4 / 9.4

WT OF MOLD & MATERIAL = 13.79 / 13.1

(-) WT OF MOLD = 4.39 / 3.7

(X) 30 = PROCTOR WT 131.7 / 111.0

DRY DENSITY DERIVED FROM PROCTOR 122.9 / 105.2

MAXIMUM DRY DENSITY 126.3 / 109.5

DERIVED FROM FAMILY CHART # _____



MATERIALS TESTING LAB INC.

9500 -1- mi

NEW YORK DIVISION

1529 JERICHO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

FIELD DENSITY REPORT (NUCLEAR)

PROJECT _____
 CLIENT FOSTER WHEELER
 TIME ARRIVE _____
 PERMIT # _____

DATE MAY 9, 1996
 TECHNICIAN Lloyd A. Bucknor
 TIME DEPART _____
 JOB # _____

MATERIAL	LOCATION	DEPTH	W.D./D.D.			M%	PROCTOR			
			LBS./CU FT				W.D.	D.D.	MAX D.D.	COMP
SANDY SOIL									121.0	
	SB. 62	120.73	131.0	116.3	12.6					95.9
	"	119.73	129.8	116.1	11.8					96.0
	"	118.73	130.3	116.7	11.6					96.4
	SB. 54	122.74	131.0	116.1	12.8					96.0
	SB. 53	118.55	131.0	118.5	10.5					97.9
	SB. 48	121.14	131.7	116.6	13.0					97.4
	SB. 45	122.0	131.7	116.0	13.5					96.4
	SB. 57	121.33	131.4	116.8	12.5					96.5
	"	120.33	132.2	115.9	14.1					95.8

REMARKS:
 MDR 121.0

PROCTOR =
 WT OF MOLD EMPTY =
 WT OF MOLD & MATERIAL =
 (-) WT OF MOLD =
 (X) 30 = PROCTOR WT _____
 DRY DENSITY DERIVED FROM PROCTOR _____
 MAXIMUM DRY DENSITY _____
 DERIVED FROM FAMILY CHART # _____

C F Braun

Weekly Progress Meeting - Week 8

May 8, 1996

CTO 212 - Site 2 Remediation

NWIRP Bethpage, NY

List of Attendees:

Al Taoramina	Navy ROICC
Bob Ingram	Navy ROICC
Craig Farkos	C.F. Braun
William Dolhancay	Foster Wheeler
Chris Polios	Foster Wheeler

Meeting Minutes:

The following items were covered in the weekly meeting at the ROICC office:

- C. Farkos reviews items on the punch list itemizing Site 2 closure activities (See enclosed).
- B. Dolhancay notes that the Site 2 decontamination pad will be excavated and transported to the railyard along with the remaining pile of soil generated by scraping the Site 2 traffic areas.
- B. Dolhancay notes that the front-end loader will be decontaminated at Site 2 and the decontamination water will be containerized and stored with the Site 1 drums of decontamination water.
- B. Dolhancay notes that he is negotiating to add an additional backfill hauler to the Site 2 operations.

PUNCH LIST FOR PROJECT CLOSURE AT SITE 2 - CTO 212
Generated 5/8/96 by C. Farkos

1. Finish backfilling and compacting the excavated area within Site 2.
2. Place and compact all soils from Pile A and Pile C in the excavated area for Site 2.
3. Regrade the area immediately outside the Site 2 entrance and assure proper drainage.
4. Excavate Site 2 decontamination pad and remaining stockpile of PCB soil at Site 2 and transport material to the railyard for disposal in Utah.
5. Obtain certification for decontamination of all equipment used in the Site 2 operations.
6. Retain copies of all weight tickets for backfill delivered to Site 2.
7. Replace the fence and fence poles along the western property boundary, adjacent to the waste-water treatment plant. Replace all disturbed gravel in this area.
8. Monitor and review Hazardous Waste Shipping Manifest and Certificate of Disposal return dates and verify that all manifests are returned to the ROICC office within the 45 day limit. Notify Foster Wheeler and Laidlaw for any manifests exceeding a 35-day return limit. Notify the State of New York for any manifest exceeding a 45-day return limit.
9. Forward copy #3 of all manifests generated during decon pad disposal to the State of Utah. Forward copy #4 of all manifests generated to the State of New York.
10. Review and retain copies of all bell curves generated by the Utah disposal facility.
11. Receive a copy of release of liability from Foster Wheeler and Laidlaw for all equipment used at the railyard.
12. Receive a copy of certificates of clean soil for all types of backfill delivered to Site 2.
13. Receive a copy of geotechnical test results for the processed backfill used at Site 2.



Brown & Root Environmental

Foster Plaza VII
661 Andersen Drive
Pittsburgh, PA 15220-2005

A Division of Halliburton NUS Corporation

(412) 921-7090
FAX: (412) 921-4000

C-49-04-6-217
April 22, 1996
Project Number 5236

Mr. Steven Lehman (Code 4051/SL)
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop No. 82
Lester, PA 19113-2090

Reference: CLEAN Contract No. N62472-90-D-1298
Contract Task Order 0212

Subject: Northern Division, Naval Facilities Engineering Command
Naval Weapons Industrial Reserve Plant, Bethpage, New York
Verification Sampling Results

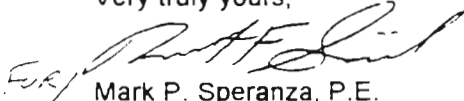
Dear Mr. Lehman:

The results of the first round of confirmatory sampling collected on April 12, 1996 indicates one samples (SA-A-13) is above the established total PCB action level of 10 ppm. The other ten samples are below the action level and it is recommended these areas be backfilled. Additional soil removal is recommended in the area of samples SA-A-13 and another confirmatory sample taken. The results of the analysis is as provided below:

<u>Sample Identification</u>	<u>Analytical Result (ppm)</u>
S2-A-01	1.00
S2-A-02	0.16
S2-A-03	6.50
S2-A-04	3.00
S2-A-05	1.10
S2-A-06	0.19
S2-A-07	8.50
S2-A-08	4.10
S2-A-29	5.50
S2-A-12	0.12
S2-A-13	20.00

The location of these samples and the additional confirmatory samples which are tentatively scheduled to be collected later today are provided on the attached figure. If you have any questions or require additional information at this time, please call me at 412-921-8916 or Robert Simcik at 412-921-8163.

Very truly yours,

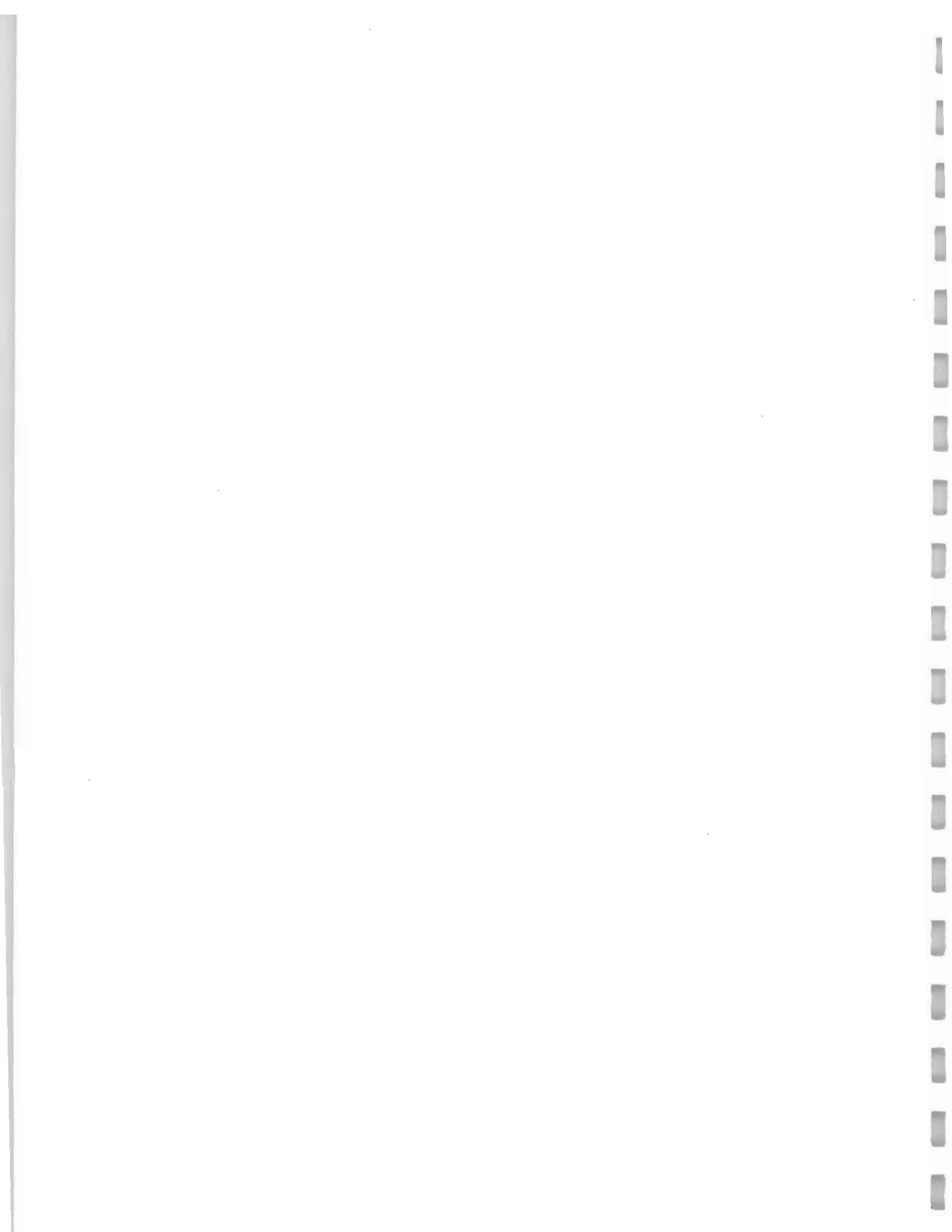

Mark P. Speranza, P.E.
Project Manager

MPS/dt
Enclosure



c: Mr. Roger Boucher, NORTHDIV (w/o enclosure)
Mr. Paul Briegel, NORTHDIV
Mr. Jim Colter, NORTHDIV
Mr. Al Taormina, Navy ROICC
Mr. Bob Ingram, Navy
Mr. Howard Lazarus, Foster Wheeler
Mr. Bill Dolhancay, Foster Wheeler
Mr. John Trepanowski, C.F. Braun
Mr. Robert Simcik, C.F. Braun
Mr. Daryl Hutson, C.F. Braun
Mr. Craig Farkos, C.F. Braun
File 5236

APPENDIX B
FIELD LOGBOOK



CTO 212 BETHPAGE

LOGBOOK I

JOB START:

5236 - 0330 - oversight
- overhead

5236 - 0142 sampling

838 needs

142 lodging

sited



Fed. Ex
Charge

0152-5168-1

147-200

10948015

5304N

Office: 1-800-245-2730
SPRANZA: 921-8916

Dave Brenman - Quantara Labs: (412) 826-3185
5977

5236-0330

Fed. Ex Govt: 168848862



Pre-remediation sampling - Day 1, 11-7-95

Tom Mullaney + Rob Simcic (TM + RS) arrive on base at 0700

TM + RS meet Foster Wheeler Field crew on base.
(FW)

Foster Wheeler field crew:

<u>Name</u>	<u>Position</u>
Lynn Niles (LN)	Field Operation Leader (FOL)
Cheryl Polios (CP)	Site Health + Safety Officer (SHSO)
Tom Fowler (TF)	Field Geologist
John Schaffer (JS)	Field Geologist

Around 0730, FW subcontractor surveyor arrives. He began setting up GPS references. Bob Isby

Around 0800, Grumman personnel arrived to perform a sonic survey of Site 1 to search for utilities.

0950 - R+L Well Drilling arrived with ^{TM 11-7-95} 4^{1/2} men + 2 support trucks + 2 support trucks
1 delivery truck with 30-55 gal steel drums. Bob Nord, Philip Zuckman, Norbert Hartman, Brian ~~Walisher~~ ^{TM 11-7-95} Walisher

Weather - overcast, low clouds. cold: 42°F at 0700
predicted high temp ^{TM 11-7-95} at 53°F.

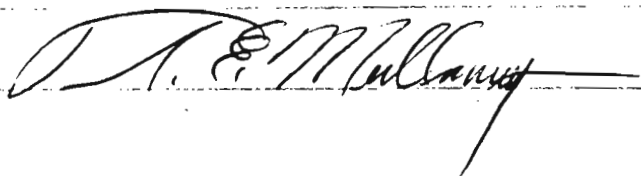
1100 - surveyors arrive Daniel Sheldon ^(OS), Ron Darrak (OD)

1115 - very light rain begins

1145 - rain is only random raindrops

1200 - Decision is made by LN to send drillers back until tomorrow. ~~They are~~ ^{TM 11-7-95} FW is missing some sampling supplies.

1200 - Break for lunch.



11-8-95

During the initial briefing of the surveyors, LN explained to DS + DD the FW sampling plan as laid out in the FW workplan.

LN proposed taking ~~borings~~ ^{TM 11-7-95} 3 or 4 borings in the rhomboid-shaped zone of Site 1 and she requested the concurrence of TM. TM explained that it was not his place to make this determination; it was the decision of LN. LN then proposed 4 borings, 1 boring at each corner + TM agreed that this made sense. LN also proposed 5 borings (1 at each corner + 1 located centrally) for the southern-most zone of Site 1. TM acceded to this proposal.

Between 1230 + 1300 it began to rain. A steady downpour was continuous.

The surveyors worked through the rain.

The surveyors were instructed by LN to remain within the fence at both sites. Instead of ~~the~~ ^{TM 11-8-95} finding + plotting the area as marked on the CF Braun figures, they are adjusting the area to the fence or building. They are allowing approximately 2' clearance on all sides for the drilling equipment.

By 1600 surveyors had staked out the corners of the southern-most area and the rhomboid-shaped area.

T. E. McLaughlin

11-8-95

Day 2 - 11-8-95

BC 1248

TM arrives on base at 0700.

0715 - FW crew arrives at Site 1 with surveyors & drillers.

People on-site: LN, CP, TF, JS, BN, PZ, NH, BW, DS, + DD.

0730 - Drillers begin decon-area setup. Decon area is ~6' inside inner Senceline ~20' ^{TM 11-8-95} North of northeast corner of building just west of ^{TM 11-8-95} 30' rhomboid-shaped area in Site 1. Decon area is approx. 20' x 12' with the longest dimension running N-S. This is the decon support area - decon activities may take place nearby.

0830 - LN makes decision to change sampling plan to sampling with a 3" split spoon instead of 2" split spoon. This is due to a refusal by the drillers to chemically decon their equipment. (Found out later this was because drillers didn't have 2" split spoons. - TM 11-8-95)

0920 - LN makes decision to omit the boring on the southwest corner of the large area in Site 1. This is because it lies outside the Senceline.

The surveyors say that the rhomboid-shaped area actually lies about 7' off the Senceline (inside). They did not have to adjust it. The southern-most area was shifted inside the Senceline, but the dimensions remain as marked on the CF Brain figures.

J. E. McLaughlin

0945 - Drilling begins. First boring to be done is the southwest corner of the rhomboid-shaped area of Site 1. 3 to 4 inches under the surface, drillers encounter a manhole cover. Al Taormina thinks this may be a leach pit.

1200 - Current problems with drilling:

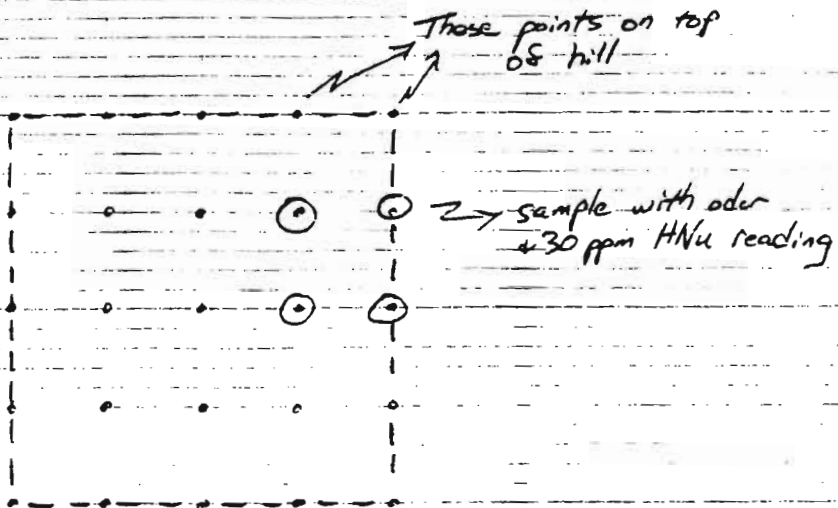
- Small square area appears to be located between two leach pits. It is unsure whether or not this will interfere with drilling.
- Southern-most area is littered with debris. Debris consists of engine + truck parts, steel I-beams, assorted metal pieces. FW previously requested the debris be removed prior to this field effort, but it wasn't done. The debris is large enough and prevalent enough to severely limit drilling in this area.
- Large square area extends to intersect a hill that is approximately 7' higher than the rest of the Site. 2 proposed borings are on top of the hill and 2 proposed borings are on the side of the hill. These borings are those in the northeast corner of the area.

1400 - CP informs LN that the first boring in the large square area of Site 1 has a distinct odor and she got a reading of 30ppm on the HNu. This was not noted on previous borings due to the inactivity of the HNu (a fuse had blown). However, previous borings did not have a discernable odor.

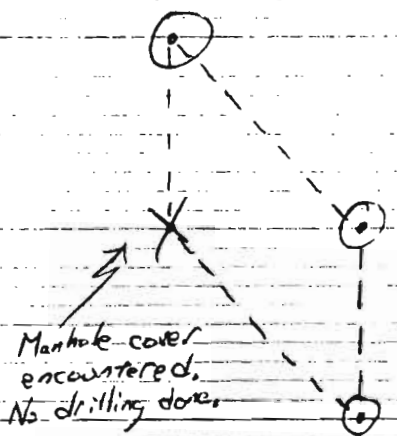
A. E. McLaughlin

11-8-95

Samples drilled on 11-8-95:



Large square area
Site 1



Rhomboid-shaped area
Site 1

Key:

- Area of concern
- Proposed boring
- ⊙ Sampling done
- X Sampling attempted

1500 - Bob Ingram + Al Taurina arrive on-site to answer some questions of LN concerning sampling logistics (see 1500, pg 7). During the walk-through of the site, Al opened a leach pit cover and CP took an HNu reading of 5 ppm. This reading was done in a pit with a large head space and with the contents undisturbed. Bob + Al will try to determine the dimensions of the leach pits.

At this time Al also expressed an interest in additional sampling around the autoclave located west of the Serce at the southern-most area of Site 1. Al stated that during a walk-through in May 1995 he had expressed this same interest and thought that B+RE had agreed to this. Present during the current conversation were Bob, Al, LN, + TM.

During a phone consultation with RS, TM explained this conversation. RS stated that he was present in May 1995 and was aware of Al's concern about the autoclave. He recommended determining Al's intentions with regards to sampling, but stated that this was outside our responsibility and was the responsibility of the RAC. TM relayed this information to LN, adding that how FW addresses Al's concern is between her and Howard Lacarus.

1600 - End drilling for the day. Totals for the day:
7 borings (numbers 2-8), 21 samples (no surface samples taken) not including QA/QC samples.

Today's weather: Partly cloudy, windy, no precipitation, temperature in the 40's

Continued on Page

A. E. McCarney

DATE

11-8-95

TIME

Day 3 - 11-9-95

1248

0700 - TM arrives on site with FW crew

People on site: LN, CF, TF, JS, BN, PZ, NH, BW, PS, + DP.

0800 - Begin drilling

0900 - Bob Ingram arrives on site with answers to some of the concerns of 11-8-95. In talking with some people from Grumman, Bob believes there are nearly 50 leach pits in Site 1. He is trying to get the site drawing showing these pits, but feels he may not have it until 11-14 or 11-15.

Bob gave LN permission to drill on top of the hill. They may have trouble getting the rigs up there.

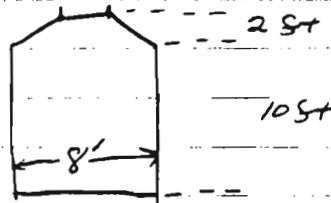
The debris in the south area should be removed today.

LN asked about removing equipment outside the fence that is blocking access to the southwest corner of the large square area. This is a change from their original plan to remain inside the fence line. This is closer to what we had intended.

D. E. Mulcahy

11-9-95

1000 - CP spoke with Bob Ingram + look at site drawings depicting the leach pits. She estimated 150 leach pits. The leach pits are constructed of concrete and have a diameter of 8 ft.



The leach pits are on a grid of 30'. I will try to obtain copies of these drawings. The 30' grid means 30' between centers of leach pits.

1130 - CP informs LN that another boring was found to have an odor. HNU readings were similar to those for previous borings with odors. This is part of the large square area of Site 1.

1200 - Upon further consultation with CP, my impression of the borings with odors was wrong. The borings from yesterday were on the interior of the grid. There was definitely one, possibly two (they are unsure). There have been two borings today with some sort of hit. Both are located along the southern border of the large square area and are consecutive points.

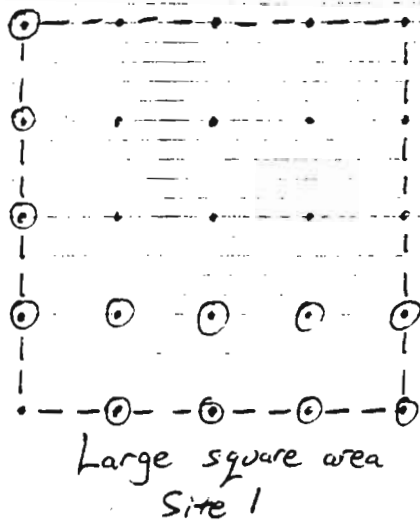
A. E. Mullaney

DATE CONTINUED TO PAGE

DATE
11-9-95

DATE

Samples drilled on 11-9-95:



Key:

- Area of concern
- Proposed boring
- ⊙ Sampling done

1330- LN informs me that she and CP spoke with Howard Lacarus. Howard instructed them to take 3 surface soil samples around the autoclave. He also instructed them to remove arsenic as one of the analytes for all future samples except those collected from the arsenic area of Site 1. The samples from the arsenic area and those samples collected before today, (those shipped yesterday) will be analyzed for arsenic and PCBs. According to LN, these instructions came to Howard from the Navy. The analysis of the surface samples around the autoclave is currently unknown. (LN isn't sure if these will be analyzed for arsenic.)

1600 Drilling ends for the day. Totals for the day: 12 borings (numbers 9-20), 36 samples (no surface samples) not including QA/QC samples.

Today's weather: Cold. Last night's temperature was in the 20's. The morning was cold + very windy. By 1300, it was mostly sunny with less wind. Temperature in the 40's.

T. C. McIlhenny

11-9-95

Day 4 - 11-10-95

CT0212
1248

17

0700 - TM arrives on site + meets FW crew.

People on site: LN, CP, TF, JS, BN, PZ, NH, + BW

0800 - Drilling begins.

1000-1130 - Sampled points on top of hill. 4 samples were taken at levels corresponding to those collected in the rest of the site. In other words, they drilled a certain depth before collecting their first sample for those borings. This sample would be approximately at the surface if it weren't for the difference in elevation. This depth appears to be an estimate arrived at arbitrarily - I don't believe the surveyors gave them a number to work from.

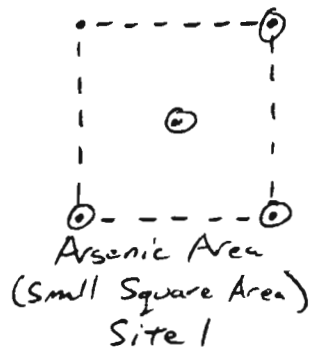
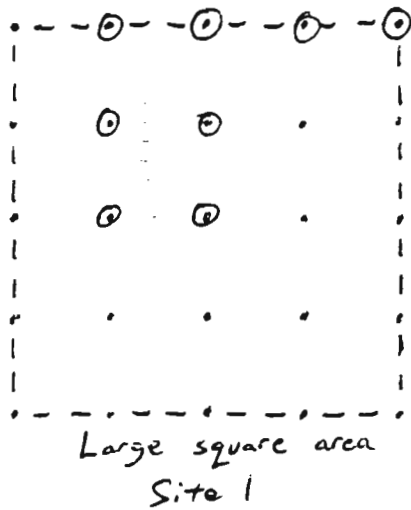
The soil here appears to be no different from the soil collected elsewhere in Site 1. The soil is sandy with varying amounts of gravel. It is a moist brown in appearance.

1230 - Auger refusal occurred at the two sample points in the northwest corner of the large square area. The first of the two occurred between 8 + 10 feet. Two samples were collected from this boring. The other occurred at 4'. One sample was collected from this boring. The first boring is the center point of the north border. The second boring is the point along the border that is due west.

D. E. Mullaney

11-10-95

Samples drilled on 11-10-95:



Key:

- Proposed boring
- ⊙ Sampling done
- Area of concern

1400 - Begin drilling 9th boring of the day. This is the boring that was attempted on 11-8-95. This boring, as well as several others thus far, needed to be moved by several feet in order to avoid leach pits. The surveyors are supposed to return next week to plot "as built" figures, so these modifications to the workplan may be noted.

Samples collected thus far: 26 (including 3 for today's 9th boring, but not including surface samples except for the two pseudo-surface samples previously noted - See 1000-1130, 11-10-95.)

Today's weather: Milder than yesterday. Morning temperature around low 40's, slight wind. Afternoon temperature around 50°F, gusty wind. Clear & sunny, some clouds.

1430 - TM departs Sor airport.

Totals Sor the day: 12 borings (numbers 21-32), 35 samples (not including surface samples, except as noted above) not including QA/QC samples.
- TM 11-13-95

J. E. Mulhany

11-10-95

Day 5 - 11-13-95

CT0212

1248

0730 - TM arrives on site & meets FW crew.

People on site: LN, CP, TF, JS, BN, PZ, NH, + BW

Surveyors DS + DD expected on site after lunch.

0800 - Begin drilling.

Conversations between TM + LN have determined the following:

- They expect to get unofficial results from the lab within 72 hours of sample receipt. This will allow them to expand the sampling effort as needed. It is currently unclear what will be done about the last two days' samples, since results will not be available until after de-mobilization.
- Full TCL + TAL analysis are being performed on 1 in 5 samples (20%) as opposed to the recommended 10%. This is what FW said would be done in their Response to Comments.
- Surface samples have not been collected thus far due to a lack of available personnel. Originally, the drillers were ready to begin drilling on 11-8-95, and because of the drillers' refusal to perform chemical decon of their equipment, one of the two FW field geologists (JS) was relegated to decon. Because of this

A. E. McLaughlin

11-13-95

drilling began without surface sampling. When surface sampling occurs, it will be several (2-4) feet away from the boring to avoid the remaining drill cuttings.

- At the end of each day, the drillers fill each bore hole with caulking. This is a gray, cement-like fill that hardens overnight. This is just grout - no bentonite is being used.

1030 - JS has cleared a sufficient number of split spoons to allow him time to begin surface sampling. Sampling will be done ^{on 11-13-95} with the same QA/QC requirements (TAL/TCL 1 in 5, MS/MSD 1 in 20). Field duplicates are being sent as well.

1130 - Drilling at Site 1 complete with the exception of the southwest corner of the large square area. FW is waiting for Grumman to clear the area of carts + debris that is blocking access to the boring site.

1215 - Surveyors from CT Male arrive at Site 1. The surveyors are DS & DD.

1330 - TM arrives at Site 2. Drilling begins.

Site 2 has several piles of soil + gravel in it. The piles range in height from 4' to 8' and range in area from approximately 200 ft^2 to 500 ft^2 .

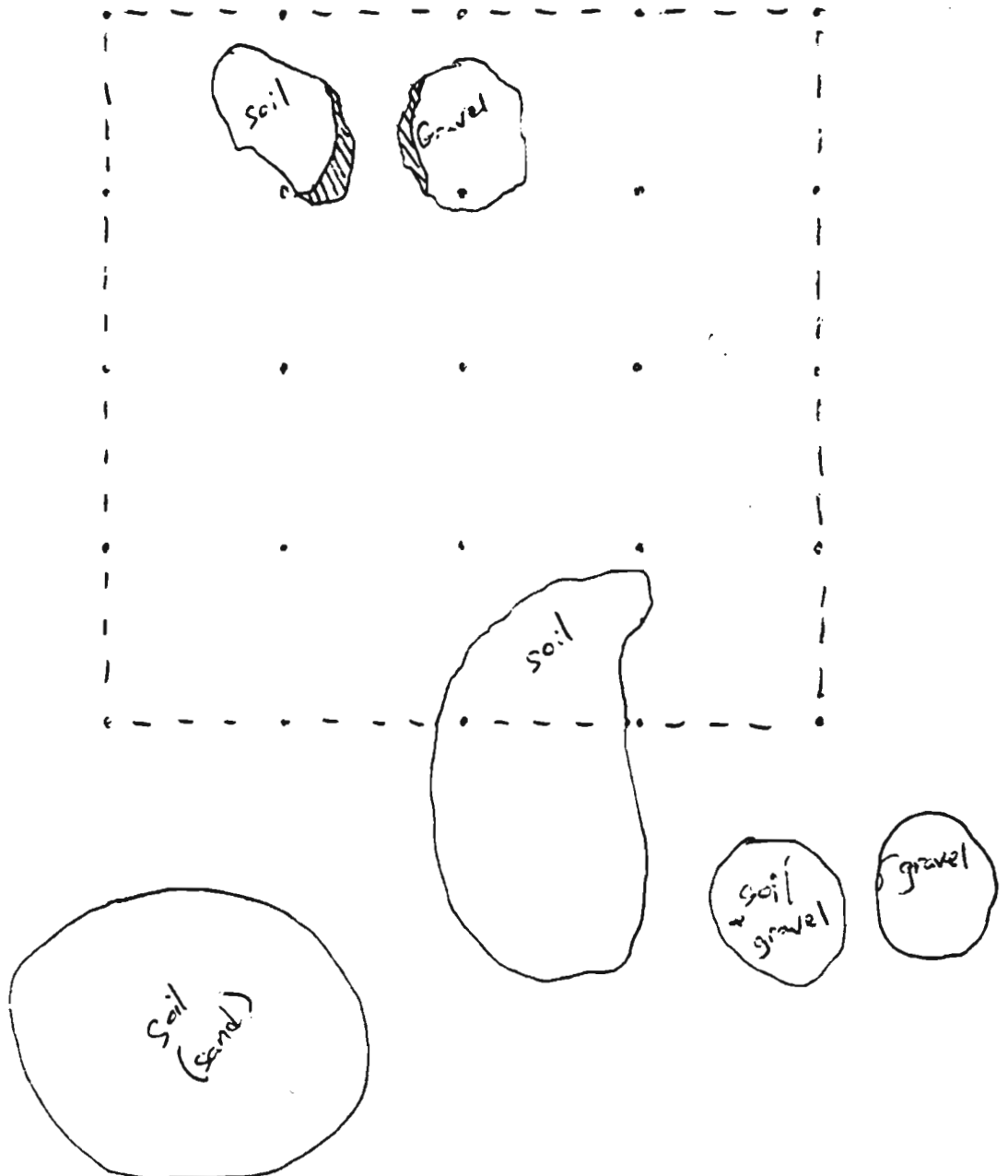
D. E. Mulvaney

11-13-95

Site 2

Key:

- Proposed boring
- Area of concern
- Obstacles
- ▨ Area that was moved



There are three mounds - 2 soil, 1 gravel.
 The gravel is a fine ($\frac{1}{4}$ " x $\frac{1}{4}$ ") gray colored (like cinder) stone. It is the smallest height-wise. It is located $\sim 10'$ south of the center of the northern border of the site. (or area)

On of the soil mounds is a mix of sand + large round gravel. It is $\sim 25'$ west of the gravel mound. The south side of the mound has been removed by a bucket-loader of some kind. The mound has been here long enough to become overgrown with weeds. The south side has been removed recently.

The second mound is a combination of three mounds that have run together and in turn run together with a large ($720'$ tall) mound south of the area. This mound is sand, mud, + large round gravel. It appears very fresh in one section. It is located to the east on the southern border of the area (See figure, pg 24).

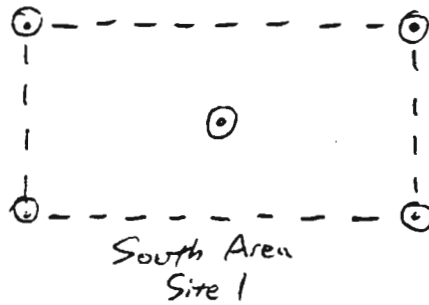
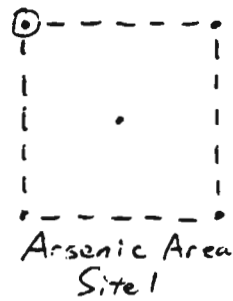
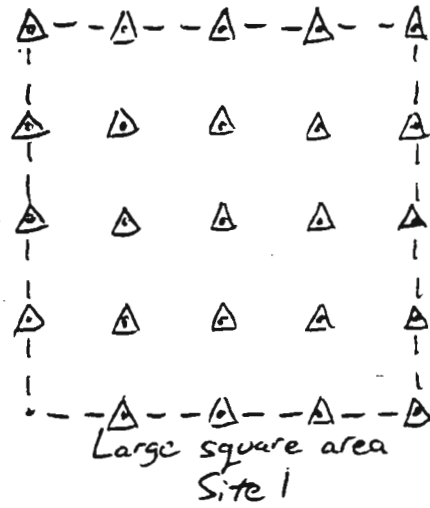
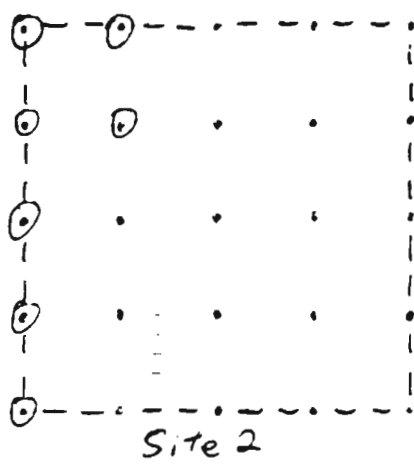
1445 - Grumman employee arrives with bucket loader and moves east side of soil mound (north mound) to allow the drilling rig access. This resulted in some of the gravel mound being mixed in (see figure, pg 24).

1700 - Drilling ends for the day.

T. E. Mullaugh

11-13-95

Samples drilled on 11-13-95:



Key:

- Proposed boring
- ⊙ Sampling done
- △ Surface sampling done
- Area of concern

Totals for the day: 13 borings, 39 samples (no surface samples) not including QA/QC samples. 24 surface samples, not including QA/QC samples.

Today's weather: Cold, Low 30's in the morning, high 30's in the afternoon. Hazy + overcast, dismal clouds all day. Very light flurries occasionally.

T. E. McLaughlin

11-13-95

Day 6 - 11-14-95

CTO 212

1248

2)

0700 - TM arrives on site + meets FW crew.

People on site: LN, CP, TF, JS, BN, PE, NH, ^{TM 11/14/95} BW, DS, + DD.

0730 - Because it has been raining since 0600 and is beginning to rain harder, LN decides to forego drilling for the day. The drillers will leave to get a back-hoe from another site and bring it here to move drums. The surveyors can still work. TF can take surface samples, while JS decors all remaining split spoons.

~~0800~~ = TM 11/14/95

0745 - Drillers leave site. (BN, PE, NH, + BW)

0800 - Rain stops.

0900 - Spoke with Al Ta'amin. He is unsure as to whether or not the leach pits have open bottoms. He guesses that they might.

1000 - Spoke with the surveyors. Last week sometime, they used a measuring tape and a metal detector to locate some manhole covers for the leach pits. They uncovered ~10 in ~~addition~~ ^{TM 11/14/95} addition to the ~5 that were already visible. They have been asked by LN + CP to survey the locations of the leach pits.

T. E. Mullaney

11-14-95

1230 - Rain begins. Steady downpour.

1330 - Surface sampling finished for today. ~6 samples left to be collected. These are the 1 in 5 that get TCL/TAL, because they ran out of VOA vials.

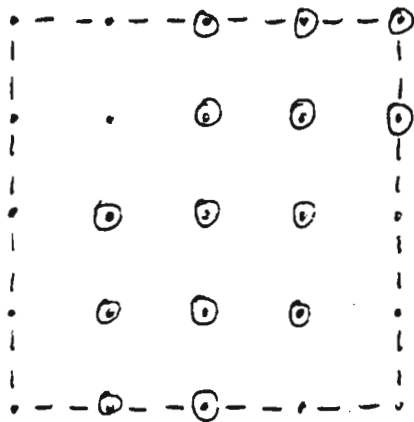
Totals for the day: 36 surface soils (this is probably including QA/QC samples, as the number was obtained by counting samples on the COC.)

Today's weather: Rainy + windy. The region was being hit by the season's first nor'easter. Temperatures started in the low 40's but dropped into the 30's around midmorning. Winds were up to 50 mph according to local weather reports.

J. E. Mulcahy

11-14-95

Samples drilled on 11-15-95:



Site 2



Key:

- Proposed boring
- ⊙ Sampling done
- Area of concern

Day 7 - 11-15-95

CT0212
1248

33

0700 - TM arrives on site + meets FW crew.

People on site: LN, CP, TF, JS, BN, PZ, NH, BW, DS, + DD.

0800 - Drilling begins - Site 2. At site: TM, CP, TF, BN, PZ, NH, + BW.
LN, JS, DS, + DD remain at Site 1.

The lab apparently can no longer meet the 72 hour turnaround and has extended their time to 7 day turn. This means that LN will not have the opportunity to expand the search for contaminants if there are hits on the edges or borders of the areas of concern. However, it appears the drillers do not have the extra time that would be necessary for this.

Also, FW's project management will discuss with the Navy a scope change to include sampling the leach pits. The surveyors have located 9 pits in the large square area of Site 1. There are pits intersecting or near to the other areas as well. FW will arrange things with the drillers, but they may not be able to return until after Thanksgiving.

1630 - Drilling ends for the day. Totals for the day:
14 borings done, 42 samples (no surface samples)
not including QA/QC samples.

Today's weather: Blustery. Some scattered rain. Windy with overcast skies breaking up to allow some sun. Morning temperature around 40°F, colder as the day progressed.

J. E. Mulvaney

11-15-95

Day 8 - 11-16-95

CTO 212
1248

3

0700 - TM arrives on site + meets FW crew.

People on site: LN, CP, TF, JS, BN, PZ, NH, BW, DS, + DD.

0800 - Drilling begins, continuing at Site 2. LN + JS remain at Site 1.

1040 - Drilling at Site 2 complete. Return to site 1 for final boring.

1200 - Drilling at Site 1 complete.

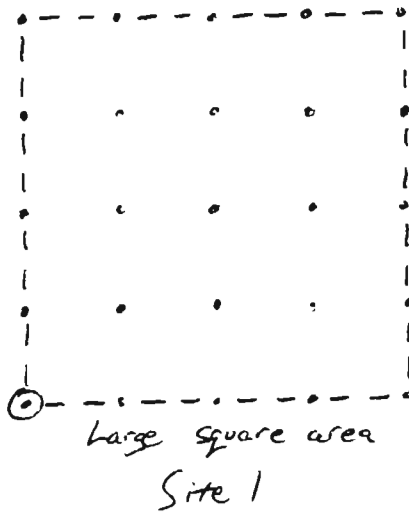
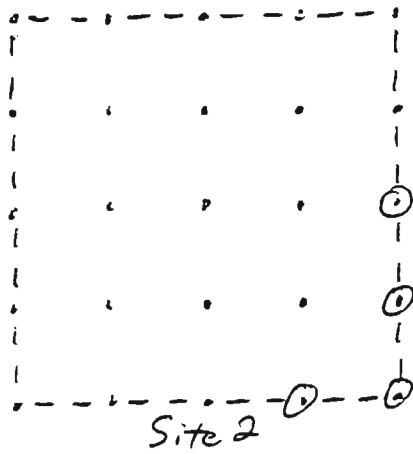
1300 - Drillers begin marshalling drums containing drill cuttings. Drums are being placed on pallets on the cinder drum marshalling area.

1315 - TF + JS begin taking remaining surface samples. These are the last 6 samples getting TCL/TAL analysis and three samples from around the old autoclave. These samples (around the autoclave) are actually just scrapings of the soil that accumulated on the concrete pad on which the autoclave rests. Each of the three was collected under the autoclave. The first two samples were at the west end and center of the autoclave, respectively, and were collected from the south side as far under as JS could reach comfortably. The third sample was collected at the east end of the autoclave, and was collected by taping the sampling spoon to a branch and reaching under the autoclave. This way the sample was taken from soil directly under a drip from the autoclave. These will be analyzed for PCBs.

J. E. Mullaney

11-16-95

Samples drilled on ^{TN 11-16-95} 11-16-95:



Key:

- Proposed boring
- ⊙ Sampling done
- Area of concern

37

Totals for the day: 5 borings, 15 samples (no surface samples) not including QA/QC samples. 9 surface samples not including QA/QC samples.

Today's weather: Clear + cold. Partly cloudy in the afternoon. Gusty winds. Temperature around 32°F in the morning, mid 40's in the afternoon.

D. E. McLaughlin

11-16-95

Day 9 - 11-17-95

CTO 212
1248

39

0800 - TM arrives + meets FW crew.

People on site: LN + CP

0915 - Drillers arrive on site to finish de-mobilization.

People on site: LN, CP, BN, PZ, NH, + BW

Today's activities are general de-mobe and sample shipment.

Today's weather: Clear + cold. Morning temperature ~ 32°F.

H. E. McLaughlin

11-17-95

Pre-excitation sampling - 2nd trip

Day 1 - 12-4-95

CT0212

1248

4

0700 - Tom Mullaney (TM) arrives on base.

0720 - Foster Wheeler (FW) field crew arrives at Site 1.

Foster Wheeler field crew:

<u>Name</u>	<u>Position</u>
Lynn Niles (LN)	Field Operations Leader
Cheryl Polios (CP)	Site Health + Safety Officer
Tom Fowler (TF)	Field Geologist
George Dangerfield (GD)	Field Geologist

According to LN, this trip has three goals:

- 1) To classify/characterize the leach pits. This will be accomplished by sampling two pits from each of the three areas of concern that intersect or contain leach pits. Two samples will be collected from each pit, 1 at 4'-6' and 1 at 10'-12' depth. This is a total of 6 pits and 12 samples, not including QA/QC samples.
- 2) To determine depth of contamination. Originally, samples were collected to a depth of 12'. 6 borings had contamination exceeding 10 ppm. Thus, 6 additional borings will be drilled, one for each deep contamination. These will be placed right next to each original boring and a sample will be collected at 14'-16' depth. One of these is in the arsenic area.

T. E. Mullaney

12-4-95

- 3) To determine extent of contamination at the rhomboid-shaped area of concern at Site 1. 4 ~~so~~ borings were drilled here originally. Some of these samples had positive hits. Thus, 4 new borings will be drilled, one at each corner, removed several feet. In other words, one boring at each corner of the area is the area were sized upward. 5 samples will be collected at each boring: surface, 2'-4', 6'-8', 10'-12', and 14'-16' depths.

This results in a total of 16 borings and 38 samples, not including QA/QC samples. As part of the sampling at the rhomboid-shaped area, the wooden inner fence will be torn down to allow the drilling rig access to the proposed boring locations.

The three areas of concern where leach pits are a concern are the large square area, the rhomboid-shaped area, and the arsenic area.

0930 - Drillers arrive on site. Drilling company is R+L Well Drilling again. They have 1 drilling rig + 1 support truck (steam cleaning, grouting).

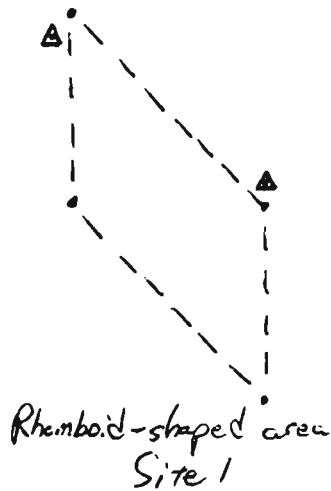
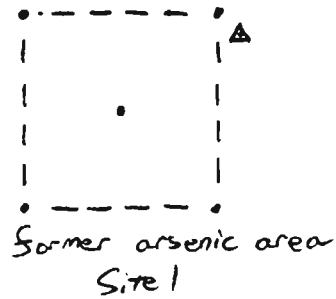
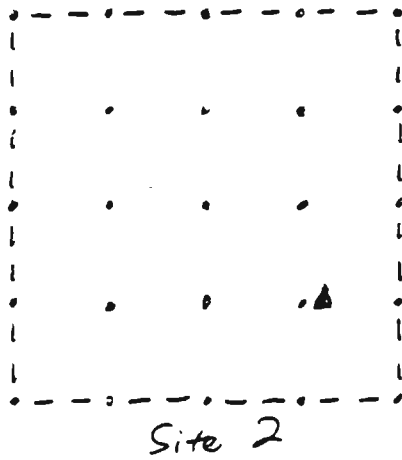
Drillers: Bob Nowd (BN), Norbert Hartman (NH).

1100 - 55 gallon drums are delivered by R+L Well Drilling. 1 truck with 1 man delivered 12 drums.

A. E. Mulvaney

12-4-95

Samples drilled on 12-4-95:



Key:

- Area of concern
- Previous boring (as proposed, ~~was~~ as built)
- △ Deep boring, single sample

1530 - Drillers finish 4th boring for the day. End drilling for day. Totals for the day: 4 borings, 4 samples (not including QA/QC samples).

LN informs me that there were no positive hits of arsenic in the arsenic area of Site 1. However, they got high hits of PCBs in this area.

Today's weather: Partly cloudy + clear. Morning temperature around 48°F. Slightly warmer in the afternoon but also slightly windier.

P. E. Maloney

12-4-95

Day 2 - 12-5-95

CT0212
1248

47

0730 - TM arrives on site & meets FW crew.

People on site: LN, CP, TF, GD, BN, + NH.

0800 - Drilling begins.

0920 - Deep boring, single sample drilling is complete. Leach pit borings begin.

1130 - CP + TF inform me that a 10'-12' depth split spoon sample showed three distinct layers. The top 6"-8" was described as a red sand, fine grain, fill sand. Below that was nearly 12" of black, clayey, sludge-like material. The final layer was a more natural appearing sand. This sand was coarser with some gravel and was closer to the color of beach sand.

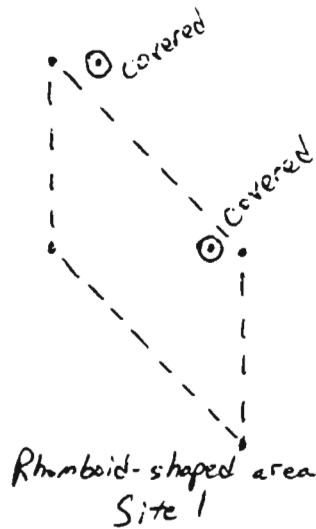
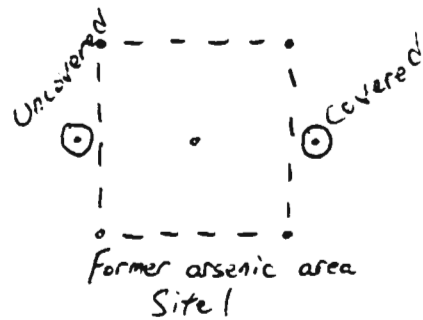
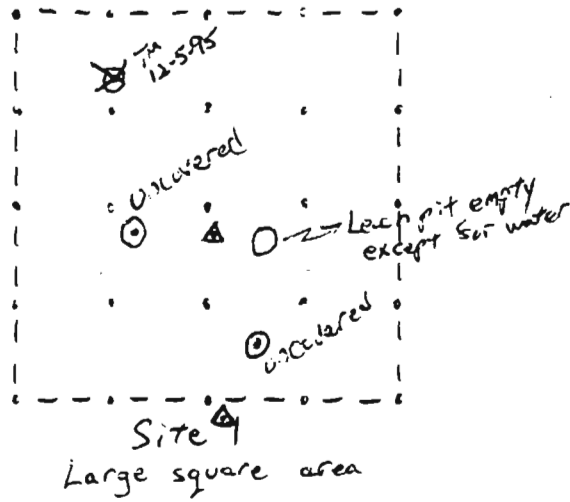
Some of the leach pits appear to have been abandoned. There were no manhole covers on these and they appear to have been filled. Besides the ring that would have supported a manhole cover, there is no visible sign of the leach pit. These occur on the 30' grid laid out in the site diagrams in the ROICC office. This is in conjunction with those leach pits with covers.

Of those leach pits with covers (and of those we actually opened) most seem to still have product contained within. There is approximately 1'-2' headspace directly under the manhole cover. The contents appears to be sandy material that is mounded inside the pit, with the peak occurring directly under the manhole cover. One of the pits we opened was empty to ~10'-12', at which point there was free standing water (I assume it was water).

A. E. Mallory

12-5-95

Samples drilled on 12-5-95:



Key:

--- area of concern

- Previous boring (as proposed, not as built)
- △ Deep boring, single sample
- ⊙ Leach pit boring

49

It should be noted, this leach pit had holes in the manhole covers. It is probable that this is rainwater.

1530 - Drilling ends for the day. Leach pit sampling finished.

Of the six leach pits sampled, only ⁱⁿ the first one sampled was the black, clayey sludge not encountered. Three of the pits did not have covers and were filled. Only in the second leach pit sampled was the entire layer of sludge sampled. The other four only had two layers: the top layer was sandy, the bottom layer was a black, clayey sludge. The sludge had an odor - sometimes it was a petroleum odor, sometimes it was a sewage odor.

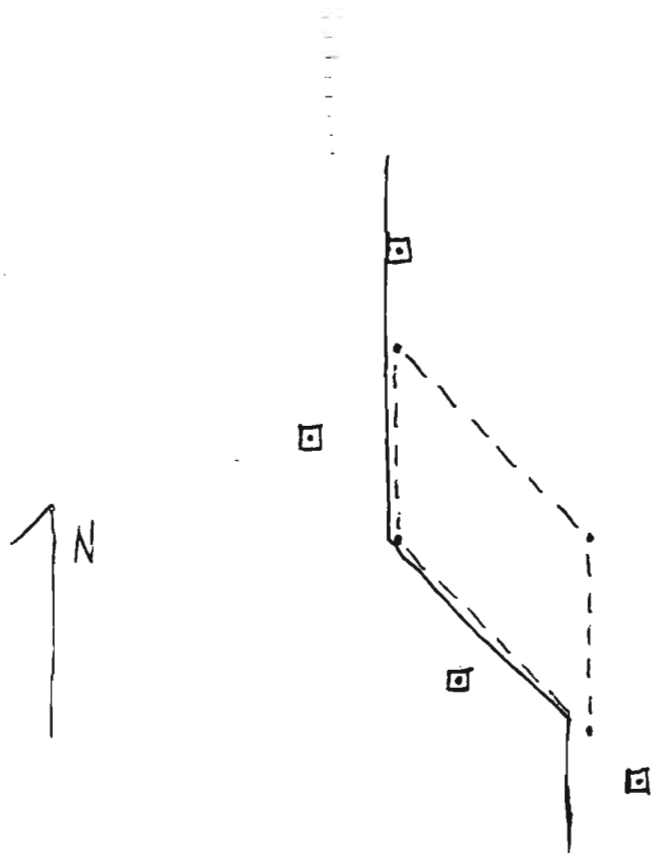
Totals for the day: 8 borings (2 deep borings, single sample; 6 leach pits), 14 samples (not including QA/QC samples).

Today's weather: Partly cloudy + cool. Morning temperature around 33°F. Afternoon temperature in the low 40's. Light wind.

A. E. Mallam

12-5-95

Samples drilled on 12-6-95:



Key:

--- area of concern

• Previous boring (as proposed, not as built)

□ Deep boring, site samples

— Fence

Day 3 - 12-6-95

CT0212

1248

0730 - TM arrives on site & meets FW crew.

People on site: LN, CP, TF, GD, BN, + NH.

0730 - Drilling begins.

1225 - Drilling ends.

Totals for the day: 4 borings, 20 samples (including surface samples, not including QA/QC samples), 1 attempt that yielded no split spoon sample (was sampled again to yield a representative sample).

Today's weather: Clear & mild in morning, overcast by noon. Morning temperature ~ 43°F. Noon temperature in the 30's.

Tuesday March 19, 1996

Site 2 RA oversight

Michael Snyder - Brown? Root Environmental (CF-Brown) BIRE

09:00 Arrive @ Site - weather Cloudy ~ 40°F
Get Pass/Clearance @ Security

10:00 Mt. @ Bill Dolhancy (BD) Foster-Wheeler Site Supervisor
Discuss site status
FW - still mobilizing for excavation activities @ site 2
also conducting extent of contamination investigation @ site 2

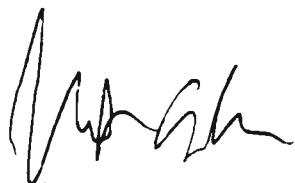
11:00 Mt. @ Bob Ingram RETCC Navy
Bill & Bob discuss mob activities
- Will meet @ Bob Ingram & Al Taorhilo RETCC tomorrow
after Craig Farkus BIRE arrives

Accompany Bill D. to Navy warehouse - Receive site supplies
from Pittsburgh

Receive Site Specific H&S training from FW H&S - Cheryl Polios

Cheryl provides copy of letter to NY DEP(?) officials modifying
requirements for community protection H&S air monitoring.

12:13. Telecon @ Mark Speranza BIRE Project manager
update activities
M. Speranza says our oversight responsibilities are only
for Site 2 RA, NOT investigation @ site 1



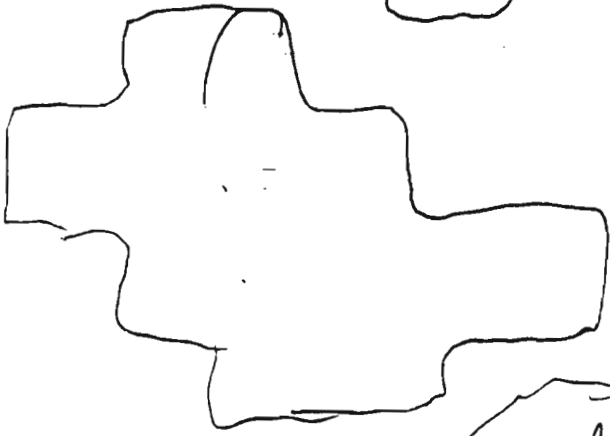
3-19-96



Planned exc areas



small soil
stockpile present



STAGED SOILS

- Receive planed excavation dug from B.N.D.
Review FW pre-excavation sample analyses report
& compare results @ dug.

13:15 visit site 2

Major equipment on-site

Loader Case 621 B Hertz Rental id# 261-25-4057
Excavator JD 690 ELC Hertz Rental id# 246-10-4051

FW stripping "clean" soils @ NW corner of site 2

2 operators - 2 laborers present

Laborers covering soil stockpile N of site @ poly, setting up
orange snow fence around site ^{around 5854 location} see map

14:30 - steady rain

Exc/operation continues stripping clean soils @ NW corner

loader/op consolidation soils staged on poly @ SE corner of site

15:30 - Laborers quit for day

- Mt. @ B.N.D. discuss site ops.

1545 - LV site

W. J. M. 3/19/96

Wednesday March 20 1996

07:00 - Mon - Site

Cloudy = 45°F

Attend FW Am H:5 mtg.

Plans for today @ site 2 -

- set up exclusion zone
- set grade stakes
- continue "stripping" & staying clean soils

08:00 Exc/Op continues stripping clean soils @ NW corner of site = 2 ft.
 Loader/operator 2 laborers installing hay bales for erosion control
 @ soil stockpile SE corner of site

08:40 Bob Ingrom / Al Taormina on site
 Questioning Bill O about general site ops.

Bob: Al will meet @ myself & Craig @ 10:30 today

Craig Fankus B:RE on-site FW providing
 site specific H:5 outlining.

10:30 mtg. Craig Fankus B:RE
 M. Snyder
 Bob Ingrom - Nay REICL
 Al Taormina

Bob/Al will ask Bill O. to modify daily reports to
 include room for our comments.

Bob/Al remark that they are looking to us to provide
 all environmental guidance. check manifests - etc. ^{B:RE}

Briefly discuss our general SOW -

- will meet @ FW PM H. Lazarus tomorrow to discuss site ops

WJ G/M 3/20/96

Bob & Al ask why FW is not bldg decar pad @ site 2 for trucks & equip.

- I remark it is in design & appears to be in FW's wk plan but when questioned Bill D. said that H. Lazars told him it was not needed.

- Bob & Al will pursue @ Bill D. & H. Lazars

- Craig F suggests BIRE pursue faster turnaround time for verification sampling

Bob & Al agree it may be a good idea, eliminate downtime, Craig will pursue
11:30 visit site 2

2 laborers constructing personnel decar pad

Excavator/operator - idle NO activity

Loader/operator - idle

11:40 Craig F. Telecon @ M. Spence - Update Activities

13:00 Call M. Turco BIRE - Update activities

13:15. Bob Ingra @ site - meet @ Bill D.

Bob suggests mtg. tomorrow @ 13:30 to discuss all site activities, plan of action @

Laidlaw Representative

H. Lazars, Bill D - FW

& Craig & myself.

Bill D. will coordinate @ Laidlaw & H. Lazars

Craig, myself & Bill discuss PCB trans & shipping

Bill explains general procedure

- Question Bill about Equip. decar pad -

Bill will question H. Lazars @

- Bill agrees that it would be helpful to him if we can get a faster turnaround time for verification sampling

Briefly discuss potential equipment decar pad set-ups

MA 3/20/98

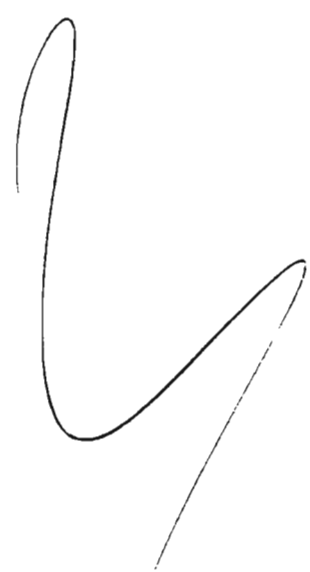
14:45 MS/CF over site 2
 exc/operator continues stripping 'clean' soils @ NW corner
 ~ 2 ft depth
 laborers re covering ~~soil~~ soil stockpile N of site @ poly

15:15 Mr. @ B.K.D. Briefly discuss site ops.

B.K. says that excavator may have overexcavated at northern most area & excavated some "dirty" soils, that is why he is keeping those stockpiles separate & cover with poly. will sample & analyse to be sure
 - Establish new "clean" stockpiles

15:45 to site

- Review FW's wk plan, spec's etc in preparation for tomorrow's mtg.



MR IN 3/20/96

Thursday March 21 1996

07:00 MS/CF on site P Cloudy $\approx 42^{\circ}$

Attend FW A.M. H&S mtg.

Go thru plans/specs/etc. @ Craig R.

Mr. @ H. Lazarus RW proj. mgr.

Provide H haz. @ extra copy of BIRE final design report @ SPECS

09:00 Craig R visits site 2, to obtain pre-RA ~~conditions~~ ^{conditions}

Discuss site ops @ H Lazarus

08:20 visit site 2

Exc/Op relocating brush pile NW of site
other operator, 2 laborers standing at site access talking
no work

Mr. @ B.M.D. - B.M. is aware that they aren't working, Loader is out of gas, Union Rep was on site to mt @ workers

Discuss plan of action for today

- Laborers will work on erosion controls, placing hay bales where needed

- Infor Bill of storm drain near access road - we will have the laborers install bales around it, also will place bales around potential "dirty" stockpiles,

Mark A. L. 3/21/98

09:50 @ Site 2.

Bill D. : operator shooting excavation grades @ NW section
exc/operator leveling area for "clean" stockpile
labors laying out poly for "clean" stockpile

09:40 - Fuel truck on site

Loader/operator begins moving soils to new "clean" stockpile
NE section of site
exc/op continues stripping "clean" soils
Labors installing erosion control hogbodies - at
stone sewer inlet : around "dirty" stockpiles

- Provide Craig F. a copy of 40CFR 761 - PCBregs &
49CFR DDT Regs - curing reviews

- ~~Exc/op.~~ Loader/op removing additional 2 ft of soil
at NW portion of site according to grade shot by Bill D.
This is still "clean" material.

- 11:45 goto FW trailer - FAX copy of planned excavation report
M. Spence

Transfer Custody of Logbook to C. Farkus
Mike S 3/21/96

13:30 Arrive @ ROICC office for meeting:

B Ingram - NAVY
C Farkus - BIR
M Snyder - BIR

H Lazarus - FW - P.M.
B Doherty - FW - Site manager
Dave Arditto - Gridlow phase camp

CA Farkus

3/21/96

Meeting discussion:

1. H Lazarus load trucks ^{on} & remove soil so no dump trucks.
 H Lazarus agrees to construct dump pad at site. Notes that any spillage @ Lairdlaw train yard is Lairdlaw's responsibility. F.W. will periodically review dumping practices @ train yard to assure no soil waste spillage @ yard.
2. D Ardito fax copy of NY state manifest w/ step by step instructions for handling manifest. Copies received
 P Embrescia (516) 293-7484 is @ train loading AOA as Lairdlaw supervisor. Truck is cleaned prior to leaving trucking AOA. This is 1st time that Lairdlaw has shipped via train from Long Island.
3. B. Dolhaway notes excavation rate: total 2000 cy soil 23 yds/truck
 4 trucks / car (RR) @ 5 RR cars / day
4. B Ingram notes weekly meeting 10:30 on Thursdays.
5. 2000 cy soil calculated based on drawing prepared by Foster Wheeler (copy retained)
 Plan is to start on Monday for excavation. Dump pad may delay construction till Tuesday.

Meeting adjourned 15:00.

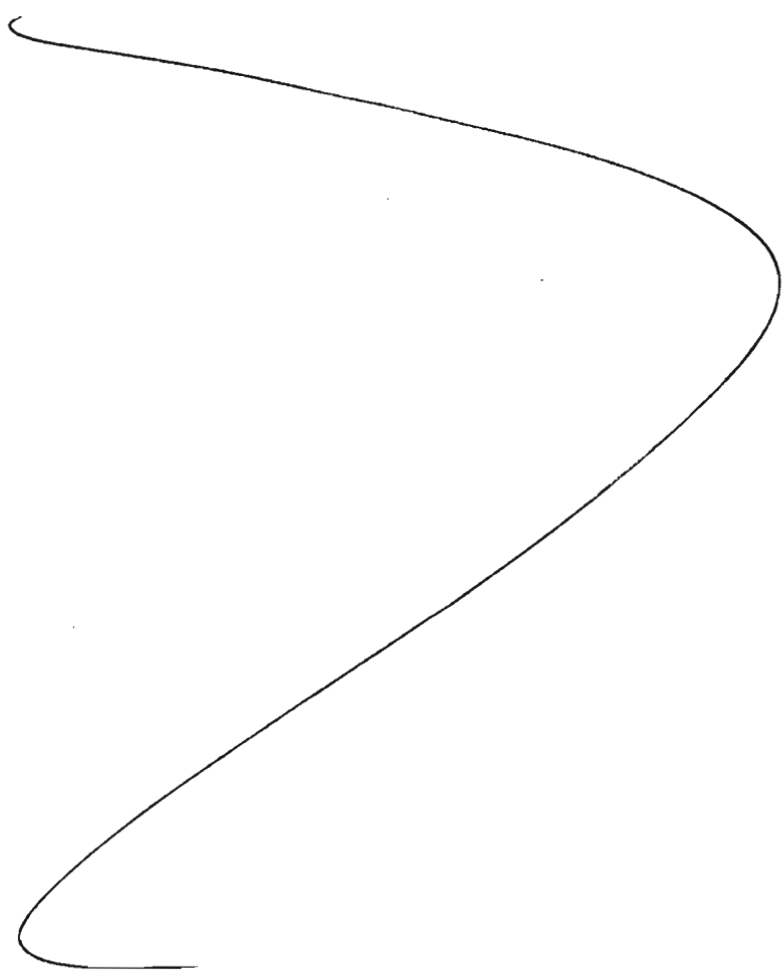
[Signature]

3/21/96

C Farnos agrees w B Ingram to prepare minutes report for Thursday meeting + submit copy to ROICE.

15:40

C Farnos M Snyder offsite for evening



CA Farnos

3/21/96

sunny, 38°F

0700 CF + MS in @ site ^{cf} for morning meety.

B Dolhany notes that decar pad to be constructed today. Materials will arrive at site for construction.

0800 CF goes to site to review excavation. Currently scraping off surface soil in AREA near waste water treatment plant. Areas being surveyed to assure proper grade. Stakepiled 1 pile in NW corner, 1 pile in SE corner.

0815 B Ingram arrives @ site to inform that he + Al will be unable to visit dump site today with us.
B Ingram then leaves site

0830 CF + MS leave site to visit drain landing area in Farmingdale.

Directions from site: cf

1. Out main gate gate
2. R onto Stewart Ave - continue to Hempstead
3. L onto Hempstead - Hempstead turns into Conklin
4. Follow Conklin to very end
5. L onto new highway
6. over RR tracks
7. turn L into 1600 New Highway

Talk to site mgr @ 1600 New Highway notes Phil Embrescia is scheduled to arrive @ site today to purchase levers + place around site.
Mgr notes about empty truck tested ramp yesterday. Worked ok.

CA Gammal

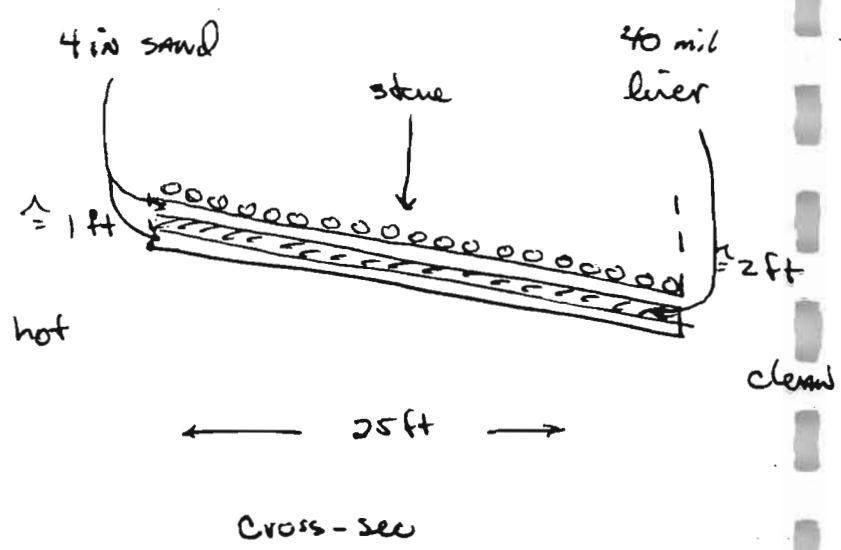
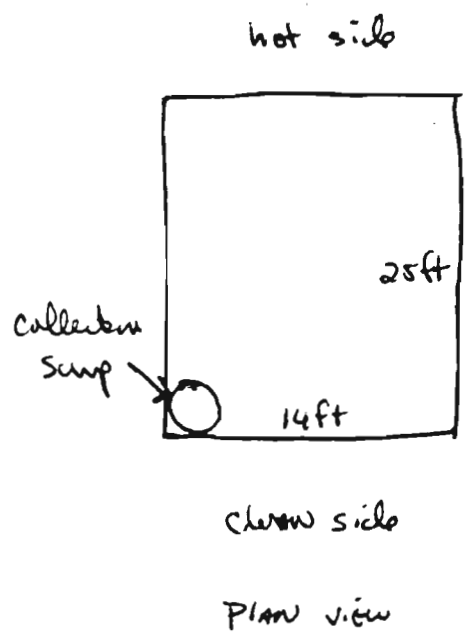
3/22/96

0930 Return to site. Talk to B Doherty. He notes pad to be built today. Materials to arrive @ 1100. Pad located 1/2 in contaminated zone, 1/2 out contaminated zone. Shall be large enough to fit track hoe on for clean @ end of job.

11:00 Two truckloads of sand + 1 truckload of stone delivered to Site 2 for construction of decontamination pad. Also delivered:

- 10 - 55-gallon drums
- 8 rolls - 10 mil polyethylene sheeting 20 ft x 100 ft
- 300 ft - garden hose
- 4 rolls - bright orange safety fencing

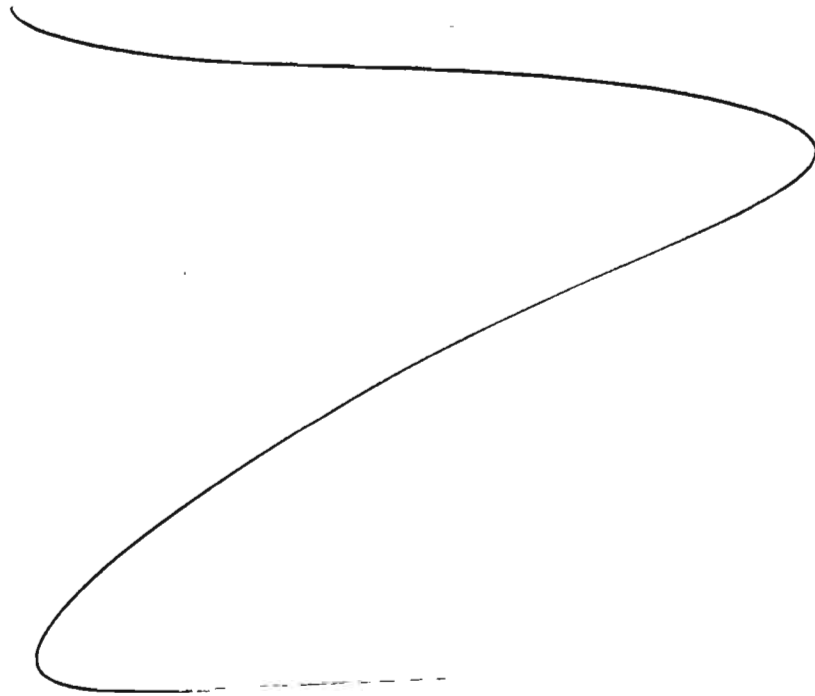
Construction of decontamination pad begins. Pad located @ entrance/exit area of Site 2.



CA Gammal

3/22/96

- 10:00 CF & MS out to work. Construction steps
- 12:30 CF & MS return to site. Stone layer being applied to decan pad. Finish
- 13:30 CF leaves site for Airport.
- 14:30 M Snyder leaves site for home. Notes that decan pad finished construction.



C. J. Gumb

3/25/96

Sunny 45°

0700 C. Falvo + M. Snyder in @ 5:00 for morning meeting.

0730 CF meets w B Ingram + A TAVANINA @ ROICC office to review days activities. D Ardito - Carillon + W. Dehaanoy - FW show up also to review manifesting.

1. 4 - 18-wheel dump trucks arrive @ gate for loading activities. Base permits being secured for drivers.
2. Manifests are prefilled out (copy) except for Manifest Document Number - to be consecutive numbers starting w 0001 + continuing for each truck that leaves site

Total Quantity - to be in kg + to match weight ticket @ scale. Ideal weight / truck is $23.00 \text{ tons} \times 2000 \text{ lb/ton} \times .454 = \underline{\underline{20,800 \text{ kg}}}$

ideal weight @ RR car is 95 tons / car \Rightarrow
4 dump trucks / RR car

Out of Service date - date of excavated soil shipped

Generator signature - signed by ROICC

ROICC office gets copies 3, 4, 8 @ truck departure
Scale house ticket has manifest Document No cross referenced to it + written on it.

D Ardito to furnish photocopies of manifest from RR yard signed by RR people for ROICC

CA General

3/25/96

3. Leavelle to handle making of copies 3 + 4 for ROICC.
 Leavelle to supply someone to handle scale house operations
 nobody set for today. C. Panticos of site (operations
 to be assigned for today.

0845 Meeting adjourned

0900 CF to site to review Decon pad. Power source unable
 to power spray washer. Power source unable to run
 sump pump. Few people work with it. Dewatering
 Trucks have not yet arrived at site & from
 front gate approach.

1000 slw Mark Spaventa. He notes that S. Lehman prefers
 to collect carbonaceous samples on 2-day turnaround
 & not 2-day rapid. I infer a TROMANIA.

Each of 4 trucks being preweighed prior to loading.
 This will occur for each load out of site
 Each truck placarded w PCB sticker & #3077 label.

Truck Body #	Name	Weight Ticket Code #	Licensing Plate
138	Sonny Belgrasch	88	P5J78B OH
132	Eddy Stambaugh Stambaugh	89 94	P2 F60U OH
82	Tom Raley	91	P4 P86B OH
78	Charles Lane	92	P4N91B OH

Trailer is ~~Wills~~ ^{Wills} of Trucking Inc.

Trailer Body #	Trailer Body #
138	439
132	489
82	446
78	346

Changed
 by D Archito
 After entered
 into this
 book

DA Gamm

3/25/96

1015 Each of the 4 trucks arrive @ site 2 + begin loading in soil.

Cheryl Polios monitoring air particulates. Tells me CO_2 0.00 reading last tested.

1030 A Tawanna + B Ingram show up @ site 2 to observe operations.

10:35 Two union representatives arrive @ site to review duty of running spray washer. Union members feel job should belong to operators. Laborer currently running job.

11:00 Union reps leave site after speaking w/ site manager B Dolanney. Laborer continues to run spray washer.

11:00 A Tawanna + B Ingram leave site.

11:45 4 trucks leave site for RR yard. Total 4 truck is below 85 ton minimum required for 1 rail car. This difference is to be made up at the next run.

1315 Truck #138 returns for 2nd load out of site. Trucks are not being lined as reported in FWS work plans. I ask B Dolanney + he informs me that H Lazarus of FWS arrived in trucks for liners in drain cans. The trucks will remain charped + dedicated to this job when they will be fully decored @ the end of the job.

Ch. Kimmel

3/25/96

13:30

C Farnos + B Ingram drive to RR yard dumpsite to review operations. Upon arrival, note PCB soil laying on plastic sheeting at base of concrete dump ramp. Phil of Laillaw is standing in soil shoveling it into the bucket of front loader. No PPE is being worn. Bucket is now contaminated. Two additional loaders are working in soil to liner. No PPE is being worn. B Ingram asks D Ardito + Ardito notes that he realizes this is a violation. He notes his PPE stripout did not arrive in time. Notes that spilled soil was due to 1st truck missing the ramp. CF + BT note partially. Additionally trucks loaded successfully. C Farnos asks if covering for soil in RR cars. Ardito notes additional plastic cover for cars. CF + BT inspect rail car covers + fasteners. Apparent satisfactory. CF + BT note that all RR cars containing soil must be covered each night. Also spilled soil must be cleaned up by night. Loader must be decontaminated + people must wear PPE at all times. (Photos of spill + ramp collected). At end of day all 4 trucks should be locked up + covered on Bothpage facility since beds are not decontaminated after each day. Two loaders at RR yard were not aware that the soil was PCB contaminated when added.

CF

14:45

CF + BT leave RR dump yard. Return to Base. Find that M Snyder has already left site for home.

15:30

CF @ site 2. Notes that 4 trucks will be leaving trailers @ site overnight. Walks off site.

16:00

CF off site.

C Farnos

3/25/96

- 0700 CF into site 2. Workers on site, Drivers on site.
Drivers drive trailers to scales for light weighing
- 0815 Drivers return to site to pick up hot loads. Site workers idle until now.
- 0850 CF leaves site 2 to scale house. B Dolhony is running scales + notes that ~~they are~~ CF the scale is jamming the receipts. That is the reason for the downtime.

CF visits A ~~Fra~~ Tarranina. Notes that total of 220 tons soil removed from site + shipped to rail yard so far.
- 0915 CF leaves scales for rail yard. Notes a yard that workers are all wearing dywiders boots, gloves today. No spills evident. Front end loader bucket has not been decaned as no drum of decan water present at site according to yard manager. Trucks are being delayed in dumping because of moving the rail cars into position for each dump. Approximately 5-8 min delay / truck.
- 1020 CF leaves rail yard for warehouse to pick up supplies. No supplies available. Must find out why in Pitt.

CF phones M Speranza. M Speranza notes that laborers at rail yard should have H&H certificates on file in FW. Also advises to check for spill report for yesterday's spill at rail yard. Based on our conversation CF returns to site 2 to estimate volume of 2 piles of scraped soil that was contaminated due to overexcavation. Estimate 25-40 cy / pile. Two piles were on site. 1 pile in SE corner, 1 pile in NW corner.

CA G... ..

3/26/96

1120 CF back @ Site 2 to do estimate noted on page 87
 Workers down as trucks not at site. CF noted this
 AM to B Dolhoney that 2 PCB-piles must be removed
 from site. They cannot be stockpiled according to FW
 work plan. Noted this also yesterday.

1142 Truck arrives at site 2.

Truck loading procedure:

1. Tarp removed from truck trailer outside hot zone
2. Driver backs to excavation area + filled direct
to soil.
3. Driver moves forward to decar pad for spray off
of all wheels.
4. Tarp put back in outside hot zone.
5. Truck on way to scales for heavy weighing
6. Truck off to rail yard.

12:30 Workers return to site. I Ask C. Polius (FW H&S) if
 FW + H&S cert. tickets on laborers at RR yard. She
 notes that she doesn't. I Ask if she has a spill
 report from yesterday's spill. She says no. FW is still
 laying @ contractual responsibility.

Site workers begin to spray down site to minimize
 dust blowing.

1:45 CF speaks to B Dolhoney. He notes that spill report not
 required @ rail yard as not really a spill since it was
 contained in the plastic + then deposited in the car.
 Noted that 40 hr H&S for 2 laborers not needed

CA [Signature]

3/26/96

since they no longer are working @ rail yard site. LA willow has replaced them w trained personnel. I will verify on next visit.

CF visits w A Tammara. Deliver more manifests to office. Meet Mat of FW who is now running scale house full time.

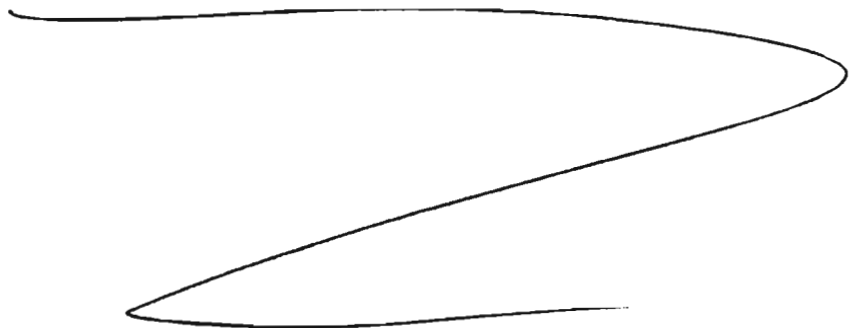
1400 CF back to Site 2. Sprinkler is now controllly dust.

1530 CF Asks C Polios About Air monitoring plans. According to FW work plan Air is to be monitored at 3 site locations. C Polios notes that a letter was issued to Navy indicating change in air monitoring plan. Air monitoring will be done manually only by C Polios. Copy of letter retained.

1600 Tractor take another round of soil to rail yard. Workers @ site stay at site to load trucks.

1630 Site workers off site for evening. One truck returns to site + stayed for evening. Two additional trucks stayed at site 2, one truck stayed at rail yard.

1700 C Farnos off site for evening



C A Farnos

3/24/96

- 0700 C Farkos on @ Site 2. All wheels at site & trucks @ site.
- 0715 Truck 82 dumps overnight load into excavated area. Told by B Delaney that this to be removed later. Soil stockpiled in SE corner of site for 6 days is (25-30 cy) big loaded into truck 82 for shipment. Stockpile in NW corner near SB505 CF was removed on Monday.
- 0930 CF matching trucks being loaded to remove stockpiled soil in SE corner for better estimate of volume. Truck no. 82 removes 2 loads. Truck number 132 removes 2 loads, Trucks No. 78 + 138 each remove 1 load during the morning hauling session from one stock pile in SE corner. Total weight will be checked at night house. Estimate of other pile to be of similar size.
- 1000 David Eans & John Barnes of NY Dept of Env. Conserv. arrive @ site 2 in A TACAMIA to inspect operations. I review excavation plans & show them the site plans. I also show them the proposed confirmatory sampling locations & ask if they have any recommendations. Both men look @ sampling plan & have no recommendations. I note that I was in area of excavation this morning looking for stained soil & evidence of PCB contamination. Note that it is difficult to locate stains since fill material comprising the site is of various colors. Dump truck arrives to remove load of stockpiled PCB soil. As truck prepares to leave a dust cloud ^{cloud} is kicked up. Cloud moves toward nearby houses. I advise FW HAS site person to monitor dust & to wet down area. Also advise to stop operations until wet down is completed.

CA General

3/27/96

- 1045 DEC personnel + AT T leave site to visit Site 1. FW personnel + laborers continue to net down site. Pumper truck arrives @ site 2 & is taken by B Dolhany to off site to fill.
- 1120 Dump truck returns to site 2 for load. Instructed by FW that person to remain outside site until net down procedure is completed.
- 1130 B Dolhany returns to site to net down in water truck.
- 1150 Unkews prepare to leave site for lunch.
- 1200 A TAVRAMIRO + DEC return to site to review truck loading. Since unkews going to lunch. DEC personnel + AT T, leave site for lunch. Will return to review truck loading. Truck driver advises me that D Ardito still at rail yard. He notes that trucks are being delayed this am for \approx 1 hr/drip as rail car is moved around & as moist soil dumped in am clogs chute & backs up in truck trailer.
- 1250 2 more trucks arrive @ site 2 for loading.
- 1300 AT T. + DEC return to site to review loading procedure. Laborers return to site also. Dust is controlled by pumper truck. J Barnes questions B. Dolhany regarding where pumper truck water is from. BD notes from hydrant @ center by waste water plant. J Barnes questions if it contains VOC's from groundwater to AT T. AT notes he must investigate. B Dolhany notes he will collect grab sample of water.

CA Glanville

3/27/94

1340 DEC personnel + A Taramin lease site.

1400 CF offsite for railyard. At railyard CF notes D Arlito still @ site. According to David person using a soil + loading ramp is 40-hrs H&S Laidlaw employee. Everyone in full PPE in hardhat + glasses. I note that worker @ chute is not in protective overboots. David notes ordered wrong size boots. Will have to return. I note trucker caravan crew delays. David notes pallet picked up by loader @ site got stuck in hopper. Notes plastic picked up at site used to cover contaminated piles caused some unloading difficulties. I watch unloading process:

1. Front loader up ramp, attached to chain + picks up loading chute off rail car. Pins placed in chute track to hold suspended.
2. Front end loader down ramp to hook up chain to rail cars. Pulls rail cars into chute position for next soil load.
3. Front end loader back up ramp. Hook up chain to chute. Lift chute, release pegs, lower chute into rail car.
4. Loader off ramp, truck up ramp, dump.
5. Truck down ramp, worker shovels soil off rim of chute.
6. Start process over. Total time: 35-40 min

David notes he is off site tonight. I ask who will handle paperwork for manifests. He notes Phil to handle it another person from Texas. David to return Friday. I ask can they handle manifests. David notes he will leave a step-by-step instructions.

CA General

3/27/96

1500 CF offsite of railyard.

1530 CF back to site 2.

1630 Two trucks leave trailers @ site + offsite w cabs

1700 Workers off site. CF offsite

Two trucks leave trailers on other side of fence by Building #3.



C A Gammal

3/27/96

38° Partly sunny

- 0700 CF into site 2, workers onsite. Trucker of #138 on site. Trucker leaves to get lightweigted.
- 0730 Trucker #138 returns to site for start of loading.
- 0740 Trucker #132 arrives at site for loading.
Truck #138 loaded + ready to go off. Truck can't leave as spray washer not operating.
- cf ~~0800~~ 0800 Truck #78 onsite for loading. Truck #132 loaded + in line to go out. Boloid #138 waiting for decan sprayer to operate
- 0803 Truck #138 onto decan pad for spraying. Truck #82 onto site 2 to pick up cab + go for lightweigting.
- 0807 Truck #132 onto pad for decan.
- 0808 CF to phone into office
- 0930 CF off site to make phone calls prior to meeting
- 1030 weekly staff meeting begins. Following attendants were there:
- | | |
|-------------------------------------|--------------------------------|
| Cory Cuppi - Foster wheeler RAC H+S | Bob Ingram - Navy |
| Bill DeLanney - FW - P.M. | Al Tammam - Navy |
| Cheryl Lyons | Craig Fathor - CF Brown |
| | David Ardito - (phone) Laidlaw |
- i. H+S loads in @ meeting. Some trucks overweighting over 81,000 lbs must be returned to reduce weight.

B.D.

- 2 ✓ Reviews day 1 incident in Cory cuppi from RR yard. Bill notes soil spill + workers want back H+S certificates. GC reviews H+S certificates for 2 new Laidlaw employees put on site: Garland Jones, Stewart Imperson. Jones has no 40-hr certificate, just relevered certificate. Request 40-hr from DA. Also D.A. notes that Larry Walker is to arrive tomorrow to supervise operations in place of D.A. No 40-hr on file for him.

CA Journal

3/28/96

- 3. BD notes to DA that 2 uncoated wheelers are not to touch soil or work around soil. They can only work in liners in dump cars or none car around. DA agrees.
- 4. BD notes that proper decan of bucket @ rail yard must be completed once job is finished stay in all equipment that is contaminated soil. DA agrees to decan bucket by sending it to Site 2 for FW to decan. Other equipment will be cleaned @ rail yard. All workers will wear full PPE as required by FW.
- 5. DA notes that Wills trucking is subcontracted to Laidlaw. As such, soil becomes Laidlaw's responsibility as soon as soil hits bed of truck. As long as trucks comply with all loading regs any damage or liabilities that occur after the truck leaves base is the responsibility of Laidlaw. Meeting members understand. DA notes that truck beds will not be decaned after job is over since the beds are dedicated to hauling PCBs & other hazardous materials.
- 6. CF asks DA if George Burns is certified/authorized to sign for Long Island RR. DA notes that "he hopes so." CF requests copy of certification/authorization form confirming this. DA agrees & notes that Joe Palakis (718) 784-6612 can provide authorization. DA left in task.
- 7. BD reviews w DA time schedule for work:
 - 7:00 AM start up @ site 2 - trucks @ lightweight station at this time. So 1st truck can leave base @ 7:30 AM
 - The side gate by Bldg #15 is open @ 6:30 AM
 - The last truck through the gate to RR yard will be @ 3:30 PM
 - No trucks, at request of Army & Wills, are to be left overnight at the RR yard. All trailers must be stored overnight & weekends at base.

CA General

3/28/96

8. CF reviews and confirms sample plan to FW. CF gives FW photo of sample locations. BD notes that 1/2 site will be excavated + CF will sample in 7-day turnaround while other 1/2 is beginning to be excavated.

9. CF reviews to Mary the extent of excavation @ site 2. Shows diagram. Following statistics available: (based on weight tickets)

<u>Date</u>	<u>Kg excavated</u>	<u>total daily loads</u>	<u>1st load out*</u>	<u>last load out*</u>
3/25	125811 = 139 tons	7	11:00 AM	3:33 PM
3/26	327220 = 360 tons	16 ¹⁸	9:17 AM	5:11 PM
3/27	<u>273356 = 301 tons</u>	11 ¹²	9:11 AM	4:45 PM 4:31
	⇒ <u>800 tons</u>	<u>37</u>	* adjust times 1 hour earlier AS scale check is 1 hour fast. 11AM = 10AM	

Total PCB-contaminated surface soil removed from stockpiles in SE corner (based on weight tickets):

$$267017 \text{ lbs} = 134 \text{ tons}$$

1st 2 trips by truck # 82

1st 2 trips by truck # 132

1st 1 trip by truck # 138 + # 78

1230 meeting adjourned.

~~#~~ ^{CF} 1400 B Delaney + G Cypri show up @ site to renew operations. Trucker notes that only 3 rail cars available for filling today. All cars filled by 1330. Trucks advised to fill + stage overnight @ site 2 for 7:00 AM delivery to rail yard.

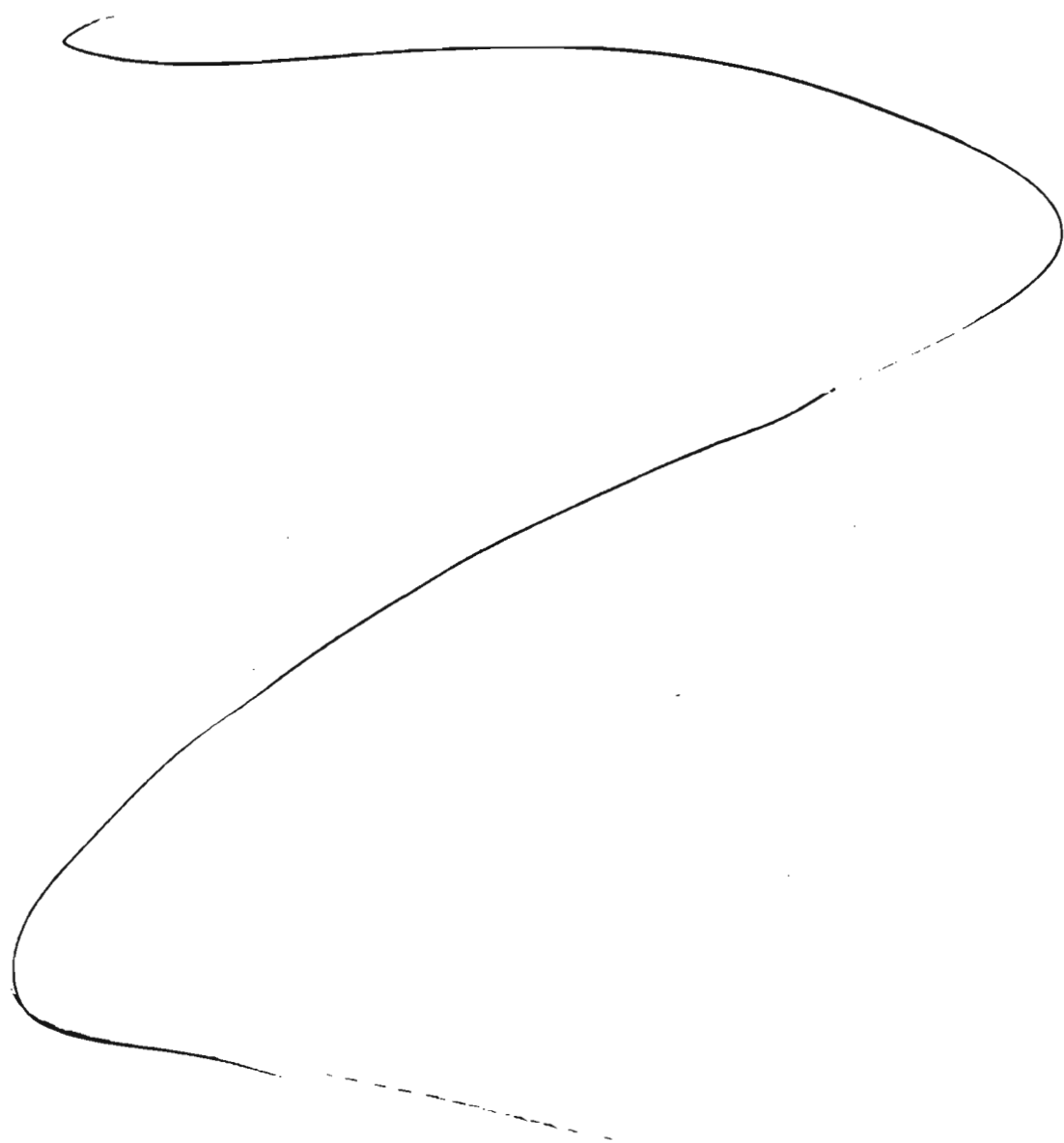
CA Farnell

3/28/76

1430 B. Dolhoney + G Cypri leave site.
Trucks begin filling for evening.

1530 Truck full, 4 Trailers stayed @ site 2 for evening.
Winters off site

1610 C.F. off site for evening.



C. F. Howard

3/28/96

33° Snowing

- 0700 CF into site. 3 trucks already off site loaded for railyard. Truck 4 at site 2 to be unloaded + reloaded because overnight load in bed.
- 0715 CF off site 2 for railyard.
- 0738 Trucks arrive @ site. Total 3 loaded trucks
- 0800 P Embrosia arrives @ site with 2 labours (worn 40-hr H&S) to begin unloading trucks. 2 RR cars at yard for filling. P Embrosia notes that 3 additional cars to be delivered today by RR company.
- 0800 Truck 1 unloads. CF nets Larry Walker in office @ railyard.
- 0805 Truck 2 unloads
- 0815 Truck 3 unloads
- 0840 Truck 4 arrives at site for unloading. Total of 3 workers at railyard to handle operations.
- 0915 CF meets w. A Tawamira + delivers manifest copies.

Total loads for 3/28 are as follows:

~~10 tons delivered = 237,281 kg = 261 tons~~

↑ INCORRECT SEE PP 113

- 1000 CF to call Spawza.
- 1030 CF back to site 2. Snow continues to fall hard
 \approx 3.5" on ground. Roads slippery.

O A Gurnell

3/29/96

- 12:30 C.F. provides B. DeHoney with copy of minutes for 1st week of operation. B. DeHoney notes that one of the forklifts breaks a hydraulic line @ the yard. Truck must be repaired.
- 13:00 Snow ends sun comes out. Temperature is increasing
- 14:00 C.F. out of site for weekend

Ch. G...

3/29/96

Oueveast 48°

0700 CF into site 2. Four trucks will be ~~off~~ running in rotation today. Two new trucks to replace 2 of previous drivers. The following trucks sets of apply:

<u>Cab #</u>	<u>Trailer #</u>	<u>Trucker</u>	<u>Weight</u> <u>Ticket</u> <u>Code</u>
#132	489	Ed Stambough	94
#138	439	Sunny Bergach	88
No body # (blue)	346	Cory McLeod	95
No body # (green)	446	Dann Murphy	90

New truckers advised of verifying + decou procedures for site. P Embrescia notes that have to get 2 round trips in by 9:00 AS train transfer time @ rail yard occurs between 9:00 - 10:00

I ask B. Dolhoney about decou ^{disposed} ~~water~~ @ site. ~~Disposal~~ CF B. Dolhoney notes safety in w.p. but not sure what company will handle it. I will check.

0900 CF @ rail yard. Notes that front end loader is broken down. Apparently accident to wheels, loader ran out of gas on Friday. The fuel line sucked up sludge which clogged the filters. New filters installed + battery recharged. All 4 trucks @ yard full - down time. Truck #138 cannot get liftgate to open by hydraulics. must be fixed.

1000 Front end loader started up. ^{CF} ~~at~~ this time only 1 truck has put load into railcar. Two wheelers without carburetors @ site. One new wheeler for Laidlaw also at site. All wearing PPE. Larry Wheeler informs C. Pashos that all manifests up to this point 3/25/96 - 3/29/96 have the wrong EPA ID for the LF railroad.

CA

CF 4/1/96

EPA ID - NYD 980641625 - old number - WRONG
 EPA ID - NYR 000021345 - new number - CORRECT

All old manifests were filed out by D. Ardito.

1230 S/W/D. Ardito @ office. David notes that it is OK to cross out EPA ID in pen + write in the correct number. Notes that the number he used was from 1 yr ago on an old manifest + since then the LIRR was sold. New number ~~has been~~ ^{CF} will be changed by Larry Walker on all new outgoing manifests according to D. Ardito.

Total tonnages on PP107 did not include 3 loads transferred later in the day. This tickets were examined today & included in the 3/28 numbers printed below ^{CF}

<u>Date:</u>	<u>Total trucks</u>	<u>Sail hauled</u>	<u>1st load out</u>	<u>Last load out</u>
3/28	14	295864 kg = 326 tons	8:23	3:09 PM
3/29	109 ^{CF}	167959 kg = 185 tons	8:25	2:23 PM

(1 truck All other trucks finished @ 11:40)

These values are taken from the weight tickets

1300 P Embuscia comes to site. Notes he is fixing manifest EPA ID numbers for the Long Island RR.

1330 P Embuscia off site.

1530 Walkers off site. Trucks parked empty for evening @ site

Ch. G. Lavelle

4/1/16

Sunny 40°

0700 CF visits site. 4 trucks lined up + ready to load.
15-20 minute delay as spray water out of gas.
All 4 trucks out by 8:15.

Excavation is being performed in NW corner of site by new
excavator plant. Excavation is now being toward southern
edge of excavation near SB-47. Going down to
depth @ SB-46, SB-45, SB-41, SB-54 down to depth
complete + covered. Approximately 40% of unmet excavation
complete. CF notes to B.D about potential cross-border construction of down area

0930- Joe of FW comes to collect field test samples @ boring locations
1000 SB-45, SB-41 + SB-54. Surface samples collected using
plastic spade + glass jar. Will test in lab @ driver.

1030 I note to B. Dolhany that banks appear to be eroding
along walls adjacent to WW treatment plant. I recommend
some type of erosion control or shoring. Bill notes he will
have a small collection pit for rain water dug near
SB-47. Lined w hay bales. I note that ^{he} ~~CF~~ must
also prevent runoff from asphalt by w.w.T.P. he notes
that bales are present, will evaluate for more effort.

1100 CF visits ROICC office. B Ingram questions work hours
for job + additional weight tickets. I note that I
must confirm hours to B. Dolhany. B. Dolhany noted
earlier in am that he has contracted for another 1000
weight tickets to be granted by Thurs 4/4.

12:00 CF notes H. Lazarus @ Site 2. H Lazarus notes that
he estimates another 1000 cu of soil to come out of
pit from this point on. I question if D. Ardito will
be able of supplying the additional rail cars. H Lazarus
notes that ^{CF} Ardito is contracted to supply cars + he does

Col. [Signature]

4/2/96

not need to give a fixed value for all cars needed.
Lazarus notes that total job should be \approx 4000 tons.

I ask B. Dolhany for working schedule for tomorrow. He notes 6:30 AM start time - trucks & workers. 3:30 PM shut down @ site 2.

I ask H. Lazarus & B. Dolhany who is responsible for removing decar water drums from Site 2. H. Lazarus notes that it is in D. Ardito & Landlans work ~~scope~~ CF scope to remove drums.

1300 CF arrives @ railyard to review operations & pick up manifests. I note to D. Ardito that he is responsible for getting all copies of manifests #3 & #4 @ Navy office changed with the new EPA FD for LTRP. He & Phil agree.

1430 CF meets w/ D. Ardito, H. Lazarus & B. Dolhany @ railyard. H. Lazarus notes at this time that he estimates the job to be 33% completed & that total job will require 4800 tons of excavated soil. ~~this means that~~ ^{CF} 1600 tons soil have been excavated to this point according to H. Lazarus.

B. Dolhany notes to D. Ardito that normal working hours will be 6:30 AM - trucks & workers arrive @ site 2 preclude trucks from right before should be taken by truckers off site 1st thing in AM 3:30 PM - last loads to be put into trucks @ site 2. D. Ardito notes that up to this point he has reserved a total of 45 quarrels for this job. Notes that he will have to reserve more.

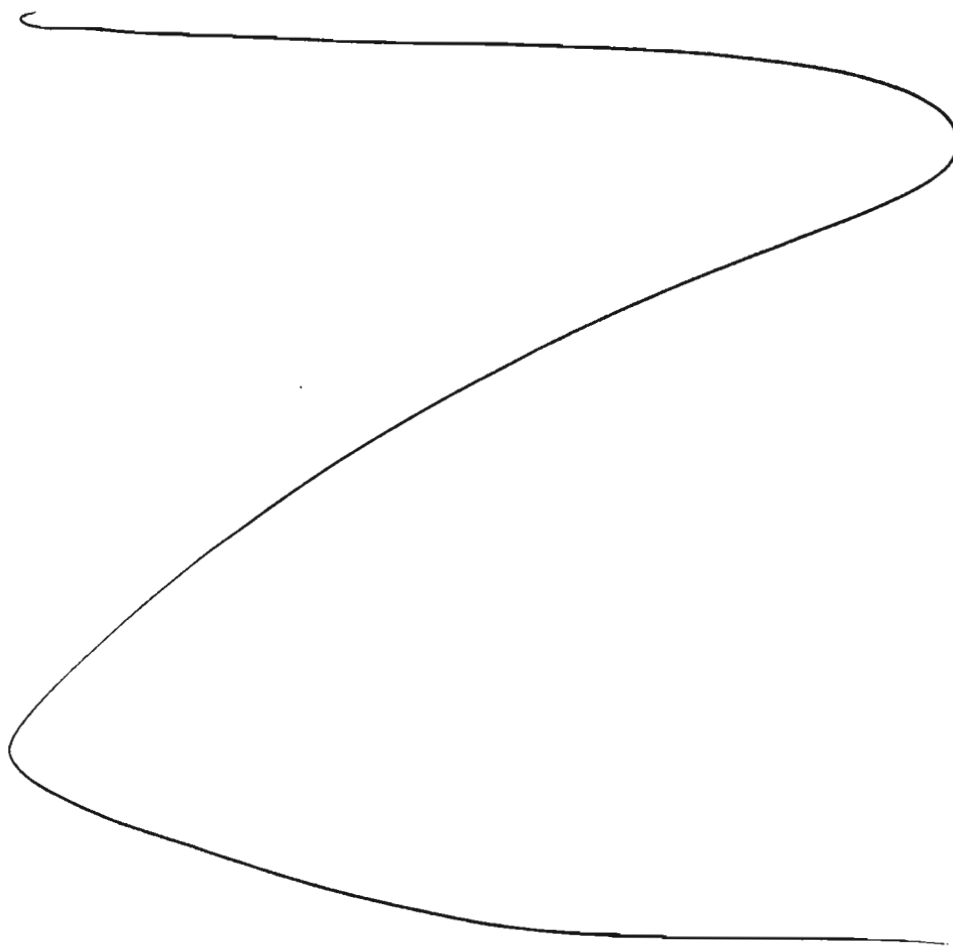
Ed [Signature]

4/2/96

H. Carano notes to D. Ardito that he is to remove
decan meter drums from Site 2 according to work plan.
D. Ardito agrees.

1545 C. Fahn back to Site 2.

1600 C. Fahn off site 2 to phone M. Speranza + advise of
excavation projects + site 2 progress.



CA Fahn

4/2/96

0700 C Fahos @ site 2. Notes to B. Dolhany that erosion control along asphalt by water plant should be improved. Hay bales need to be straightened, maybe additional control. B. Dolhany notes that runoff collection ditch has been installed @ site with a small collection basin. B. Dolhany also advises orders to clean up site 2, shore up fencing & more boat decan area near truck decan pad to make more room for truck access.

C. Fahos & B. Dolhany up to date on daily reports. C. Fahos notes that he pushes FW to take field test samples in same location as proposed CF Braw samples. B. Dolhany agrees.

0830 C. Fahos @ ROTC office. Notes to B. Inyan & A. Tronier that C.F Braw recommends that new manifests from today on should be free of cross-out lines. Manifests should be retyped. Not against law to cross out but lines may cause concern @ EPA or state filing delays during review.

C. Fahos reviews photocopied manifests. Notes manifests 85, 86, 87 do not have new RR yard ID as then 84, 83, 88, 89, do have number corrected.

The following shipping data is available:

<u>Date</u>	<u>total trucked</u>	<u># loads</u>	<u>1st truck out</u>	<u>last truck out</u>
4/1/96	291542 kg = 321 tons	15	8:09 AM	3:45 PM
4/2/96	405686 kg = 447 tons	21	7:43 AM	4:30 PM

CA Havel

4/3/96

10:30 CF leaves Site 2 to visit rail yard. S/w L. worker regarding manifests. L.W. notes that manifests 1-60 were mailed out Monday 4/1 to authorities. Notes that 61-93 to be mailed out Wednesday 4/3. CF looks through manifests for # 82, 83, 85, 86.
 MW L.W. to

LW notes that EPA 70 has not been changed on these 4 but that on manifests 80, 81, 87, 88 the number has been changed. This is the same case with the photocopies in the ROPCC office.

C.F. looks for P. Embrossie. Find P.E. standing along the railroad tracks with copies of manifest # 93 + # 94 in notes, proof envelopes + with bag of stickers to be handed to rail operator when he came by. P.E. notes that two cars went out w/out stickers under. "this was a mistake" - P.E.

P.E. notes that he hopes to have 10 additional rail cars @ rail yard by Monday. CF notes that @ daily production this is only 2 day work. PE notes that need 25 cars for full week's work so this may entail another shut down next week. Its up to FW.

Today there are 3 cars in yard - 1 car is full & tarped, 1 car is being filled currently, 1 car is empty & lined & ready for said. One Laidlaw worker is working to seal w/ coat over top of PPE.

P.E. + workers note that 2 trucks down today -
 Sany's truck down 2 hrs w/out tail lights
 Eds truck down 3 hr because seal on rear hub is cracked.

12:30 CF leaves yard.

CA Funnell

4/3/96

1300 CF notes @ Site - that workers are idle. B. Dolhany notes that job must be shut down till Monday as no rail cars. Workers @ site will be laid-off Thurs & Fri. Truckers also notified

1600 CF + B. Dolhany arrive @ RICE office to meet w/ A. TAVANNA. CF spoke w/ B.D. prior to going to office to advise B.D. of some CF findings @ rail yard.

At meeting B.D. notes that Friday not holiday for workers but rail yard shut down therefore he can't work on Friday. Also notes that since no rail cars can't work Thursday. BD expects 10 cars for Monday but notes that really need 25 for full week.

B.D., C.F., & AT review that D Arditz was ordered so far 45 rail cars for job. We have currently used 27 of the 45 cars. \Rightarrow 18 cars still available from the order w/ 10 supposed to arrive on Monday. AT suggests telling Louisiana to order 50 trucks to ship soil to Utah on Monday. B.D. notes considerable cost.

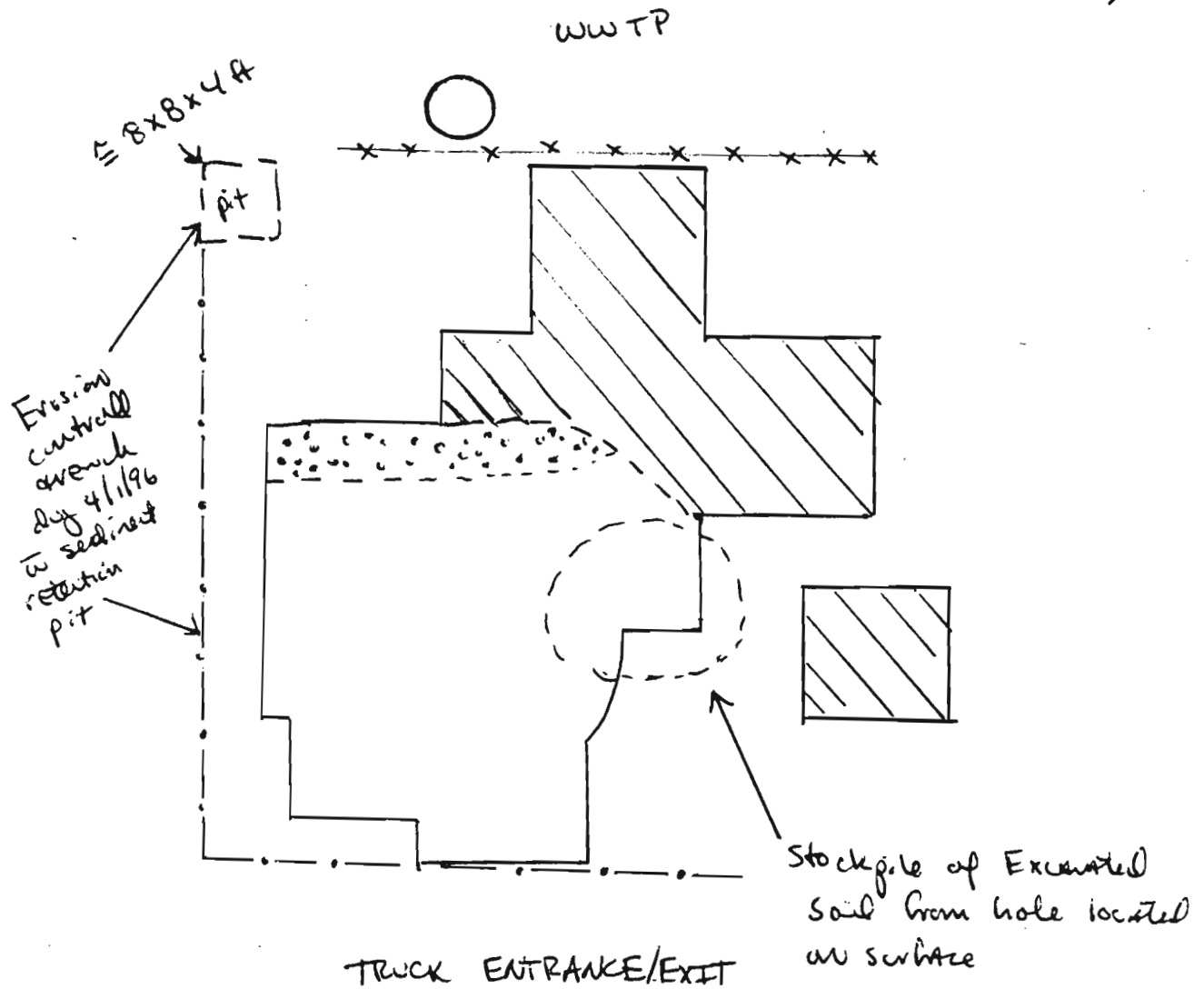
B.D. notes that workers laid off Thurs & Friday so some \cong \$2000 - \$2500/day to site guys. May be possibility of new physicists on Monday if workers on job change on Monday.

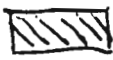

1630 Meeting Adjourned

1700 CF flights

CA Laurel

4/3/96



-  Finished excavation to 4/1/96
-  Excavation in process

Part Sunny 48°

0700 CF @ site 2. Review point of excavation to this
dire. See diary pp 126

0830 CF meets w B. Dulhany to auto some items for job.
Review manifest problems @ railyard.
Review manifest scratch out inconsistency @ railyard
& CF Brian recommendation that new manifests be final.
Review:

- FW manifest discrepancies re actual work going on
FW 2016 yds = 3276 tons vs 4800 tons
projected by H. Lat on 4/1/96. CF notes
number may be larger.

CF notes excavators are putting sideslopes soil into
diving pile when w.P. says it should be treated
clean

CF notes w.P. says sideslopes 1:1.5 not being
achieved @ site.

CF notes decur pad debit from actual
are specified by C.F. Brian

Dump trailers not lined as specified in w.P.

Equipment projected in w.P. not same as on
site

CAT 325 not used
off road dump truck not used
D5 CAT not used

water truck used

Care 621 front loader used

John Deere 690 track hoe used

CA

4/3/96
CF

B. Dolhany notes currenty: 6 buckets/drink @ $\approx 2-2.5$ cy/bucket
 by 20 tons PCB soil/truck

B.D calculates area to still be excavated has sideslopes of clean
 soil ≈ 1550 tons $\Rightarrow \frac{1550 \text{ tons soil}}{85 \text{ tons/railcar}} \approx 18.5$ cars

soil to not be dumped into cars.

CF notes that in conversation w operators on 4/2/96 they
 informed CF that sideslope soil is going into the dirty
 pile not separate clean pile.

1030 C.F., B. Dolhany, L Niles, C Particos, A Tawanna attend
 meeting for week.

B. Dolhany notes that according to H. Lewis Laidlaw is responsible
 for seeing safe operating procedures @ the rail yard. F.W. can do ~~not~~ ^{not} CF
 notify to regulate operations @ the yard. B.D assumes A.T. that
 Laidlaw not the way ~~with~~ ^{CF} is liable for all soil handling +
 shipping operations + activity. A.T. notes that they does have
 obligation to observe those things that can be possibly observed
 within reason. B.D. notes that F.W. will decan the
 bucket used at the rail yard at end of operations.

B. Dolhany notes that air monitoring @ S. to 2 will and be done
 periodically + that the site will be kept wet to minimize dust.

C.F notes that 2 piles of PCB contaminated soil were moved
 + were about grad in size $\Rightarrow \approx 134$ tons (pp 103)

4/3/96 503760 lbs = 250 tons 12 loads 8:23 AM start 1:37 PM stop

CA Lunn

4/4/96

CF & B.D. show AT the excavation diagram. CF indicates to AT that FW work plan shows 2016 cu or 3276 tons for site 2 excavation. Notes that H. Lazarus estimates 4800 tons as 4/1/96. Also notes that have already drilled close to 2000 tons or \approx 30-40% of job finished. B.D. shows excavation side views & notes that will try to keep side slope soil in clean pile as proposed in u.p. B.D. & AT agree that this is difficult given the soil characteristics. B.D. agrees to field screen top soil & side slope piles to assure that they are clean for backfilling.

A.T. agrees to check on status of large soil pile located in S.W. corner of site. This could be used as good backfill. B.D. notes that he could field screen to assure clean if ok to go with it.

B.D. notes that heavy soil in the old^{CF} cross hatched portion of site on diagram was treated as dirty. This could explain some of the soil ^{CF} seen mirrors currently observed.

B.D. reviews railcar holding to A.T. Notes 10 cars scheduled for Monday & that may shut down next week since 25 cars needed for full week.

B.D. notes that s/w Tom Tealings @ HQ. regarding manifest problems @ railyard. According to them the following procedure must be followed to make changes to manifests:

1. Landlaw must notify DEC of NY & Utah handling Ministry of manifest change
2. Landlaw must get authorization from generator to make change & must prove to generator that he has made Dec change

CA Garland

4/4/96

3. Landlaw must make these corrections to all copies of the manifests

CF

Currently all manifests have not been changed & no notifications have been completed. B.D. notes that he will notify D. Ardito of procedure. B.D. reviews all unused manifests from ROICC office

B.D. notes that C.F. observed P. Entroscia on rail tracks to manifests # 93 + # 94 to go into railcar already gone.

B.D. notes that T. Tealiny agrees that if manifest not attached then can often substitute a bill of lading to railcar + Utah dump site. This has been done before.

B.D. notes that should have manifest problems resolved for Mondays shipments but no guarantee

B.D. notes that if no work used - Fri. next week then he may run 1 laborer + 1 operator on excavator + stockpiling clean soil until CF from side slopes until have cars.

1300 Meeting adjourned.

1330 CF off site for Airport.

No trucks dumped today 4/4/96.

CA Stewart

4/4/96

Overcast, 40°

- 0700 CF into site. Trucks being lighted + filled.
Excavators continue work on southeast portion of contaminated area.
- 0830 CF to rail yard. Pick up photographs of manifests. Changes made to these copies (#98-109). No railcars in yard. P. Embrosian notes that he will have 8-10 cars for today + tomorrow. Additional cars are scheduled to arrive for Wed →. Two untrained workers @ site + 2 Laidlaw people + Phil.
- 0930 CF to A. Tawanna's office to advise of moving developments.
- 0950 CF to FW trailer to see L. Niles regarding field sampling. Note that it would be cost saving if FW could take field screen samples in same location as me. Note gusher toward + cheaper to use field screen. Give Lynn copy of sample plan. Advise that we can accommodate her suggestions. She sees no real problem in doing this.

CF talks to Sparanza

- 1100 CF back @ Site 2. B. Dolhany + A. Tawanna both @ site. B. advises that he is having front end loader move clean topsoil into staging area in NW corner of site. Advises that he plans to field screen all "clean" piles today + will also screen large pile A1 wants to use as backfill. Will take several samples.

B. Dolhany advises CF that no problem taking samples @ my proposed locations.

Front loader bucket is cleaned prior to using with clean soil but tires are not. Possible cross contamination

CA Stamm

4/8/96

Decan pad is still in good condition. Runoff collection device has captured some of site runoff. Site wet + soupy from weekend rains.

1230 CF visits railyard. Four railcars @ site. 2 filled 1-1/2 full, 1 empty. P Embrosica notes that he has 8-10 cars arriving tonight for Tues + wed work. Additional cars to arrive for Thurs + Fri.

~~CF~~ CF Ash PE regarding manifest handling. Was not aware of procedure outlined in Thursdays meeting by B. Dolhoney. Noted that manifests in group #1 - 60 were caught in Utah in way EPA ID for LIRE + corrected above. Photocopies to be forwarded to ROICE. PE noted that he is still scratching out manifests.

Front-end loader was down for \approx 1 hr today @ railyard. Truckers inform CF that ~~some~~ CF liners in some cars were 2 ft short. PE advises CF that this has been corrected. PE advises CF that car #13 in Utah had water in the railcar head. PE notes that A Ardito "took care of this" + that it is no problem for the ROICE.

1430 CF back @ site 2. New laborer at site to work full time on job. B. Dolhoney advises CF that no need for railyard + Lardhan to change manifests + use policy described on Thursday. It's OK to scratch out the manifest + that is all they need will be done. Notes to CF that confirmations can be collected in 1/2 excavated area because of following field screen results:

CA Journal

4/10/96

<u>Date</u>	<u>Field test location</u>	<u>result</u>
4/2/96	SB-41	ND
4/2/96	SB-45	2.7 ppm
4/2/96	SB-46	2.8 ppm
4/2/96	SB-54	ND

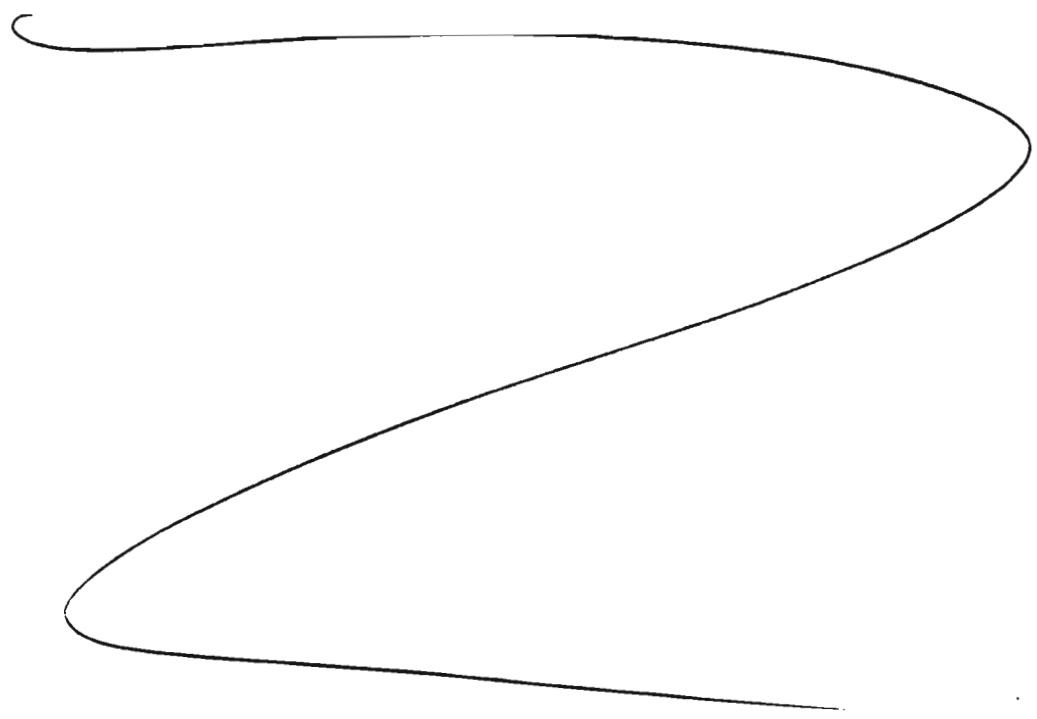
CF to begin to set up sample plots in sun.

Achiar level is 10 ppm

slw Joe about setting up samples. Notes Tues afternoon or Wed for some carbonizing work.

1530 Trucks back to 8 to 2. Two trucks off to rail yard. Two trucks probably for tomorrow.

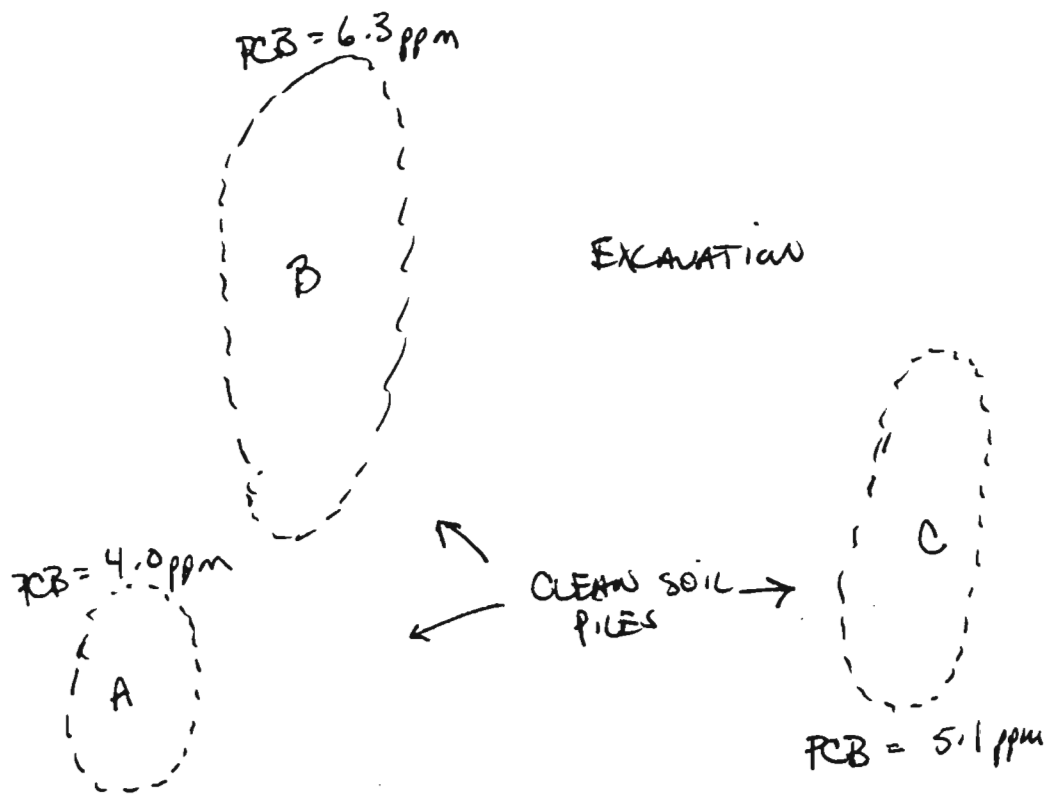
1600 CF off site for curbing.



CA General

4/8/96

FIELD SCREEN SAMPLES
COLLECTED 4/8/96
of
WWTP



ADDRESS

↑ ENTRANCE ↑

ACTION LEVEL = 10 ppm

Overcast 38°

- 0700 CF into site. Excavation continues in area of SB-53, SB-52.
- 0800 CF into ROICC office. A Tammara notes that utility for confirmation are said for backfill.
- 0830 CF into railyard. Note all 4 trucks lined up for dumping. Three full railcars @ ramp. No empties available. P. Embrosia notes that empty cars (10) are stacked in other yard & must be moved out @ 9:30 AM - 10:00 AM. Trucks must wait till then.

CF notes to PE that #1 → #93 of market copies #44 #3 still have not been changed in ROICC office. Also photocopies #1 → 60 have not been changed to correct EPA ID for LTRR. #34 of photocopies was no railcar on it. PE notes he will change. CF notes Navy curfew over Dountine.

CF picks up photocopies #110 → #125 for ROICC

0930 CF leaves railyard w no change in railcars yet.

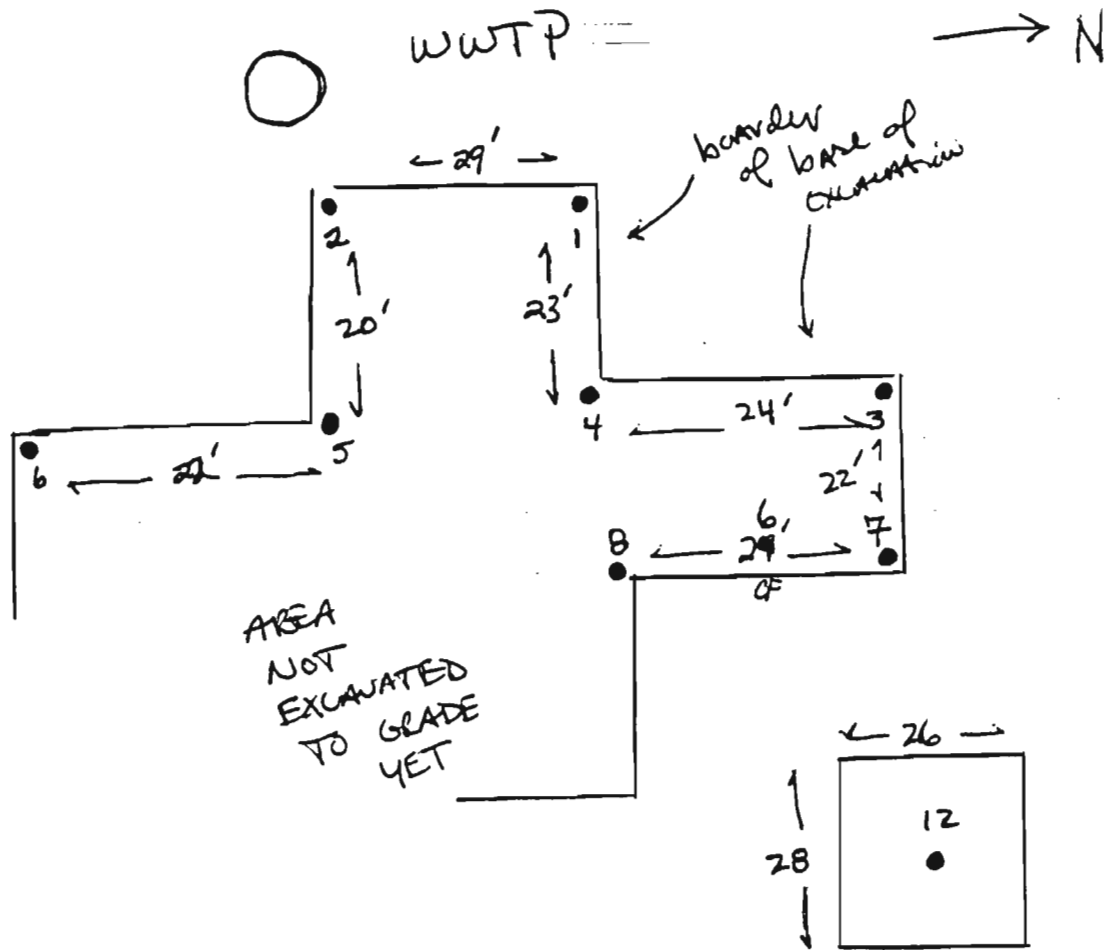
1000 CF informs ROICC of railyard problems
CF informs B. Dolhney of railyard problems

CF gets analytical results for clean soil piles:
see Diagram (pp 140)

A Tammara notes to CF that he would like to have pile B swined for vol's, semivol's, metals before backfilling. CF tells B. Dolhney

CA Kullund

4/9/96



FIELD SCREEN SAMPLE LOCATIONS
 (MEASURED DIST AT BASE EXCAVATION, PIN TO PIN)

NOTE: Some of these excavated sidewalls are under stress scaled on the cartoon provided by FW. Given that sidewalls are steeper than 1:1.5 in many places, this could explain the generation of extra soil @ the railyard.

1050 CF back to Site 2. First truck returns to Site 2 for 2nd load of dirt.

CF notes to B. Dolhany that in afternoon some of field screen samples will be collected.

1330 CF finishes staking out field sample points in the excavated portion of the site (see figure p 142)

1445 FW collects field samples @ locations identified by CF
8 samples collected (composites) + 1 isolated location #12
The remaining portion of the site has not been excavated to grade.

1530 CF sees P Eulovicia in ROICC office. PE notes that filled \approx 3.5 railcars today. RAW out of storage room or rail spur for more filling. Has 5 cars available for tomorrow & 4-5 cars avail for Thurs. Not sure for Friday yet. PE notes he is completing manifests today

The following production occurred yesterday:

Date	# Loads trucks	Total Expired	1st truck out	Last truck out
4/8/96	76 ^{CF} 18	340 tons 384	8:40 AM	3:50 PM 4:30 PM

1620 CF offsite

CA Galloway

4/9/96

6" snow in AM 43°

- 0700 CF into site 2. Excavation continues ^{27x33} along southern border.
Two preloaded trucks out
- 0830 CF to railyard. Three railcars @ site — 1 full, 2 empty.
Trucks have unloaded.
- 0920 CF back to site 2 after picking up sample supplies. Sample
paperwork filled out earlier in AM.

Sonny's truck is down in broken tarp support.

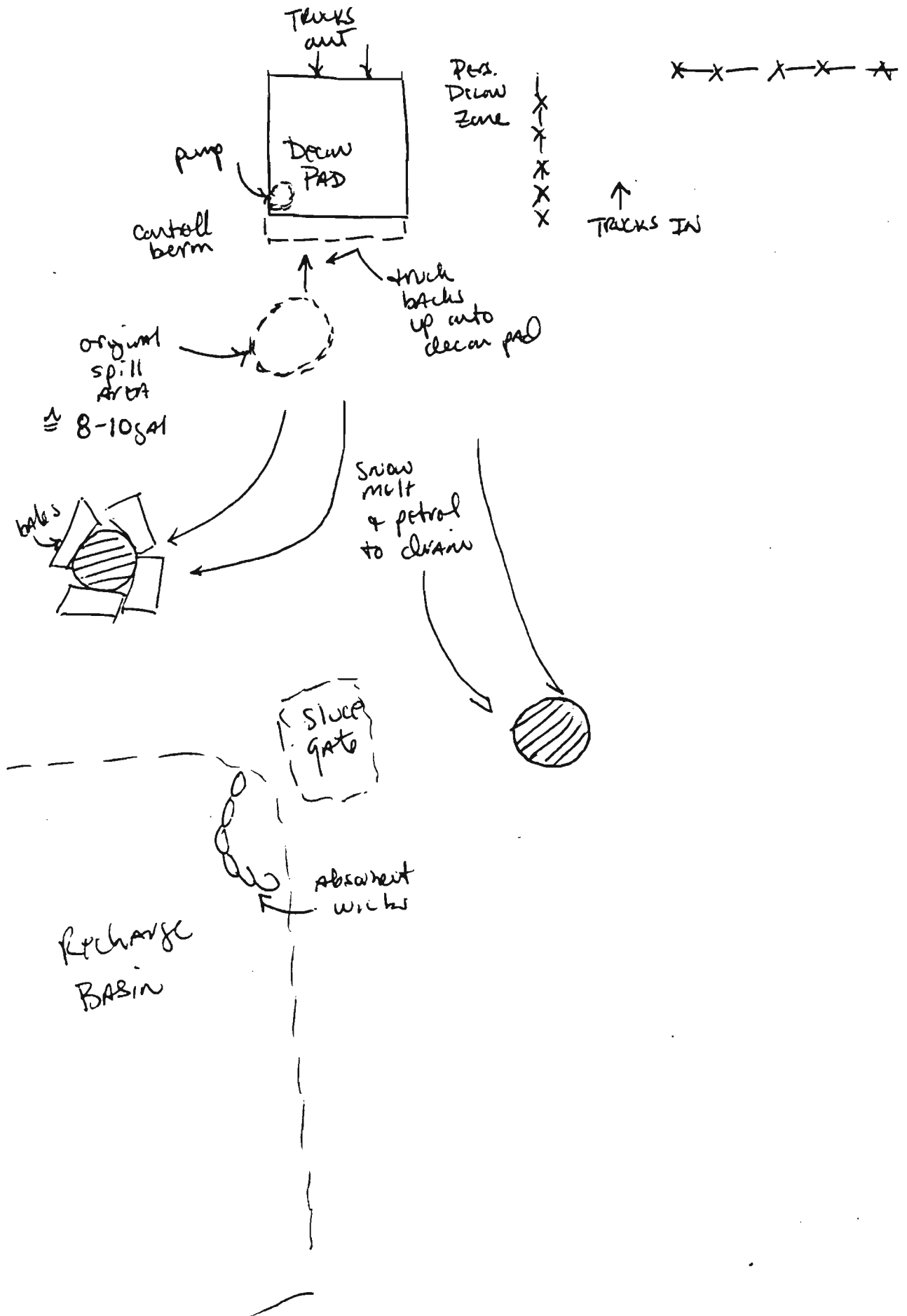
CF watches Dale's truck drive over decan pad lip & puncture
the fuel oil tank. Fuel oil pouring onto melting snow
outside decan pad. CF advises trucker to position
punctured tank over decan pad & then use plastic
container to capture flow. Some visible fuel seen
flashing on water into storm discharge drain. CF surrounds
drain in hay bales as absorber. Area is covered by
2-3" water & melting snow.

- 0950 B. Delaney advised as arrives @ site. He returns from trailer
or Absorbent wicks & locates ^{Storm} drain in the flow.

Steady flow of water with sheen into storm drain. CF
checks nearby sluice gates into 2 large retention ponds.
Sheen seen in water down in the well & gate system
going into retention ponds. Trucker advises CF that
he estimates 8-10 gallons of fuel oil lost. Decan pad
pump on & heavy patrol in this area is pumped into
drums. Another layer of silt placed over the exit
bump to prevent further tank punctures. Flow into
drain of melting snow & water estimated at 15-25 gpm.

CA Gamm

4/10/96
CF



Two large pools of water to been have collected
 over a drain because of wicks in drain. Surface soil
 storm
 outside decan pad & over into the truck entrance
 AREA is covered by been of petrol.

- 1050 CF over to ROIC to advise A. Tammara of spill. AT phones
 Common & spill response.
- 1125 CF back to site 2. Common Corp. spill response team @
 Site to wicking sheets to absorb oil. ~~Common Environmental~~ CF
~~Controlled off site~~ ~~Area~~ ~~A~~
- 1145 B. Doherty returns to site 2. Common Environmental Control
 office arrives @ Site. Advise BD to put Absorbent wick
 in the catch basin (recycling basin) to capture any oil
 spilling out through the sewers. B. D. notes he will scrape
 6-8" soil from driveway over & apply sand dikes to
 control H₂O. Decan water from pad being drained.
- 1200 A. Tammara arrives @ site to office mate of Abe. Renew
 cleanup operations. Trucks are no longer being loaded as
 equipment is being used for cleanup
- 1220 AT & Parker leave site 2
 CF assists with cleanup operations, water control
- 1400 CF leaves site 2. Site work under control. CF
 goes to get analytical results for yesterday's samples

C.A. Humb

4/12/96

Folowing analytical results were found: Field screen samples by FW

<u>Date</u>	<u>Sample Location</u>	<u>PCB conc.</u>
4/9/96	1	13.8 ppm
4/9	2	Now Det
4/9	3	3.7 ppm
4/9	4	1.9 ppm
"	5	2.9 ppm
"	6	N/D
"	7	20.8 ppm
"	8	3.0 ppm
"	12	N/D

Action level is 10 ppm areas by #1 + #7 will have to be further excavated.

1430 CF back to site 2. A Therman + Steve Holman are at site 2 reviewing excavation + site work

1450 AT + SL leave site 2

1500 Working meeting is held in ROTCL office

- Attendees:
- Steve Holman
 - A. Therman
 - C. Frakes
 - B. Dolhany
 - C. Polios
 - L. Niles

- Bill Dolhany gives CF spill number from Grumman to be used for characterization: 9600467
- B.D. notes that state NY DEC has been notified + will arrive @ site 2 on Friday or Monday

CA Gammal

4/10/96

B.D. notes no visible sheen on recharge basins. Notes 8-10 gal fine oil spilled. Laidlaw & Wills trucking were notified by B.D. of spill. The decan pad is still fine & working. Soil contaminated by oil will be placed on liner in separate pile in the excavation area. Excavation of PCB-soils will continue again tomorrow.

B.D. & C.F. review sample plan for large pile of clean soil (pile B). 5 field test samples were collected & analyzed as 1 composite sample in trailer. All 5 samples were collected from the surface of the pile. C.F., L.N. BD and other members agree that some samples should be collected from depth in pile. A.T. & S.L. note that soil is from street sweeping, recharge basins & other sources. L.N. notes that volatiles, semi-volatiles, metals analysis to TCLP shall be also analyzed as next series of composites collected from pile.

The 2 other clean piles will not have to be analyzed further as PCB concentration is satisfactory & all that has to be done.

C.F. asks B.D. to check w/ H. Lazarus to see if a minimum tonnage of 85 tons is charged to Navy even if less than 85 tons is contained in rail cars in Utah. ^{Utah} C.F. B.D. agrees.

B.D. notes that he has requested Laidlaw to supply trailer trucks to replace layer dump trailers for diversion of job. Trailers have rated capacity of ~~73,000~~ 73,000 lbs. Trucks should arrive for use on Monday.

C.A. Gammal

4/10/96

AT notes that in today's work market #142 was missing. BD notes that truck 138 (same) was lighted up & then his dump broke. Consequently truck #138 never got loaded & was stayed only @ site 2. Market 142 will be corrected by B.D.

AT notes to B.D. that Nay should not incur any expenses due to clean-up. B.D. agrees & notes Nay was charged for 3 hrs shpping in AM. Callan is responsible for clean up costs.

CF shows map of excavated area & sample points. BD notes that approximately 60% complete in excavation. BD estimates that excavation of Site 2 should be completed by Friday 4/19. Backfill of clean areas of excavation will occur while other portion of Site 2 is being excavated.

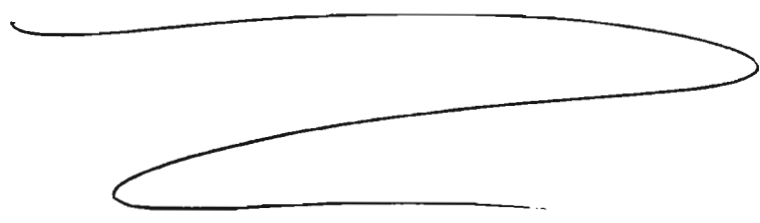
16:15 meety adjourned.

CF
~~4:30~~
16:30

CF visits site 2 clean up. Site work almost finished for today. Sure work to be completed in AM tomorrow.

CF
16:45

CF aff'ls -



Callan

4/10/96

August 35°

0700 CF into site 2. Site workers are still ^{CF} grading truck entrance area & hauling out petroleum contaminated soil pile located in entrance to site 2.

CF passed out copies of week 2 reports to all parties yesterday.
CF passes out all copies of week ~~2~~ 3 reports today.

0730 P Embrosia arrives @ site 2 notes that Sawmays trailer should be fixed this AM. Four rail cars available today for filling today. More rail cars on 2nd spur, but rail co. comes to more cars @ 09:30 so probably all 4 cars filled today.

10:00 Workers finish site 2 clean-up & reconstruction of oil spill @ this site. Backfill of hole created by excavation of oil contaminated soil continues.

Truckloads of soil removed from site 2 containing oil:

<u>Date</u>	<u>Truck</u>	<u>Tons soil</u>	<u>Time out</u>
4/11/96	Ed - trailer #489	21	7:48 AM
4/11/96	Creg - trailer #446	21	8:10 AM
4/11/96	Dale - trailer #346	22	8:33 AM
4/11/96	Ed	22	9:16 AM
4/11/96	Creg	22	9:42 AM
		<u>108 tons</u>	

Dales most load of soil was from PCB pile

10:10 Joe begins backfilling hole for petroleum soil.
10:30 Joe finishes backfilling petroleum soil hole.

Sawmays trailer not fixed yet trailer #439
At C. Farkos' request, B. Delaney notes that his people confirm that existing manifests w/ PCB indications will be fine for closed fuel soil.

CA Farnell

4/11/96

- 1115 Sawys truck # 439 back up & operating. Four trucks running again.
- 1215 S/W/L. Miles regarding sampling @ Site 2.
 Pile B will be sampled in 5 separate locations from depths of 2-3 ft below surface. Samples will be analyzed for full suite including TCLP.
- Two hot locations #1 & #2 in excavation area will be sampled after excavation. The other 6 locations can be resampled as well.
- 1330 S/W/M Spurnea to conf. in FW sampling plans of pile B. Spurnea notes that sampling plan seems satisfactory for pile. CF notes issue of cross contamination of clean areas during excavation. Spurnea advises to talk to B Dolhany & A. Thomas
- 1400 CF S/W B. Dolhany notes that excavation equipment is ^{driving} ~~driving~~ ^{of} bottom of contamination indicated on the map. Equipment goes from non-contaminated to contaminated & back when excavating & filling trucks. Also see notes p 115. Bill notes that Kyle to control & that he will scrape surface layer off site after backfilling is finished.
- 1445 CF to A. Thomas file to check on truck manifests & release of cross contamination situation. AT in meeting so not told.
- 1450 CF back to Site 2 to see soil piles of ~~B~~^{CF} PCB soil being stockpiled in new location on site 2 - no plastic underneath. CF notes to BD that this may be clean area on map. CF advises M Spurnea to ^{CF} ~~see~~ ^{see} H. Thomas phone

CF Thomas

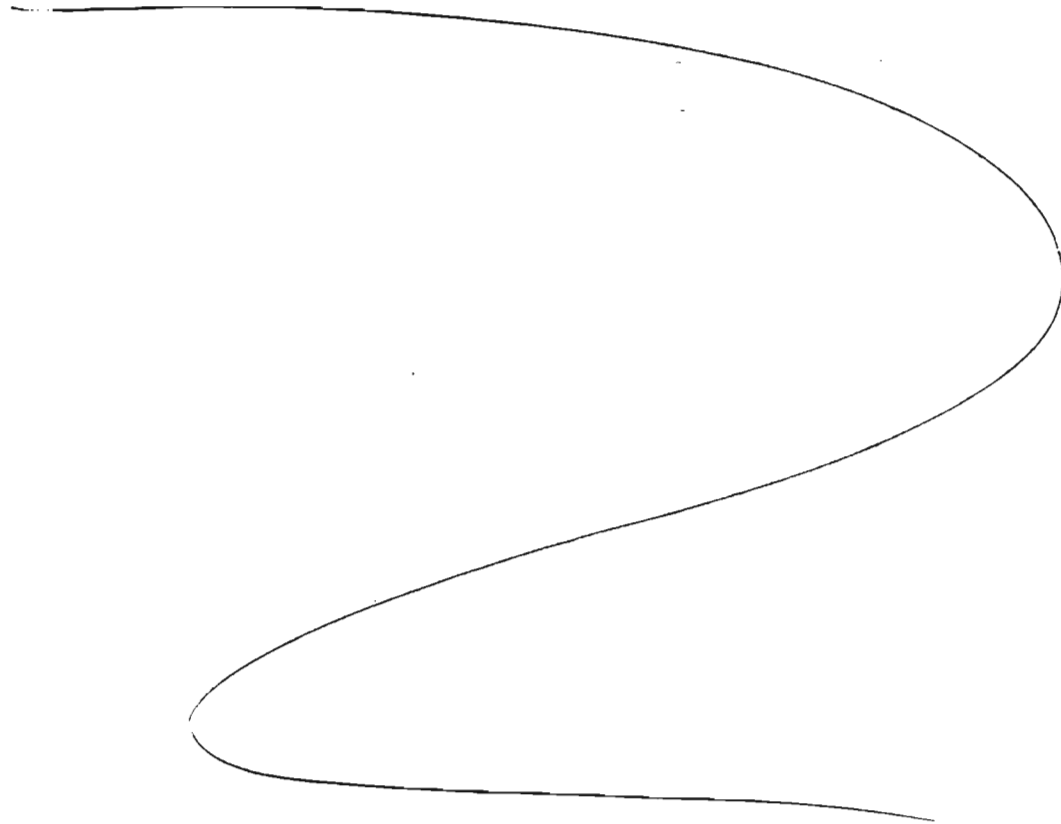
4/11/96

1550 workers finishing up bar today. Two trucks preloaded for tomorrow.

1600 off site for evening.

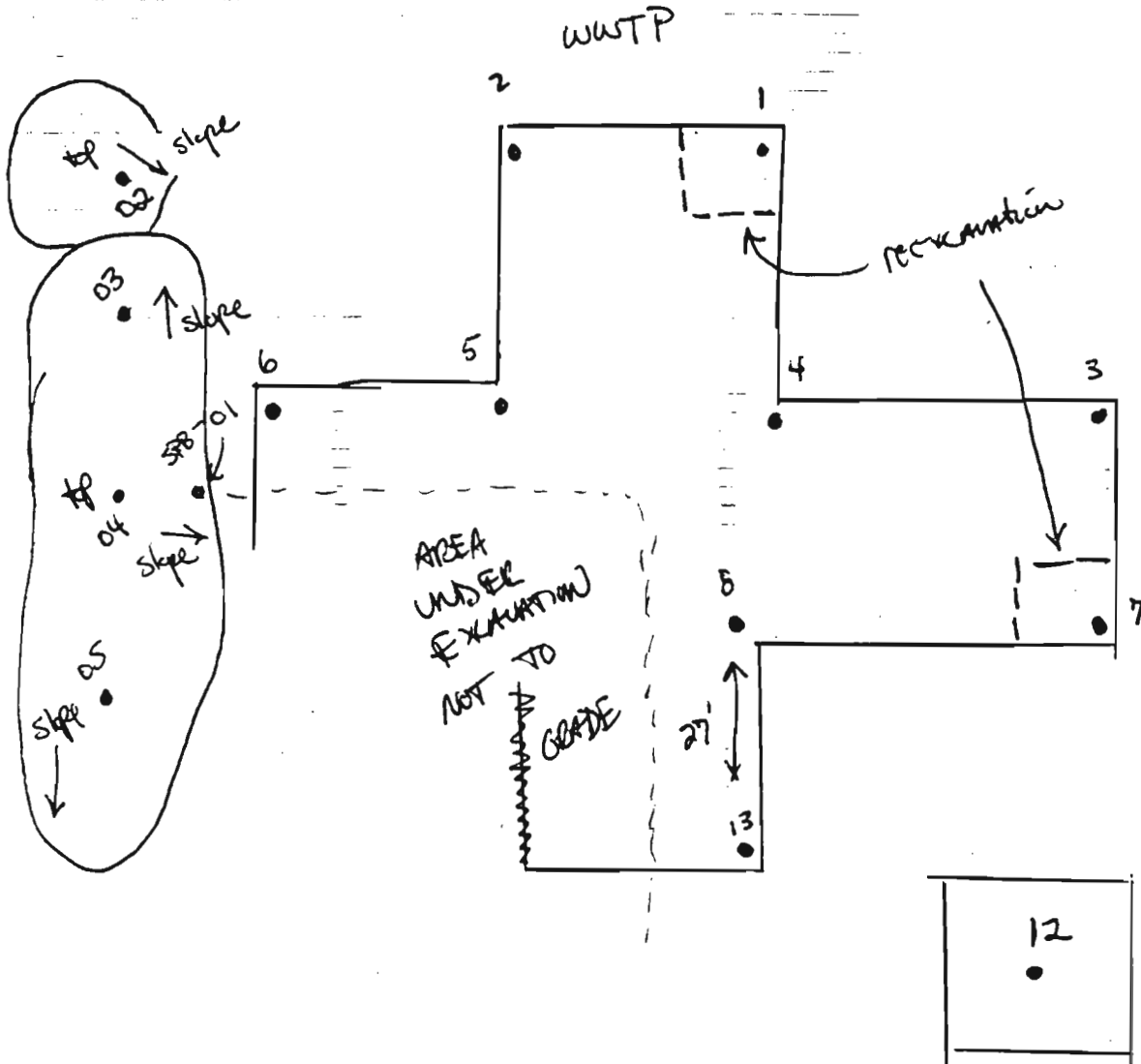
The following excavation reports were collected from the night tickets:

<u>Date</u>	<u>number reports</u>	<u>tons shipped</u>	<u>1st truck out</u>	<u>last truck out</u>
4/9/96	14	304 300 tons of	8:04 AM	3:39 PM
4/10/96	5	106 ton	9:14 AM	11:41 PM



CA Samuel

4/11/96



Sunny 65°

0700 CF into site. Trucks are being loaded from the large stockpile of soil located @ the rim of excavation.

0730 Because field screen samples #1 + #7 were above 10 ppm limit (see pp 149) These 2 locations were reexcavated to remove residual PCB contamination. (See diagram pp 160). Each reexcavation was approximately 10' x 10' x 2' deep. All points 1 → 8 were then resampled by FW field test kit. Also, CF located sample point #13 & FW sampled this point as well (See also drawing pp 142)

CF prepares sample bottles for collection if all FW come back below 10 ppm.

1000 The following analytical results were found by FW field test kit

<u>Sample Date</u>	<u>Location</u>	<u>Conc. PCBs</u>	
4/12/96	1	17.8 ppm	EXCEEDS 10 ppm limit
4/12/96	2	ND	
4/12	3	5.2 ppm	
4/12	4	6.8	
4/12	5	1.8	
↓	6	1.0	
	7	5.9 ppm	
	8	4.9 ppm	
	13	4.5 ppm	

Because #1 exceed 10 ppm this area was reexcavated again over a 10' x 10' x 2' area & resampled again at the same location

~~Sample Date~~ CF

CA Flinn

4/12/96

1200 FW arrives to field test kit to resample #1 again after reexcavation.

Also, FW collects 5 ~~ft~~^{CF} samples from 2 portions of clean soil pile B for shipment to Lab + full suite of analyses. (See diagram pp 160) for approximate locations

<u>sample #</u>	<u>sample depth</u>
SPB-01	3 ft
SPB-02	3 ft
SPB-03	3 ft
SPB-04	3 ft
SPB-05	5 ft

Samples to NYTEST ENV. in Long Island. RCRA ^{parameters} TCL, TAL, TCLP tested for

FW reconstructs the ocean to a fresh surface layer.

1330 FW reports analytical report for sample #1 collected after 2nd reexcavation

<u>Sample Date</u>	<u>sample location</u>	<u>PCB conc</u>
4/12/96	#1	ND

1335 CF goes into site to collect samples (confirmatory) for shipment to Quantova Labs.

Ch. Hurrell

4/12/96

CF. Braun Carbonatoy Samples (See Diagram p 160)

<u>Sample Date</u>	<u>Sample ID</u>	<u>Sample Location (D. #)</u>
4/12/96 ↓	S2 S2 - A - 01	1
	S2 - A - 02	2
	S2 - A - 03	3
	S2 - A - 04	4
	S2 - A - 05	5
	S2 - A - 06	6
	S2 - A - 07	7
	S2 - A - 08	8
	S2 - A - 12	12
	S2 - A - 13	13
	S2 - A - 29	Duplicate of S2-A-03
	S2 - A - 30	MS/MSD

No dexas required as disposable equipment used throughout

1500 CF finishes sample collection & sample packaging for Fed Ex Saturday delivery.

1530 CF start B.D. He notes that Landstar may be taken off the job for good. Chemists may be taking over job in their trucks. B.D. notes that this is not finalized if Landstar is negotiating.

B.D. crews sampled portions of site in plastic for weekend. Wills trucks left @ site for weekend.

B.D. notes that he replaced Navy sand. Shows CF. receipt for 25 tons of sand delivered to Salt Barrow.

CF General

4/12/96

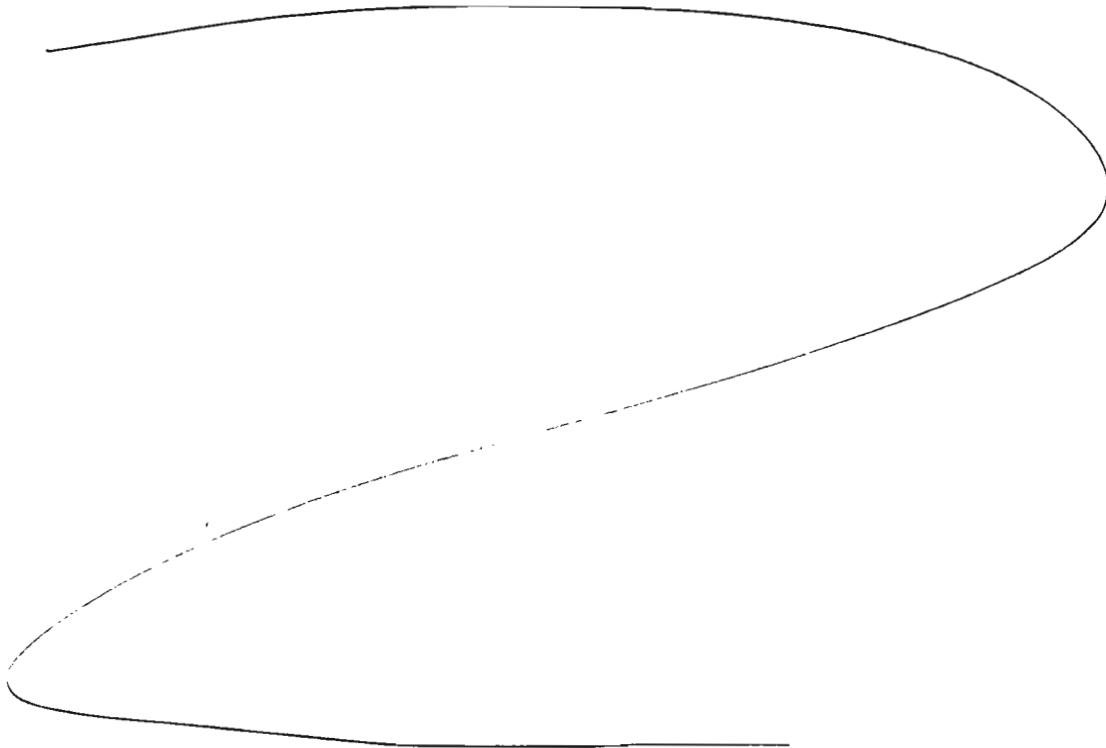
The following shipping data was recorded:

<u>Date</u>	<u>No trucks</u>	<u>Tons Soil Shipped</u>	<u>1st truck out</u>	<u>Last truck on</u>
4/11/96	17	373 tons	7:48 AM	4:09 PM
4/12/96	12	264 tons	7:31 AM	12:47 PM

No more trucks were filled on 4/12/96 as all rail cars were completed.

Total loads to date:

175 trucks moved 3762 tons soil from Site 2 since the start of the job till today.



C. J. Starnes

4/12/96

Sunny 60°

0700 CF into site. Excavation continues in ARCA of SB-58 & SB-57. Three wills trucks @ site. Greg's truck broke down this AM. P. Embrosia comes @ site + after few minutes leaves. I will see @ RR.

0800 CF to railyard. Note 3 empty railcars available @ dump ramp. P. Embrosia notes that LandTaw plans to substitute wills trucks with 4 other trucks driven by local union workers. These trucks are permitted to carry heavier loads on the roads. P. Embrosia notes that in addition to 3 railcars, a large additional group are stored in the staging ARCA.

0900 CF to ROTCC office. Deliver manifests. Note site conditions + plans for excavation for week. Show Al & Bob map of site, sample points. Give them copies of the map.

0935 CF to phone M. SWANZEL, travel service, lab

CF speak D BRENNAN @ Quattera. Dave notes that samples were received on Sat. Notes sample S2-A-30 is MSDS is being treated as separate sample. I note not collected from one of my sample points. Recommend therefore using S2-A-01 to derive MSDS sample from a careful analysis of S2-A-30. Dave agrees to careful # S2-A-30 & agrees to do MSDS generation on S2-A-01. Notes little extra work but will not cause any validation problems.

1130 CF back to site 2. Greg McLeod not @ site to pick up truck bed. Three trucks running today.

1430 P. Embrosia advises truckers to decum beds @ site 2. Wills trucking is to be replaced on the job by a local union trucking shop. All truck tires, beds being decum on site 2 pad.

CA Gaud

4/15/96

1545 Last of wills trucks decaned & off site 2
Waters ready to go off site

1620 CF off site

CF [Signature]

4/15/96

Douglas 53°

0700 CF into site 2. Heavy rains. lots of runoff.

0730 Union trucks arrive @ site - P. Embrosica.
The following tractors & trailers set up are made:

	<u>Tractor</u>	<u>Trailer</u>	<u>Driver</u>
1.	95 - 846	8085	Jim Byrne
2.	94 - 301	2	Bob Donnelly
3.	94 - 319	6	Cliff Sicker
4.	89 - 1	8084	Steve Arthur

According to P. Embrosica each truck is permitted to haul
@ gross weight 120,000 lbs.

P. Embrosica will placard each truck properly &
assure that sharps are properly placed.

Excavators begin to fill trucks from stockpile
B. Dolney reviews site activity & route to drivers.

0800 1st trailer goes to scale for heavy weight.
B. Ingram checks back sharp. Finds it to be mesh
not plastic. Learns from P. Embrosica about all
sharps are mesh. B. Ingram prohibits trucking.

0820 P. Embrosica into ROTCC office. B. Ingram tells
P.E. that no trucks will roll on any rainy day
- mesh sharps. P.E. notes to B. & C. Farnes that
ample supply of cars in the yard for today.
C.F. requests manifest #65 copy for ROTCC.
P.E. delivered photos of Utah manifests 1 → 106
for attachment to Navy copies. P.E. to find out
if ROTCC should be mailing out copies to state

CA Farnel

4/16/96

0900 Carter to Lampow. BF advises no excavation today.
to B. Dolbowy. B. Dolbowy advises orders to prepare
erosion control of site.

Hay bales placed around PCB soil pile located in
clean area of site. B.D. notes not enough plastic
to cover.

B.D. directs track hoe into AVCA near waste water
plant to control runoff & erosion of banks.
Additional runoff control tracks are excavated in
the area. Track hoe enters the area by driving
over "clean" part of site. B.D. notes bank
erosion & cone ins occurring in this area.

C.F. notes to B.D. that CF may want to find
swamp sample locations & clean soil locations
prior to backfilling. B.D. ~~and~~ CF agrees.

1100 CF to Race to advise BF of days work.
Laborers set to leave site for day.

Cot Gammal

4/16/96

Overcast 35°

0700 CF into site. Excavation continues along western edge of Site 2.

0745 Trucks go to scale for heavy weight & delivery to rail yard. B. Ingram requests to see hauling permits for each of the 4 trucks. Permits not readily available. B. Ingram delays truck pickup until scale truck can produce permit for 120,000 lb hauling. Permits license numbers must match plates on trucks.

The following trucks are scheduled today:

<u>Driver</u>	<u>Tractor No</u>	<u>Trailer No.</u>
Bob Deanehy	94-301	2
Joe Carterish	95-363	6
Jim Arthur	91-752	5
Dave Croner	89589	8084

0810 B. Ingram inspects wet sharp being used on trucks. Nothing not properly placed over top of soil. B. Ingram sends truck back to site 2 for proper fitting.

0900 CF visits rail yard. Picks up photocopies of manifests. Advises railroad workers to stop using front loader to level tracks in ~~excavations~~ ^{LAYS} as some of soil is being spilled onto ground.

1010 CF back to Site 2

CA Hauer

4/17/96

1215 CF gets permits from B. Dolhoney for truck 94-301 and 95-363 which were simply want a permit. Photocopies of registration extension (IRP) received by B. Dolhoney & given to C.F. Co. ROICC. C.F. given to B.I. Trucks are satisfactory & run.

The following shipping information:

<u>Date</u>	<u>No Loads</u>	<u>Total Tons</u>	<u>1st Truck out</u>	<u>Last Truck out</u>
4/15/96	12	260 tons	2:33 Am (176)	2:07 Pm (18)
4/16/96		No loads run due to rain		

1400 Trucks continue to run.

1530 3 Trucks preloaded for tomorrow. Beds parked over the hot area in case of rain.

1610 CF applies for only

CA Y. [Signature]

4/17/96

Sunny 55°

0700 Walkers excavate AREA in SB-57. Walkers setting grade.
B.D. notes that may be able to sample on 4/17/96.

Two trucks w/ automatic conveyor strips covering soil
Two trucks w/ manually ^{applied} Applied & removed mesh strips

Following load information

<u>Date</u>	<u>Tot trucks</u>	<u>Tot tons</u>	<u>1st cost</u>	<u>1st amt</u>
4/17/96	19	601	7:44 (189)	3:46 (207)

0945 B. Ingram Arrives @ Site 2 to view operations. Looks @ extent of excavation. B. Dolhany notes that drums are supposed to be removed by Landstar from Site 1 + Site 2. D. Andite notes he unaware that must use union labor to remove. B. Dolhany may use Site 2 laborers to prep drums for removal to railroad. B. Dolhany notes excavation may be completed tomorrow. Joe to be up to field screen.

1000 B. Ingram leaves Site 2

1200 Driver from SBT arrives @ site to drive trailer 8095 back to truck yard. Trailer backed over decar pad & pramped out.

1235 Trailer off site.

1300 Excavation continues in hauling

[Signature]

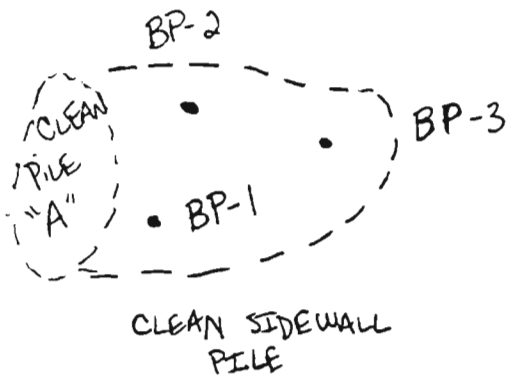
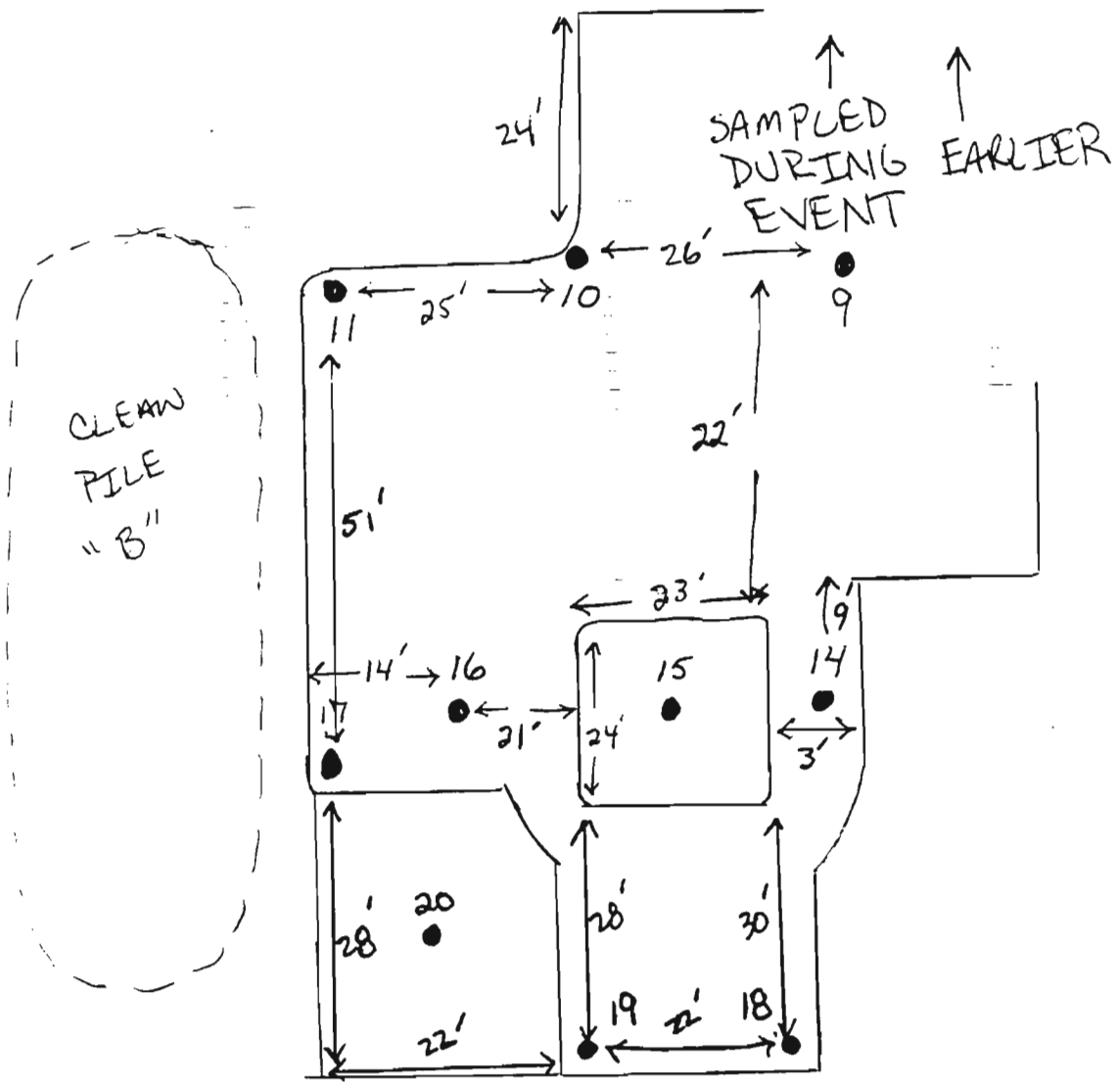
4/18/96

1330 C.F. slw B. Delaney + T. Eubrosica @ S:to 2. The filling items are discussed:

1. B.D. asks CF to check w M. Speranza to make sure soil p. to "B" can be used as backfill. Change to ^{CF} Speck spec. C.F. tells Speranza, Speranza notes he will verify w S. Lehman. Sees no problem.
2. ^{CF} Drill cuttings from S:to 1 will be moved to S:to 2 in drums. ^{PCB} Soil out of drums + dumped into PCB pile @ S:to 2. Drums crushed + delivered to soil to RAILYARD. Soils from S:to 1 < 500 ppm except for 1 drum. Mixing will reduce concentration.
3. PPE from S:to 2 will be bagged + delivered to PCB soil to RAILYARD.
4. Decm water from S:to 2 removed from drums @ S:to 2 + mixed w PCB soil from S:to 2. S:to 2 soil to RAILYARD.

C A Gaudin

4/18/96



NEW SAMPLE POINTS
4/19/96 ●

P. Sunny 60°

RFCD
BC

0700 CF into Site 2. Excavation continues in AREA of SB-62, SB-63. CRADCS completed in other portions of site. H LAZARUS on site 2 this AM. See work.

0800 H LAZARUS leaves Site 2

0815 CF into hole to place pin frags for F.W. field screen samples. Pin frags located for samples, 9, 10, 11, 14, 15, 16. (See diagram p 184)

0900 FW field crew arrives @ site 2 to collect field screen samples @ 9, 10, 11, 14, 15

1000 CF into ROICC office to review manifests. After looking over each manifest copy #4 & #3 CF notes that manifest 188 is out of sequence. It has been voided. All other manifests have DR EPA ID correct, sigs correct & dates correct.

Manifest copy #3 Fed Excel to:
Utah State Div of Solid + Haz Waste
P.O. Box 14480
Salt Lake City, UT 84114-4880

Address as per P. Embrosic
Manifest copy #4 Fed Excel to:
State of NY Dept of Env. Cons. Div of Haz Subs. Reg
P.O. Box 12820
Albany NY 12212 AS per Address @ top of manifest

CA Gaud

4/19/96

1030 Weekly meeting begins

Attendees	C Fuchs	B. Dolhany
	A. Taoramina	C. Polias
	B. Ingram	H. Lazarus

The following items were discussed:

1. CF notes ROICC manifest 1 → 175 mailed Fed Ex today
2. CF notes to B Dolhany + H. Lazarus that ^{JBT trailers} what ~~will be~~ of Rail yard bucket + rail yard hopper not be demed. B Ingram notes he does not trust Laidlaw to dem. H.L. agrees to assume that Navy is given release of liability for dem of these items. Cost is responsibility of Laidlaw. H. Lazarus notes that since Laidlaw proposed to use ^{rail yard} ~~dem pad~~ for additional work, Post-Whelan will not cover demob costs @ ramp + yard.
3. Navy ROICC suggests possibly main rail spur into base. H.L. agrees to look into it with Laidlaw.
4. H.L. + B. Dolhany note that they will demob Site 2 equip, but NOT trailers. F.W. will fix here by WWTP + replace gravel ^{CF} dug up in that AVCA. The here by Site 1 will not be excited again.
5. B. Dolhany notes that in order to cut down on shippin in bill for Site 2, he will cut up to 3ft deep of berm separately recharge basins + "hot zone" here to put into hole. Notes he will fix drainage direction in this area of excavation.

Ch. Ground

4/19/96

6. CF notes that field screen samples should be used to confirm that Areas in hot zone where screen + equipment moved + under PCB pile are not above 10 ppm level for PCBs. Also CF will locate 3 pin flags in soil piled onto pile of BA from sideslopes. This soil should also be sampled to assure that < 10 ppm Arbin level. H.L. + B. Delany agree to do B.D. notes he will scrape 2-3" from hot zone area where trucks moved. CF notes not to mix in soil from outside hot zone. (Diagram)
7. H.L. notes that CF must get exception letter so pile B can be used as backfill. Exception letter should note that ok if soil is not from off-site; also that ok if soil does not match geophysical parameters noted in design. H.L. will test pile B for geophysical parameters. B.D. will contact when applying.
8. B.D. notes that liquid in drums @ site 2 will be spread over PCB soil pile @ site 2. Drums here + drum by B&R outside site 2 + drums from site 1 will be sent to soil to rail yard. Site 1 debris cuttings + drums will be also mixed with site 2 PCB soil for delivery to rail yard.
9. Survey will be done on Site 2 on Monday or Tues. Topo survey @ base of hole. Backfill equipment ordered for Tuesday + 1 more operator for sackfill.
10. Mesh traps must be replaced for Site 1 week. Must have ramproot traps for rain tracking. No rubber traps no operate.
11. H.L. received preliminary field sample results for Site 1 + outlined extent of contamination. More information to follow as details develop CF develop.

CA Gaudin

4/17/94

1200 CF back to S. 62. Excavation not completed so no more pin flags located. CF locates 3 pin flags in soil pit by pile "A". B.D. agrees to have Joe locate last 4 pin flags for sample locations once excavation complete today. CF instructs Joe. CF must leave for Pitt for funeral.

1330 CF offsite for pitt.

Following soil excavation #'s

<u>Date</u>	<u># Trucks</u>	<u>Tons</u>	<u>1st truck out</u>	<u>Last truck out</u>
4/18	14	429 tons	(205) 8:27 AM	3:20 PM (221)
4/19	15	454 tons	(222) 7:38 AM	2:40 PM (236)

Total for week: 1744 tons by 60 trucks.
 Total for jobs to 4/19/96: 5506 tons by 235 trucks.

CA Howard

4/19/96

Sunny 70°

0700 CF into Site 2. Excavation is completed for entire hole. Soil bag removed from stockpile + sent to yard by JBT. Same 4 trailers still in use.

0800 CF takes samples for last week. The following analytical results for samples shown on figure (pp 184)

<u>sample</u>	<u>tot PCB conc</u>	<u>Field Screen Results</u>
9	2.8 ppm	←
10	3.1 ppm	
11	1.5 ppm	
14	2.5 ppm	
15	2.1 ppm	
16	3.6 ppm	
17	4.3 ppm	
18	2.0 ppm	
19	13.5 ppm	
20	2.7 ppm	
BP-1	2.5 ppm	
BP-2	2.3 ppm	
BP-3	7.1 ppm	

Soil # 19 > 10 ppm Action level this area will be reexcavated. All BP-# < 10 ppm soil can be used as backfill w/ pile "A" + pile "C" soil

0945 CF to prepare sample bottles + make phone calls.

1100 P Embrosia to Site 2 to look over remaining ~~soil~~ ^{soil} pile + estimate railcars removed. Estimated ^{soil} CF additional 11 cars required. Also visits ROICC office to explain list manifests to return from Utah - CF into ROICC w/ P. Embrosia.

CF [Signature]

4/22/96

1220 CF watches drums being moved from Site 1 to Site 2 for disposal & destruction. Process as noted earlier in 4/15/96 notes. Total drum count by CF

Site 1

Drums filled w PCB seal	178 drums
Drums filled w decon H ₂ O	49 drums
Drums filled w sample jars	1 drum
Drums empty	2 drums

Drums filled w decon H₂O also contains hexane rinse. These drums will not be brought over to Site 2 for disposal. Must be handled separately by Landlaw Accordly & B. Dolhany

1330 Top of FW arrives @ site 2 to collect samples. Will collect field screens @ sample location #19 & #13 based on sample results for FW reported p 193 & repeated below.

CF speaks to Quantara Labs. Faxed results to R.

Simcik also updates CF of the following analytical

results for C.F. Brown samples collected 4/12/96 (pp 165)

	PCB conc μ g/kg		PCB conc μ g/kg
S2-A-1	1000	S2-A-12	110
S2-A-2	170	S2-A-13	19000
S2-A-3	6700	S2-A-29	5600
S2-A-4	3000		
S2-A-5	1100		
S2-A-6	190		
S2-A-7	8600		
S2-A-8	4100		

- All detailed concentrations
AVE for Aroclor 1248
All other forms of PCB
AVE not detected.

CA General

4/22/96

Based on these analytical results from C.F. Braun + based on field screen results for FW, sample areas #13 + #19 must be reexcavated. B. Doherty instructs men to reexcavate approx 10ft x 10ft x 2ft deep area in each sample location.

Joe of FW recollects field screen samples @ locations #13 + #19. The following analytical results are obtained:

<u>Field screen sample location</u>	<u>PCB conc</u>
#19	3.2 ppm
#13	7.0 ppm

Since both results are < 10ppm action level CF collects confirmatory samples @ all locations listed below:

<u>1600 Sample ID</u>	<u>Sample location (diagram pg 184)</u>
S2-A-09	9
S2-A-10	10
S2-A-11	11
S2-A-14	14
S2-A-15	15 (2)
S2-A-16	16
S2-A-17	17
S2-A-18	18
S2-A-19	19
S2-A-20	20
S2-A-30	Duplicate of # 16

ms/msd sample also collected

1745 CF packs sample + leaves site for Fed Ex

C.A. Flannery

4/22/96

Sunny 70°

- 0700 CF into Site 2. Transfer & destruction of Site 1 drums to Site 2 continue today.
 Site 2 soils are being loaded from the stock pile @ Site 2 & shipped to rail yard. Trailer # 8004 is staged @ Site 2 & is not being used as the tractor broke an Axel @ \approx 1630 yesterday. Under repair off site now.
- 0800 CF to ROTCC office to show ROTCC the 35 day manifest deadline from the UTAH facility. Current manifests 1 \rightarrow 5 are not back from Utah. The soil left NY facility 3/25/96. D. Ardito & P. Embrosia H. Lomas & B. Dolhany aware of issue. Also these men informed of issue regarding weight difference on the manifests & the certificates of disposal.
- 0900 CF start H. Lomas @ Site 2 by phone. discuss manifesting. CF to trailer to Phone Pitt.

Following data collected from weight tickets:

<u>Date</u>	<u>trucks</u>	<u>Tons</u>	<u>1st out</u>	<u>last out</u>
4/22/96	17	534 tons	(233) 7:39	4:49 (253)

According to B. Dolhany 12 buckets of soil removed from pile B to recreate drainage catchment trench below pile B + excavated area

Ch. G. G.

4/23/96

1130 CFarnos phones J Treprowski @ Wayne office to review the following items because M. Speranza is on vacation:

1. It is proposed by FW to use clean piles A+C as backfill for the excavation. CF recommends that the piles be sampled prior to backfilling. H Lazarus notes that preliminary samples collected during site characterization indicate that clean piles A+C should not contain PCBs > 10ppm. H Lazarus & B. Delaney propose using field screens as analytical determiner if piles contain PCB > < 10ppm. CF notes that field screens is not equally accurate for all PCBs or for all hydrocarbons as noted in phase investigation re Rapid Assay (see enclosed literature). CF requests action item: collect lab analyzed samples, use field screens, use notes, what is S. Lehman's responsibility? what is S. Lehman's decision?

2. According to C.F. BRAUN's specific spec, backfill must meet requirements listed on pp 1-6 of section 02250 of C.F. BRAUN spec June 1995. It is proposed by H. LAZARUS & B. DELANEY to use pile B as soil @ backfill. According to A TREVONIA Pile B is derived from numerous sources at the base. HL & BD note that full suite of analysis to be done by FW on this soil. Also geophysical parameters. This pile violates portions of section 02220 CF ~~spec~~ section 2-2 section 3.4. Who directs approval to violate C.F. Braun spec? CF needs guidance

3. PCB soil is currently being excavated & stockpiled on site for loading & transport offsite. This started 3/25/96. According to section 3.4 of 02220 no more than 30 days can elapse. Who can furnish CF with approval to violate this reg? Should this be noted to Wayne?

J. Treprowski advises CF to slow R. Simich & D. Brayach. CF slow RS & DB, Rob Simich is designated to coordinate answer to each of these items as per "in charge" memo by Speranza.

CF Gaud

4/23/96

CF slw R. Smith + RS agrees to coordinate these items w
S Lehman + J Tropanowski + keep CF informed of decisions.

1530 B. Delaney informs CF that H LIZANS received a verbal
approval to use piles A + C as backfill w no further
sampling. CF notifies R. Smith of decision immediately.
R. Smith to slw ~~CF~~ S. Lehman. CF at Site 2

1630 CF collects following totals for days work

<u>Date</u>	<u># trucks</u>	<u>Tons</u>	<u>1st truck out</u>	<u>last truck out</u>
4/23/96	16	506	(2:4) 7:31 AM	(26) 4:08 PM

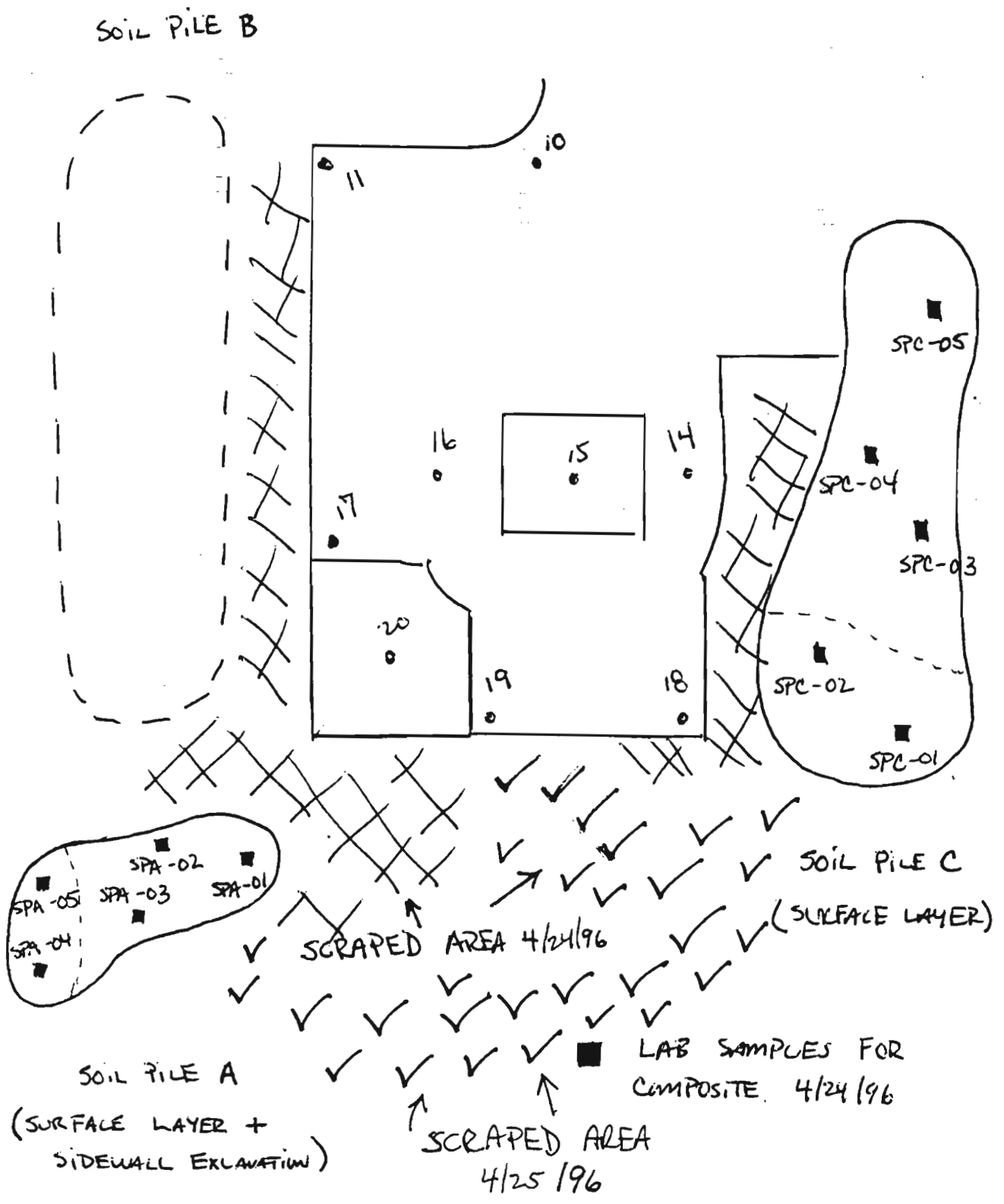
1700 B. Delaney informs CF that H LIZANS just notified him that
C.F. BIRN is to collect samples for lab analysis from piles
A + C according to S Lehman's directive.

1730 A. TACANNA arrives @ trailers to note some info to C.F. that
B.D. just indicated @ 1700 hrs.

1800 CF slw / R. Smith who reiterates some info noted above @
1700 hrs. RS notes that Lehman authorized 5
samples from each pile. All 5 samples are to be
composed by the labs for each pile while retaining
some distinct soil in each jar for additional
discrete sampling if the composite comes up hot.
CF to collect samples tomorrow. RS notes SL will
not act on pile B w decision on backfill till analytical
results are in for FW.

C. A. Hume

4/23/96



0700 CF into silo 2. Surface layer on bottom of silo 2 where equipment traveled is being scraped + piled into separate PCB soil pile for hauling off site. (See diagram p 204).

Truck tractor 89589 + trailer 8084 are being decmed + sent off site for good accordj to B.D. instructions.

Other trucks are hauling old PCB soil pile off site in drum debris. Drum transfer from silo 1 is complete
4/23/96

0800 CF to trailer to prepare soil pile samples accordj to directions by R Smith, S. Lehman, B Delaney + A Trammitt.

Soil pile A is comprised of surface soil scraped during initial job phases + sediment cuttings excavated during (p 140) later portions of the job (p 184). Both are now treated as pile A. samples BP-1, BP-2, BP-3 of 4/14/96 were never analyzed by FW @ trailer accordj to B.D.

Soil pile ^{CF} C is comprised of surface soil scraped during initial job phases as in pile A (p ~~140~~ ^{CF} 140)

The follow samples were collected by CF for delivery to Quantem Labs: (see diagram p 204)

SOIL PILE A

SPA - 01
SPA - 02
SPA - 03
SPA - 04
SPA - 05

SOIL PILE C

SPC - 01
SPC - 02 → Duplicate collected as per
K. Johnston, R Smith
SPC - 03
SPC - 04
SPC - 05

- No MS/MSD collected as per D. Brennan Quantem + K. Johnston

CA Samuel

4/24/96

Each of 5 samples from pile A + pile C will be composited into 1 lab sample → 1 for A 1 for C by the lab personnel. Also duplicate samples will be retained. 72 hr turnaround on 2 samples. CF notifies lab + D. Brownman of plans.

1000 CF prep to take samples

1200 CF finishes collecting samples + delivers to Fed Exp office

1220 CF back @ Site 2.

D5 dozer + small roller used today for regrading

1330 CF checks w B.D. to see if has raised questions regarding manifests for 2013. to telecon w B.D. in bit.

Trucks hauled for scraping of surface soil

<u>Date</u>	<u>Tons</u>	<u>Truck #</u>	<u>Truck out</u>
4/24/96	30	6 (Joe)	10:55 AM
4/24/96	31	2 (Bob)	11:06 AM

1500 CF, B.D., P Embrosic + B. Fygon meet to telecon w Randy Miller @ the Utah disposal facility regarding manifest questions.

1545 Meeting adjourned. will hold tomorrow during weekly meeting

<u>Date</u>	<u>Tons for day</u>	<u>total loads</u>	<u>1st out</u>	<u>last out</u>
4/24/96	436	14	(226) 7:36 AM	(283) 4:02 PM

1630 Tr. loads of JBT trucks are cleared + sent off site.

1700 CF off site

Col. [Signature]

4/24/96

103
433 198

CTO 212 BETHPAGE LOGBOOK II

Trailer (516) 576 - 8895
Fax (516) 576 - 1258

Mobile (201) 412 - 8299

H. LAZARUS (201) 842 - 7062

Art Holkom (215) 702 - 4000

Chery (201) 842 - 7118

Work continued from Page

0700 CF into Site 2. Excavation of the hole is completed 4/24/96. Stockpile of PCB soil is removed from Site 2 4/24/96.

No trucks @ site. All trucks offsite 4/24/96.

Excavator scraping traffic areas clean & placing scraped soil into site 2 stockpile. This final pile to be removed next week when confirmations for "clean" piles are received.

Workers moving straw bales from Site 2 to Site 1 & to CWTP AREA.

Front end loader moving gravel pile to Site 1 from Site 2

SIGNATURE

CA Gaud

DATE

4/25/96

WITNESS

DATE

1

Work continued from Page

Excavator big cleared after
scrapping all traffic areas of
S: 6 2

No sampling of scraped areas will
be performed as per instructions
from R. Simcik.

1030 Professional surveyors arrive today
to survey excavation area
boundaries + depths.

The following meeting minutes were
recorded:

Attendees:

B. Dolhany
C. Fathos

B. Ingram

A. Travnina

Randy Miller - Caltrans USPCI Inspector
in Utah (by telecon)

SIGNATURE

WITNESS

C. Fathos

DATE

4/25/96

DATE

Work continued from Page

After
exam of

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(y telecan)

REC to Page

DATE

4/25/96

DATE

B. Dolhany & C. Farnes note the differences between manifest weight (kg) printed on Canadian Record & manifest weight per written by ROICC on Actual manifest. P. Miller notes this is a conversion error.

B.D. & C.F. note difference between weight (lbs) on ROICC weight tickets & scale weight printed on USPCT record. B. Ingram notes that in most cases Canadian total for a railcar exceeds ROICC total for that railcar. B.D. notes that Canadian must light weight each truck prior to filling in Utah. P.M. notes that not being done.

P. Miller agrees to generate discrepancy curve every 50 manifests to see if the weights consistently favor the Canadian Agency. If that

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60607

Work continued to Page

SIGNATURE

Ct. Stumm

DATE

4/25/96

WITNESS

DATE

TITLE

PROJECT NO.

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Work continued from Page

is the case then Landau agrees
to use many weight tickets (lbs)
as basis for billing Navy.

C.F. notes that there is difference
between kg weight written by
Rome on manifest & kg weight
printed on Cert. of Disposal
printed by Landau R.M.
notes this is not an
regulatory issue unless the
difference is $> 10\%$ R.M.
to monitor.

R.M. agrees to generate a letter
reviewing both items noted above.

B.D. notes 2 railcars @ yard
to handle final excavations of
soil & decan pad next week.

B.D. notes American Materials
will supply backfill & geophysical
testing for Site 2 operations.

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE

A. G. Gaudin

WITNESS

DATE

4/25/96

DATE

ECT NO.

BOOK

TITLE

PROJECT NO.

BOOK

Work continued from Page

B.D. notes he will pick up old boom
& replace Crumman with a new
boom.

Ramps being built into cleared
portion of Site 2.

1145 meeting adjourned.

1200 CF back to Site 2.

1300 workers back from lunch.

Continue prepping Site 2 for backfill
— straw bales, turning topsoil, scraping
material & piling.

R. Sincich informs C.F. not to
collect any carb. materials samples
in scraped areas.

1400 Surveyors leave Site 2.

Site 2 equipment is decanned
over decan pad.

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

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4/25/96

WITNESS

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5

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4/25/96

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PROJECT NO.

BOOK

Work continued from Page

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EDMUND BINDER PRODUCTIONS, CHICAGO, ILL.

Work continued to Page

SIGNATURE

CA Stewart

WITNESS

DATE

4/25/86

DATE

6

CT NO.

JK

TITLE Sunny 70"

PROJECT NO.

BOOK

Work continued from Page

0700 CF into Site 2 for moving. Site 2
excavators + equipment is being moved to
Site 1 for excavation.

1030 Hot zone set up in Site 1 for
excavation. Excavation to continue
in 1 location as a test pit to
locate lenslike line from the
underground holding tanks.

1100 One of these lenslike lines is hit
@ 3 ft below the gravel surface.
4 in, clay line w no drainage
holes in its walls. Soil
around the line is sampled.
4 separate samples by FW.
Haul is backfilled w excavated
material.

1400 CF off site for airport

THE INTERGRAPH CORPORATION CHICAGO 60673

Work continued to Page

DATE

4/25/96

DATE

SIGNATURE

CA Fured

WITNESS

DATE

4/26/96

DATE

7



TITLE Overcast 55°

PROJECT NO.
BOOK

Work continued from Page

0700 CF into S.6. 1 JBT truck into
S.6 2 to haul pile of PCB
soil generated by scraping site 2.
Truck bag loaded + sent to
wasteland.
workers repairing dozen part.

0800 CF phones Quaterra for analytical
results. CF reviews analytical
results from FW on "pile B".
Based on analytical results,
pile B soils contain excessive
concentrations of chromium & zinc.
H. L. L. & B. DeLong note that
it cannot be used as backfill.

1000 CF reviews data from Quaterra
the following analytical results:

Composite of pile A samples = 4.7 ppm
Composite of pile C samples = 6.0 ppm

All contamination is Aroclor 1248, only.

GRAPHIC BINDERY PRODUCTION CHICAGO 60603

Work continued to Page

SIGNATURE



WITNESS

DATE

4/29/80

DATE

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JECT NO.

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TITLE

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Work continued from Page

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PCB

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4.7 ppm

6.0 ppm

only.

CF phone's M. Speranza for priority decision. M. Speranza notes that analytical results do not conform to PCB guideline documents - therefore all 10 samples must be analyzed for lab. I ask MS if 72 hr turnaround or 7-day. I note that railcar ordering may be difficult & require 7-10 day lead time. P. Embrosica notes it may take up to 18 day lead. I tell MS. I note to MS that P. Braccia is handling price negotiations in Quatera. MS informs CF that J. Trepawski made decision to do composite analysis of 5 samples for file A + C. M. S. informs CF that he will call J. Trepawski & S. Lehman for operating orders for CF. CF agrees to phone back @ 11:30 for decisions.

Page

DATE

4/29/96

DATE

SCIENTIFIC BINDER PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE

CF General

DATE

4/29/96

WITNESS

DATE

9

TITLE

PROJECT NO.

500

Work continued from Page

1130 M Spent at infans CF that S Lehman
has authorized to be turned in all
10 samples collected from pile A & C.

Dozer @ Site 2 being worked on since
AM to broken blade control lever.

P Embrosia @ Site 2. Notes that
1 rail car available @ yard.
It is currently being filled by truck
delivery.

1330 The following analytical results are gotten
from Quaterna:

Sample ID	Sample Location	PCB conc
S2-A-09	9	4.0 ppm
S2-A-10	10	1.4 ppm
S2-A-11	11	N/D ppm
S2-A-13R	13	4.9 ppm
S2-A-14	14	1.8
S2-A-15	15	0.7
S2-A-16	16	5.0

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Work continued to Page

SIGNATURE

A. Paul

WITNESS

DATE

4/29/80

DATE

10

CT NO.

DR

TITLE

PROJECT NO.

BLD NO.

Continued from Page

Sample ID	Sample Location	PCB conc
S2-A-17	17	2.1 ppm
S2-A-18	18	0.7 ppm
S2-A-19	19	1.3 ppm
S2-A-20	20	2.3 ppm
S2-A-30	30	6.5

- All detected conc. are for Aroclor 1248
 All other Aroclor types are N/D.

1350 CF goes to ROTEC to brief on activity to this point.

1500 Digger repaired + ready for work.
 Operators have been fixing since breakdown of operators

PCB conc

4.0 ppm

1.4 ppm

N/D ^{ppm}

4.9 ^{ppm}

1.8

0.7

5.0

CF slw/m spreading. MS notes it is OK to do 2 ft lifts instead of special 1 ft lifts as long as analyticals come back ok for geotech parameters. According to MS, 5 Lelund OKS using piles @ S.T. if they violate spec. for grain size, porosity etc

Continued from Page

Continued to Page

4/29/96

DATE

CF Hume

DATE

4/29/96

WITNESS

DATE

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TITLE

PROJECT NO.

BOOK

Work continued from Page

M. Spangher to give analytical to J. Sanchez for validation for base of excavation. Will have more screens.

The following high hits were reported by FWS for pile B

Test Date	Sample ID	Chromium	Zinc
4/12/96	SPB-01	18.3 ppm	42.1 ppm
4/12/96	SPB-02	6.9 ppm	24.5
4/12/96	SPB-03	36.6	59.5
4/12/96	SPB-04	17.6	75.6 ppm
4/12/96	SPB-05	20.6	75.5 ppm

NY1 STAT	Draw-up	10 ppm	20 ppm
Level			

The following soil was trucked out

Date	Tons	Trucks	1st out	Last out
4/29/96	97	3	(284) 8:20	(288) 11:39

All soil is from scraping off surface layer

Work continued to Page

12

SIGNATURE

CA Laurel

WITNESS

DATE

4/29/96

DATE

T NO.

TITLE

PROJECT NO.

BOOK

Work continued from Page

1600 CF repairs B. Dolhany West manifests
22 through # 25 will expire the
35 day limit on 5/1/96

82 through # 85 will expire the
35 day limit on 5/7/96

B. D repairs CF that we will contact P Antonica
today.

1630 CF off's to Below Leasing CF manifests
Area described by B.D. that required
Additional sidereal excavation due
to visible presence of PCBs.
Area is marked at 31 ft long x
8 ft wide, 6 ft depth along 28 ft,
10 ft depth along 3 ft.

† Last cut
a (28) 11:39

layer

PROPERTY OF RENDY PRODUCTIONS CHICAGO, ILLINOIS

Work continued to Page

DATE
4/29/96

SIGNATURE
G. Stuenkel

DATE
4/29/96

DATE

WITNESS

DATE

TITLE

Overcast 65° Drizzle

PROJECT NO
BOOK

Work continued from Page

0700 CF into Site 2. Workers have
fixed dzer. Relocate PCB seal pile
onto plastic in area adjacent to pile
A. Bales around pile.

Rowdson scraped along side of pile
B for access to back of pit
ramps.

0900 Bachli rep comes to site 2 to
see site. CF + BD give him copy
of spec from CF BRAW specs for
clarification. Truckload to show
up later today.

0930 Workers idle until bachli arrives.
CF informs B.D. + workers that
they can't work in area of site 2
not QA/QC by Samchuck (samples)

Dzer down to hydraulic line
problems.

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE

14 CA Laurel

WITNESS

DATE

4/30/92

DATE

CT NO.

PK

TITLE

PROJECT NO

BOOK

Work continued from Page

1000 CF infans ROTCC of days activities.

1030 CF back @ site 2.

1200 CF stu/M Speranza. MS infans CF test samples results for bottom of hole are validated + OK. Hole can be backfilled. MS notes that he is using a state NY materials to ~~see~~ see if p.to B can be backfilled into hole. Things are looking good - final notification @ 1400.

1240 2 Trubards of backfill arrive from offsite. 2 different dyes - sample each & select best.

Additional labor ^{CF} operator on site 2 to run roller. Starts rolling now.

Still repairing dyes.

1400 First round of trucks delivering backfill for hole arrive. 2 trucks carrying sandy backfill are dumped, spread & rolled. Rotation will continue.

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE

CA G... (handwritten signature)

DATE

4/30/96

WITNESS

DATE

15

DATE

4/30/96

DATE

up p. to
to p. 4

up p. to
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front
site 2
(samples)

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to Page

TITLE

Swr

PROJECT NO

BOOK

Work continued from Page

1420 Dyer repaired + running

Geotester from lab not arrived yet.

1500 Dyer down due to fuse short

1530 Dyer up + fixed

1600 B.D. phones P. Enbaruscia to advise of manifests required. Enbaruscia to supply.

The following soil loads delivered to site

<u>Date</u>	<u>Total Loads</u>	<u>Total Tons</u>	<u>Type</u>
4/30/96	3	124.49	Bankrun
4/30/96	1	40.20	Processed

Density used by plant - American materials is 1.25 ton/cy for both types of fill.

B.D. informs CF that he is writing to Tom Treling + H. Lazarus to determine if pile B may be returned to pit. Checks on S. Linnell + State NY.

1645 CF off site.

SCIENTIFIC BINDER PRODUCTIONS CHICAGO 60601

Work continued to Page

SIGNATURE

CA G. G. G.

DATE

4/30/96

16

WITNESS

DATE

ECT NO.

OK

TITLE

Sunny 65°

PROJECT NO.

BOOK

Work continued from Page

ed yet.

0700 CF into S/L 2. Workers may sail in base of excavation around of capacity.

Also trucks are being sail down offsite for entry into hole.

Advise us via to

10:50 B.D. informs CF that a sample of the processed fill delivered yesterday is collected by B.D. + delivered to Materials Testing Service for analysis + analysis is spec. Breakdown was not sent to lab. BD feels it is very similar to onsite conditions + noted that spec permitted use of "local material" in lab test.

to site

Type Bankrun Processed Fill

Backfilling continues All day.

materials of fill.

16:00 The filling backfill was delivered

in Trialing + be returned NY.

Date	Total Loads	Total Tons	Type
5/1/96	10	414	Bankrun
1.25 ton / load = density by manifest			

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

4/30/96

SIGNATURE

CA General

DATE

5/1/96

WITNESS

DATE

17

Work continued from Page

0700 CF into silo 2. Truchloads of soil being delivered & spread & rolled.

0800 Field tester from Materials Testing Inc arrives to check compaction & moisture content of silo soils & backfill.

Check processed fill for procter & moisture content, check portion of original silo material for moisture & procter, check pile C for moisture & procter

	Max Daily Moisture Cont	Procter
Processed fill	123.3 10.15%	135
Original silo 2 material	115.0 6.3% 5.3% CF	119.1 129.9
Pile C	126.0 5.3%	129.9

Uses troxler nuclear test device to check backfilled & compacted material already in silo 2. This material is backrun from American materials. Compaction & moisture content compared to original silo 2 material by Troxler.

18

SIGNATURE

CA Howard

WITNESS

DATE

5/2/96

DATE

Work continued from Page

f soil
+ rolled.

Testing Inc
moisture
sub. 11.

proctor
at portion
for moisture
is C

Cont	Proctor
5%	135
7% CF	119.1 129.9 CF
3%	129.9

to check
if already
is
termed.
covered
by

Troxler is being tested @ approx every
20ft along 100 ft length of
backfill AREA. Area by sample 12
is also tested.

No certificate of analysis has yet been
produced for any of the backfilled material
from the supplier. CF requests.

1000 CF pines Quanterra for analytical
on pile A + C. The following results
are mixed

Sample ID	Total PCB
SPA - 01	6.5 ppm
SPA - 02	3.5 ppm
SPA - 03	4.2 ppm
SPA - 04	2.7 ppm
SPA - 05	2.8 ppm
SPC - 01	4.4 ppm
SPC - 02	4.7 ppm

SIGNATURE
CA Gammal

DATE
5/2/96

WITNESS

DATE

5/2/96

DATE

TITLE

PROJECT NO.

BOOK

Work continued from Page

Sample ID	Total PCB
SPC - 03	4.18 ppm
SPC - 04	3.5 ppm
SPC - 05 ^{CF}	5.5 ppm
SPC - 02FD	5.0 ppm

All detected conc. are low Aroclor 1248 all other types are N/D.

CF shows results to B.D. Notes not validated

1045 B.D. instructs workers to use pile A & C as backfill for hole. workers start moving.

1000 Continue backfilling operation

B. Ingram notes that no meeting will be held this week. will schedule for next week

1600 CF affix to

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60625

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SIGNATURE

WITNESS

DATE

DATE

[Handwritten Signature]

5/2/96

CT NO.

JK

TITLE Rain 55°

PROJECT NO.

BOOK

Work continued from Page

2:13

1:18 pm

1:15 pm

1:15 pm

1:10 pm

1:248 all

not validated

pile A
waters

try will
not schedule

0700 CF into Site 2. Trucks are
unloaded to Andrew sail from
American Materials. 4 trucks in
rotation today. Till this day
2 trucks in rotation to drive
delays.

0830 CF off site to mail back equipment

0930 CF back to Site 2.

John McGrath from Navy auditors
arrives @ Site 2. Visits to B.
Dollman. Visits to C. Farhos.

HEAVY RAINS. Capacity shut
downs. Sail delivery continues.

CF ~~Front end loader~~ ^{Track hoe} being decanned.

1330 CF off site for airport. Track hoe
being decanned

No certificate of clearance has been
given to CF yet for any of the Fall

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

DATE

5/2/96

DATE

SIGNATURE

CA Yarnall

WITNESS

DATE

CF 5/3/96

DATE

21

TITLE

Overcast 60°

PROJECT NO.

BOOK

Work continued from Page

0700 CF into site 2

Compaction of delivered bankrun
containers. 5 trucks in rotation

today. Geophysical tester not present

0715 5 trucks in to soil during

Date	Trips	Tons	Type
5/2/96	2	CF 329 84	Bankrun
5/2/96	6	245	Sweet Sand
5/3/96	10	408	Sweet Sand
5/3/96	2	83	Bankrun

1.25 ton/cy for bankrun

1.20 ton/cy for sand

0830 Lloyd from materials desk arrives @
site to collect density info. Compaction
OK up to now

Compaction continues.

0900 Walkers finished spreading delivered
soil. Day compaction being done
Laborers not working

22

SIGNATURE

WITNESS

DATE

5/6/96

DATE

CT NO.

OK

TITLE

PROJECT NO.

BOOK

Work continued from Page

1000 5 trucks in to sand delivery

DATA from Lloyd from Materials Testing

Material	Max Density ^{lb/cuft}	Wet Den. ^{lb/cuft}	Dry Den.	% Moist
Pile C	126 ^{lb/cuft}	129 ^{lb/cuft}	123	5.3%
Sib 2 bank	115	119	112	6.3%
Processed Fill	123	135	123	10.5
Screened sand	109	111	105	5.1%

1115 waters finished spreading delivered material

1245 5 trucks in to sand delivery

1353 waters finished spreading delivered material. Laborers not working

Bill Dehany not into Sib 2 today due to illness.

No lab specs on screened sand or bankrun or processed fill as of today.

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60601

Work continued to Page

SIGNATURE

CA Fennel

DATE

5/6/96

WITNESS

DATE

23

to Page

DATE

5/6/96

DATE

Work continued from Page

1440 Compacting finished.

1520 5 Truckloads of soil into Site 2.
Waters not moving soil as close
to close dam line.

Today's Deliveries

<u>Date</u>	<u>Tons</u>	<u>Loads</u>	<u>Material</u>
5/6/96	745	18	screened sand
5/6/96	82	2	bankrun

No collection of clews has yet to
be given to CF by FW staff.

SIGNATURE

C. L. Linnell

DATE

5/6/96

24

WITNESS

DATE

ECT NO.

OK

TITLE Sunny 63°

PROJECT NO.

BOOK

Work continued from Page

0700 CF into site 2. 5 Trucks dumping loads

Site 2.
As close

B. Dolhany not into site because of sickness. Cannot question about supply of sand today. Relayed message through Cheryl yesterday. B. Dolhany through Cheryl said "sand will be OK."

sterial covered sand
BANK RUN

Geotester here to monitor capacity

yet to
start.

0800 Walkers done quickly. Just roller moving. 3 Laborers not walking

0830 Roller finished. Site idle

0940 ~~4~~ ⁴ Trucks show up w another ~~5~~ ⁴ CF loads. 1 truck downed by NYDOT.

1050 Walkers finished spreading. Roller continues Laborers down

to Page

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

DATE

5/6/96

DATE

SIGNATURE

CA Gualent

WITNESS

DATE

5/7/96

DATE

25

Work continued from Page

1220 4 trucks dump loads. Grading +
compaction continue.

1350 Operators finish. Roller continues.
Laborers not working

CF speaks A. Trammitt. Advises
AT that sand is being put into hole
along to bankrun & that no geotech
LAB tests have been collected for either.
CF notes that not sure if sand will
pass lab spec & that CF concern has
been brought up to B. Dolanay.
Also CF notes downtime between dumped
loads.

AT notes that since unaided backfill
spec for air-^{up} material to be used
it's OK to use the sand. AT voiced
concern over mixing of bankrun + sand.
Noted CF concern over spec violation
but said leave it go. Also AT
concerned over labor downtime. AT
Approved CF to leave 5/9/96 for

SIGNATURE

CA Howard

DATE
5/7/96

26

WITNESS

DATE

CT NO.

K

TITLE

PROJECT NO.

1001

Work continued from Page

Collection of Crater + Loose rock
list for B. Fryman.

1500 3 trucks dump loads Crady +
capaction capture.

1530 Crady + capaction sampled for
dump.

Dump dump data:

<u>Date</u>	<u>Tons</u>	<u>Loads</u>	<u>Type</u>
5/7/96	640	16	Screened Sand

g +
-s
misses
to hole
cotech
for pitted.
and will
are on WTS
water
then dumped
backfill
to be used
AT voiced
-run + sand
violation
Also AT
ntire, AT
96 for

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

DATE 5/7/96

SIGNATURE *CA Samuel*

DATE 5/7/96

DATE

WITNESS

DATE

27

TITLE

Overcast/Drizzle 60"

PROJECT NO.

BOOK

Work continued from Page

0700 CF into Site 2

3 trucks unload processed fill
B. Dolhony back on S. to J. B.D.
notes to C.F. that lab spec on
processed fill is OK. Confirms to
design spec. CF rejects copy.

0730 Geotesting field crew shows up to
test compaction.

0740 3 trucks ^{CF} ~~to~~ unload processed fill
Compaction continues
CF expresses concern to B.D. about
possible "pumping" of clayey fill
in Drizzle. B.D. to monitor.

0810 Operators finished spreading
Laborers idle.

0830 Compaction finished

B.D. Goes CF 1 bell came from
Utah Dept. to

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE

CF

DATE

5/8/96

28

WITNESS

DATE

ACT NO.

OK

TITLE

PROJECT NO.

BOOK

Work continued from Page

fill
- B.D.

is on

is to

copy

up to

fill

B.D. about

may fill

with

from

Page

DATE

5/8/96

DATE

0900 CF off site 2 to S/W/B. Fyrom about
job. Note that B.D. is getting processed
fill into site 2. CF to get lab
spec from B.D.

0925 B.D. into office w C. Polus. S/W/B Fyrom
To meet @ 1330 today

0940 Engine out of office
CFU back to site 2
3 trucks dump processed fill

0950 1 truck dumps processed fill

1007 1 truck dumps processed fill

1030 Material Testing rep notes that not
getting compaction on lifts of processed
fill. Too wet. Only getting 10-15%
compaction. B.D. notified. B.D.
leaves site 2.

Operator's finished spreading fill.
Working on side AVCA.

TESTING BLDG. PRODUCTIONS CHICAGO 60603

Work continued to Page

SIGNATURE

CA General

WITNESS

DATE

5/8/96

DATE

29

Work continued from Page

Compaction of fill contours.

1125 Operators + compaction finished.

1200 B.D. informs CF that he is sending for another trailer to bring in sand. Lab spec to accompany material. American materials to "dig into pile" to find dry material. C. Polios tells CF that no written spec on processed fill. Got wheel over phone. No hard copy yet.

1220 1 AM truck delivers load.

1240 2 AM trucks deliver proc. fill.

1 operator + 1 roller using

1250 1 AM truck deliver load.

1330 CF to meeting w B.D., AT, B.F. + C.P. in ROTEC office.

Review items on purchase list.

B.D. notes he will ~~do~~ CF haul PCB
sinks + decum pad on 5/8/96
9 CF

30

Work continued to Page

SIGNATURE

CA Kunk

WITNESS

DATE

5/8/96

DATE

8

CT NO.

DK

TITLE

PROJECT NO.

ECOR

Work continued from Page

to Railyard. will decan truck into railcar (decan water into railcar).

B.D. notes will decan front-end loader @ Site 2 + will contain decan water into drums + locate with Site 1 decan water.

B.D. notes he expects another hauler on Site 2 to backfill 5/8^{9cf} or 5/8¹⁰ cf. Expects to finish 5/8¹⁰.

1430 CF back to Site 2. 1 AM truck dumping processed fill.

1440 1 AM truck dumping processed fill

1450 1 AM truck dumps processed fill

1500 1 AM truck dumps processed fill

Operators have been spreading sand + opening up sand to dry along Site 2 perimeter since 1200.

mostly in sand. several to pile "Polios" spec on over

F + C.P

PCB

5/8/96
9 cf

5/8/96

8

Work continued to Page

SIGNATURE

CA Leland

WITNESS

DATE

5/8/96

DATE

31

TITLE

PROJECT NO.

BOOK

Work continued from Page

1530 Workers offsite for day.

<u>Date</u>	<u>Loads</u>	<u>Tons</u>	<u>Material</u>
5/8/96	22	924	Processed fill

Reported density of material = 1.25 tons/cy
for processed fill.

CF still has received no cube of
clean soil for any soil dumped
in hole.

1600 CF offsite for day, 3 devices
dumping processed fill

TO BE FILLED BY PRODUCTION, CH. CAP. 10/95

Work continued to Page

SIGNATURE

CA [Signature]

DATE 5/8/96

32

WITNESS

DATE

ECT NO.

OK

TITLE

Overcast 55°

PROJECT NO.

BOOK

Work continued from Page

1300 CF into Site 2 from using old
Coherton Site

Balefill, compaction, compaction design
captures.

Material
Victrola fill

25 tons/cy

Decom pad + pile of PCB soil being
removed from Site 2. Using 1
JBT truck.

cube of
dumped

1530 Soil dumping + compaction finished @
Site 2.

Decom of front end loader begins

dis

1700 Decom of front end loader complete.
All waste dumped into JBT truck
for shipment to rail yard. Decom
finishes to Site 1 for storage for
land law.

JBT truck to be decom into
railcars after dumping according to
B. Dolanney.

to Page

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

DATE
5/8/96

SIGNATURE
CA Stewart

DATE
5/9/96

DATE

WITNESS

DATE

33

TITLE

PROJECT

0001

Work continued from Page

The following digging data was recorded:

Date	Tons PCB soil	# Loads	1st in	1st in
5/9/96	160	5	7:55 AM	5:33 PM

Date	Tons	Loads	Material
5/9/96	767	18	Processed fill

1730 CF off site 2.

SCIENTIFIC SANDERS PRODUCTIONS, CHICAGO 60607

Work continued to Page

34

SIGNATURE

CA Hummel

WITNESS

DATE

5/9/96

DATE

JECT NO.

OK

TITLE Overcast 55°

PROJECT NO.

5000

Work continued from Page

relat:

0700 CF into Site 2. 6 Trucks
dump sand & processed fill.

1st in 7:55 AM
2nd in 5:33 PM

0800 1 truck dumps. 1 truck dumps
blue stone for fence

Material
Processed fill

0815 1 truck dumps. Capaction being
checked

0833 1 truck dumps

0850 1 truck dumps.

0900 1 truck blue stone. B Ingram to site to see

1000 CF off site 2 to mail Fed Ex

1050 CF back to Site 2. Laborers fixing
fence stay with P. Backfilling,
capaction, desting continues

1200 1 truck arrives to dump

1205 1 truck arrives to dump

1210 1 truck arrives to dump

Hertz guy shows to where truck load.

© 1996 BINDER PRODUCTIONS CHICAGO 60605

Work continued to Page

DATE
5/9/96

SIGNATURE

CA Kaur

DATE
5/10/96

WITNESS

DATE

35

Work continued from Page

Labors continue working on here.
Specially a comparison going on
Crosby continues.

CF notes to BD that still need
following:

1. Exceptional response by H Lorenns
2. Certificate of clearance for ship backfilled
3. Lab test results for processed field
4. Letter of release of liability for
Navy from yard report.

B.D. notes that will have labors
& 1 operator @ SLE 2 on Monday
5/13/96. Will finish job.

1320 CF off site for airport.

SIGNATURE

Ch. General

DATE

6/10/96

35

WITNESS

DATE

APPENDIX C

HAZARDOUS WASTE MANIFESTS

The hazardous waste manifest are available at the REICC office at NWIRP, Bethpage, New York, Navy Plant 3.

Attached is a list of the manifests and these corresponding weight information. This attachment also provides information explaining the differences in weights provided on the manifests.



April 25, 1996

Mr. Bill Dohancy
Foster-Wheeler
c/o U. S. Navy-REICC-Bethpage
Mail Stop A-41-03
NWIRP Navy Plant 3
Grumman Aerospace Corporation
Bethpage, New York 11714-3593

RE: Evaluation and Resolution of Weight Differences

Dear Mr. Dohancy:

This letter confirms our telephone discussion of today referring to the differences to date in weights of waste volume received by U. S. Pollution Control, Inc.'s Grassy Mountain Facility from the Bethpage, New York project. As discussed, the shipments of rail loads of PCB Waste which has been transferred from truck to rail to truck have evidenced some variation in weight which is less than the 10% weight discrepancy. The nature of the discussions concerning weight differences is focused on assuring fair accounting of material for invoicing purposes under unit cost conditions.

The difference in weights could be due to random differences due to different scales, different application of conversion factors or other reasons. The customer indicates that it uses a certified scale and confirms these weights with a second certified scale, and these confirmations demonstrate a weight reproducibility of 0.1%. The Grassy Mountain Facility agrees to construct an analysis of fifty (50) loads comparing the generator's weight (in pounds from the scale ticket) to the Grassy Mountain Facility weight (in pounds from the scale ticket). If the comparison should random variations which in the aggregate essential cancel out Grassy Mountain will continue to invoice based on Grassy Mountain weights. If the comparison shows consistently heavier weights at the Grassy Mountain Facility, the facility agrees to change its weight determination for invoice purposes to reflect the generator's weight for each load. The previously invoiced loads could be rectified and credited as necessary.

The Grassy Mountain Facility will construct the first comparison on the first fifty loads and transmit the comparison to you when it is completed.

I appreciate your interest and absolutely concur that it is in the interest of all parties that the weights for invoice purposes be of understood and agreed-upon accuracy. Please feel free to call me at (801) 323-8960 if you have any questions regarding this letter. I will forward the comparison on the first fifty loads as soon as it is complete.

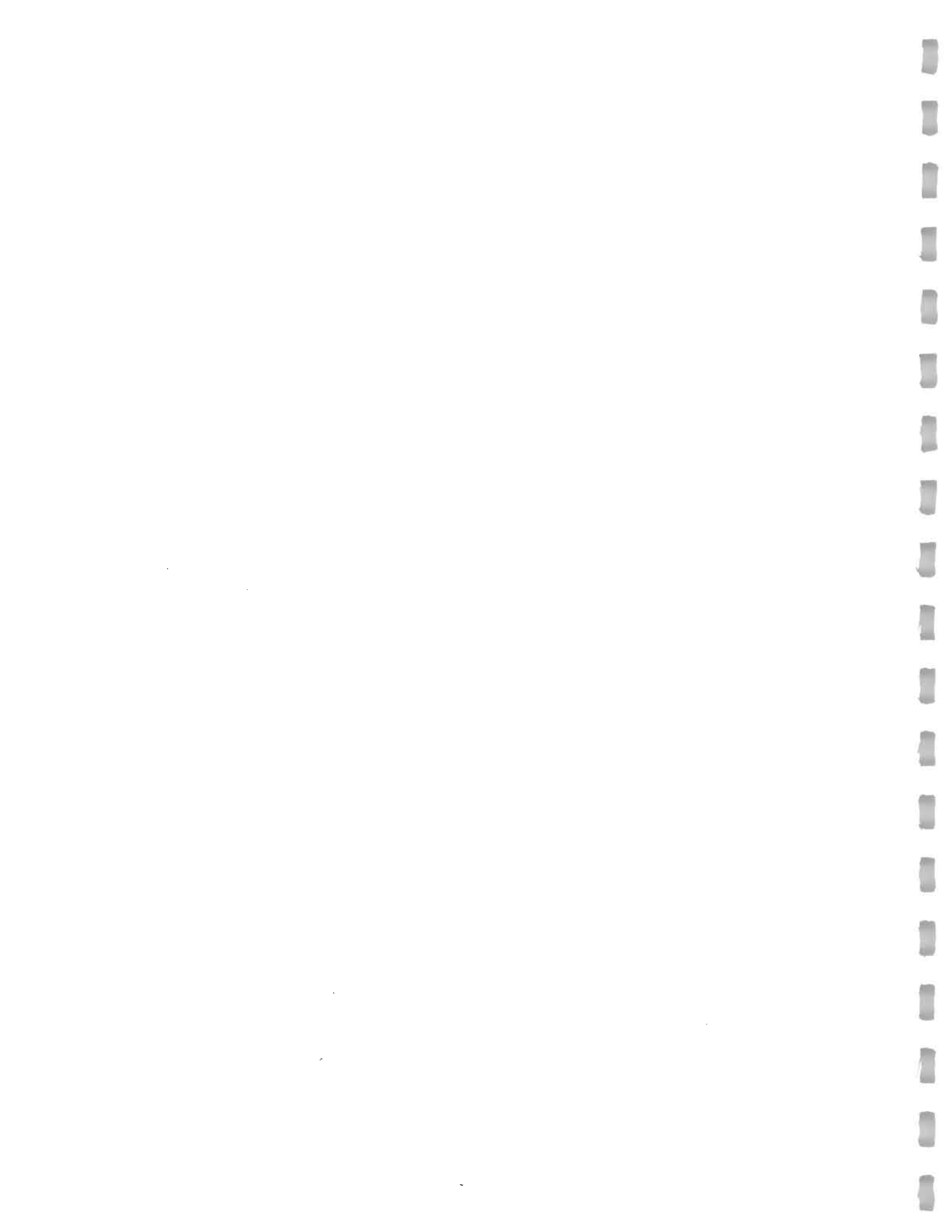
Sincerely,
W. Randall Miller
W. Randall Miller
W. Randall Miller
General Manager
Grassy Mountain Facility

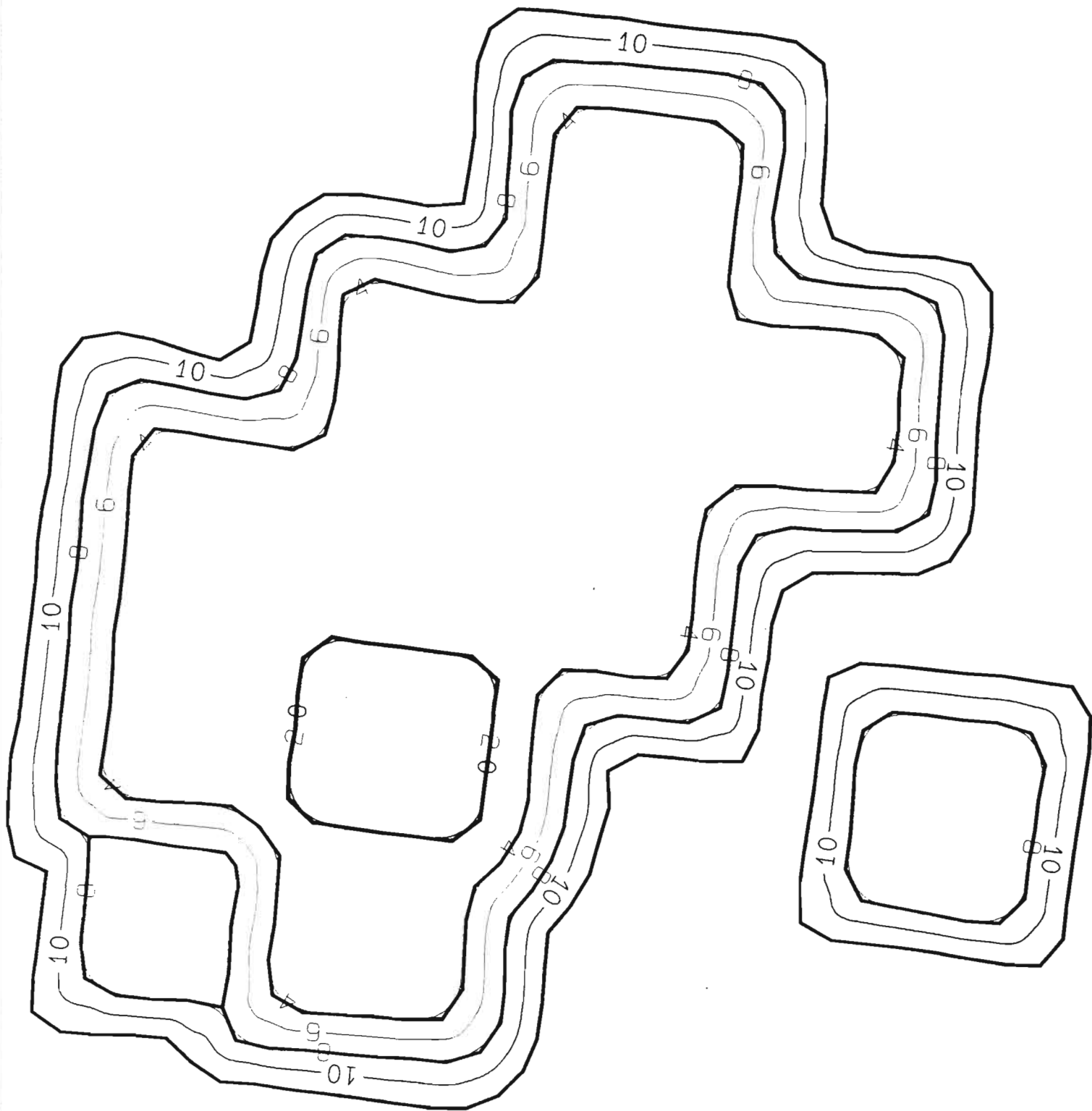
cc: Phil Embrescia Via Fax: (516) 293-7486
Howard Lazarus

1996 load number	manifest number	arrival date	NAVY weight	GMF weight	difference
3386	00006	04/08/96	48000	47120	-880
3387	00007	04/08/96	43200	47260	4060
3374	00008	04/08/96	40820	55420	14600
3375	00009	04/08/96	43580	51280	7700
3388	00010	04/08/96	39240	37200	-2040
3389	00011	04/08/96	40940	44220	3280
3377	00012	04/08/96	43260	29260	-14000
3376	00013	04/08/96	44980	40760	-4220
3382	00014	04/08/96	41140	54020	12880
3383	00015	04/08/96	46220	54300	8080
3384	00016	04/08/96	46440	42680	-3760
3385	00017	04/08/96	47320	32180	-15140
3378	00018	04/08/96	43120	31280	-11840
3379	00019	04/08/96	45540	41720	-3820
3380	00020	04/08/96	43140	47360	4220
3381	00021	04/08/96	51100	62920	11820
3470	00026	04/11/96	46200	41380	-4820
3471	00027	04/11/96	45300	45780	480
3472	00028	04/11/96	45520	41740	-3780
3473	00029	04/11/96	45740	45480	-260
3466	00030	04/11/96	43940	44820	880
3467	00031	04/11/96	41760	39680	-2080
3468	00032	04/11/96	44040	42520	-1520
3474	00033	04/11/96	40320	53440	13120
3469	00034	04/11/96	42440	52680	10240
3475	00035	04/11/96	43680	50500	6820
3476	00036	04/11/96	44620	28660	-15960
3477	00037	04/11/96	43780	41680	-2100
3516	00038	04/12/96	46400	46080	-320
3517	00039	04/12/96	42380	48380	6000
3518	00040	04/12/96	46600	42040	-4560
3519	00041	04/12/96	41660	43040	1380
3512	00042	04/12/96	45340	60240	14900
3513	00043	04/12/96	44860	44140	-720
3514	00044	04/12/96	44480	34320	-10160
3515	00045	04/12/96	47400	45480	-1920
3486	00046	04/11/96	42100	52620	10520
3487	00047	04/11/96	45580	41400	-4180
3488	00048	04/11/96	43140	33740	-9400
3489	00049	04/11/96	32720	39720	7000
3598	00050	04/15/96	42840	45520	2680
3624	00051	04/15/96	42540	52840	10300
3625	00052	04/15/96	34320	33660	-660
3626	00053	04/15/96	43660	35520	-8140
3627	00054	04/15/96	43260	41600	-1660
3628	00055	04/15/96	41500	42560	1060
3629	00056	04/15/96	40900	42360	1460
3631	00057	04/15/96	42100	40440	-1660
3630	00058	04/15/96	39220	48440	9220
3632	00059	04/15/96	40320	50880	10560

totals 2168700 2212360 43660

APPENDIX D
VOLUME CALCULATIONS





TOTAL SITE VOLUME W SIDE SLOPES

BROWN & ROOT ENVIRONMENTAL
 661 ANDERSEN DRIVE
 PITTSBURGH, PA 15220 1-800-245-2730
 Fri Apr 5 12:42:51 1996

PROJECT: n:bethpage.pro

 DTM TO DTM VOLUME

Cut and Fill Volumes

Shrinkage/swell factors:	Cut	1.0000	Fill	1.0000
Original DTM Layer Name	# of Points	Final DTM Layer Name	# of Points	
----- SURFACE	4	----- EXCAV	391	
Cut Volume (yd3)	Cumulative Cut Volume	Fill Volume (yd3)	Cumulative Fill Volume	
----- 3398.8	3398.8	----- 0.0	0.0	

VOLUME Small AREA TO SIDESLOPES

BROWN & ROOT ENVIRONMENTAL
 661 ANDERSEN DRIVE
 PITTSBURGH, PA 15220 1-800-245-2730
 Fri Apr 5 12:50:50 1996

PROJECT: n:bethpage.pro

 DTM TO DTM VOLUME

Cut and Fill Volumes

Shrinkage/swell factors:		Cut	1.0000	Fill	1.0000
Original DTM Layer Name	# of Points	Final DTM Layer Name	# of Points		
SURFACE	4	EXCAV	391		
Cut Volume (yd3)	Cumulative Cut Volume	Fill Volume (yd3)	Cumulative Fill Volume		
162.1	162.1	0.0	0.0		



APPENDIX E

CERTIFICATES OF "CLEAN SOIL"



8 FEBRUARY 1998

VIA FACSIMILE

ECOR, INC.
HALLBERT ROAD
ROSELAND, NEW YORK

Re: American Materials, Inc.
168 Townline Road
Kings Park, NY 11754

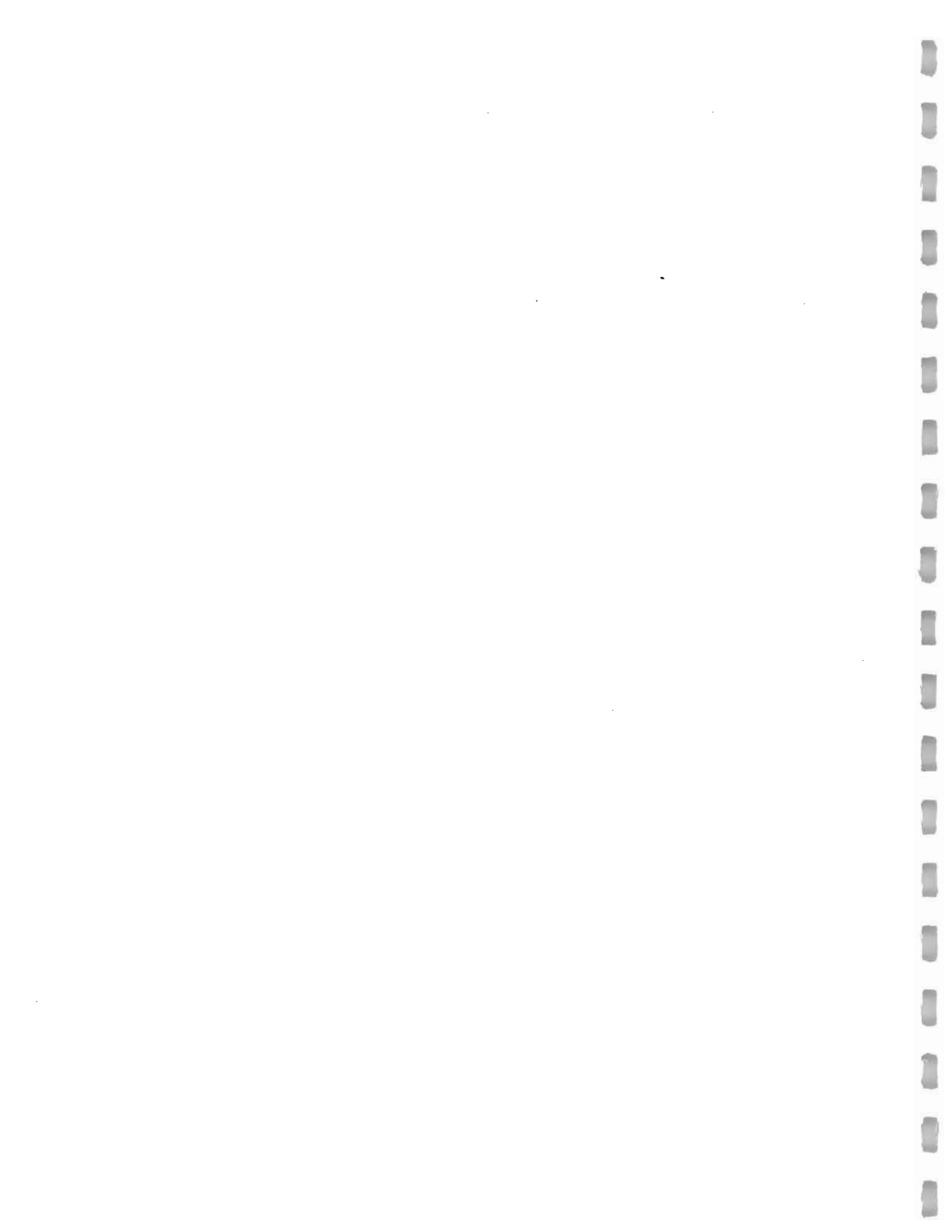
conclusion:

Find attached for your information and use copies of LSTC
correspondence of October 27, 1993 and DEP of October 28, 1993
wherein it is certified that the excavated stockpile of fill
material located on the above referenced site is not contaminated
or hazardous.

Very truly yours,

Daniel B. Reddan

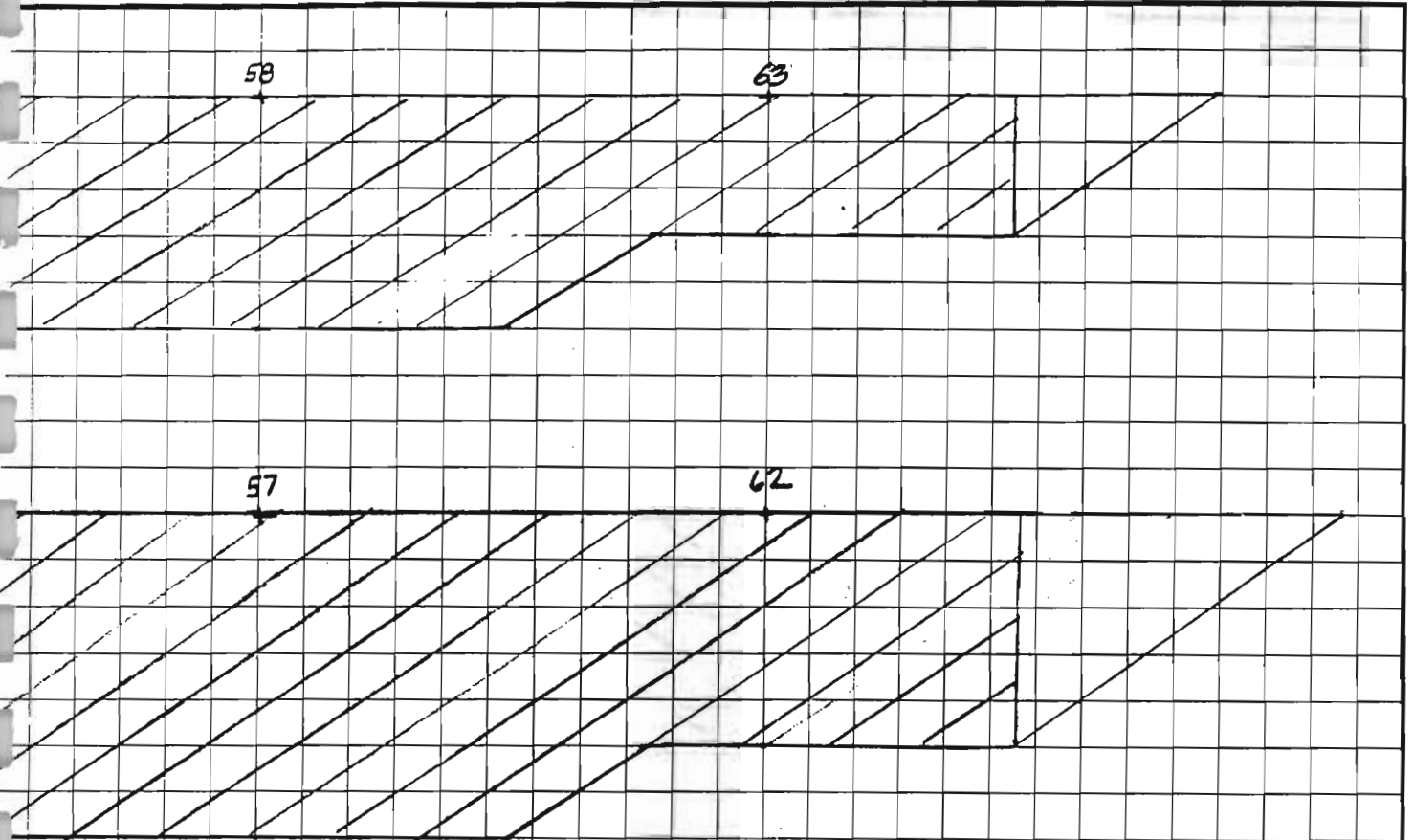
Daniel B. Reddan, P.E.
Project Superintendent



OFS NO. 1284.0004.9904.15000 DEPT NO. EC

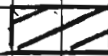
BY H. LAZARUS DATE 12/19/95

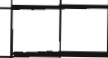
CHECKED BY _____ DATE _____



LEGEND

+ SOIL BORING ID#

 CONTAMINATED SOIL

 CLEAN SOIL

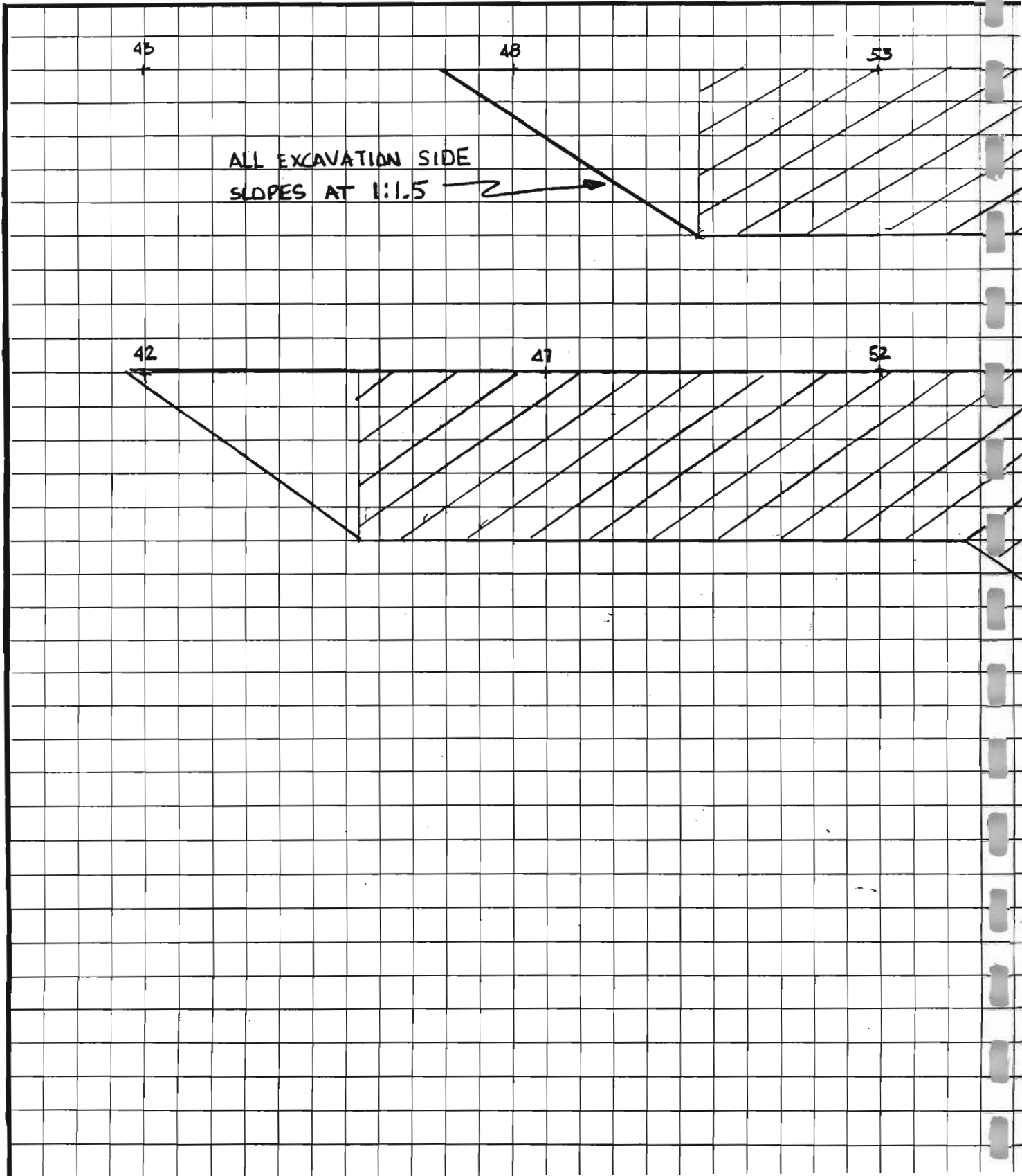
SCALE



CLIENT US NAVY - NORDIV

PROJECT DO#4 - NWIRP BETHPAGE

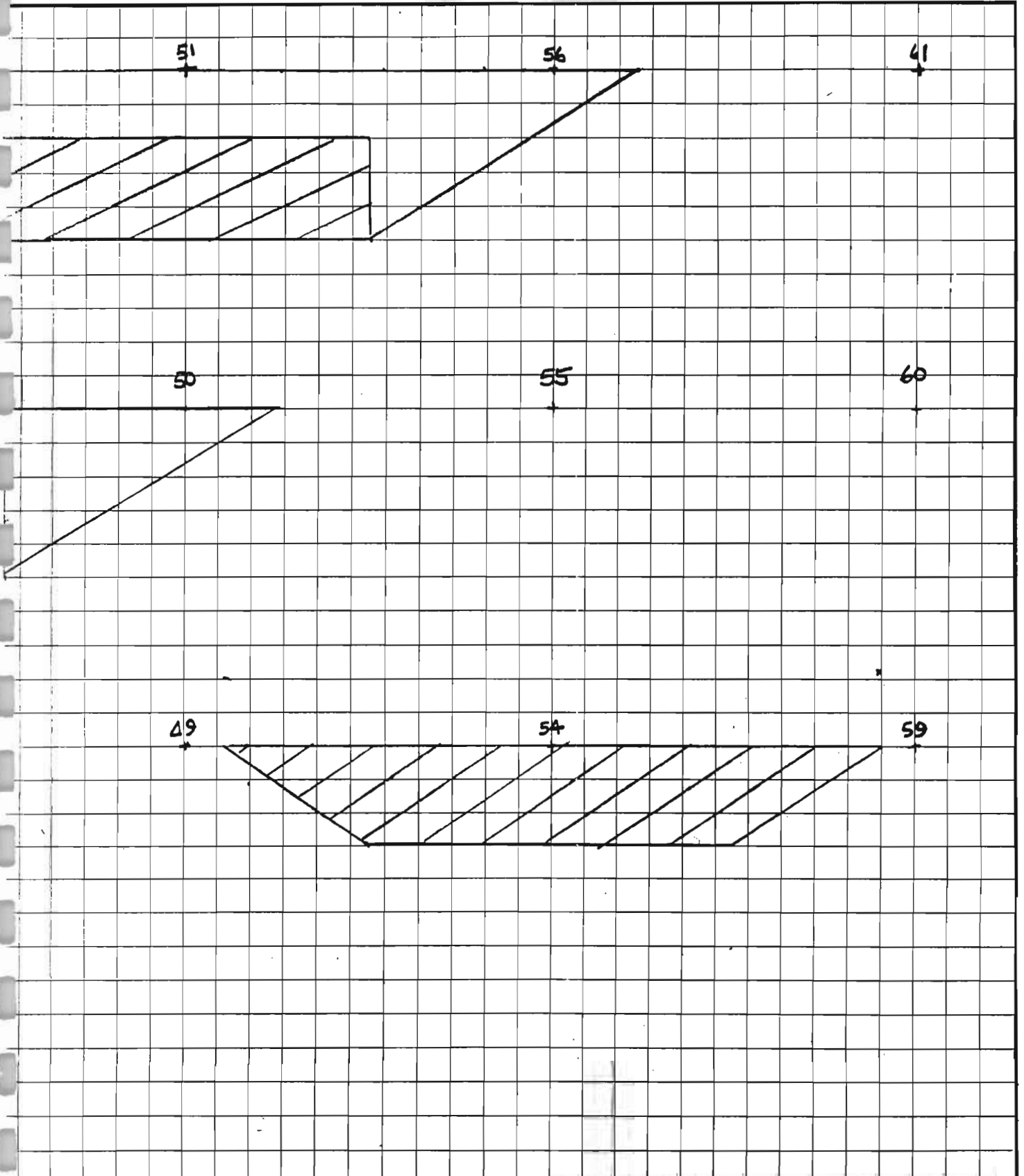
SUBJECT SITE 2 EXCAVATION CROSS-SECTIONS



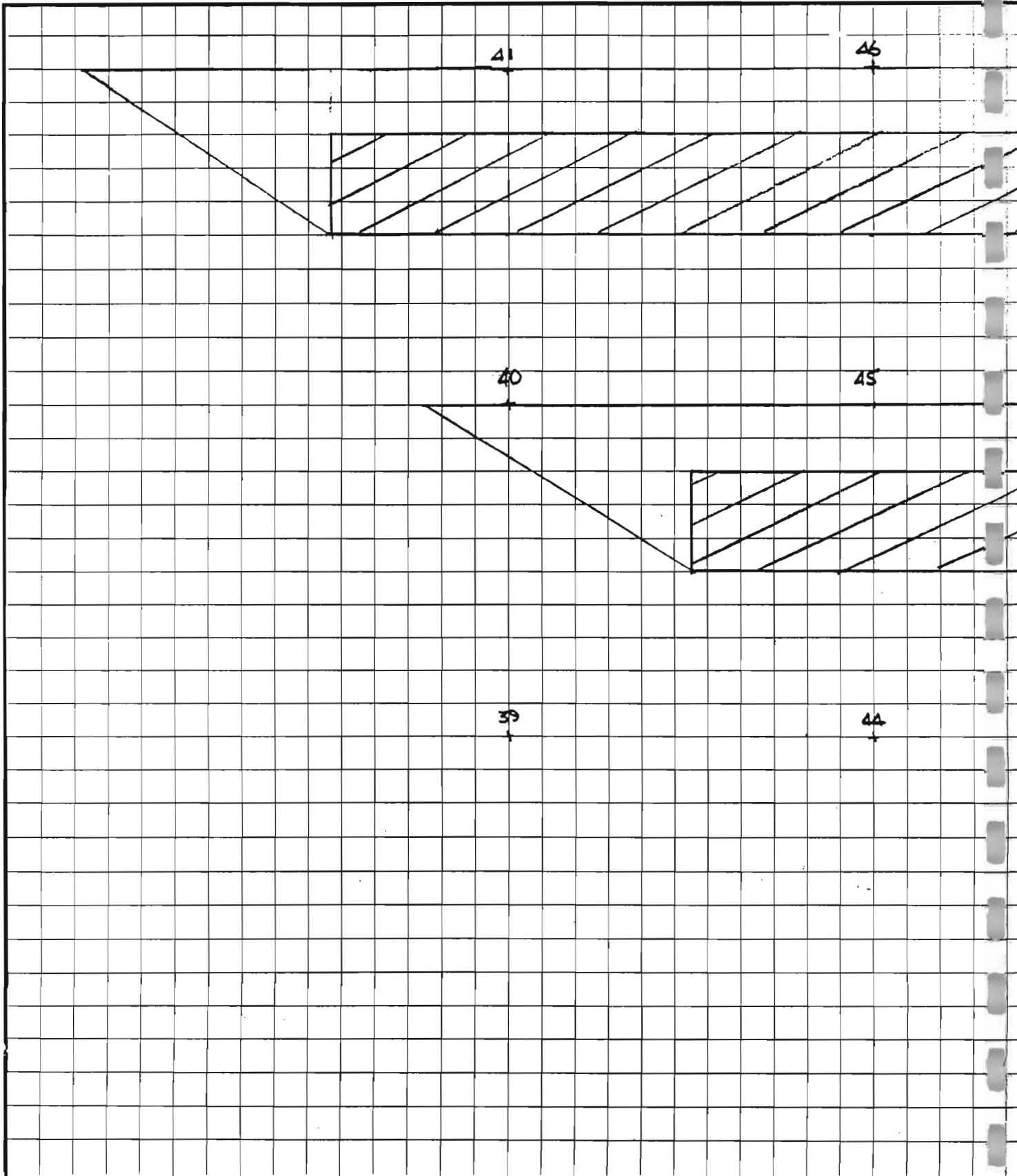
OFS NO. 1281.0004.9904.15000 DEPT NO. EC

BY H. LAZARUS DATE 12/19/95

CHECKED BY _____ DATE _____



CLIENT US NAVY - NORDIV
PROJECT DO-9 - NWIRP BETHPAGE
SUBJECT SITE 2. EXCAVATION CROSS-SECTIONS



APPENDIX F

COMPACTION AND GEOPHYSICAL TEST RESULTS





MATERIALS TESTING LAB INC.

NEW YORK DIVISION

1529 JERICHO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

FIELD DENSITY REPORT (NUCLEAR)

PROJECT _____

DATE May 2, 1996

CLIENT FOSTER WHEELER

TECHNICIAN Lloyd A. Buckner

TIME ARRIVE _____

TIME DEPART _____

PERMIT # _____

JOB # _____

MATERIAL	LOCATION	DEPTH	W.D./D.D.		M%	W.D.	PROCTOR		COMP
			W.D.	D.D.			D.D.	MAX D.D.	
SANDY	SITE # 2 Bethpage	2' ELE.	128.5	118.7	8.1			123.3	96.4
"	"	"	132.8	124.0	7.1			"	100.7
"	"	"	124.6	123.9	8.6			"	102.17
"	"	"	129.5	121.8	6.3			"	98.5
"	"	"	130.4	122.6	6.4			"	97.4
"	"	4' ELE	131.4	123.2	6.7			"	97.9
"	"	"	127.7	117.9	8.3			"	95.6
"	"	"	129.7	122.4	6.0			"	97.3
"	"	"	127.7	117.7	6.7			"	97.1
"	"	"	133.6	122.5	9.1			"	99.3
"	Pit	2' ELE	126.3	117.6	5.6			"	97.0
"	"	"	128.1	121.0	5.9			"	98.1
"	"	4"	130.7	122.4	6.8			"	99.3
"	"	"	128.8	120.7	6.7			"	97.9

REMARKS:

PROCTOR =

WT OF MOLD EMPTY = 9.4

WT OF MOLD & MATERIAL = 13.37 13.7

(-) WT OF MOLD = 3.79 4.5 4.33

(X) 30 = PROCTOR WT 119.1 135.0 129.9

DRY DENSITY DERIVED FROM PROCTOR 112.0 122.3

MAXIMUM DRY DENSITY 115.0 / 123.3 126.0

DERIVED FROM FAMILY CHART # _____



MATERIALS TESTING LAB INC.

NEW YORK DIVISION

1529 JERICHO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

FIELD DENSITY REPORT (NUCLEAR)

PROJECT _____
 CLIENT FOSTER WHEELER
 TIME ARRIVE 7:30 AM
 PERMIT # _____

DATE May 2, 1996
 TECHNICIAN Lloyd A Buckner
 TIME DEPART _____
 JOB # _____

MATERIAL	LOCATION	DEPTH	W.D./D.D.		M%	W.D.	PROCTOR		COMP
			LBS./CU FT				D.D.	MAX D.D.	
SAND SAL	"	6" E/L	135.5	125.4	8.9			123.3	10.7
"	"	"	132.1	121.4	9.1			"	98.5
"	"	2 E/L	133.8	122.3	7.4			"	99.2
"	"	"	133.3	121.6	9.6			"	98.0

REMARKS:

PROCTOR =
 WT OF MOLD EMPTY =
 WT OF MOLD & MATERIAL =
 (-) WT OF MOLD =
 (X) 30 = PROCTOR WT _____
 DRY DENSITY DERIVED FROM PROCTOR _____
 MAXIMUM DRY DENSITY _____
 DERIVED FROM FAMILY CHART # _____



MATERIALS TESTING LAB INC.

NEW YORK DIVISION

1529 JERICHO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

FIELD DENSITY REPORT (NUCLEAR)

PROJECT GRUDMAN AIR FORCE FACILITY
 CLIENT FOSTEL WHEELER
 TIME ARRIVE 7:00 AM
 PERMIT # _____

DATE MAY 31 1996
 TECHNICIAN Lloyd A. Buck Knox
 TIME DEPART 3:00 PM
 JOB # _____

MATERIAL	SITE #	2' BATH PAGE	LOCATION	DEPTH	W.D./D.D. LBS./CU FT		MC	W.D.	PROCTOR D.D.	MAX D.D.	COMP
SAND	SB-42	"	29 200 AREA	ELEVATION 119.73	114.5	108.6	5.4	111.0	105.2	109.5	99.2%
	SB-45	"	"	122.14	114.8	109.3	5.0	"	"	"	99.8%
SAND	SB-53	"	"	123.0	112.9	107.6	4.9	"	"	"	98.3%
	SB-51	"	"	123.09	113.7	108.6	4.7	"	"	"	99.2%
	SB-62	"	"	124.0	113.1	107.1	5.6	"	"	"	97.8%
	SB-62	"	"	122.05	118.2	111.1	6.4	"	"	"	100.2%
SAND	SB-54	"	"	124.71	129.0	120.8	6.8	131.7	122.9	126.3	95.6%
	"	"	"	124.71	134.6	126.6	7.2	"	"	126.3	99.4%
	"	"	"	123.71	125.7	120.3	4.5	"	"	"	95.2%
	"	"	"	123.71	133.3	126.1	6.5	"	"	"	99.0%

PROCTOR =
 WT OF MOLD EMPTY = 9.4 / 9.4
 WT OF MOLD & MATERIAL = 13.79 / 13.1
 (-) WT OF MOLD = 4.39 / 3.7
 (X) 30 = PROCTOR WT 131.7 / 111.0
 DRY DENSITY DERIVED FROM PROCTOR 122.9 / 105.2
 MAXIMUM DRY DENSITY 126.3 / 109.5
 DERIVED FROM FAMILY CHART # _____





MATERIALS TESTING LAB INC.

130-07 26th AVENUE
SUITE 100
FLUSHING, NEW YORK 11354

(718) 445-1474
FAX: (718) 359-8648

DATE: MAY 7, 1996

SOIL COMPACTION TEST RESULTS:

CLIENT: FOSTER & WHEELER

PROJECT: ARMYMAN AIR FORCE FACILITY

LOCATION: SOIL #2 AREA SQ 200

PURE SAND
W.D = 111.3 W.D 120.9 M. ... Pure ... EXISTING
S.D 105.2 D.D. 111.6
MAX 110.5 max 113.5

TEST	DEPTH	EXACT LOCATION	PASS/ FAIL
#1	ELEVATION 122.62	SB-27	97.7
#2	123-06	SB-52	97.4
#3	123-52	SB-57	96.7
#4	124.98	SB-58	97.4
#5	121.75	SB-53	96.6
#6	122.02	SB-47	100%

TECHNICIAN: Lloyd A Buehner

TIME ON SITE: FROM 11:30 TO 3:30



MATERIALS TESTING LAB INC.

130-07 26th AVENUE
SUITE 100
FLUSHING, NEW YORK 11354

(718) 445-1474
FAX: (718) 359-8648

Pg #2

DATE: MAY. 7, 1996

SOIL COMPACTION TEST RESULTS:

CLIENT: FOSTER WHEELER

PROJECT: GLUMANN AIR FORCE FACILITY

LOCATION: site # 2 BETHPAGE AREA SQ 200

TEST	DEPTH	EXACT LOCATION	PASS/ FAIL
#1	Elevation 122.46	SB-52	99.7
#2	122.92	SB-57	96.8
#3	124.38	SB-58	100.0%
#4	121.15	SB-53	98.8%
#5	121.49	SB-51	98.8
#6	122.03	SB-46	100.0%

TECHNICIAN: Lloyd A. Rucknor

TIME ON SITE: FROM - 7:30 TO - 3:30



MATERIALS TESTING LAB INC.
130-07 26th AVENUE (718) 445-1474
SUITE 100 FAX: (718) 359-8648
FLUSHING, NEW YORK 11354

DATE: MAY 7, 1996

SOIL COMPACTION TEST RESULTS:

CLIENT: POSTAL WHEELER

PROJECT: GLUMAN AIR FORCE FACILITY

LOCATION: SITE #2 BETHPAGE AREA SB 200

TEST	DEPTH	EXACT LOCATION	PASS/ FAIL
#1	ELEVATION 121.42	SB 49	97.3
#2	121.86	SB 42	99.8
#3	122.33	SB-57	98.9
#4	123.78	SB 58	95.9
#5	120.55	SB 53	99.8
#6		SB 51	99.0

SB-A7

100+%

TECHNICIAN: Lloyd A. Bucknor *[Signature]*

TIME ON SITE: FROM - 7:30 TO - 3:30





MATERIALS TESTING LAB INC.

NEW YORK DIVISION

1529 JERICHO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

FIELD DENSITY REPORT (NUCLEAR)

PROJECT GLULMAN AIR FORCE FACILITY
 CLIENT FOSTER WHEELER
 TIME ARRIVE 9:00 AM
 PERMIT # _____

DATE MAY 23 1996
 TECHNICIAN Nloyd A Bueknox
 TIME DEPART _____
 JOB # _____

MATERIAL	LOCATION	DEPTH	W.D./D.D. LBS./CU FT		M%	W.D.	PROCTOR D.D.	MAX D.D.	COMP
GRAVY	SITE # 2 BETHPAGE 96 200 AREA	Elevation				111.6	106.2	110.5	
"	SB-A5	123.0	113.6	109.6	5.6	"	"	"	97.3
"	SB-A6	122.63	115.0	110.0	4.5	"	"	"	99.5
"	SB-A7	122.57	115.2	109.6	5.1	"	"	"	99.2
"	SB-53	122.35	114.9	108.8	5.6	"	"	"	98.5
"	SB-51	122.09	112.9	107.5	5.0	"	"	"	96.9
"	SB-58	125.58	117.6	110.2	6.9	"	"	"	99.7
"	SB-52	122.0	117.0	112.4	4.5	"	"	"	100.9
"	" "	121.0	113.3	107.8	5.1	"	"	"	97.6
"	" "	120.0	113.7	108.2	5.19	"	"	"	97.9
"									
"									
"									
"									

REMARKS:

PROCTOR =
 WT OF MOLD EMPTY = 9.4
 WT OF MOLD & MATERIAL = 13.12
 (-) WT OF MOLD = 3.72
 (X) 30 = PROCTOR WT 111.6
 DRY DENSITY DERIVED FROM PROCTOR 106.2
 MAXIMUM DRY DENSITY 110.5
 DERIVED FROM FAMILY CHART # 2



MATERIALS TESTING LAB INC. *lg #2*

130-07 26th AVENUE
SUITE 100
FLUSHING, NEW YORK 11354

(718) 445-1474
FAX: (718) 359-8648

DATE: MAY 7, 1996

SOIL COMPACTION TEST RESULTS:

CLIENT: FOSTER & WHEELER

PROJECT: ARMYMAN AIR FORCE FACILITY

LOCATION: SECT #2 AREA SQ 200

PURE SAND:

W.D. 111.3

D.D. 105.2

MAX 110.5

W.D. 120.9 MIXTURE OF PURE & EXIST

D.D. 111.6

max 113.5

TEST	DEPTH	EXACT LOCATION	PASS/FAIL
#1	ELEVATION 122.62	SB-27	97.7
#2	123-06	SB-52	97.4
#3	123-52	SB-57	96.7
#4	124.98	SB-58	97.4
#5	121.75	SB-53	96.6
#6	122.02	SB-47	100%

TECHNICIAN: Lloyd A Buckner *Lloyd A Buckner*

TIME ON SITE: FROM 11:30

TO

3:30



MATERIALS TESTING LAB INC.

130-07 26th AVENUE
SUITE 100
FLUSHING, NEW YORK 11354

(718) 445-1474
FAX: (718) 359-8648

Pg #2

DATE: MAY. 7, 1996

SOIL COMPACTION TEST RESULTS:

CLIENT: FOSTER WHEELER

PROJECT: GLUMANN AIR FORCE FACILITY

LOCATION: SITE # 2 BETHPAGE AREA SG 200

TEST	DEPTH	EXACT LOCATION	PASS, FAIL
#1	Elevation 122.46	SB-52	99.7
#2	122.92	SB-57	96.8
#3	124.38	SB-58	100.8
#4	121.15	SB-53	98.8
#5	121.49	SB-51	98.8
#6	122.03	SB-46	100.8

TECHNICIAN: Lloyd A. Rucknor

TIME ON SITE: FROM . 7:30

TO . 3:30



MATERIALS TESTING LAB INC.

130-07 26th AVENUE
SUITE 100
FLUSHING, NEW YORK 11354

(718) 445-1474
FAX: (718) 359-8648

DATE: MAY 7, 1996

SOIL COMPACTION TEST RESULTS:

CLIENT: FOSTER WHEELER

PROJECT: GLUMAN AIR FORCE FACILITY

LOCATION: SITE #2 BOTH PAGE AREA SB 200

TEST	DEPTH	EXACT LOCATION	PASS FAIL
#1	ELEVATION 121.42	SB 49	97.5
#2	121.86	SB 42	99.5
#3	122.33	SB 57	98.5
#4	123.78	SB 58	95.5
#5	120.55	SB 53	99.5
#6		SB 51	99.5
		SB 47	100+

TECHNICIAN: Lloyd A. Bucknor

[Handwritten signature: Lloyd A. Bucknor]

TIME ON SITE: FROM - 7:30

TO - 3:30



MATERIALS TESTING LAB INC.

NEW YORK DIVISION

1529 JERICHO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

FIELD DENSITY REPORT (NUCLEAR)

PROJECT GRUMAN AIR FORCE FACILITY DATE MAY 8, 1996
 CLIENT FOSTER WHEELER TECHNICIAN Lloyd A. Bucknor
 TIME ARRIVE 7:30 AM TIME DEPART _____
 PERMIT # _____ JOB # _____

MATERIAL	LOCATION	DEPTH ELEVATION	W.D./D.D. LBS./CU FT		M%	PROCTOR		COMP	
			W.D.	D.D.		MAX D.D.			
SANDY SOIL				116.6	13.6%			121.0	
"	3B-47	120.42	132.4	116.6	13.6%			"	96.4
"	3B-45	128.0	129.9	115.0	13.0%			"	95.0
"	3B-58	122.78	131.8	115.6	14.0%			"	95.6
"	3B-52	120.86	131.0	116.2	12.6%			"	96.2
"	3B-46	120.43	132.0	117.1	12.7%			"	96.8
"	3B-57	121.7	130.6	115.5	13.1%			"	95.4
"	3B-51	119.89	130.5	115.6	12.4%			"	95.6
"	3B-53	119.55	131.3	116.7	12.5%			"	96.4

REMARKS:
MDR DERIVED FROM 5 point
PROCTOR

PROCTOR =
 WT OF MOLD EMPTY =
 WT OF MOLD & MATERIAL =
 (-) WT OF MOLD =
 (X) 30 = PROCTOR WT _____
 DRY DENSITY DERIVED FROM PROCTOR _____
 MAXIMUM DRY DENSITY _____
 DERIVED FROM FAMILY CHART # _____



MATERIALS TESTING LAB INC.

9500 -1- mi

NEW YORK DIVISION

1529 JERICHO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

FIELD DENSITY REPORT (NUCLEAR)

PROJECT _____
 CLIENT FOSTER WHEELER
 TIME ARRIVE _____
 PERMIT # _____

DATE MAY 9, 1996
 TECHNICIAN Lloyd A Bucknor
 TIME DEPART _____
 JOB # _____

MATERIAL	LOCATION	DEPTH	W.D./D.D.		M%	PROCTOR			
			LBS./CU FT			W.D.	D.D.	MAX D.D.	COMP
SANDY SOIL								121.0	
	SB. 62	120.73	131.0	116.3	12.6				95.9
	"	119.73	129.8	116.1	11.8				96.0
	"	118.73	130.3	116.7	11.6				96.4
	SB. 54	122.71	131.0	116.1	12.8				96.6
	SB. 53	118.55	131.0	118.5	10.5				97.9
	SB. 48	121.14	131.7	116.6	13.0				97.4
	SB. 45	122.0	131.7	116.0	13.5				96.4
	SB. 57	121.33	131.4	116.8	12.5				96.5
	"	120.33	129.2	115.9	14.1				95.8

REMARKS:
 MDR 121.0

PROCTOR =
 WT OF MOLD EMPTY =
 WT OF MOLD & MATERIAL =
 (-) WT OF MOLD =
 (X) 30 = PROCTOR WT _____
 DRY DENSITY DERIVED FROM PROCTOR _____
 MAXIMUM DRY DENSITY _____
 DERIVED FROM FAMILY CHART # _____



MATERIALS TESTING LAB INC.

NEW YORK DIVISION

1529 JERICO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

FIELD DENSITY REPORT (NUCLEAR)

PROJECT CHEMUNY AIR FORCE FACILITY DATE MAY 10, 1996
 CLIENT ROSTER WHEELER TECHNICIAN LLOYD A. BLACKMAN
 TIME ARRIVE 7:30 AM TIME DEPART 1:00 PM
 PERMIT # _____ JOB # _____

MATERIAL	LOCATION	DEPTH	W.D./D.D.		M%	PROCTOR		
			LBS./CU FT			W.D.	D.D.	MAX D.D.
SANDY SOIL	SB-53	CRACK	129.7	118.0	7.9			121.0

REMARKS:	PROCTOR =
	WT OF MOLD EMPTY =
	WT OF MOLD & MATERIAL =
	(-) WT OF MOLD =
	(X) 30 = PROCTOR WT _____
	DRY DENSITY DERIVED FROM PROCTOR _____
	MAXIMUM DRY DENSITY _____
	DERIVED FROM FAMILY CHART # _____



MATERIALS TESTING LAB INC.

NEW YORK DIVISION
1529 JERICHO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

FIELD DENSITY REPORT (NUCLEAR)

PROJECT GAULMANN AIR FORCE FACILITY
 CLIENT FOSTEL WHEELER
 TIME ARRIVE 7:30 AM
 PERMIT # _____

DATE MAY 10, 1998
 TECHNICIAN Lloyd A. Buckley
 TIME DEPART 3:30 PM
 JOB # _____

MATERIAL	LOCATION	DEPTH	W.D./D.D.		M%	PROCTOR		MAX D
			LBS./CU FT			W.D.	D.D.	
Spilly Soil	Site # 2 65th Ave	ELEVATION						121.0
"	29 200 AREA	136.4	122.4	11.2				"
"	SB. 62	Grade	136.1	122.4	11.2			"
"	SB. A1	118.73	130.8	118.3	10.6			"
"	"	Grade	131.9	119.5	10.4			"
"	SB. A5	121.0	129.4	118.7	9.0			"
"	"	120.0	129.6	123.5	6.4			"
"	"	Grade	135.0	121.7	10.9			"
"	SB. 54	Grade	128.4	120.4	6.6			"
"	SB. A7	119.42	123.9	116.6	6.3			"
"	"	Grade	132.9	120.8	10.0			"
"	SB. 57	120.7	131.8	119.2	10.6			"
"	"	118.7	130.7 118.7	115.6 118.7	10.2 11.6			"
"	"	Grade	131.6	119.3	9.99			"

REMARKS:
MDK 121.0

PROCTOR =
 WT OF MOLD EMPTY =
 WT OF MOLD & MATERIAL =
 (-) WT OF MOLD =
 (X) 30 = PROCTOR WT _____
 DRY DENSITY DERIVED FROM PROCTOR _____
 MAXIMUM DRY DENSITY _____
 DERIVED FROM FAMILY CHART # _____

**MATERIALS TESTING LAB INC.**

NEW YORK DIVISION

1529 JERICHO TURNPIKE • NEW HYDE PARK, NEW YORK 11040 • (516) 354-6600 • FAX (516) 354-6690

CLIENT: FOSTER WHEELER ENVIRONMENTAL **REPORT #:** 96FOS-005
 2300 LINCOLN HIGHWAY EAST **DATE:** 05/04/96
 ONE OXFORD VALLEY STE#200
 LANGHOM, PA 19047-1824

PROJECT: NAVY CONTRACT N62472-94-D-0398
SAMPLE: Soil Fill
TEST: GRADATION, #200 WASH, PLASTICITY
METHOD: ASTM 136, ASTM D1140, ASTM D4318, ASTM D2488
SAMPLED BY: CLIENT **ON:** 05/01/96 **DELIVERED BY:** CLIENT

<u>SIEVE SIZES</u>	<u>% PASSING</u> <u>#1</u>	<u>ITEM 2.11</u> <u>SPECIFICATION</u>
4"	100	-
1"	91.4	-
1/4	69.2	-
#40	37.6	-
#200	14.3	0-25

<u>PLATICITY INDEX</u>	<u>SPECIFICATION</u>	<u>SOIL CLASSIFICATION</u>
#1- N/P	12 MAX.	#1- SP

LOCATIONS:

#1- N/A



APPENDIX G
CHAIN OF CUSTODIES





Chain of Custody Record

QUA-4124-1

Client: **Halliburton NUS # 003642**
 Address: **661 Andersen Dr. Foster PMA #7**
 City: **Pittsburgh** State: **PA** Zip Code: **15220**
 Project Name: **NWIRP / Backupage**

Project Manager: **M. Spelman EA**
 Telephone Number (Area Code)/Fax Number: **412-921-8208**
 Site Contact: **C Fankos**
 Carrier/Waybill Number:

Date: **4/22/96** Chain Of Custody Number: **50978**
 Lab Number: Page: **1** of **2**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Special Instructions/ Conditions of Receipt			
			Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc	NaOH	
S2-A-09	4/22/96	4:40												
S2-A-10		4:43												
S2-A-11		4:46												
S2-A-14		4:52												
S2-A-15		4:48												
S2-A-15		4:48												MS/MSD
S2-A-16		4:55												
S2-A-17		4:35												
S2-A-18		4:30												
S2-A-19		4:58												
S2-A-20		5:01												
S2-A-30		5:05												


Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months longer than 3 months

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

1. Relinquished By: **CA Spund** Date: **4/22/96** Time: **6:00**
 2. Relinquished By: **FED** Date: Time:
 3. Relinquished By: Date: Time:

172 HR TURN AROUND

FOSTER WHEELER ENVIRONMENTAL CORPORATION
CHAIN OF CUSTODY RECORD

PROJECT	SAMPLERS: (Signature) #7551				NO. CONTAINERS	REMARKS OR SAMPLE LOCATION	PRESERVATION		
	SAMPLE NUMBER	DATE	TIME	GRAB			ICED	SPECIFY CHEMICALS ADDED AND FINAL pH IF KNOWN	
NWIRP/BETHPAGE 063642 HALLIBURTON MUS	SPA - 01	4/24/96	10:16	X	1	 Generate 1 composite for analysis save samples			
	SPA - 02		10:22	X	1				
	SPA - 03		10:25	X	1				
	SPA - 04		10:31	X	1				
	SPA - 05		10:35	X	1				
	SPC - 01		10:42	X	1				
	SPC - 02		10:48	X	1				
	SPC - 02		10:48	X	1			Field Duplicate	
	SPC - 03		10:52	X	1				
	SPC - 04		10:56	X	1				
SPC - 05		11:00	X	1					
Relinquished by: (Signature) ①		Date / Time		Received by: (Signature)	Relinquished by: (Signature) ④	Date / Time	Shipped via:		
CA [Signature]		4/24/96/130		FO Fed Exp					
Relinquished by: (Signature) ②		Date / Time		Received by: (Signature)	Received for Laboratory by: (Signature)	Date / Time	Shipping Ticket No.		
Relinquished by: (Signature) ③		Date / Time		Received by: (Signature)	Remarks				

APPENDIX H

VALIDATED CONFIRMATION SAMPLE ANALYTICAL RESULTS



MEMO TO: MARK SPERANZA
DATE: APRIL 29, 1996 - PAGE 2

PCB fraction

The surrogate spike compounds, decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX), were not detected in some samples. No qualifications were necessary since the surrogates were diluted out.

The Percent Recovery (%R) for TCX was above the upper quality control limit in the Matrix Spike Duplicate (MSD) sample, S2-A-01MSD. No actions were necessary since this is a quality control sample and the surrogate %Rs were acceptable in the unspiked sample.

The Matrix Spike (MS)/MSD analyses of sample S2-A-01 yielded high %Rs for Aroclor 1016. No action was warranted since no positive result was reported for this PCB in the unspiked sample.

It should be noted that the laboratory used only one column (instead of two) for the analyses of the environmental samples. Hence, the positive results reported for Aroclor 1248 were not confirmed by a second column analyses. Additionally, the positive results of sufficiently high concentration were not confirmed by GC/MS analysis. No validation action was taken for this deviation in the analytical methodology.

Upon review of the sample quantitation, the data reviewer noted some slight discrepancies between the positive results reported on the sample Form Is and the calculated results. Furthermore, the results for nondetected analytes reported on sample Form Is did not agree with the results presented on the electronic deliverables. The amended results were reported in Appendix A - Qualified Analytical Results and Appendix B - Results as Reported by the Laboratory.

Region II Worksheets were not used in the data validation since non-Contract Laboratory Procedures (CLP) were used in the analyses of the samples.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Validation (2/94)", as amended for use within EPA Region II, and the NEESA guidelines "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program" (20.2-047B, 6/88). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NEESA guidelines and the Quality Assurance Project Plan (QAPP)."



Brown & Root Environmental

Michelle L. Allen
Chemist/Data Validator

MEMO TO: MARK SPERANZA
DATE: APRIL 29, 1996 - PAGE 3



Brown & Root Environmental

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Qualifier Key

U - Value is a nondetect as reported by the laboratory or has been qualified based on blank contamination.

CTO 212 - NWIRP BETHPAGE
 SOIL DATA
 QUANTERRA - PITTSBURGH

	S2-A-01	S2-A-02	S2-A-03	S2-A-04	S2-A-05
SAMPLE NUMBER:	04/12/96	04/12/96	04/12/96	04/12/96	04/12/96
SAMPLE DATE:	A669W101	A669X101	A66A0101	A66A1101	A66A2101
LABORATORY ID:	Normal	Normal	Normal	Normal	Normal
QC_TYPE:	96.8 %	96.6 %	96.9 %	97.1 %	97.5 %
% SOLIDS:					
	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS
PESTICIDES/PCBs					
AROCLOR-1016	170 U UG/KG 34	U UG/KG 680	U UG/KG 340	U UG/KG 170	U UG/KG 170
AROCLOR-1221	170 U UG/KG 34	U UG/KG 680	U UG/KG 340	U UG/KG 170	U UG/KG 170
AROCLOR-1232	170 U UG/KG 34	U UG/KG 680	U UG/KG 340	U UG/KG 170	U UG/KG 170
AROCLOR-1242	170 U UG/KG 34	U UG/KG 680	U UG/KG 340	U UG/KG 170	U UG/KG 170
AROCLOR-1248	1000 UG/KG 170	UG/KG 6700	UG/KG 3000	UG/KG 1100	UG/KG 1100
AROCLOR-1254	170 U UG/KG 34	U UG/KG 680	U UG/KG 340	U UG/KG 170	U UG/KG 170
AROCLOR-1260	170 U UG/KG 34	U UG/KG 680	U UG/KG 340	U UG/KG 170	U UG/KG 170

CTO 212 - NWIRP BETHPAGE
 SOIL DATA
 QUANTERRA - PITTSBURGH

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:

	S2-A-01	S2-A-02	S2-A-03	S2-A-04	S2-A-05
	04/12/96	04/12/96	04/12/96	04/12/96	04/12/96
	A669W102	A669X102	A66A0102	A66A1102	A66A2102
	Normal	Normal	Normal	Normal	Normal
	96.8 %	96.6 %	96.9 %	97.1 %	97.5 %
	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS
GENERAL CHEMISTRY					
% MOISTURE	3.2	3.4	3.1	2.9	2.5
pH	7.0	7.0	7.4	7.3	6.9
					%

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A01

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A01

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D130001001

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 3 DECANTED: (Y/N) N

DATE RECEIVED: 04/12/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/16/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/17/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 5.0

GPC CLEANUP: (Y/N) N pH: 7.0

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: UG/KG Q

12674-11-2-----	AROCLOR-1016	170	U
11104-28-2-----	AROCLOR-1221	170	U
11141-16-5-----	AROCLOR-1232	170	U
53469-21-9-----	AROCLOR-1242	170	U
12672-29-6-----	AROCLOR-1248	1000	
11097-69-1-----	AROCLOR-1254	170	U
11096-82-5-----	AROCLOR-1260	170	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A02

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A01

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D130001002

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 3 DECANTED: (Y/N) N

DATE RECEIVED: 04/12/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/1³~~6~~/96 *cm 4/18/96*

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/17/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 1.0

GPC CLEANUP: (Y/N) N pH: 7.0

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	34	U
11104-28-2-----AROCLOR-1221	34	U
11141-16-5-----AROCLOR-1232	34	U
53469-21-9-----AROCLOR-1242	34	U
12672-29-6-----AROCLOR-1248	34 170	U
11097-69-1-----AROCLOR-1254	34	U
11096-82-5-----AROCLOR-1260	34	U

FORM I PEST

3/9

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A03

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A01

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D130001003

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 3 DECANDED: (Y/N) N

DATE RECEIVED: 04/12/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/18³/_{um} 17/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/17/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 20.0

GPC CLEANUP: (Y/N) N pH: 7.4

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	680	U
11104-28-2-----AROCLOR-1221	680	U
11141-16-5-----AROCLOR-1232	680	U
53469-21-9-----AROCLOR-1242	680	U
12672-29-6-----AROCLOR-1248	6500 6700	U
11097-69-1-----AROCLOR-1254	680	U
11096-82-5-----AROCLOR-1260	680	U

*MCA
4/22/96*

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A04

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A01

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D130001004

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 3 DECANTED: (Y/N) N

DATE RECEIVED: 04/12/96
3 cm 4/18/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/18/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/17/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 7.3

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	340	U
11104-28-2-----AROCLOR-1221	340	U
11141-16-5-----AROCLOR-1232	340	U
53469-21-9-----AROCLOR-1242	340	U
12672-29-6-----AROCLOR-1248	3000	
11097-69-1-----AROCLOR-1254	340	U
11096-82-5-----AROCLOR-1260	340	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A05

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A01

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D130001005

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 3 DECANTED: (Y/N) N

DATE RECEIVED: 04/12/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/13/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/17/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 5.0

GPC CLEANUP: (Y/N) N pH: 6.9

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	170	U
11104-28-2-----AROCLOR-1221	170	U
11141-16-5-----AROCLOR-1232	170	U
53469-21-9-----AROCLOR-1242	170	U
12672-29-6-----AROCLOR-1248	1100	
11097-69-1-----AROCLOR-1254	170	U
11096-82-5-----AROCLOR-1260	170	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A06

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A01

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D130001006

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 3 DECANTED: (Y/N) N

DATE RECEIVED: 04/12/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/13/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/17/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 1.0

GPC CLEANUP: (Y/N) N pH: 5.6

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG

Q

12674-11-2-----AROCLOR-1016	34	U
11104-28-2-----AROCLOR-1221	34	U
11141-16-5-----AROCLOR-1232	34	U
53469-21-9-----AROCLOR-1242	34	U
12672-29-6-----AROCLOR-1248	190	U
11097-69-1-----AROCLOR-1254	34	U
11096-82-5-----AROCLOR-1260	34	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A07

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A01

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D130001007

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 3 DECANTED: (Y/N) N

DATE RECEIVED: 04/12/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/13/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/17/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 20.0

GPC CLEANUP: (Y/N) N pH: 7.7

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	680	U
11104-28-2-----AROCLOR-1221	680	U
11141-16-5-----AROCLOR-1232	680	U
53469-21-9-----AROCLOR-1242	680	U
12672-29-6-----AROCLOR-1248	2500 8600	U
11097-69-1-----AROCLOR-1254	680	U
11096-82-5-----AROCLOR-1260	680	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A08

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A01

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D130001008

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 5 DECANTED: (Y/N) N

DATE RECEIVED: 04/12/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/13/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/17/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 8.2

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG

12674-11-2-----AROCLOR-1016	350	U
11104-28-2-----AROCLOR-1221	350	U
11141-16-5-----AROCLOR-1232	350	U
53469-21-9-----AROCLOR-1242	350	U
12672-29-6-----AROCLOR-1248	4100	U
11097-69-1-----AROCLOR-1254	350	U
11096-82-5-----AROCLOR-1260	350	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A12

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A01

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D130001010

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 2 DECANTED: (Y/N) N

DATE RECEIVED: 04/12/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/13/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/17/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 1.0

GPC CLEANUP: (Y/N) N pH: 7.4

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	34	U
11104-28-2-----AROCLOR-1221	34	U
11141-16-5-----AROCLOR-1232	34	U
53469-21-9-----AROCLOR-1242	34	U
12672-29-6-----AROCLOR-1248	34 110	
11097-69-1-----AROCLOR-1254	34	U
11096-82-5-----AROCLOR-1260	34	U

ml
4/22/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A13

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A01

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D130001011

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE *77* *4/18/96* DECANTED: (Y/N) N

DATE RECEIVED: 04/12/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/13/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/17/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 50.0

GPC CLEANUP: (Y/N) N pH: 7.5

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	1800	U
11104-28-2-----AROCLOR-1221	1800	U
11141-16-5-----AROCLOR-1232	1800	U
53469-21-9-----AROCLOR-1242	1800	U
12672-29-6-----AROCLOR-1248	20000 19000	U
11097-69-1-----AROCLOR-1254	1800	U
11096-82-5-----AROCLOR-1260	1800	U

114
4/22/96

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A29

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A01

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D130001009

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE *73 Lm 4/18/96* DECANTED: (Y/N) N

DATE RECEIVED: 04/12/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/13/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/17/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 20.0

GPC CLEANUP: (Y/N) N pH: 7.6

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:UG/KG Q

12674-11-2-----AROCLOR-1016	680	U
11104-28-2-----AROCLOR-1221	680	U
11141-16-5-----AROCLOR-1232	680	U
53469-21-9-----AROCLOR-1242	680	U
12672-29-6-----AROCLOR-1248	5500 <i>5600</i>	U
11097-69-1-----AROCLOR-1254	680	U
11096-82-5-----AROCLOR-1260	680	U

APPENDIX C
SUPPORT DOCUMENTATION

SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>	<u>DATE/TIME</u>	<u>SAMPLE</u>
A669W	C6D130001-001	S2-A-01	4/12/96	1:38
A669X	C6D130001-002	S2-A-02	4/12/96	1:35
A66A0	C6D130001-003	S2-A-03	4/12/96	1:45
A66A1	C6D130001-004	S2-A-04	4/12/96	1:40
A66A2	C6D130001-005	S2-A-05	4/12/96	1:33
A66A3	C6D130001-006	S2-A-06	4/12/96	1:30
A66A4	C6D130001-007	S2-A-07	4/12/96	2:00
A66A5	C6D130001-008	S2-A-08	4/12/96	2:05
A66A6	C6D130001-009	S2-A-29	4/12/96	1:53
A66A7	C6D130001-010	S2-A-12	4/12/96	2:20
A66A8	C6D130001-011	S2-A-13	4/12/96	2:15

ANALYTICAL METHODS SUMMARY

Parameters

Polychlorinated Biphenyls
pH - CLP
% Moisture-CLP

Methods

SW846 8080
CLP OLM01.8
CLP ILM 1.8

References:

- CLP USEPA Contract Laboratory Program Statement of Work for Organic Analysis Multi-Media, Multi-Concentration
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, September, 1986 and subsequent revisions

April 19, 1996



CASE NARRATIVE

Laboratory Name: Quanterra Environmental Services Pittsburgh, Pennsylvania
Project Name: NWIRP/Bethpage NY
Project Number: CTO#0212
Lot Number: C6D130001
SDG Number: S2-A-01
Sample Number:

S2-A-01	S2-A-02	S2-A-03	S2-A-04
S2-A-05	S2-A-06	S2-A-07	S2-A-08
S2-A-29	S2-A-12	S2-A-13	

Shipment

13 soil samples were received at the Quanterra Environmental Services Pittsburgh Laboratory on April 13, 1996, for various analysis.

PCBs

The laboratory requested additional sample volume of one of the samples for MS/MSD analysis. Due to a misunderstanding between the lab and the sampler, a separate unrelated sample, S2-A-30, was submitted. After discussion with the sampler, this sample was cancelled and the lab was asked to perform an MS/MSD on sample S2-A-01. Due to the rush TAT, the samples had already been extracted, so the MS/MSD was extracted on a separate day with an extraction blank and blank spike.

The MS/MSD on sample S2-A-01 had high recoveries on Aroclor1016. This was due to interference from Aroclor1248, which was found in the sample.

David F. Brennan

David F. Brennan, Project Manager

April 19, 1996

Date

BBB

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A01

Level: (low/med) LOW

um 4/18/96

EPA SAMPLE NO.	S1 (DBE) # <i>DCB</i>	OTHER <i>TCX</i>
01 PBLK1	71	59
02 PBLK2	81	64
03 BLANKSPIKE1	81	124
04 BLANKSPIKE2	80	76
05 S2A01	84	72
06 S2A01MS	92	72
07 S2A01MSD	123	195
08 S2A02	139	130
09 S2A03	0 D	0 D
10 S2A04	89	90
11 S2A05	75	68
12 S2A06	79	75
13 S2A07	0 D	0 D
14 S2A08	88	73
15 S2A12	77	72
16 S2A13	0 D	0 D
17 S2A29	0 D	0 D

ADVISORY
QC LIMITS
(20-150)

S1 (DBE) = *Dechlorosiphnyl*
Dibutylchlorodate
DCB um 4/18/96 m 4/18/96

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out



Chain of Custody Record

QUA-4124-1

Client: Harrisburg NUS Project Manager: M Spawanza Chain of Custody Number: 50977
 Address: Foster Plaza #7 Telephone Number (Area Code)/Fax Number: 412-921-896 Date: 4/12/96 Page 1 of 1
 City: Pittsburgh State: PA Zip Code: 15220 Lab Contact: C Farhos Lab Number: 412-921-896

Project Name: CXO 212 NW 1st / Bethpage Contract/Purchase Order/Quote No.:
 Matrix: Aqueous, Sed, Soil
 Containers & Preservatives: H2SO4, HNO3, HCl, NaOH, ZnAc, NaOH

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Special Instructions/ Conditions of Receipt
S2-A-01	4/12/96	1:38	ms/msd
S2-A-02		1:35	
S2-A-03		1:45	
S2-A-04		1:40	
S2-A-05		1:33	
S2-A-06		1:30	
S2-A-07		2:00	
S2-A-08		2:05	
S2-A-09		1:53	
S2-A-12		2:20	
S2-A-13		2:15	
S2-A-30		1:55	

Possible Hazard Identification: Non-Hazard, Flammable, Skin Irritant, Poison B, Unknown, Other
 Turn Around Time Required: 24 Hours, 48 Hours, 7 Days, 14 Days, 21 Days
 Disposal By Lab: Archive For: Months longer than 3 months

1. Requisitioned By: [Signature] Date: 4/12/96 Time: 2:50
 2. Requisitioned By: [Signature] Date: 4/13/96 Time: 10:30
 3. Requisitioned By: [Signature] Date: 4/13/96 Time: 3:10

Comments

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: QUANTERRA PITT

CONTRACT:

LAB CODE: QPITT

CASE NO.: NWIRP

SAS NO.:

SDG NO.: S2A01

MATRIX SPIKE - EPA SAMPLE NO.: S2A01

LEVEL: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS %REC	QC LIMITS REC
AR1016	333	0	900	270	(50-150)
AR1260	333	0	340	102	(50-150)

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD %REC	%RPD	RPD	QC LIMITS REC
AR1016	333	900	270	0	(50-150)	(50-150)
AR1260	333	440	132	26	(50-150)	(50-150)

RPD: 0 OUT OF 2 OUTSIDE LIMITS

SPIKE RECOVERY: 2 OUT OF 4 OUTSIDE LIMITS

COMMENTS:

FORM III PBC-2

BB

8E

PESTICIDE EVALUATION STANDARDS SUMMARY
Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A01

Instrument ID: 58903A07

GC Column ID: DB608

Dates of Analyses: 04/14/96 to 04/17/96

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
	=====	=====	=====	=====	=====	=====
01	AR1660	EA14001	04/14/96	2115	0.0	
02	AR1660	EA14002	04/14/96	2134	0.0	
03	AR1660	EA14003	04/14/96	2154	0.0	
04	AR1660	EA14004	04/14/96	2214	0.0	
05	AR1660	EA14005	04/14/96	2233	0.0	
06	AR1221	EA14006	04/14/96	2253	0.0	
07	AR1221	EA14007	04/14/96	2312	0.0	
08	AR1221	EA14008	04/14/96	2332	0.0	
09	AR1221	EA14009	04/14/96	2351	0.0	
10	AR1221	EA14010	04/15/96	0011	0.0	
11	AR1232	EA14011	04/15/96	0030	0.0	
12	AR1232	EA14012	04/15/96	0050	0.0	
13	AR1232	EA14013	04/15/96	0110	0.0	
14	AR1232	EA14014	04/15/96	0129	0.0	
15	AR1232	EA14015	04/15/96	0149	0.0	
16	AR1242	EA14016	04/15/96	0208	0.1	
17	AR1242	EA14017	04/15/96	0228	0.0	
18	AR1242	EA14018	04/15/96	0247	0.0	
19	AR1242	EA14019	04/15/96	0307	0.0	
20	AR1242	EA14020	04/15/96	0327	0.0	
21	AR1248	EA14021	04/15/96	0346	0.0	
22	AR1248	EA14022	04/15/96	0406	0.0	
23	AR1248	EA14023	04/15/96	0425	0.1	
24	AR1248	EA14024	04/15/96	0445	0.0	
25	AR1248	EA14025	04/15/96	0504	0.0	
26	AR1254	EA14026	04/15/96	0524	0.0	
27	AR1254	EA14027	04/15/96	0544	0.0	
28	AR1254	EA14028	04/15/96	0603	0.0	
29	AR1254	EA14029	04/15/96	0623	0.0	
30	AR1254	EA14030	04/15/96	0642	0.0	
31	AR1221	EA17002	04/17/96	0617	0.0	
32	AR1232	EA17003	04/17/96	0637	0.0	
33	AR1242	EA17004	04/17/96	0656	0.0	
34	AR1248	EA17005	04/17/96	0716	0.0	
35	AR1254	EA17006	04/17/96	0736	0.0	
36	AR1660	EA17008	04/17/96	0830	-0.1	
37	S2A02	C6D130001002	04/17/96	0852	-0.1	
38	S2A06	C6D130001006	04/17/96	0911	0.0	

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A01

Instrument ID: 58903A07

GC Column ID: DB608

Dates of Analyses: 04/14/96 to 04/17/96

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	S2A12	C6D130001010	04/17/96	0931	0.1	
02	ZZZZZ	VOID41701	04/17/96	0951	0.0	
03	S2A05	C6D130001005	04/17/96	1010	0.1	
04	ZZZZZ	VOID41702	04/17/96	1030		*
05	S2A03	C6D130001003	04/17/96	1049		*
06	S2A07	C6D130001007	04/17/96	1109		*
07	PBLK1	C6D130001BLK	04/17/96	1129	0.1	
08	BLANKSPIKE2	C6D130001LCS	04/17/96	1148	0.1	
09	AR1660	EA17019	04/17/96	1208	0.1	
10	S2A29	C6D130001009	04/17/96	1227		*
11	S2A13	C6D130001011	04/17/96	1247		*
12	AR1660	EA17022	04/17/96	1306	0.1	
13	S2A04	C6D130001004	04/17/96	1339	-0.1	
14	S2A08	C6D130001008	04/17/96	1359	0.1	
15	PBLK2	BLKC6D130001	04/17/96	1418	0.1	
16	BLANKSPIKE1	LCSC6D130001	04/17/96	1438	0.1	
17	S2A01	C6D130001001	04/17/96	1458	0.1	
18	S2A01MS	6D130001001S	04/17/96	1517	0.1	
19	S2A01MSD	6D130001001D	04/17/96	1537	0.1	
20	AR1660	EA17030	04/17/96	1556	0.1	

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

B

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

BLANKSPIKE1

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A01

GC Column ID (1): DB608

GC Column ID (2):

Instrument ID (1): 58903A07

Instrument ID (2):

Lab Sample ID: LCSC6D130001

Lab File ID:

(only if confirmed by GCMS)

```
=====
```

PESTICIDE/PCB	RETENTION TIME	RT WINDOW OF STANDARD		QUANT? (Y/N)	GC/MS? (Y/N)
		FROM	TO		
01 Aroclor-1016	Column 1 3.79	3.72	3.86	Y	N
02	Column 2	0.00	0.00	N	N
03 Aroclor-1260	Column 1 8.56	8.50	8.64	Y	N
04	Column 2	0.00	0.00	N	N

Comments:

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

S2A01

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A01

GC Column ID (1): DB608

GC Column ID (2):

Instrument ID (1): 58903A07

Instrument ID (2):

Lab Sample ID: C6D130001001

Lab File ID:

(only if confirmed by GCMS)

=====

PESTICIDE/PCB	RETENTION TIME	RT WINDOW		QUANT? (Y/N)	GC/MS? (Y/N)
		OF STANDARD FROM	TO		
01 Aroclor-1248	Column 1 5.24	5.17	5.31	Y	N
02	Column 2	0.00	0.00	N	N

Comments:

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

S2A02

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A01

GC Column ID (1): DB608

GC Column ID (2):

Instrument ID (1): 58903A07

Instrument ID (2):

Lab Sample ID: C6D130001002

Lab File ID:

(only if confirmed by GCMS)

=====

PESTICIDE/PCB	RETENTION TIME	RT WINDOW		QUANT? (Y/N)	GC/MS? (Y/N)
		OF STANDARD FROM	TO		
01 Aroclor-1248	Column 1 5.25	5.17	5.31	Y	N
02	Column 2	0.00	0.00	N	N

Comments:

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

S2A03

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A01

GC Column ID (1): DB608

GC Column ID (2):

Instrument ID (1): 58903A07

Instrument ID (2):

Lab Sample ID: C6D130001003

Lab File ID:

(only if confirmed by GCMS)

=====

PESTICIDE/PCB	RETENTION TIME	RT WINDOW OF STANDARD		QUANT? (Y/N)	GC/MS? (Y/N)
		FROM	TO		
01 Aroclor-1248	Column 1 5.24	5.17	5.31	Y	N
02	Column 2	0.00	0.00	N	N

Comments:

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

S2A05

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A01

GC Column ID (1): DB608

GC Column ID (2):

Instrument ID (1): 58903A07

Instrument ID (2):

Lab Sample ID: C6D130001005

Lab File ID:

(only if confirmed by GCMS)

=====

PESTICIDE/PCB	RETENTION TIME	RT WINDOW		QUANT? (Y/N)	GC/MS? (Y/N)
		OF STANDARD FROM	TO		
01 Aroclor-1248	Column 1 5.24	5.17	5.31	Y	N
02	Column 2	0.00	0.00	N	N

Comments:

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

S2A06

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A01

GC Column ID (1): DB608

GC Column ID (2):

Instrument ID (1): 58903A07

Instrument ID (2):

Lab Sample ID: C6D130001006

Lab File ID:

(only if confirmed by GCMS)

=====

PESTICIDE/PCB	RETENTION TIME	RT WINDOW OF STANDARD		QUANT? (Y/N)	GC/MS? (Y/N)
		FROM	TO		
01 Aroclor-1248	Column 1 5.24	5.17	5.31	Y	N
02	Column 2	0.00	0.00	N	N

Comments:

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

S2A08

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A01

GC Column ID (1): DB608

GC Column ID (2):

Instrument ID (1): 58903A07

Instrument ID (2):

Lab Sample ID: C6D130001008

Lab File ID:

(only if confirmed by GCMS)

=====

PESTICIDE/PCB	RETENTION TIME	RT WINDOW OF STANDARD		QUANT? (Y/N)	GC/MS? (Y/N)
		FROM	TO		
01 Aroclor-1248	Column 1 5.24	5.17	5.31	Y	N
02	Column 2	0.00	0.00	N	N

Comments:

10
PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

S2A12

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A01

GC Column ID (1): DB608

GC Column ID (2):

Instrument ID (1): 58903A07

Instrument ID (2):

Lab Sample ID: C6D130001010

Lab File ID:

(only if confirmed by GCMS)

=====

PESTICIDE/PCB	RETENTION TIME	RT WINDOW		QUANT? (Y/N)	GC/MS? (Y/N)
		OF STANDARD FROM	TO		
01 Aroclor-1248	Column 1 5.24	5.17	5.31	Y	N
02	Column 2	0.00	0.00	N	N

Comments:



MEMO TO: MARK SPERANZA
DATE: MAY 13, 1996 - PAGE 2

SUMMARY

PCB Organic Compound Analysis

It should be noted that the laboratory case narrative states that the samples were received on April 13, 1996. However, this date is incorrect. Based on the dates reported on the chain of custody forms, the samples were received in the laboratory on April 23, 1996. The data reviewer has amended the appropriate form.

A high Percent Recovery (%R) for the surrogate decachlorobiphenyl (DCB) was reported in sample S2A13R. However, no action was taken since Region II data validation protocol requires both surrogates to be noncompliant in order to take action.

The Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of sample S2-A-15 yielded high %Rs for Aroclor 1016. No action was necessary since Region II data validation protocol does not require action based on MS/MSD noncompliances alone.

A transcription/calculation error was noted in the quantitation of Aroclor 1248 in the following samples: S2-A-15, S2-A-16, S2-A-17, S2-A-18, S2-A-19, S2-A-20 and S2-A-30. The results reported for this compound in the aforementioned samples were reported lower than the calculated value. The data reviewer has amended the appropriate forms based on compound quantitation for each sample.

It should be noted that Region II requires a set of Regional worksheets to be completed by the data reviewer concerning compliances/noncompliances noted in the data package. However, these worksheets are based on the Contract Laboratory Program (CLP) Statement of Work (SOW) OLM01.8 and the samples were analyzed via SW-846. Therefore, since the worksheets do not apply to SW-846, they were not included with this validation letter.

No other problems affecting data usability were noted.

EXECUTIVE SUMMARY

Laboratory Performance Issues: A high %R was noted for the surrogate DCB in sample S2-A-13R. Several samples had incorrect results reported for Aroclor 1248.

Other Factors Affecting Data Quality: The MS/MSD analyses of sample S2-A-15 yielded high %Rs for Aroclor 1016.

MEMO TO: MARK SPERANZA
DATE: MAY 13, 1996 - PAGE 3

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (1/92), as amended for use within EPA Region II, and the NEESA guidelines "Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program" (20.2-047B, 6/88). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NEESA guidelines and the Quality Assurance Project Plan (QAPP)."



Brown and Root Environmental

Anne K. Battista
Chemist/Data Validator



Brown and Root Environmental
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

CTO 212 - NWIRP BETHPAGE
 SOIL DATA
 QUANTERRA - PITTSBURGH

	S2-A-09 04/22/96 A6739101 Dilution 99.0 %	S2-A-10 04/22/96 A673A101 Dilution 98.0 %	S2-A-11 04/22/96 A673C101 Normal 99.0 %	S2-A-13R 04/22/96 A673M101 Dilution 93.0 %	S2-A-14 04/22/96 A673D101 Dilution 100.0 %
	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS
SAMPLE NUMBER:	330	170	33.0	350	160
SAMPLE DATE:	U UG/KG	U UG/KG	U UG/KG	U UG/KG	U UG/KG
LABORATORY ID:	330	170	33.0	350	160
QC_TYPE:	U UG/KG	U UG/KG	U UG/KG	U UG/KG	U UG/KG
% SOLIDS:	330	170	33.0	350	160
	U UG/KG	U UG/KG	U UG/KG	U UG/KG	U UG/KG
PESTICIDES/PCBs	4000	1400	33.0	4900	1800
AROCLOR-1016	330	170	33.0	350	160
AROCLOR-1221	U UG/KG	U UG/KG	U UG/KG	U UG/KG	U UG/KG
AROCLOR-1232	330	170	33.0	350	160
AROCLOR-1242	U UG/KG	U UG/KG	U UG/KG	U UG/KG	U UG/KG
AROCLOR-1248	4000	1400	33.0	4900	1800
AROCLOR-1254	330	170	33.0	350	160
AROCLOR-1260	U UG/KG	U UG/KG	U UG/KG	U UG/KG	U UG/KG

CTO 212 - NWIRP BETHPAGE
 SOIL DATA
 QUANTERRA - PITTSBURGH

	S2-A-15 04/22/96 A673E101 Dilution 99.0 %	S2-A-16 04/22/96 A673F101 Dilution 98.0 %	S2-A-17 04/22/96 A673G101 Dilution 98.0 %	S2-A-18 04/22/96 A673H101 Dilution 98.0 %	S2-A-19 04/22/96 A673J101 Dilution 98.0 %
	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS
PESTICIDES/PCBs					
AROCLOR-1016	67.0 U UG/KG 340	U UG/KG 340	U UG/KG 170	U UG/KG 67.0	U UG/KG 170
AROCLOR-1221	67.0 U UG/KG 340	U UG/KG 340	U UG/KG 170	U UG/KG 67.0	U UG/KG 170
AROCLOR-1232	67.0 U UG/KG 340	U UG/KG 340	U UG/KG 170	U UG/KG 67.0	U UG/KG 170
AROCLOR-1242	67.0 U UG/KG 340	U UG/KG 340	U UG/KG 170	U UG/KG 67.0	U UG/KG 170
AROCLOR-1248	690 UG/KG 5500	UG/KG 5500	UG/KG 2300	UG/KG 680	UG/KG 1400
AROCLOR-1254	67.0 U UG/KG 340	U UG/KG 340	U UG/KG 170	U UG/KG 67.0	U UG/KG 170
AROCLOR-1260	67.0 U UG/KG 340	U UG/KG 340	U UG/KG 170	U UG/KG 67.0	U UG/KG 170

CTO 212 - NWIRP BETHPAGE
 SOIL DATA
 QUANTERRA - PITTSBURGH

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:

S2-A-20
 04/22/96
 A673K101
 Dilution
 99.0 %

S2-A-30
 04/22/96
 A673L101
 Dilution
 98.0 %

//
 100.0 %

//
 100.0 %

//
 100.0 %

	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS	RESULT QUAL UNITS
AROCLOR-1016	170 U UG/KG	670 U UG/KG			
AROCLOR-1221	170 U UG/KG	670 U UG/KG			
AROCLOR-1232	170 U UG/KG	670 U UG/KG			
AROCLOR-1242	170 U UG/KG	670 U UG/KG			
AROCLOR-1248	2400 UG/KG	6700 UG/KG			
AROCLOR-1254	170 U UG/KG	670 U UG/KG			
AROCLOR-1260	170 U UG/KG	670 U UG/KG			

PESTICIDES/PCBs

Data Qualifier Key

U - Value is a nondetect as reported by the laboratory or has been qualified based on blank contamination.

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A09

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A09

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D230002001

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 1 DECANTED: (Y/N) N

DATE RECEIVED: 04/23/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/23/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/24/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.00

GPC CLEANUP: (Y/N) N pH: 7.0

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG

12674-11-2-----AROCLOR-1016	330	
11104-28-2-----AROCLOR-1221	330	
11141-16-5-----AROCLOR-1232	330	
53469-21-9-----AROCLOR-1242	330	
12672-29-6-----AROCLOR-1248	4000	
11097-69-1-----AROCLOR-1254	330	
11096-82-5-----AROCLOR-1260	330	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A10

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A09

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D230002002

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 2 DECANTED: (Y/N) N

DATE RECEIVED: 04/23/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/23/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/24/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 5.0

GPC CLEANUP: (Y/N) N pH: 6.7

SULFUR CLEANUP: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	Q
---------	----------	----------------------------	---

12674-11-2-----AROCLOR-1016	170	U
11104-28-2-----AROCLOR-1221	170	U
11141-16-5-----AROCLOR-1232	170	U
53469-21-9-----AROCLOR-1242	170	U
12672-29-6-----AROCLOR-1248	1400	
11097-69-1-----AROCLOR-1254	170	U
11096-82-5-----AROCLOR-1260	170	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A11

LAB CODE: QPITT	CASE NO.: NWIRP	SAS NO.:	SDG.: S2A09
MATRIX: (soil/water) SOIL		LAB SAMPLE ID: C6D230002003	
SAMPLE wt/vol: 30.0	(g/ml) G	LAB FILE ID:	
% MOISTURE 1	DECANTED: (Y/N) N	DATE RECEIVED: 04/23/96	
EXTRACTION: (SEPF/CONT/SONC) SONC		DATE EXTRACTED: 04/23/96	
CONCENTRATED EXTRACT VOLUME 10000	(uL)	DATE ANALYZED: 04/24/96	
INJECTION VOLUME: 1.00	(uL)	DILUTION FACTOR: 1.0	
GPC CLEANUP: (Y/N) N	pH: 5.0	SULFUR CLEANUP: (Y/N) N	
CAS NO.	COMPOUND	CONCENTRATION UNITS: UG/KG	

12674-11-2-----	AROCLOR-1016	33	U
11104-28-2-----	AROCLOR-1221	33	U
11141-16-5-----	AROCLOR-1232	33	J
53469-21-9-----	AROCLOR-1242	33	I
12672-29-6-----	AROCLOR-1248	33	U
11097-69-1-----	AROCLOR-1254	33	U
11096-82-5-----	AROCLOR-1260	33	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A13R

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A09

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D230002012

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 7 DECANTED: (Y/N) N

DATE RECEIVED: 04/23/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/23/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/25/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 6.9

SULFUR CLEANUP: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:UG/KG	Q
---------	----------	---------------------------	---

12674-11-2-----AROCLOR-1016	350	U
11104-28-2-----AROCLOR-1221	350	U
11141-16-5-----AROCLOR-1232	350	U
53469-21-9-----AROCLOR-1242	350	U
12672-29-6-----AROCLOR-1248	4900	
11097-69-1-----AROCLOR-1254	350	U
11096-82-5-----AROCLOR-1260	350	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A14

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A09

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D230002004

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 0 DECANTED: (Y/N) N

DATE RECEIVED: 04/23/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/23/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/24/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 5.0

GPC CLEANUP: (Y/N) N pH: 6.6

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG

12674-11-2-----	AROCLOR-1016	160	U
11104-28-2-----	AROCLOR-1221	160	U
11141-16-5-----	AROCLOR-1232	160	
53469-21-9-----	AROCLOR-1242	160	
12672-29-6-----	AROCLOR-1248	1800	
11097-69-1-----	AROCLOR-1254	160	
11096-82-5-----	AROCLOR-1260	160	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A15

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A09

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D230002005

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 1 DECANTED: (Y/N) N

DATE RECEIVED: 04/23/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/23/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/24/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 2.0

GPC CLEANUP: (Y/N) N pH: 6.4

SULFUR CLEANUP: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:UG/KG	Q
---------	----------	---------------------------	---

12674-11-2-----AROCLOR-1016	67		U
11104-28-2-----AROCLOR-1221	67		U
11141-16-5-----AROCLOR-1232	67		U
53469-21-9-----AROCLOR-1242	67		U
12672-29-6-----AROCLOR-1248	668 690		
11097-69-1-----AROCLOR-1254	67		U
11096-82-5-----AROCLOR-1260	67		U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A16

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A09

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D230002006

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 2 DECANTED: (Y/N) N

DATE RECEIVED: 04/23/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/23/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/24/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 6.4

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG

12674-11-2-----AROCLOR-1016	340	
11104-28-2-----AROCLOR-1221	340	
11141-16-5-----AROCLOR-1232	340	
53469-21-9-----AROCLOR-1242	340	
12672-29-6-----AROCLOR-1248	5000 <i>5500</i>	
11097-69-1-----AROCLOR-1254	340	
11096-82-5-----AROCLOR-1260	340	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A17

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A09

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D230002007

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 2 DECANTED: (Y/N) N

DATE RECEIVED: 04/23/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/23/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/24/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 5.0

GPC CLEANUP: (Y/N) N pH: 5.8

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	170	U
11104-28-2-----AROCLOR-1221	170	U
11141-16-5-----AROCLOR-1232	170	U
53469-21-9-----AROCLOR-1242	170	U
12672-29-6-----AROCLOR-1248	170 2300	
11097-69-1-----AROCLOR-1254	170	U
11096-82-5-----AROCLOR-1260	170	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A18

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A09

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D230002008

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 2 DECANTED: (Y/N) N

DATE RECEIVED: 04/23/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/23/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/24/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 2.0

GPC CLEANUP: (Y/N) N pH: 6.9

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG

12674-11-2-----	AROCLOR-1016	67	U
11104-28-2-----	AROCLOR-1221	67	U
11141-16-5-----	AROCLOR-1232	67	U
53469-21-9-----	AROCLOR-1242	67	U
12672-29-6-----	AROCLOR-1248	650 680	U
11097-69-1-----	AROCLOR-1254	67	U
11096-82-5-----	AROCLOR-1260	67	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A19

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A09

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D230002009

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 2 DECANTED: (Y/N) N

DATE RECEIVED: 04/23/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/23/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/25/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 5.00

GPC CLEANUP: (Y/N) N pH: 5.1

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:UG/KG Q

12674-11-2-----AROCLOR-1016	170	U
11104-28-2-----AROCLOR-1221	170	U
11141-16-5-----AROCLOR-1232	170	U
53469-21-9-----AROCLOR-1242	170	U
12672-29-6-----AROCLOR-1248	170 1400	U
11097-69-1-----AROCLOR-1254	170	U
11096-82-5-----AROCLOR-1260	170	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A20

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A09

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D230002010

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 1 DECANTED: (Y/N) N

DATE RECEIVED: 04/23/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/23/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/25/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 5.00

GPC CLEANUP: (Y/N) N pH: 5.4

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG

12674-11-2-----AROCLOR-1016	170	U
11104-28-2-----AROCLOR-1221	170	U
11141-16-5-----AROCLOR-1232	170	U
53469-21-9-----AROCLOR-1242	170	U
12672-29-6-----AROCLOR-1248	170 23002400	U
11097-69-1-----AROCLOR-1254	170	U
11096-82-5-----AROCLOR-1260	170	U

FORM I PEST

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

S2A30

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: S2A09

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D230002011

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 2 DECANTED: (Y/N) N

DATE RECEIVED: 04/23/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/23/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/25/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 20.00

GPC CLEANUP: (Y/N) N pH: 6.3

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	670	U
11104-28-2-----AROCLOR-1221	670	U
11141-16-5-----AROCLOR-1232	670	U
53469-21-9-----AROCLOR-1242	670	U
12672-29-6-----AROCLOR-1248	6500 6700	
11097-69-1-----AROCLOR-1254	670	U
11096-82-5-----AROCLOR-1260	670	U

APPENDIX C
SUPPORT DOCUMENTATION

April 29, 1996



CASE NARRATIVE

Laboratory Name: Quanterra Environmental Services Pittsburgh, Pennsylvania
 Project Name: NWIRP/Bethpage NY
 Project Number: CTO#0212
 Lot Number: C6D230002
 SDG Number: S2-A-09
 Sample Number:

S2-A-09	S2-A-10	S2-A-11	S2-A-14
S2-A-15	S2-A-16	S2-A-17	S2-A-18
S2-A-19	S2-A-20	S2-A-30	S2-A-13R

Shipment

12 soil samples were received at the Quanterra Environmental Services Pittsburgh Laboratory on April 23, 1996, for PCB analysis.

AKB
5-3-96

PCBs

The MS/MSD on sample S2-A-15 had high recoveries on Aroclor1016. This was due to interference from Aroclor1248, which was found in the sample.

David F. Brennan
David F. Brennan, Project Manager

04/29/96
Date

ANALYTICAL METHODS SUMMARY

Parameters

[REDACTED]
pH - CLP
* Moisture-CLP

Methods

[REDACTED]
CLP OLM01.8
CLP ILM 1.8

References:

- CLP USEPA Contract Laboratory Program Statement of Work for Organic Analysis Multi-Media, Multi-Concentration
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, September, 1986 and subsequent revisions

BB

8E

PESTICIDE EVALUATION STANDARDS SUMMARY
Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A09

Instrument ID: 58903A07

GC Column ID: DB608

Dates of Analyses: 04/24/96 to 04/25/96

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
	=====	=====	=====	=====	=====	=====
01	AR1660	EA24001	04/24/96	0953	-0.2	
02	AR1660	EA24002	04/24/96	1014	-0.1	
03	AR1660	EA24003	04/24/96	1035	-0.1	
04	AR1660	EA24004	04/24/96	1055	-0.1	
05	AR1660	EA24005	04/24/96	1116	-0.1	
06	AR1221	EA24006	04/24/96	1136	-0.1	
07	AR1221	EA24007	04/24/96	1157	-0.1	
08	AR1221	EA24008	04/24/96	1218	-0.1	
09	AR1221	EA24009	04/24/96	1238	-0.1	
10	AR1221	EA24010	04/24/96	1259	-0.1	
11	AR1232	EA24011	04/24/96	1319	0.0	
12	AR1232	EA24012	04/24/96	1340	0.0	
13	AR1232	EA24013	04/24/96	1401	0.0	
14	AR1232	EA24014	04/24/96	1421	0.0	
15	AR1232	EA24015	04/24/96	1442	0.0	
16	AR1242	EA24016	04/24/96	1502	0.0	
17	AR1242	EA24017	04/24/96	1523	0.0	
18	AR1242	EA24018	04/24/96	1544	0.0	
19	AR1242	EA24019	04/24/96	1604	0.0	
20	AR1242	EA24020	04/24/96	1625	0.0	
21	AR1248	EA24021	04/24/96	1645	0.0	
22	AR1248	EA24022	04/24/96	1706	0.0	
23	AR1248	EA24023	04/24/96	1726	0.0	
24	AR1248	EA24024	04/24/96	1747	0.0	
25	AR1248	EA24025	04/24/96	1808	0.0	
26	AR1254	EA24026	04/24/96	1828	0.0	
27	AR1254	EA24027	04/24/96	1849	0.0	
28	AR1254	EA24028	04/24/96	1909	0.0	
29	AR1254	EA24029	04/24/96	1930	0.0	
30	AR1254	EA24030	04/24/96	1950	0.0	
31	PBLK1	BLKC6D230002	04/24/96	2011	0.0	
32	PCBSPIKE1	LCSC6D230002	04/24/96	2032	0.0	
33	S2A09	C6D230002001	04/24/96	2052	0.1	
34	S2A10	C6D230002002	04/24/96	2113	0.0	
35	S2A11	C6D230002003	04/24/96	2133	0.0	
36	S2A14	C6D230002004	04/24/96	2154	0.0	
37	S2A15	C6D230002005	04/24/96	2214	0.0	
38	S2A15MS	6D230002005S	04/24/96	2235	0.0	

* Values outside of QC limits (2.0% for packed columns,
0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A09

Instrument ID: 58903A07

GC Column ID: DB608

Dates of Analyses: 04/24/96 to 04/25/96

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	S2A15MSD	6D230002005D	04/24/96	2256	0.0	
02	S2A16	C6D230002006	04/24/96	2316	0.0	
03	AR1660	EA24041	04/24/96	2337	0.0	
04	S2A17	C6D230002007	04/24/96	2357	0.1	
05	S2A18	C6D230002008	04/25/96	0018	0.1	
06	S2A19	C6D230002009	04/25/96	0038	0.1	
07	S2A20	C6D230002010	04/25/96	0059	0.1	
08	ZZZZZ	VOID1	04/25/96	0120		*
09	S2A13R	C6D230002012	04/25/96	0140	0.5	
10	AR1660	EA24048	04/25/96	0201	0.0	
11	AR1660	EA25001	04/25/96	1155	-0.1	
12	S2A30	C6D230002011	04/25/96	1215		*
13	AR1660	EA25003	04/25/96	1236	0.0	

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

BB

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: S2A09

Level: (low/med) LOW

EPA SAMPLE NO.	S1 (DBC) #	OTHER TCX
01 PBLK1	87	81 0
02 PCBSPIKE1	96	84 0
03 S2A09	134	80 0
04 S2A10	92	82 0
05 S2A11	86	80 0
06 S2A13R	215 *	80 0
07 S2A14	99	88 0
08 S2A15	89	81 0
09 S2A15MS	93	82 0
10 S2A15MSD	100	87 0
11 S2A16	92	80 0
12 S2A17	97	88 0
13 S2A18	97	82 0
14 S2A19	87	82 0
15 S2A20	87	82 0
16 S2A30	0 D	0 0

ADVISORY
QC LIMITS
(20-150)

S1 (DBC) = Dibutylchloroendate

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

LM 1/21/96

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: QUANTERRA PITT

CONTRACT:

LAB CODE: QPITT

CASE NO.: NWIRP

SAS NO.:

SDG NO.: S2A09

MATRIX SPIKE - EPA SAMPLE NO.: S2A15
2
01/21/11

LEVEL: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS %REC	QC LIMITS REC
AR1016	330	0	647	196	(50-150)
AR1260	330	0	348	105	(50-150)

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD %REC	%RPD	RPD	QC LIMITS REC
AR1016	330	681	206	5.0	(50-150)	(50-150)
AR1260	330	373	113	7.3	(50-150)	(50-150)

RPD: 0 OUT OF 2 OUTSIDE LIMITS

SPIKE RECOVERY: 2 OUT OF 4 OUTSIDE LIMITS

COMMENTS:

FORM III PBC-2

Bethpage, NY

S2A09 Aroclor 1248 4,000 ug/kg column 1

AREAS
603520
351317
469655
389725
+ 161243

$$\frac{395092}{335000} \times \frac{10,000 \text{ ul}}{30.0 \text{ g}} \times \frac{10 \text{ DLF}}{.99 \% \text{ sol}} = 3,971 \text{ ug/kg} = 4,000$$

$$1975460 \div 5 = 395092$$

S2A10 Aroclor 1248 1400 ug/kg

459581
249966
315559
252549
+ 103966

$$\frac{276324}{335000} \times \frac{10,000}{30} \times \frac{5}{.98} = 1402 = 1400$$

$$1381621 \div 5 = 276324$$

S2A13R Aroclor 1248 4,900 ug/kg

$$2275300 \div 5 = \frac{455060}{335000} \times \frac{10,000}{30} \times \frac{10}{.93} = 4,868 = 4900$$

S2A14 Aroclor 1248 1,800 ug/kg

$$1845857 \div 5 = \frac{369171}{335000} \times \frac{10,000}{30} \times \frac{5}{1} = 1,837 = 1800$$

S2A15 660 ug/kg Anclor 1248

$$1711851 \div 5 = \frac{342370}{335000} \times \frac{10000}{30} \times \frac{2.0}{.99} = 688$$

S2A16 5000 ug/kg Anclor 1248

$$2690832 \div 5 = \frac{538166}{335000} \times \frac{10,000}{30} \times \frac{10}{.98} = 5,460$$

S2A17 2100 ug/kg Anclor 1248

$$2230606 \div 5 = \frac{446121}{\frac{335}{335}000} \times \frac{10,000}{30} \times \frac{5}{.98} = 2,200$$

S2A18 Anclor 1248 650 ug/kg

$$1662560 \div 5 = \frac{332512}{335000} \times \frac{10,000}{30} \times \frac{2}{.98} = 570$$

S2A19 Anclor 1248 1300 ug/kg

$$\frac{1349938}{5} = \frac{269988}{335000} \times \frac{10,000}{30} \times \frac{5}{.98} = 1,700$$

S2A20 Anclor 1248 2300 ug/kg

$$2371927 \div 5 = \frac{474385}{335000} \times \frac{10,000}{30} \times \frac{5}{.99} = 2,380$$

S2A30 Anclor 1248 6500 ug/kg

$$1637882 \div 5 = \frac{327576}{335000} \times \frac{10,000}{30} \times \frac{20}{.98} = 6,600$$

Software Version: 3.2 <16C20>

Sample Name : C6D230002-002

Sample Number: X5

Operator : DE 4-25-96

Time : 4/25/96 10:45

Study :

Instrument : GC #3

AutoSampler : NONE

Rack/Vial : 0/0

Channel : A

A/D mV Range : 1000

Interface Serial # : 2120574792 Data Acquisition Time: 4/24/96 21:13

Delay Time : 0.00 min.

End Time : 19.00 min.

Sampling Rate : 2.0000 pts/sec

Raw Data File : f:\acquire\gc3\EA24034.raw

Result File : f:\acquire\gc3\EA24034.rst

Instrument File: F:\ACQUIRE\GC1\GEN3C.ins

Process File : f:\acquire\met_seq\GEN3A.prc

Sample File : f:\acquire\met_seq\1248E.smp

Sequence File : f:\acquire\met_seq\efa2496.seq

Inj. Volume : 1 ul

Sample Amount : 30.0000

Area Reject : ~~5000.00~~

Dilution Factor : 5.00

AROCLOR 1248 (ug/ml) ON DB606

Quanterra Pittsburgh

CKD BY: *DE 4-25-96*

Peak #	Ret Time [min]	Component Name	Area [uW-sec]	Height [uW]	RF HEIGHT	RF AREA	Amount [ug/ml]
1	0.881		644761	85851	133151	8	0.6448
2	1.518		8394	2442	290921	3	0.0084
4	2.615	TCMX	27375	7447	2273082	4	0.0033
8	3.556		33144	5037	151986	7	0.0331
10	4.182		14194	3367	237189	4	0.0142
11	4.297		127478	27084	212459	5	0.1275
12	4.510		23509	4702	200021	5	0.0235
13	4.720		115963	21773	187757	5	0.1140
14	4.878		55944	11608	287501	5	0.0559
15	5.014	AROCLOR-1248 A	459581	81396	335397	6	0.3427
16	5.351		69037	13272	192257	5	0.0690
17	5.476		33809	7676	226493	4	0.0330
18	5.640		256873	53871	287249	5	0.2561
19	5.763		220503	32586	147778	7	0.2205
20	5.896		89598	19777	220730	5	0.0896
21	6.155		21508	4332	201390	5	0.0215
22	6.367	AROCLOR-1248 B	249966	48853	335397	5	0.1457
23	6.468		97645	22296	237082	4	0.0777
24	6.647		77628	22296	237082	6	0.2194
25	6.820		17781	3367	187757	5	0.1779
26	6.939		17781	3367	187757	5	0.1779
27	7.090	AROCLOR-1248 C	17781	3367	187757	5	0.1779
28	7.266						
29	7.489						
30	7.574						
31	7.734	AROCLOR-1248 D					
32	8.163						
33	8.363						
34	8.363						
35	8.539						
36	8.618	AROCLOR-1248 E					
37	8.751						

829.

36	8.090	61900	11970	219133	5	0.0015
39	9.029	21365	4097	191760	5	0.0214
40	9.198	46761	9267	197738	5	0.0468
41	9.339	5370	1311	264174	4	0.0054
42	9.475	5311	805	151503	7	0.0053
43	9.701	6138	1486	262057	4	0.0061
44	9.915	58600	13305	227054	4	0.0586
45	10.040	18272	3692	202040	5	0.0183
46	10.128	7230	2022	279733	4	0.0072
47	10.264	27839	5676	203900	5	0.0278
48	10.345	11120	3262	293316	3	0.0111
49	10.628	191976	11769	61307	16	0.1920
52	11.318	5485	1284	234129	4	0.0055
53	11.421	6674	1129	169108	6	0.0067
54	11.524	17501	3884	221943	5	0.0175
57	12.677	6558	1557	237413	4	0.0066
58	16.611 DCB	48107	5898	1614929	8	0.0037
<hr/>						
		4850266	892639	14280656	253	4.2138

9270

Group Report For : AR 1248

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Height [uV]	RF HEIGHT	RF AREA	Amount [ug/ml]
2	5.014	AROCLOR-1248 A	459581	81396	335397	6	0.2427
3	6.367	AROCLOR-1248 B	269966	48853	335397	5	0.1457
4	7.090	AROCLOR-1248 C	319399	64646	335397	5	0.1928
5	7.736	AROCLOR-1248 D	252549	55032	335397	5	0.1641
6	8.618	AROCLOR-1248 E	103966	22970	335397	5	0.0685
<hr/>							
			1381621	272898	1676985	25	0.8137

$5 \times 330 = 1340 \text{ ug}$

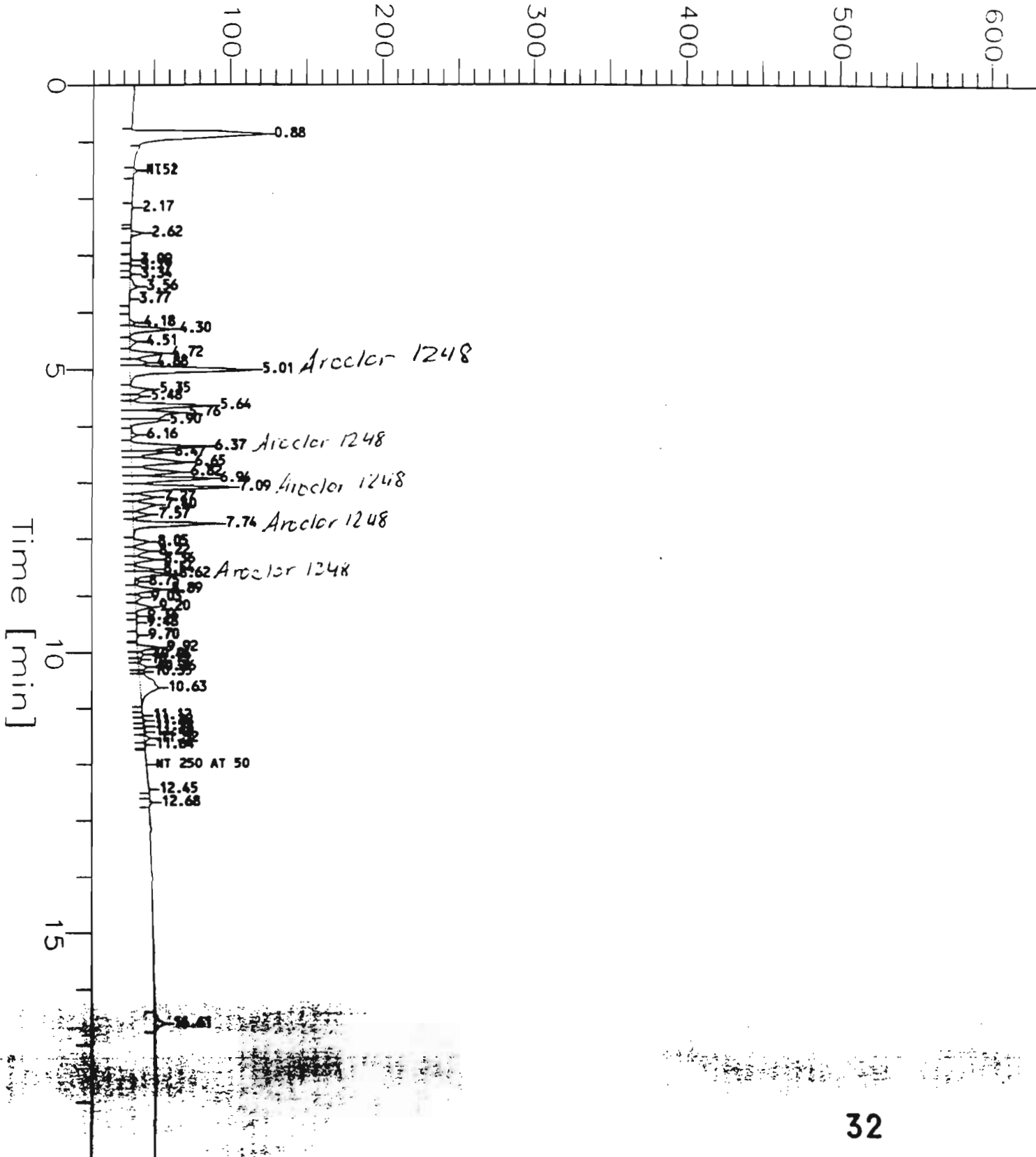
Report Stored in ASCII File: f:\acquire\gc3\EA24034.TX0

Sample Name : C60230002-002
FileName : f:\acquire\gc3\EA24034.raw
Method : GEN3C.ins
Start Time : 0.00 min
Scale Factor : 0

End Time : 19.00 min
Plot Offset: 10 mV

Sample #: X5
Date : 4/25/96 10:45
Time of Injection: 4/24/96 21:13
Low Point : 10.00 mV
High Point : 610.00 mV
Plot Scale: 600 mV

Response [mV] Quanterra Pitt



38	8.888		149088	30910	207329	5	0.1491
39	9.024		19562	4521	231119	4	0.0196
40	9.189		70056	14645	209040	5	0.0701
41	9.357		10641	2513	236106	4	0.0106
42	9.466		6025	1337	221898	5	0.0060
44	9.699		6141	1517	247039	4	0.0061
45	9.912		117499	25875	220215	5	0.1175
46	10.027		16517	3843	232650	4	0.0165
47	10.126		9892	2397	242333	4	0.0099
48	10.262		33405	6526	195361	5	0.0334
51	11.318		15631	2172	138952	7	0.0156
52	11.524		8855	1451	163834	6	0.0089
53	12.672		20280	763	37614	27	0.0203
54	16.608	DCB	525977	70116	467441	8	0.1500

7304847 1492115 9512983 244 12.7285

Group Report For : AR 1248

Peak #	Ret Time [min]	Component Name	Area [uV-sec]	Height [uV]	RF HEIGHT	RF AREA	Amount [ug/ml]
2	5.004	AROCLOR-1248 A	341512	54989	36659	6	1.5000
3	6.366	AROCLOR-1248 B	293135	60239	40159	5	1.5000
4	7.088	AROCLOR-1248 C	359215	72109	48073	5	1.5000
5	7.735	AROCLOR-1248 D	296827	64421	42947	5	1.5000
6	8.616	AROCLOR-1248 E	189268	40925	27283	5	1.5000
			1479956	292682	195121	25	7.5000

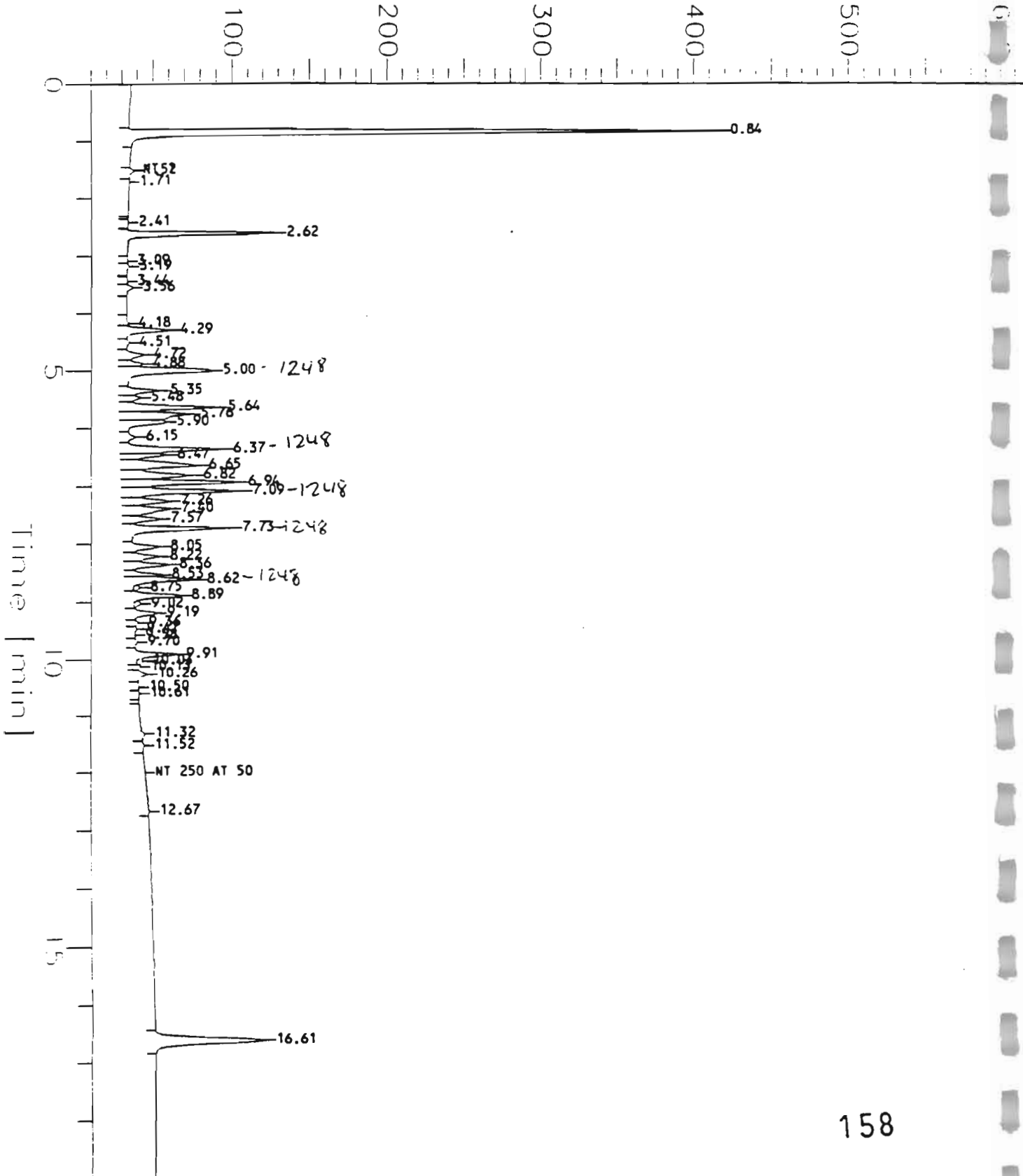
Report Stored in ASCII File: f:\acquire\gc3\EA24024.TX0

Sample Name : MHIGH 1248
FileName : f:\acquire\gc3\EA24024.raw
Method : GEN3C.ins
Start Time : 0.00 min
Scale Factor : 0

End Time : 19.00 min
Plot Offset : 10 mV

Sample #: 246-82-6
Date : 4/25/96 10:12
Time of Injection: 4/24/96 17:47
Low Point : 10.00 mV
High Point : 610.00 mV
Plot Scale: 600 mV

Response [mV] Quanterra Pitt



APPENDIX I

STOCKPILE SAMPLE ANALYTICAL RESULTS

ANALYTICAL REPORT

PROJECT NO. CTO NO. 0212

NWIRP/BETHPAGE, NY

MARK SPERANZA

CF BRAUN

QUANTERRA INCORPORATED

David F. Brennan

David Brennan
Project Manager

May 2, 1996

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 - Check Standard Results*
 - Matrix Spike Results*
 - Duplicate Results*
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SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>	<u>DATE/TIME SAMPLED</u>
A677M	C6D250003-001	PILE A COMPOSITE	4/24/96 10:16
A677N	C6D250003-002	PILE C COMPOSITE	4/24/96 10:42

SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

<u>WO #</u>	<u>LABORATORY ID</u>	<u>SAMPLE IDENTIFICATION</u>	<u>DATE/TIME</u>	<u>SAMPLED</u>
A67E3	C6D290003-001	SPA-01	4/24/96	10:16
A67E4	C6D290003-002	SPA-02	4/24/96	10:22
A67E5	C6D290003-003	SPA-03	4/24/96	10:25
A67E6	C6D290003-004	SPA-04	4/24/96	10:31
A67E7	C6D290003-005	SPA-05	4/24/96	10:35
A67E8	C6D290003-006	SPC-01	4/24/96	10:42
A67E9	C6D290003-007	SPC-02	4/24/96	10:48
A67EA	C6D290003-008	SPC-02 FIELD DUPLICATE	4/24/96	10:48
A67EC	C6D290003-009	SPC-03	4/24/96	10:52
A67ED	C6D290003-010	SPC-04	4/24/96	10:56
A67EE	C6D290003-011	SPC-05	4/24/96	11:00

ANALYTICAL METHODS SUMMARY

Parameters

Polychlorinated Biphenyls
pH - CLP
% Moisture-CLP

Methods

SW846 8080
CLP OLM01.8
CLP ILM 1.8

References:

- CLP USEPA Contract Laboratory Program Statement of Work for Organic Analysis Multi-Media, Multi-Concentration
- EPA Methods for the Determination of Organic Compounds in Finished Drinking Water, USEPA, EMSL, Cincinnati, Ohio, December, 1988 and its supplements.
- MCAWW Methods for Chemical Analysis of Water and Wastes, EMSL: Cincinnati, OH: March 1983 and subsequent revisions
- SM16 Standard Methods for the Examination of Water and Wastewater 16th Edition, 1985
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, September, 1986 and subsequent revisions
- USEPA Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions

May 2, 1996



CASE NARRATIVE

Laboratory Name: Quanterra Environmental Services Pittsburgh, Pennsylvania
Project Name: NWIRP/Bethpage NY
Project Number: CTO#0212
Lot Number: C6D250003,C6D290003
SDG Number: PILEA
Sample Number:

PILE A	PILE C	SPA-01	SPA-02
COMPOSITE	COMPOSITE		
SPA-03	SPA-04	SPA-05	SPC-01
SPC-02	SPC-02 FIELD	SPC-03	SPC-04
	DUP		
SPC-05			

Shipment

11 soil samples were received at the Quanterra Environmental Services Pittsburgh Laboratory on April 25, 1996, for PCB analysis. Upon receipt of the samples, an equal portion of all SPA samples were composited to make sample PILE A COMPOSITE, and an equal portion of all SPC samples were composited to make sample PILE C COMPOSITE.

PCBs

The samples and MS/MSDs were diluted 20x because of the concentration of Aroclor 1248 in the sample. This dilution caused the MS/MSD and all surrogates to be diluted out.

David F. Brennan

David F. Brennan, Project Manager

05/02/96

Date

DATA PACKAGE

GC SEMIVOLATILES

SAMPLE DATA
SUMMARY
PACKAGE

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

PILE_A

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D250003001

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 4 DECANTED: (Y/N) N

DATE RECEIVED: 04/25/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/25/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/26/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 20.0

GPC CLEANUP: (Y/N) N pH: 7.2

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	690	U
11104-28-2-----AROCLOR-1221	690	U
11141-16-5-----AROCLOR-1232	690	U
53469-21-9-----AROCLOR-1242	690	U
12672-29-6-----AROCLOR-1248	4700	
11097-69-1-----AROCLOR-1254	690	U
11096-82-5-----AROCLOR-1260	690	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

PILE_C

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D250003002

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 8 DECANTED: (Y/N) N

DATE RECEIVED: 04/25/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/25/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/26/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 20.0

GPC CLEANUP: (Y/N) N pH: 7.2

SULFUR CLEANUP: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:UG/KG	Q
---------	----------	---------------------------	---

12674-11-2-----AROCLOR-1016	720	U
11104-28-2-----AROCLOR-1221	720	U
11141-16-5-----AROCLOR-1232	720	U
53469-21-9-----AROCLOR-1242	720	U
12672-29-6-----AROCLOR-1248	6000	
11097-69-1-----AROCLOR-1254	720	U
11096-82-5-----AROCLOR-1260	720	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPA01

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003001

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 6 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 20.0

GPC CLEANUP: (Y/N) N pH: 7.1

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:UG/KG Q

12674-11-2-----AROCLOR-1016	700	U
11104-28-2-----AROCLOR-1221	700	U
11141-16-5-----AROCLOR-1232	700	U
53469-21-9-----AROCLOR-1242	700	U
12672-29-6-----AROCLOR-1248	6500	
11097-69-1-----AROCLOR-1254	700	U
11096-82-5-----AROCLOR-1260	700	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPA02

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003002

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 4 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 7.0

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG

Q

12674-11-2-----AROCLOR-1016	340	U
11104-28-2-----AROCLOR-1221	340	U
11141-16-5-----AROCLOR-1232	340	U
53469-21-9-----AROCLOR-1242	340	U
12672-29-6-----AROCLOR-1248	3500	U
11097-69-1-----AROCLOR-1254	340	U
11096-82-5-----AROCLOR-1260	340	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPA03

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003003

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 4 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 7.0

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	340	U
11104-28-2-----AROCLOR-1221	340	U
11141-16-5-----AROCLOR-1232	340	U
53469-21-9-----AROCLOR-1242	340	U
12672-29-6-----AROCLOR-1248	4200	
11097-69-1-----AROCLOR-1254	340	U
11096-82-5-----AROCLOR-1260	340	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPA04

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003004

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 6 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 8.0

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:UG/KG Q

12674-11-2-----AROCLOR-1016	350	U
11104-28-2-----AROCLOR-1221	350	U
11141-16-5-----AROCLOR-1232	350	U
53469-21-9-----AROCLOR-1242	350	U
12672-29-6-----AROCLOR-1248	2700	U
11097-69-1-----AROCLOR-1254	350	U
11096-82-5-----AROCLOR-1260	350	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPA05

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003005

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 6 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 5.0

GPC CLEANUP: (Y/N) N pH: 7.9

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	180	U
11104-28-2-----AROCLOR-1221	180	U
11141-16-5-----AROCLOR-1232	180	U
53469-21-9-----AROCLOR-1242	180	U
12672-29-6-----AROCLOR-1248	2800	
11097-69-1-----AROCLOR-1254	180	U
11096-82-5-----AROCLOR-1260	180	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPC01

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003006

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 8 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 7.5

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:UG/KG Q

12674-11-2-----AROCLOR-1016	360	U
11104-28-2-----AROCLOR-1221	360	U
11141-16-5-----AROCLOR-1232	360	U
53469-21-9-----AROCLOR-1242	360	U
12672-29-6-----AROCLOR-1248	4400	U
11097-69-1-----AROCLOR-1254	360	U
11096-82-5-----AROCLOR-1260	360	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPC02

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003007

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 10 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 20.0

GPC CLEANUP: (Y/N) N pH: 7.0

SULFUR CLEANUP: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:UG/KG	Q
---------	----------	---------------------------	---

12674-11-2-----AROCLOR-1016	730	U
11104-28-2-----AROCLOR-1221	730	U
11141-16-5-----AROCLOR-1232	730	U
53469-21-9-----AROCLOR-1242	730	U
12672-29-6-----AROCLOR-1248	4700	
11097-69-1-----AROCLOR-1254	730	U
11096-82-5-----AROCLOR-1260	730	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPC02FD

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003008

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 9 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 20.0

GPC CLEANUP: (Y/N) N pH: 7.0

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:UG/KG Q

12674-11-2-----AROCLOR-1016	730	U
11104-28-2-----AROCLOR-1221	730	U
11141-16-5-----AROCLOR-1232	730	U
53469-21-9-----AROCLOR-1242	730	U
12672-29-6-----AROCLOR-1248	5000	U
11097-69-1-----AROCLOR-1254	730	U
11096-82-5-----AROCLOR-1260	730	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPC03

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003009

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 6 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 8.1

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:UG/KG Q

12674-11-2-----AROCLOR-1016	350	U
11104-28-2-----AROCLOR-1221	350	U
11141-16-5-----AROCLOR-1232	350	U
53469-21-9-----AROCLOR-1242	350	U
12672-29-6-----AROCLOR-1248	4800	
11097-69-1-----AROCLOR-1254	350	U
11096-82-5-----AROCLOR-1260	350	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPC04

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003010

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 4 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 8.5

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	340	U
11104-28-2-----AROCLOR-1221	340	U
11141-16-5-----AROCLOR-1232	340	U
53469-21-9-----AROCLOR-1242	340	U
12672-29-6-----AROCLOR-1248	3500	
11097-69-1-----AROCLOR-1254	340	U
11096-82-5-----AROCLOR-1260	340	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPC05

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: FILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003011

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 7 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 7.8

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:UG/KG Q

12674-11-2-----AROCLOR-1016	350	U
11104-28-2-----AROCLOR-1221	350	U
11141-16-5-----AROCLOR-1232	350	U
53469-21-9-----AROCLOR-1242	350	U
12672-29-6-----AROCLOR-1248	5500	
11097-69-1-----AROCLOR-1254	350	U
11096-82-5-----AROCLOR-1260	350	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

PILE_CMS

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: 6D250003002S

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 8 DECANTED: (Y/N) N

DATE RECEIVED: 04/25/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/25/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/26/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 20.0

GPC CLEANUP: (Y/N) N pH: 7.2

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	720	U
11104-28-2-----AROCLOR-1221	720	U
11141-16-5-----AROCLOR-1232	720	U
53469-21-9-----AROCLOR-1242	720	U
12672-29-6-----AROCLOR-1248	5500	
11097-69-1-----AROCLOR-1254	720	U
11096-82-5-----AROCLOR-1260	720	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

FILE_CMSD

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: 6D250003002D

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 8 DECANTED: (Y/N) N

DATE RECEIVED: 04/25/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/25/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/26/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 20.0

GPC CLEANUP: (Y/N) N pH: 7.2

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:UG/KG Q

12674-11-2-----AROCLOR-1016	720	U
11104-28-2-----AROCLOR-1221	720	U
11141-16-5-----AROCLOR-1232	720	U
53469-21-9-----AROCLOR-1242	720	U
12672-29-6-----AROCLOR-1248	6500	
11097-69-1-----AROCLOR-1254	720	U
11096-82-5-----AROCLOR-1260	720	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPC03MS

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: 6D290003009S

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 6 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 8.1

SULFUR CLEANUP: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:UG/KG	Q
---------	----------	---------------------------	---

12674-11-2-----	AROCLOR-1016	350	U
11104-28-2-----	AROCLOR-1221	350	U
11141-16-5-----	AROCLOR-1232	350	U
53469-21-9-----	AROCLOR-1242	350	U
12672-29-6-----	AROCLOR-1248	5000	U
11097-69-1-----	AROCLOR-1254	350	U
11096-82-5-----	AROCLOR-1260	350	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

SPC03MSD

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: 6D290003009D

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 6 DECANTED: (Y/N) N

DATE RECEIVED: 04/29/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 10.0

GPC CLEANUP: (Y/N) N pH: 8.1

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	350	U
11104-28-2-----AROCLOR-1221	350	U
11141-16-5-----AROCLOR-1232	350	U
53469-21-9-----AROCLOR-1242	350	U
12672-29-6-----AROCLOR-1248	5000	
11097-69-1-----AROCLOR-1254	350	U
11096-82-5-----AROCLOR-1260	350	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

BLANKSPIKE1

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D250003LCS

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 0 DECANTED: (Y/N) N

DATE RECEIVED: 04/25/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/25/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/26/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 1.0

GPC CLEANUP: (Y/N) N pH: 7.0

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: UG/KG Q

12674-11-2-----AROCLOR-1016	280	
11104-28-2-----AROCLOR-1221	33	U
11141-16-5-----AROCLOR-1232	33	U
53469-21-9-----AROCLOR-1242	33	U
12672-29-6-----AROCLOR-1248	33	U
11097-69-1-----AROCLOR-1254	33	U
11096-82-5-----AROCLOR-1260	300	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

BLANKSPIKE2

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003LCS

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 0 DECANTED: (Y/N) N

DATE RECEIVED:

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 1.0

GPC CLEANUP: (Y/N) N pH: 7.0

SULFUR CLEANUP: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:UG/KG Q

12674-11-2-----AROCLOR-1016	280	
11104-28-2-----AROCLOR-1221	33	U
11141-16-5-----AROCLOR-1232	33	U
53469-21-9-----AROCLOR-1242	33	U
12672-29-6-----AROCLOR-1248	33	U
11097-69-1-----AROCLOR-1254	33	U
11096-82-5-----AROCLOR-1260	290	

BBB

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: PILEA

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (DBC) # CA	OTHER TCX
01	PBLK1	92	79 D
02	PBLK2	86	83 D
03	BLANKSPIKE1	92	86 D
04	BLANKSPIKE2	90	82 D
05	PILE_A	0 D	0 D
06	PILE_C	0 D	0 D
07	SPA01	0 D	0 D
08	SPA02	0 D	0 D
09	SPA03	0 D	0 D
10	SPA04	0 D	0 D
11	SPA05	0 D	0 D
12	SPC01	0 D	0 D
13	SPC02	0 D	0 D
14	SPC02FD	0 D	0 D
15	SPC03	0 D	0 D
16	SPC04	0 D	0 D
17	SPC05	0 D	0 D
18	PILE_CMS	0 D	0 D
19	PILE_CMSD	0 D	0 D
20	SPC03MS	0 D	0 D
21	SPC03MSD	0 D	0 D

Lms/2/96

ADVISORY
QC LIMITS
(20-150)

S1 (DBC) = Dibutylchloroendate

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: QUANTERRA PITT

CONTRACT:

LAB CODE: QPITT

CASE NO.: NWIRP

SAS NO.:

SDG NO.: PILEA

MATRIX SPIKE - EPA SAMPLE NO.: PILE_C

LEVEL: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS %REC	QC LIMITS REC
AR1016	360	0		0D	(50-150)
AR1260	360	0		0D	(50-150)

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD %REC	%RPD	QC LIMITS RPD	REC
AR1016	360		0D		(50-150)	(50-150)
AR1260	360		0D		(50-150)	(50-150)

RPD: 0 OUT OF 2 OUTSIDE LIMITS

SPIKE RECOVERY: 0 OUT OF 4 OUTSIDE LIMITS

COMMENTS: D DILUTED OUT

FORM III PBC-2

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: QUANTERRA PITT

CONTRACT:

LAB CODE: QPITT

CASE NO.:NWIRP

SAS NO.:

SDG NO.: PILEA

MATRIX SPIKE - EPA SAMPLE NO.: SPC03

LEVEL: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS %REC	QC LIMITS REC
AR1016	360	0		0D	(50-150)
AR1260	360	0		0D	(50-150)

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD %REC	%RPD	QC LIMITS RPD	REC
AR1016	360		0D		(50-150)	(50-150)
AR1260	360		0D		(50-150)	(50-150)

RPD: 0 OUT OF 2 OUTSIDE LIMITS

SPIKE RECOVERY: 0 OUT OF 4 OUTSIDE LIMITS

COMMENTS:D DILUTED OUT

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: QUANTERRA PITT

CONTRACT:

LAB CODE: QPITT

CASE NO.: NWIRP

SAS NO.:

SDG NO.: PILEA

MATRIX SPIKE - EPA SAMPLE NO.: BLANKSPIKE1

LEVEL: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS %REC	QC LIMITS REC
AR1016	330	0	280	85	(50-150)
AR1260	330	0	300	91	(50-150)

SPIKE RECOVERY: 0 OUT OF 2 OUTSIDE LIMITS

COMMENTS:

FORM III PBC-2

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: QUANTERRA PITT

CONTRACT:

LAB CODE: QPITT

CASE NO.: NWIRP

SAS NO.:

SDG NO.: PILEA

MATRIX SPIKE - EPA SAMPLE NO.: BLANKSPIKE2

LEVEL: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS %REC	QC LIMITS REC
AR1016	330	0	280	85	(50-150)
AR1260	330	0	290	88	(50-150)

SPIKE RECOVERY: 0 OUT OF 2 OUTSIDE LIMITS

COMMENTS:

FORM III PBC-2

B

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: QUANTERRA PITT Contract:
 Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: PILEA
 Lab Sample ID: C6D250003BLK Lab File ID:
 Matrix: (soil/water) SOIL Level: (low/med) LOW
 Date Extracted: 04/25/96 Extraction: (SepF/Cont/Sonc) SONC
 Date Analyzed (1): 04/26/96 Date Analyzed (2):
 Time Analyzed (1): 0946 Time Analyzed (2):
 Instrument ID (1): 58903A07 Instrument ID (2):
 GC Column ID (1): DB608 GC Column ID (2):

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO. =====	LAB SAMPLE ID =====	DATE ANALYZED 1 =====	DATE ANALYZED 2 =====
01	BLANKSPIKE1	C6D250003LCS	04/26/96	
02	PILE_A	C6D250003001	04/26/96	
03	PILE_C	C6D250003002	04/26/96	
04	PILE_CMS	6D250003002S	04/26/96	
05	PILE_CMSD	6D250003002D	04/26/96	

COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

PBLK1

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D250003BLK

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 0 DECANTED: (Y/N) N

DATE RECEIVED: 04/25/96

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/25/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 04/26/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 1.0

GPC CLEANUP: (Y/N) N pH: 7.0

SULFUR CLEANUP: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:UG/KG	Q
---------	----------	---------------------------	---

12674-11-2-----AROCLOR-1016	33		U
11104-28-2-----AROCLOR-1221	33		U
11141-16-5-----AROCLOR-1232	33		U
53469-21-9-----AROCLOR-1242	33		U
12672-29-6-----AROCLOR-1248	33		U
11097-69-1-----AROCLOR-1254	33		U
11096-82-5-----AROCLOR-1260	33		U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB NAME: QUANTERRA PITT

CONTRACT:

PBLK2

LAB CODE: QPITT CASE NO.: NWIRP

SAS NO.: SDG.: PILEA

MATRIX: (soil/water) SOIL

LAB SAMPLE ID: C6D290003BLK

SAMPLE wt/vol: 30.0 (g/ml) G

LAB FILE ID:

% MOISTURE 0 DECANTED: (Y/N) N

DATE RECEIVED:

EXTRACTION: (SEPF/CONT/SONC) SONC

DATE EXTRACTED: 04/30/96

CONCENTRATED EXTRACT VOLUME 10000 (uL)

DATE ANALYZED: 05/01/96

INJECTION VOLUME: 1.00 (uL)

DILUTION FACTOR: 1.0

GPC CLEANUP: (Y/N) N pH: 7.0

SULFUR CLEANUP: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/KG

Q

12674-11-2-----AROCLOR-1016	33	U
11104-28-2-----AROCLOR-1221	33	U
11141-16-5-----AROCLOR-1232	33	U
53469-21-9-----AROCLOR-1242	33	U
12672-29-6-----AROCLOR-1248	33	U
11097-69-1-----AROCLOR-1254	33	U
11096-82-5-----AROCLOR-1260	33	U

QC
SUMMARY



BBB

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: QUANTERRA PITT

Contract:

Lab Code: QPITT

Case No.: NWIRP

SAS No.:

SDG No.: PILEA

Level: (low/med) LOW

EPA SAMPLE NO.	S1 ^{1/6} (DBC) # CB	OTHER TCX
01 PBLK1	92	89 0
02 PBLK2	86	83 0
03 BLANKSPIKE1	92	86 0
04 BLANKSPIKE2	90	82 0
05 PILE_A	0 D	0 D
06 PILE_C	0 D	0 D
07 SPA01	0 D	0 D
08 SPA02	0 D	0 D
09 SPA03	0 D	0 D
10 SPA04	0 D	0 D
11 SPA05	0 D	0 D
12 SPC01	0 D	0 D
13 SPC02	0 D	0 D
14 SPC02FD	0 D	0 D
15 SPC03	0 D	0 D
16 SPC04	0 D	0 D
17 SPC05	0 D	0 D
18 PILE_CMS	0 D	0 D
19 PILE_CMSD	0 D	0 D
20 SPC03MS	0 D	0 D
21 SPC03MSD	0 D	0 D

Lms/2/96

ADVISORY
QC LIMITS
(20-150)

S1 (DBC) = Dibutylchlorendate

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: QUANTERRA PITT

CONTRACT:

LAB CODE: QPITT

CASE NO.: NWIRP

SAS NO.:

SDG NO.: PILEA

MATRIX SPIKE - EPA SAMPLE NO.: SPC03

LEVEL: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS %REC	QC LIMITS REC
AR1016	360	0		0D	(50-150)
AR1260	360	0		0D	(50-150)

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC
AR1016	360		0D		(50-150)	(50-150)
AR1260	360		0D		(50-150)	(50-150)

RPD: 0 OUT OF 2 OUTSIDE LIMITS

SPIKE RECOVERY: 0 OUT OF 4 OUTSIDE LIMITS

COMMENTS: D DILUTED OUT

FORM III PBC-2

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: QUANTERRA PITT

CONTRACT:

LAB CODE: QPITT

CASE NO.: NWIRP

SAS NO.:

SDG NO.: PILEA

MATRIX SPIKE - EPA SAMPLE NO.: PILE_C

LEVEL: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS %REC	QC LIMITS REC
AR1016	360	0		0D	(50-150)
AR1260	360	0		0D	(50-150)

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC
AR1016	360		0D		(50-150)	(50-150)
AR1260	360		0D		(50-150)	(50-150)

RPD: 0 OUT OF 2 OUTSIDE LIMITS

SPIKE RECOVERY: 0 OUT OF 4 OUTSIDE LIMITS

COMMENTS: D DILUTED OUT

FORM III PBC-2

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: QUANTERRA PITT

CONTRACT:

LAB CODE: QPITT

CASE NO.: NWIRP

SAS NO.:

SDG NO.: PILEA

MATRIX SPIKE - EPA SAMPLE NO.: BLANKSPIKE1

LEVEL: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS %REC	QC LIMITS REC
AR1016	330	0	280	85	(50-150)
AR1260	330	0	300	91	(50-150)

SPIKE RECOVERY: 0 OUT OF 2 OUTSIDE LIMITS

COMMENTS:

FORM III PBC-2

SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

LAB NAME: QUANTERRA PITT

CONTRACT:

LAB CODE: QPITT

CASE NO.: NWIRP

SAS NO.:

SDG NO.: PILEA

MATRIX SPIKE - EPA SAMPLE NO.: BLANKSPIKE2

LEVEL: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	LCS CONCENTRATION (UG/KG)	LCS %REC	QC LIMITS REC
AR1016	330	0	280	85	(50-150)
AR1260	330	0	290	88	(50-150)

SPIKE RECOVERY: 0 OUT OF 2 OUTSIDE LIMITS

COMMENTS:

FORM III PBC-2

B

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: QUANTERRA PITT Contract:
 Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: PILEA
 Lab Sample ID: C6D250003BLK Lab File ID:
 Matrix:(soil/water) SOIL Level:(low/med) LOW
 Date Extracted: 04/25/96 Extraction:(SepF/Cont/Sonc) SONC
 Date Analyzed (1): 04/26/96 Date Analyzed (2):
 Time Analyzed (1): 0946 Time Analyzed (2):
 Instrument ID (1): 58903A07 Instrument ID (2):
 GC Column ID (1): DB608 GC Column ID (2):

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

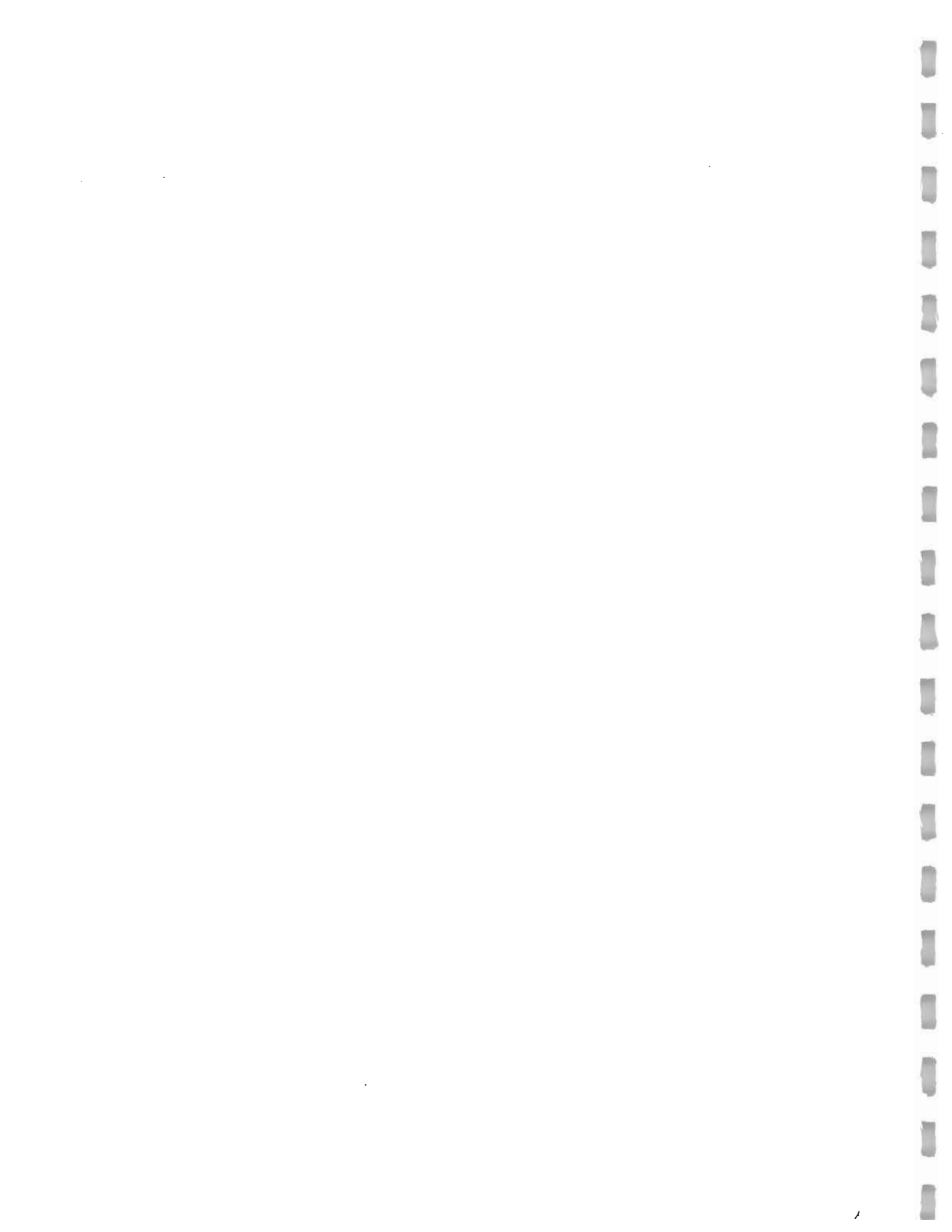
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	=====	=====	=====	=====
01	BLANKSPIKE1	C6D250003LCS	04/26/96	
02	PILE_A	C6D250003001	04/26/96	
03	PILE_C	C6D250003002	04/26/96	
04	PILE_CMS	6D250003002S	04/26/96	
05	PILE_CMSD	6D250003002D	04/26/96	

COMMENTS:



APPENDIX J

BACKFILL MATERIAL DELIVERY TICKETS



2

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 4-30 10 96

SOLD TO FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO. 125
2300 LINCOLN HWY. EAST OF OXFORD VALLEY,
SUITE 201 TRUCK 18 36520 LB
WHEELER ENVIRONMENTAL CORP. 19047-1829

↑ GROSS 09:18AM 20ENT96
↑ TARE 119630 LB
↑ NET 39220 LB
80400 LB
TOTAL 40.20 TON

TIME AND DATE 10:08AM 20ENT96

TONS TOTAL 32.16 Cu.Yds.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- PROCESSED FILL

[Signature]

DELIVERED TO:

NAVY CONTRACT NO. N62472-94-I NO 0195
D-0398

RUNMAN AERO SPACE CORP. BEHAPAGE, N.Y. (SITE #2)

125

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 4-30 10 96

SOLD TO FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO. 124
2300 LINCOLN HWY. EAST OF OXFORD VALLEY,
SUITE 201 TRUCK 18 36520 LB
WHEELER ENVIRONMENTAL CORP. 19047-1829

↑ GROSS 09:13AM 20ENT96
↑ TARE 119100 LB
↑ NET 36520 LB
82580 LB
TOTAL 41.29 TON

TIME AND DATE 09:54AM 20ENT96

TONS TOTAL 33.03 Cu.Yds.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
-

[Signature]

DELIVERED TO:

NAVY CONTRACT NO. N62472-94-I NO 019A
D-0398

RUNMAN AERO SPACE CORP. BEHAPAGE, N.Y. (SITE #2)

3

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 4-30 19 96

SOLD TO Foster Wheeler Environmental Corp.
TICKET NO. 129
200 Lincoln Hwy. East One Oxford Valley,
Switz Truck Leasing Co. 19047-1829
HIGH-IN 39540 LB

↑ GROSS 12:25PM 20ENT96
↑ TARE 121240 LB
↑ NET 39540 LB
↑ NET 81700 LB
↑ TOTAL 40.85 TON

TIME AND DATE 12:41PM 20ENT96

TONS TOTAL 30.68 Cu.Yd.

CASH C.O.D. CHARGE PICKUP DEL

(Handwritten signature)

- FINE SAND
- CONCRETE SAND
- GRIT #1
- GRAVEL
- BANKRUN
-

DELIVERED TO:
NAVY CONTRACT # N62472-94-
D 98 T NO 0196

RETHABE N.Y. (SITE # 2)

4

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 4-30 19 96

SOLD TO Foster Wheeler Environmental Corp.
TICKET NO. 129
200 Lincoln Hwy. East One Oxford Valley,
Switz Truck Leasing Co. 19047-1829
HIGH-IN 36680 LB

↑ GROSS 12:28PM 20ENT96
↑ TARE 121380 LB
↑ NET 36680 LB
↑ NET 84700 LB
↑ TOTAL 42.35 TON

TIME AND DATE 12:43PM 20ENT96

TONS TOTAL 33.88 Cu.Yd.

CASH C.O.D. CHARGE PICKUP DEL

(Handwritten signature)

- FINE SAND
- CONCRETE SAND
- GRIT #1
- GRAVEL
- BANKRUN
-

DELIVERED TO:
NAVY CONTRACT NO. N62472-94-
D-0398 T NO 0197

RETHABE N.Y. (SITE # 2)

6

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

5-1-96 (20)

DATE ~~4-28~~ 10 96

SOLD TO FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO. 132
2300 LINCOLN HWY. EAST ONE OXFORD VALLEY,
SUITE 200 ROCKY HAVEN, PA. 19047-1829

→ GROSS 02:28PM 20ENT96
→ TARE 121520 LB
→ NET 39700 LB
81820 LB
TOTAL 40.91 ~~TONS~~ TONS

TIME AND DATE 03:07PM 20ENT96

TONS TOTAL 32.78 CURB

CASH C.O.D. CHARGE PICKUP DEL

REV.

- FINE SAND
- CONCRETE SAND
- GRIT #20
- GRAVEL
- BANGRUN
-

DELIVERED TO:
NAVY CONTRACT NO. N62472-74-T NO 0199
D-0398

GRUMMAN AERO SPACE CORP. BETHPAGE N.Y. (SITE #2)

5

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

5-1-96 (20)

DATE ~~4-28~~ 10 96

SOLD TO FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO. 131
2300 LINCOLN HWY. EAST ONE OXFORD VALLEY,
SUITE 200 ROCKY HAVEN, PA. 19047-1829

→ GROSS 02:25PM 20ENT96
→ TARE 122480 LB
→ NET 36520 LB
85960 LB
TOTAL 42.98 ~~TONS~~ TONS

TIME AND DATE 02:45PM 20ENT96

TONS TOTAL 34.8 CURB

CASH C.O.D. CHARGE PICKUP DEL

REV.

- FINE SAND
- CONCRETE SAND
- GRIT #20
- GRAVEL
- BANGRUN
-

DELIVERED TO:
NAVY CONTRACT NO. N62472-74-T NO 0198
D-0398

GRUMMAN AERO SPACE CORP. BETHPAGE N.Y. (SITE #2)

7

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-1 10 96
SOLD TO FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO. 135
2300 LINDEN HILL EAST, SUITE 101, OXFORD VALLEY
SUITE 200, TRUMBURG, PA. 17047-1829

GROSS 06:48AM 21ENT96

GROSS 121200 LB
W TARE 39680 LB
NET 81520 LB

TOTAL 40.76 ~~TON~~

TIME AND DATE 07:15AM 21ENT96

TONS TOTAL 22.60 CUYA

CASH C.O.D. CHARGE PICKUP DEL

(Handwritten initials)

- FINE SAND
- CONCRETE SAND
- GRIT #10
- GRAVEL
- BANORUN
-

DELIVERED TO:

NAVY CONTRACT NO. N 62472-94-T NO 0204
D-0398

FOR ANIMAL AREA SPACE CORP. DE WISCONSIN, N.Y. (SITE 2)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-1 10 96
SOLD TO FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO. 134
2300 LINDEN HILL EAST, SUITE 101, OXFORD VALLEY
SUITE 200, TRUMBURG, PA. 17047-1829

GROSS 06:45AM 21ENT96

GROSS 118600 LB
W TARE 36740 LB
NET 81860 LB

TOTAL 40.93 ~~TON~~

TIME AND DATE 07:05AM 21ENT96

TONS TOTAL 32.74 CUYA

CASH C.O.D. CHARGE PICKUP DEL

(Handwritten initials)

- FINE SAND
- CONCRETE SAND
- GRIT #10
- GRAVEL
- BANORUN
-

DELIVERED TO:

NAVY CONTRACT NO. N 62472-94-T NO 0207
D-0398

FOR ANIMAL AREA SPACE CORP. DE WISCONSIN, N.Y. (SITE #7)

10

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-1 19 76
SOLD TO FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO. 140
2300 LINDEN HILL EAST AVE OXFORD VALLEY
SUITE 200 BIRCHMOUNT RD. 19047-1879
MCH-IN 39660 LB

↑ GROSS 09:18AM 21ENT96
↑ TARE 12280 LB
↑ NET 39560 LB
TOTAL 82520 LB
41.31 ^{TON}

TIME AND DATE 09:23AM 21ENT96 Boyd Cu. Ya

TONS TOTAL 41.31
 CASH C.O.D. CHARGE PICK UP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN

Boyd

DELIVERED TO:
NAVY CONTRACT NO. N62472-74-
0-0398
FRUMMAN AERO SPACE CORP. BETHPAGE N.Y. (SITE #2)

9

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-1 19 76
SOLD TO FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO. 141
2300 LINDEN HILL EAST AVE OXFORD VALLEY
SUITE 200 BIRCHMOUNT RD. 19047-1879
MCH-IN 36720 LB

↑ GROSS 09:19AM 21ENT96
↑ TARE 119340 LB
↑ NET 36720 LB
TOTAL 82520 LB
41.31 ^{TON}

TIME AND DATE 09:42AM 21ENT96 Boyd Cu. Ya

TONS TOTAL 41.31
 CASH C.O.D. CHARGE PICK UP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN

Boyd

DELIVERED TO:
NAVY CONTRACT # N62472-74-
0-0398
FRUMMAN AERO SPACE CORP. BETHPAGE N.Y. (SITE #2)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

12

11

DATE 5-1-96

DATE 5-1-96

SOLD TO: FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO: 146
2300 Lincoln Hwy. ENGINEERING OFFICE VALLEY
SUITE 200 TRUCK DR. HUNTERS PT. RD 47-1824
NIGHT IN 39740 LB

SOLD TO: FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO: 145
2300 Lincoln Hwy. ENGINEERING OFFICE VALLEY
SUITE 200 TRUCK DR. HUNTERS PT. RD 47-1824
NIGHT IN 38550 LB

↑ GROSS 11:27AM 21ENT96
↑ TARE 120920 LB
↑ NET 39740 LB
81080 LB
TOTAL 40.54

↑ GROSS 11:12AM 21ENT96
↑ TARE 120540 LB
↑ NET 36660 LB
83880 LB
TOTAL 41.94

TIME AND DATE 11:40AM 21ENT96

TIME AND DATE 11:23AM 21ENT96

TONS TOTAL 32.43 C.U. 10. DEL

TONS TOTAL 33.55 C.U. 10. DEL

CASH C.O.D. CHARGE PICKUP DEL

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN

F.W.

F.W.

DELIVERED TO:
INVT CONTRACT NO. N62472-94- T No 0209
D-0308

DELIVERED TO:
INVT CONTRACT NO. N62472-94- T No 0208
D-0398

13

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-1 10 96

SOLD TO: FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO.: 150
200 Lincoln Blvd. East Side Oyster Valley
STATE RD TRUCK OFFICE Rt. 1017-1829
NGH-IN 39680 LB

→ GROSS 01:15PM 21ENT96
→ TARE
→ NET
GROSS 122460 LB
W TARE 39680 LB
NET 82780 LB
TOTAL 41.39 ^{TON}

TIME AND DATE 01:29PM 21ENT96

TONS TOTAL 33.11 CUYA
 CASH C.O.D. CHARGE PICKUP DEL

[Handwritten signature]

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANKRUN
-

DELIVERED TO:

NAVY CONTRACT NO. NA62472-94-1 NO 0215
D-0398

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

14

DATE 5-1 10 96

SOLD TO: FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO.: 148
200 Lincoln Blvd. East Side Oyster Valley
STATE RD TRUCK OFFICE Rt. 1017-1829
NGH-IN 36440 LB

→ GROSS 01:05PM 21ENT96
→ TARE
→ NET
GROSS 119920 LB
W TARE 36440 LB
NET 83480 LB
TOTAL 41.74 ^{TON}

TIME AND DATE 01:21PM 21ENT96

TONS TOTAL 23.39 CUYA
 CASH C.O.D. CHARGE PICKUP DEL

[Handwritten signature]

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANKRUN
-

DELIVERED TO:

NAVY CONTRACT NO. NA62472-94-1 NO 0214
D-0398

(16)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-2 10 96

SOLD TO: EVER WHEELER ENVIRONMENTAL CORP.
TICKET NO: 152
2300 Lincoln Hwy. East Side of Cross Valley
STATE OF NEW YORK
NY 21947-1823
MFG-IN 36340 LB

↑ GROSS	02:57PM	21ENT96		
↑ TARE			121620 LB	
↑ NET			36340 LB	
			85280 LB	
			TOTAL	42.64

TIME AND DATE 02:21PM 21ENT96
TONS TOTAL 34.11 air

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN

Handwritten signature

DELIVERED TO:
NAVY CONTRACT NO. N62472-94 T No 0219
D-0398

(15)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-2 10 96

SOLD TO: EVER WHEELER ENVIRONMENTAL CORP.
TICKET NO: 151
2300 Lincoln Hwy. East Side of Cross Valley
STATE OF NEW YORK
NY 21947-1823
MFG-IN 39620 LB

↑ GROSS	02:53PM	21ENT96		
↑ TARE			122320 LB	
↑ NET			39620 LB	
			82700 LB	
			TOTAL	41.35

TIME AND DATE 03:11PM 21ENT96
TONS TOTAL 33.08 air

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN

Handwritten signature

DELIVERED TO:
NAVY CONTRACT NO. N62472-94 T No 0218
D-0398

No. 00049

DATE 5/2/96

(18)

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Material Grumman with special Corp
Baltimore, MD. (Site #2)

Order Contract # NL2472-94
D-0398

BUYER Foster Wheeler Environmental Corp
2300 Lincoln Hwy East One Oxford Ct
Suite 200 Langhorne PA, 19047-1800

GROSS

22:27 01/02/00 122640. 1b

38480. 1b (K)

TARE

84160. 1b

42 080 tn

NET

35.07 yds

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY SFO

SIGNED BY [Signature]

No. 00049

DATE 5/2/96

(17)

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler

GROSS

22:23 01/02/00 121440. 1b

36620. 1b (K)

TARE

84820. 1b

42 410 tn

NET

35.35 yds

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY SFO

SIGNED BY [Signature]

A/S

.00050

DATE 5-2-76

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental
2300 LINCOLN HWY EAST AVE VALLEY
200 LANGHORNE PA. 19047-1827

GROSS

02:12 00/00/00 115300. 1b TARE
36620. 1b (K) NET

78680. 1b
39.340 tn
33 yds

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY KM

SIGNED BY [Signature]

Fixed

No. 00051

DATE 5-2-76

(19)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp
2300 LINCOLN HWY EAST, ONE OXFORD VALLEY
SUITE 200 LANGHORNE, PA. 19047-1827

GROSS

Del to: Curran Aero Space Corp
Beverly, N.Y. (3HC #2)
New Contract # 1763472-94
D-0398

02:19 00/00/00 116560. 1b TARE
38480. 1b (K) NET

78080. 1b
39.040 tn
32 54 yds

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY KM

SIGNED BY [Signature]

Nº. 00402

DATE 5-2-96 (21)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler

ROUTE LANGHORNE PA. 19047-1823

01:00	01/03/00	117340.	1b	GROSS
		36620.	1b (K)	TARE
		80720.	1b	NET
		40.360	tn	

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY Diana

SIGNED BY [Signature] FW

Nº. 00401

DATE 5/2/96 (22)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler - Environmental Corp

3300 Lineation Hwy East, One Dilled Vc
Suite 200 Langhorne, PA. 19047-1829

Handwritten notes:
168 Townline Road Kings Park
Route 200, 194 (200-2)
Phone: (516) 368-6200
D-0398

00:53	01/03/00	121980.	1b	GROSS
		38480.	1b (K)	TARE
		83500.	1b	NET
		41.750	tn	

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY Diana

SIGNED BY [Signature] FW

No. 00053

DATE 5/3/96

24

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental
Corp 2300 Lincoln Hwy.
East, one oxford valley
Suite 200 Langhorne Pa. 19047-1107

Delivered to
Navy contract No. N62472-94-
D-0398

06:07 00/00/00 117520. 1b
37440. 1b (K)
80080. 1b
40.040 tn

GROSS
TARE
NET

Grumman space corp Bethpage NY (Site #2)

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SFO

SIGNED BY [Signature] (FW)

No. 00052

DATE 5/3/96

23

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental
2300 Lincoln Hwy. East one oxford valley
Suite 200 Langhorne PA. 19047-1107

DLV. TO
Navy contract No. N62472-94-
- D-0398

06:02 00/00/00 114800. 1b
34940. 1b (K)
79860. 1b
39.930 tn

GROSS
TARE
NET

Grumman space corp. Bethpage, NY
Site # 2

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY [Signature]

SIGNED BY [Signature] (FW)

10-30

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-3 10 96

SOLD TO FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO. 175
2300 LINDA WAY EGYPT ONE OFFICE WARE
SUITE 200 BUCKINGHAM BL 19047-1829
NCH-IN 39240 LB

↑ GROSS	03:06PM	22ENT96		
↑ TARE			120080 LB	
↑ NET			39240 LB	
			80840 LB	
			TOTAL	40.42

TIME AND DATE 03:20PM 22ENT96

TONS TOTAL 32.33 Cu. Yd.

CASH C.O.D. CHARGE PICK UP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANKRUN
-



DELIVERED TO:
NAVY CONTRACT NO. N62472-94-
D-0398

1 No 0223

10-30

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-3 10 96

SOLD TO FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO. 174
2300 LINDA WAY EGYPT ONE OFFICE WARE
SUITE 200 BUCKINGHAM BL 19047-1829
NCH-IN 36340 LB

↑ GROSS	03:03PM	22ENT96		
↑ TARE			120880 LB	
↑ NET			36340 LB	
			84540 LB	
			TOTAL	42.27

TIME AND DATE 02:19PM 22ENT96

TONS TOTAL 33.81 Cu. Yd.

CASH C.O.D. CHARGE PICK UP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANKRUN
-



DELIVERED TO:
NAVY CONTRACT NO. N62472-94-
D-0398

1 No 0222

Nº. 00403

404

DATE 5/3/96

(21)

FA 39

BUYER Foster Wheeler Environmental

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

GROSS

09:41 00/00/00 115020. 1b

TARE

36620. 1b (K)

NET

78400. 1b
39.200 tn

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY Diana

SIGNED BY [Signature]

Nº. 00404

DATE 5/3/96

(28)

BUYER Foster Wheeler Environmental Corp
2300 Lincoln Hwy East One Oxford Rd
Suite 200 Langhorne PA. 19047-1829

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Del to: Navy Contract # N62472-94
D-0348

Drumman Space Corp
Brookville, N.Y. (site #2)

GROSS

09:51 00/00/00 118240. 1b

TARE

36620. 1b (K)

NET

81620. 1b
40.810 tn

31 yds

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY Diana

SIGNED BY [Signature]

Nº. 00054

DATE 5/3/96

(29)

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp.
2300 Lincoln Hwy. East, One Oxford
Suite 200 Langhorne Pa. 19047-1

DLV. TO

10:01 00/00/00 116260. 1b

Navy contract NO. N62472-94-D-0398

34940. 1b (K)

GROSS

TARE

Grumman Space Corp. Beth Page, N.Y. (Site # 2)

81320. 1b
40.660 tn

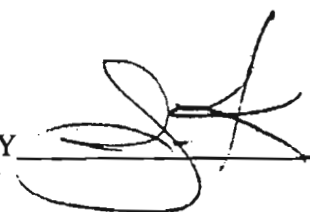
NET

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY SFO

SIGNED BY 

Nº. 00055

DATE 5/3/96 (30)

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp
2300 Lincoln Hwy East
One Oxford Valley Suite 200
Langhorne Pa. 19047-1829

Delivered to

Navy contract No. N62472-94-09:56 00/00/00 116940. 1b
D-0398

37440. 1b (K)

TARE

NET

Grumman Space Corp. Beth Page (Site # 2)

79500. 1b
39.750 tn

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY SFO

SIGNED BY 

Nº. 00060

DATE 5/3/96 ⁽³¹⁾

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental (C) P.
2300 Lincoln Hwy. East, One Oxford Valley
Suite 200 Langhorne PA. 19047-1029

DLV. 70

GROSS

NAVY Contract NO. N62472-94-D-0118 12:24 00/00/00 115200. 1b

Gyammn Spill corp. Bethpage, N.Y.
Site # 2

34940. 1b (K)

TARE

80260. 1b
40.130 tn

NET

- DELIVERED
- PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY DRUM

SIGNED BY R. B. FEN

Nº. 00058

DATE 5-3-96 ⁽³²⁾

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER FOSTER WHEELER ENVIRONMENTAL

GROSS

100260

36600

TARE

83640

41.82

NET

- DELIVERED
- PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY DRUM

SIGNED BY ST

Nº. 00059

DATE 5/3/96 ⁽³³⁾

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Del to: Navy Contract # N62472-94
D-0398

Grumman Space Corp
Bethpage, NY (Site #2)

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY Signa

BUYER Foster Wheeler Environmental Corp
2300 Lincoln Hwy East One Oxford Valley
Suite 200 Langhorne PA 19047-1829

125340.	GROSS
38480.	
87060.	TARE
43.53	NET

3665
4065

SIGNED BY [Signature]

Nº. 00056

DATE

(34)

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Delivered to
Navy contract NO. N62472-94-
D-0398

Grumman Space Corp. Bethpage (Site #2)

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY Signa

BUYER 5/3/96
Foster Wheeler Environmental Corp
2300 Lincoln Hwy East One Oxford Valley
Suite 200 Langhorne Pa 19047-1829

12:19 00/00/00 122480.	1b	
37440.	1b (K)	TARE
85040.	1b	NET
42.520	tn	

SIGNED BY [Signature]

37440
No. 00064

DATE 5/3/96 (35)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp
2300 Lincoln Hwy East
one Oxford Valley suite 200
Langhorne Pa 19047-1829
GROSS

Delivered to 14:51 00/00/00 118620. 1b
Navy contract No. N62472-94-D0398 37440. 1b (K) TARE
Grumman Space Corp - Beth Page (site #2) 81180. 1b NET
40.590 tn

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY Jim SIGNED BY KR (FW)

37440
No. 00063

DATE 5-3-96 (34)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp
2300 Lincoln Hwy East one Oxford Valley
Suite 200 Langhorne PA 19047-1829
GROSS

DLV# 70
Navy Contract # N62472-94-D-0398 14:42 00/00/00 116180. 1b
34940. 1b (K) TARE
Grumman Space Corp, Beth Page N.Y. 81240. 1b NET
40.620 tn

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY LNJ SIGNED BY KR (FW)

39
34420

should be

(37) CF

No. 00061

LOW

DATE 5-3-96

PK#39

BUYER Foster Wheeler

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

GROSS

14:39 00/00/00 112360. 1b

TARE

36620. 1b (K)

NET

75740. 1b
37.870 tn

30.30 Cu. Yd

- DELIVERED
- PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY

(KIM)

SIGNED BY

(Signature)

40
39400

should be

(38) CF

No. 00062

DATE 5-3-96

BUYER Foster Wheeler Environmental Corp
2300 Lincoln Hwy East, one Oxford U
Suite 200 Langhorne, PA 19047-15

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

GROSS

Del to: Navy Contract # N62472-94
D-5398

14:44 00/00/00 117980. 1b

TARE

38480. 1b (K)

NET

79500. 1b
39.750 tn

31.80 Cu. Yd

Minimum space and
Bathpark NY (Lot #2)

- DELIVERED
- PICKED UP
- SCREEN SAND
- BANK RUN

nobody there dumped load
at 3:30. (Signature)

WEIGHED BY

(KIM)

SIGNED BY

(Signature) (F.V.)

Nº. 00068

DATE 5-6-96 (39)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental
2300 Lincoln Hwy, Est. 1 Oxford Valley,
Suite 200 Long Horn PA. 17017-1829

GROSS

DEL TO
Navy contract # N62472-94-1) 17:48 00/00/00 117800. 1b

TARE 35380. 1b (K)

-0378
Grumman Space Corp Bethpage NY
SITE # 2

NET 82420. 1b

41.210 tn

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY JSD

SIGNED BY [Signature] FW

Nº. 00067

DATE 5/6/96 (40)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental
corp 2300 Lincoln Hwy East One
Oxford Valley Suite 200 Long Horn
19047-1829

GROSS

Delivered To 17:43 00/00/00 119580. 1b

Navy contract No. N62472-94-00398 37440. 1b (K)

Grumman Space Corp - Bethpage (site #2) 82140. 1b
NET 41.070 tn

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY _____

SIGNED BY [Signature] FW

No. 00066

DATE 5/6/96

(41)

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp.
200 Lincoln Hwy. East, One Oxford Valley
Suite 200 Langhorne PA. 19047-1829

DLV. TO
Navy contract NO. N62472-94-D-0398

Grimmud Spill Corp., Bellport N.Y.
(Site #2)

17:40 00/00/00 116180. 1b

34940. 1b (K)

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

81240. b
40.620 tn

WEIGHED BY _____

SIGNED BY RBR (F.W.)

(42)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-6 10 96
TICKET NO. 181
SOLD TO FOSTER - WHEELER ENVIRONMENTAL CORP.
200 LINCOLN HWY. EAST, ONE OXFORD VALLEY
SUITE 200 LANGHORNE PA. 19047-1829

↑ GROSS 12:16PM 24ENT96 123320 LB
 ↑ TARE 36760 LB
 ↑ NET 86560 LB
 TOTAL 43.28 TONS

TIME AND DATE 12:39PM 24ENT96

TONS 43.28
 CASH C.O.D. CHARGE PICKUP DEL
 TOTAL 34940

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANK RUN
-

(F.W.)

DELIVERED TO:
NAVY CONTRACT NO. N62472-94-T NO 0237
D-0398

43

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-6 19 96

SOLD TO: FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO.: 182
2300 LINDAULD HWY. ERIE, PA 16510

STATE RD TRUCK OFFICERS PA 19047-1879
M.I.H. IN 39700 LB

↑ GROSS	12:41PM	24ENT96		
↑ TARE			116920 LB	
↑ NET			39700 LB	
			77220 LB	
			38.61 TONS	

TIME AND DATE 12:57PM 24ENT96

TONS TOTAL 30.88 C.O.D.

CASH C.O.D. CHARGE PICK UP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANK RUN

DELIVERED TO:

T No 0238

NAVY CONTRACT # A162472-94-

LOU K#39

No. 00039

DATE 5-6-96

BUYER Foster Wheeler

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

21:00	00/00/00	115600.	1b	GROSS
				TARE
		36620.	1b (K)	NET
		78980.	1b	
		39.490	tn	

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SFB

SIGNED BY RBL FW

217 yds.

44

43

Nº 00070

DATE 5/6/96

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER ~~Foster Wheeler Environmental~~
2300 Lincoln Hwy East One Oxford Vhite
Suite 200 Langhorne, PA 19047-1839

Del to: Navy contract # N62472-94
D-0398

Grimman Aero Space Corp
Bethpage N.Y. (Site #2)

21:03	00/00/00	121440.	1b	GROSS
		38480.	1b (K)	TARE
		82960.	1b	NET
		41 40	tn	

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SEA SIGNED BY FW

46

Nº. 00071

DATE 3/6/96

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp.
2300 Lincoln Hwy East, One Oxford Vhite
Suite 200 Langhorne PA. 19047-1839

DLV. to
Navy contract # N62472-94-D-0398
Grimman Space Corp. Bethpage, N.Y.
(Site #2)

21:09	00/00/00	118200.	1b	GROSS
		34940.	1b (K)	TARE
		83260.	1b	NET
		41.630	tn	

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SEA SIGNED BY FW

Nº. 00072

DATE 5-6-96

47

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental
2300 Lincoln Hwy East 1 Oxford Valley
Suite 200 Langhorn PA 19047-1829

Delivered to
Navy contract No. N62472-94-D
-0398
Grumman Space Corp Bethpage NY
Site #2

		GROSS
21:15	00/00/00 119960.	1b
	35380.	1b (K) TARE
	84580.	1b NET
	42.290	tn

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SFO SIGNED BY JRBL (F.V)

Nº. 00073

DATE 5-6-96

48

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental
Corp 2300 Lincoln Hwy East one
Oxford Valley Suite 200 Langhorn PA
19047-1829

Delivered to
Navy contract No. N62472-94-D0398
Grumman Space Corp - Bethpage (Site #2)

		GROSS
21:17	00/00/00 123640.	1b
	37440.	1b (K) TARE
	86200.	1b NET
	43.100	tn

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SFO SIGNED BY JRBL (F.V)

Nº. 00077

DATE 5/6/96 (49)

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER 5-6-96

FOSTER WHEELER ENVIRONMENTAL CORP.
2300 LINCOLN HUNTS EST. 1 OXFORD PA
SOUTH 200 LONG HUNTS PA. 19047-1179

DLW TO
NAVY CONTRACT # N62472-94-D
345

23:49 00/00/00 118960. 1b

35380. 1b (K)

TARE

GRUMMAN SPACE CORP BETHPAGE NY
S-AR

83580. 1b
41.790 tn

NET

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY Diana

SIGNED BY R.R. FW

Nº. 0007A

DATE 5/6/96 (50)

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp.

2300 LINCOLN HUNTS EST 1 OXFORD PA
SOUTH 200 LONG HUNTS PA. 19047-1179

DLW TO
NAVY CONTRACT # N62472-94-D-0398
GRUMMAN SPACE CORP BETHPAGE N.Y.
Site 2

23:45 00/00/00 121100. 1b

34940. 1b (K)

GROSS

TARE

86160. 1b
43.80 tn

NET

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY Diana

SIGNED BY R.R. FW

Nº. 00075

DATE 5/6/96

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp
2300 Lincoln Hwy East One
Oxford Valley Suite 200 Langhorne
19047-1829

Delivered to
Navy contract No - N62472-94-D0398
Grumman space corp - Beth page (site #2)

23:47 00/00/00 119020. 1b GROSS
37440. 1b (K) TARE
81580. 1b NET
40.790 tn

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY [Signature]

SIGNED BY [Signature] (FW)

Nº. 00076

DATE 5/6/96

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp
2300 Lincoln Hwy East One
Suite 200 Langhorne PA 19047-1829

Del to: Navy contract - N62472-94
D-0398
Grumman Aerospace Corp
Beth page no. (site #2)

23:50 00/00/00 121720. 1b GROSS
38480. 1b (K) TARE
83240. 1b NET
41.620 tn

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY [Signature]

SIGNED BY [Signature] (FW)

LOW #39

Nº. 00076

DATE 5/6/96

53

BUYER Foster Wheeler

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

GROSS

23:32 00/00/00 122680. 1b

TARE

36620. 1b (K)

NET

86060. 1b
43.030 tn

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY Diana

SIGNED BY [Signature] (FW)

TO 35940

Nº. 00081

DATE 5-6-96 (54)

BUYER Foster Wheeler Environmental Cor.

2300 Lincoln Hwy East, Oxford Valley
Suite 200 Langhorne PA. 19047-182

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

GROSS

DLW. IP Navy Contract # N62472-94-D-0318 02:17 00/01/00 118900. 1b

TARE

Grumman space corp. Beth Page N.Y.
(Site #2)

35940. 1b (K)

NET

82960. 1b
41.480 tn

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY [Signature]

SIGNED BY [Signature]

54200
35380

Nº. 00079

(53)
DATE 5-6-96

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER _____

FOSTER WHEELER ENVIRONMENTAL CORP
2300 LINCOLN HWY, EST. 10 EXFORD VALLEY
SUITE 200 LANG HORN PA 19047-1829

NAVY CONTRACT NO - N62472-94-00398
GRUMMAN SPACE CORP BETHPAGE NY
SITE #2

02:08 00/01/00 113880. 1b

35380. 1b (K)

78500. 1b
39.250 tn

GROSS
TARE
NET

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY KAM

SIGNED BY [Signature]

60
37440

Nº. 00081

(56)
DATE 5-6-96

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Ester Wheeler Environmental
2300 Lincoln Hwy East
One Exford Valley Suite 200
Lang Horn Pa 19047-1829

Delivered to
Navy contract No - N62472-94-00398

02:12 00/01/00 118300. 1b

37440. 1b (K)

80860. 1b
40.430 tn

GROSS
TARE
NET

Grumman space corp - Bethpage (site #2)

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY KAM

SIGNED BY [Signature] (FW)

4
3840

No. 00083

DATE 5-6-96 (58)

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp
2300 Lincoln Hwy East One Oxford Va
Suite 200 Langhorne PA 19047-18

see to: 1 only contract = no 2472-94
0-2398

Shuman Aero Space Corp
Berkpage, NY. (site # 2)

02:20	00/01/00	120900.	1b	GROSS
		38480.	1b (K)	TARE
		82420.	1b	NET
		41.210	tn	

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY

KAM

SIGNED BY

J.R.L. (F.W.)

39
36620

hold TR #39

No. 00083

DATE 5-6-96 (57)

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler

02:16	00/01/00	118040.	1b	GROSS
		36620.	1b (K)	TARE
		81420.	1b	NET
		40.710	tn	

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY

KAM

SIGNED BY

J.R.L. (F.W.)

LOW 7-11-89

Nº. 00088

DATE 5/7/96

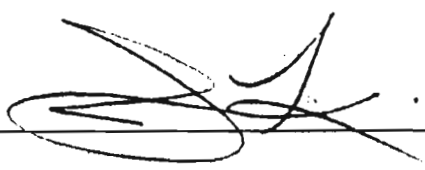
(59)

BUYER Foster Wheeler

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

		GROSS
05:14	00/01/00 117280.	1b
	36620.	1b (K) TARE
	80660.	1b NET
	40.330	tn

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SFD SIGNED BY 

Nº. 00090

DATE 5/7/96

(60)

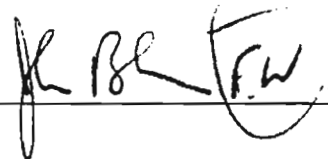
BUYER Foster Wheeler Environmental Corp
2300 Riverchase Way, Canal Area Bldg
Suite 200 Langhorne PA 19047

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

02473-94
0-5398
(A. 11. 22)

		GROSS
05:18	00/01/00 118300.	1b
	38480.	1b (K) TARE
	79820.	1b NET
	39.910	tn

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SFD SIGNED BY 

61

Nº. 00086

DATE 5/7/96

BUYER _____

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Foster Wheeler Environmental Corp
2300 Lincoln Hwy, East of Oxford Valley,
Suite 200 LangHorn Pa 19047-1829

Delivered to
Navy contract No # N62472-94-D-0398
D-038
Crumman space corp - Bethpage

04:58 00/01/00 115820. 1b
35380. 1b (K) TARE
80440. 1b NET
40.220 tn

- DELIVERED
- PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SA SIGNED BY Joe Valarino

62

Nº. 00085

DATE 5/7/96

BUYER Foster Wheeler Environment
Corp 2300 Lincoln Hwy, East
one Oxford Valley Suite 200
LangHorn Pa 19047-1829

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Delivered to
Navy contract No # N62472-94-D-0398
Crumman space corp - Bethpage (site #2)

04:55 00/01/00 115280. 1b
37440. 1b (K) TARE
77840. 1b NET
38.920 tn

- DELIVERED
- PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SA SIGNED BY Joe Valarino

Nº. 0008º

DATE 5/7/96

(63)

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp
2300 Lincoln Hwy East, 1 Oxfile Valley,
Suite 200 Lang Hwt PA. 19047-1829

DLW. TP
Navy contract # N(62472)-94-D-6398
Linnam space corp. Beth Axx N.Y.
Site # 2

05:03 00/01/00 115460. 1b
34940. 1b (K)
80520. 1b
40.260 tn

GROSS

TARE

NET

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SFA SIGNED BY [Signature]

low at #39

Nº. 00091

DATE 5/7/96

(64)

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler

07:54 00/01/00 114600. 1b
36620
77980
38.99tn

GROSS

TARE

NET

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SFA SIGNED BY [Signature]

65

No. 00093

DATE 5/7/90

BUYER

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Foster Wheeler Environmental Corp
2300 Lincoln Hwy East
Lang Horn Pa 19047-1829

116440

GROSS

35380

TARE

81060

NET

4053

DELIVER TO

Navy Contract No# 2472-94-100398
Grumman Space Corp Bethpage
NY 11762

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY SFA

SIGNED BY KBF F.W.

66

No. 00094

DATE 5/7/90

BUYER

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Foster Wheeler Environmental Corp
2300 Lincoln Hwy East
one oxford valley suite 200
Lang Horn pa 19047-1829

GROSS

08:07 00/01/00 118880. 1b

TARE

37440. 1b (K)

NET

81440. 1b
40.720 tn

Delivered to

Navy Contract No#
N62472-94-00398

Grumman space corp - Bethpage (site #2)

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY SFA

SIGNED BY KBF F.W.

67

Nº. 00092

DATE 5/7/96

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp

2300 Lincoln Hwy East
Suite 200 Langhorne Pa 19047-1829

Delivered to
Navy contract No #
N-62472-94-00398
Bathpage NY (Site #2)

114720	GROSS
38480	TARE
76240	
38.12	NET

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY SJD

SIGNED BY [Signature]

68

Nº. 00099

DATE 5/7/96

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp

2300 Lincoln Hwy East
one oxford valley suite 200
Langhorne Pa 19047-1829

Delivered to
Navy contract No #
N-62472-94-00398

Grimman space corp - Bathpage (Site #2)

10:44 00/01/00 115900. 1b	GROSS
37440. 1b (K)	TARE
78460. 1b	NET
39.230 tn	

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY [Signature]

SIGNED BY [Signature]

No. 00098

DATE 5/7/96

69

BUYER

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

FOOSTER LUBBERS ENVIRONMENTAL CORP
2300 LINDEN BLVD, 2ND FLOOR, SUITE 200
LARGENACKEN, NY 11754-1234
P.H. 11754-1234

D11 to
N.C. 1472-141-D 0395
COURT SPACK COOP
PARTIAL PAYMENT

GROSS 10:42 00/01/00 116140. 1b
TARE 35380. 1b (K)
NET 80760. 1b
40.380 tn

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY

S. C. 119

SIGNED BY

[Signature] (FW)

No. 00096

DATE 5/7/96

70

BUYER

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

FOOSTER LUBBERS ENVIRONMENTAL CORP
2300 LINDEN BLVD, 2ND FLOOR, SUITE 200
LARGENACKEN, NY 11754-1234

and partial payment cost of a number 1472-141-D 0398
COURT SPACK COOP
PARTIAL PAYMENT

GROSS 10:51 00/01/00 119900. 1b
TARE 38480. 1b (K)
NET 81420. 1b
40.710 tn

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY

S. C. 119

SIGNED BY

[Signature]

LOW TR#34

Nº. 00095

DATE 5/1/96 (71)

BUYER Foster Wheeler

American Materials Inc.

168 TOWNLINE ROAD
KINGS-PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

GROSS

10:47 00/01/00 116340. 1b

TARE

36620. 1b (K)

NET

79720. 1b
39.860 tn

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY Kim

SIGNED BY FW

51440
Nº. 00101

DATE 5-7-96 (72)

BUYER

American Materials Inc.

168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Foster Wheeler Environmental Corp
2300 Lincoln Hwy East
one oxford vally suite 200
Lang Horn Pa 19047-1829

GROSS

13:19 00/01/00 121880. 1b

TARE

37440. 1b (K)

NET

34440

42.22

Delivered to
Navy contract No#
N-62472-94-00398

Grumman space corp Bethpage (site #2)

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY KIM

SIGNED BY FW

35300
No. 00100

73

DATE 5 7 76

BUYER _____

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

FOOT & WHEELER ENVIRONMENTAL CORP
1000 TOWNLINE HWY, FORT MONMOUTH, NJ
30100 200 TOWNLINE RD, KINGSTON, PA
PA. 17042-8200

12.17

1000 TOWNLINE RD (20072-411-2038)
FOOT & WHEELER ENVIRONMENTAL CORP
30100 200 TOWNLINE RD

13:14 00/01/00 120360. 1b
35380. 1b (K)
84980. 1b
42.490 tn

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY KIM SIGNED BY RBL F.W.

No. 00100

74

DATE 5 7 76

BUYER _____

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

FOOT & WHEELER ENVIRONMENTAL CORP
1000 TOWNLINE HWY, FORT MONMOUTH, NJ
30100 200 TOWNLINE RD, KINGSTON, PA

1000 TOWNLINE RD (20072-411-2038)
FOOT & WHEELER ENVIRONMENTAL CORP
30100 200 TOWNLINE RD

13:41 00/01/00 112340. 1b
38480. 1b (K)
73860. 1b
36.930 tn

- DELIVERED PICKED UP
- SCREEN SAND
- BANK RUN

WEIGHED BY KIM SIGNED BY RBL F.W.

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 26

SOLD TO Foster - Wheeler Environmental Corp.
TICKET NO: 193
2200 Lincoln Hill East of Oxford Valley
State 200 TRUCK # 18047-1829
High-In 40160 LB

↑ GROSS 03:31PM 27ENT96

↑ TARE 124320 LB
40160 LB
NET 84160 LB

↑ NET TOTAL 42.08

TIME AND DATE 05:52PM 27ENT96

TONS TOTAL 33.66 C.A.Y.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN
- PROCESSED FILL

(Handwritten initials)

DELIVERED TO:

NAVY CONTRACT NO. N62478-94 - I NO 0246

D-0398

(15)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 96

SOLD TO Foster - Wheeler Environmental Corp.
TICKET NO: 194
2200 Lincoln Hill East of Oxford Valley
State 200 TRUCK # 18047-1829
High-In 36820 LB

↑ GROSS 03:32PM 27ENT96

↑ TARE 120080 LB
36820 LB
NET 83260 LB

↑ NET TOTAL 41.63

TIME AND DATE 05:31PM 27ENT96

TONS TOTAL 33.30 C.A.Y.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN
- PROCESSED FILL

(Handwritten signature)

DELIVERED TO:

NAVY CONTRACT NO. N62472-94 - I NO 0247

D-0398

(Handwritten initials)

(77)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 19 76

SOLD TO Foster Wheeler Environmental Corp.
TICKET NO.: 196
2300 Luben Hill, Eastport, or Eastport Ave.
Suite 200, Truxton Park, P.O. Box 19047-1829
NIGHT IN 37520 LB

↑ GROSS 04:52AM 28ENT96

↑ TARE 119080 LB
37520 LB
NET 80560 LB

↑ NET TOTAL 40.28 ~~40.28~~

TIME AND DATE 05:22AM 28ENT96

TONS TOTAL 32.28 C.M.A.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN
- PROCESSED FILL

[Handwritten signature]

DELIVERED TO:

AVY ENTRAC RD. N62472-94-1 T NO 1008
D-0398

(77)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 19 76

SOLD TO Foster Wheeler Environmental Corp.
TICKET NO.: 195
2300 Luben Hill, Eastport, or Eastport Ave.
Suite 200, Truxton Park, P.O. Box 19047-1829
NIGHT IN 35380 LB

↑ GROSS 04:19AM 28ENT96

↑ TARE 117020 LB
35380 LB
NET 81640 LB

↑ NET TOTAL 40.82 ~~40.82~~

TIME AND DATE 05:09AM 28ENT96

TONS TOTAL 32.65 C.M.A.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN
- PROCESSED FILL

[Handwritten signature]

DELIVERED TO:

NAVY CONTRACT NO. N62472-94-1 T NO 1007
D-0398

4012

AK # 3579

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 1996

SOLD TO: ESTER WALKER ENVIRONMENTAL CORP.
TICKET NO.: 198
220 LINDSEY HILL EAST APT. C/FRA VALEY
SINCE 200 TRUCK ID: 35400 LB
WIGHT IN 9847-1829

↑ GROSS	05:57AM	28ENT96	
↑ TARE			122420 LB
↑ NET			36400 LB
↑ TOTAL			86020 LB
			43.01

TIME AND DATE 07:14AM 28ENT96

TONS TOTAL 34.40 C.U.

CASH C.O.D. CHARGE PICKUP DEL

Handwritten signature

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- PROCESSED FILL

DELIVERED TO:

NAVY CONTRACT NO. N62472-94-1000

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 1996

SOLD TO: ESTER WALKER ENVIRONMENTAL CORP.
TICKET NO.: 198
220 LINDSEY HILL EAST APT. C/FRA VALEY
SINCE 200 TRUCK ID: 35400 LB
WIGHT IN 9847-1829

↑ GROSS	04:59AM	28ENT96	
↑ TARE			122000 LB
↑ NET			37720 LB
↑ TOTAL			84280 LB
			42.14

TIME AND DATE 05:33AM 28ENT96

TONS TOTAL 33.71 C.U.

CASH C.O.D. CHARGE PICKUP DEL

Handwritten signature

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- PROCESSED FILL

DELIVERED TO:

NAVY CONTRACT NO. N62472-94-1000

81

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 19 96
SOLD TO FORR WHEELER ENVIRONMENTAL CORP.
TICKET NO. 20
2200 Lutescent Hill, East of Road Valley
State of New York, 19647-1879
TRUCK ID: 35280 LB
NIGHT-IN 07:31AM 28ENT96

↑ GROSS 122280 LB
↑ TARE 35280 LB
↑ NET 87000 LB
TOTAL 43.50

TIME AND DATE 07:43AM 28ENT96

TONS TOTAL 34.80 C.O.D. CHARGE PICK UP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- PROCESSED AIR

[Signature]

DELIVERED TO:
NAVY CONTRACT NO. N62472-94-1 NO 1012
D-0398

80

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 19 96
SOLD TO FORR WHEELER ENVIRONMENTAL CORP.
TICKET NO. 199
2200 Lutescent Hill, East of Road Valley
State of New York, 19647-1879
TRUCK ID: 39900 LB
NIGHT-IN 06:58AM 28ENT96

↑ GROSS 118600 LB
↑ TARE 39900 LB
↑ NET 78700 LB
TOTAL 39.35

TIME AND DATE 07:22AM 28ENT96

TONS TOTAL 31.48 C.O.D. CHARGE PICK UP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- PROCESSED AIR

[Signature]

DELIVERED TO:
NAVY CONTRACT NO. N62472-94-1 NO 1011
D-0398

83

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 19 86

SOLD TO Foster-Walker Environmental Corp.
TICKET NO. 203

2300 Woodbury East, Route 2000 Valley

Site 200 TRUCK ID: 19031-1829
WCH# 37620 LB

↑ GROSS 07:38AM 28ENT96

↑ TARE 118160 LB
37620 LB
NET 80540 LB

↑ NET 40.27

TIME AND DATE 08:18AM 28ENT96

TONS TOTAL 32.21 Cur

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN

BY PROCESSED FILL

Unbanded

DELIVERED TO:
NAVY CONTRACT NO. N6247-94- I NO 1014

104

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 19 86

SOLD TO Foster-Walker Environmental Corp.
TICKET NO. 202

2300 Woodbury East, Route 2000 Valley

Site 200 TRUCK ID: 19047-1829
WCH# 37300 LB

↑ GROSS 07:32AM 28ENT96

↑ TARE 119580 LB
37300 LB
NET 82280 LB

↑ NET 41.14

TIME AND DATE 08:00AM 28ENT96

TONS TOTAL 32.91 Cur

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN

BY PROCESSED FILL

Unbanded

DELIVERED TO:
NAVY CONTRACT NO. N6247-94- I NO 1013
D-0398

85

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 26

SOLD TO ESTER WHEEL ENHANCEMENT CO.
TICKET NO. 204
2300 Lincoln Hwy East Side Extra Valley
TRUCK ID: 19047-1829
WEIGHT IN 36400 LB

↑ GROSS 10:00AM 28ENT96
↑ TARE 120150 LB
↑ NET 36400 LB
TOTAL 83760 LB 41.88 ~~TONS~~

TIME AND DATE 10:30AM 28ENT96

TONS TOTAL 33.50 cu. yd.

CASH C.O.D. CHARGE PICKUP DEL



- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN

PROCESSED FILL

DELIVERED TO:
NAVY CONTRACT NO. N62472-94-T NO 1015
0-0398

84

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 26

SOLD TO ESTER WHEEL ENHANCEMENT CO.
TICKET NO. 205
2300 Lincoln Hwy East Side Extra Valley
TRUCK ID: 19047-1829
WEIGHT IN 35120 LB

↑ GROSS 10:04AM 28ENT96
↑ TARE 119240 LB
↑ NET 35120 LB
TOTAL 84120 LB 42.06 ~~TONS~~

TIME AND DATE 10:50AM 28ENT96

TONS TOTAL 33.61 cu. yd.

CASH C.O.D. CHARGE PICKUP DEL



- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN

PROCESSED FILL

DELIVERED TO:
NAVY CONTRACT NO. N62472-94-T NO 1016
0-0398

87

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 76
SOLD TO Foster Wheeler Environmental Corp.
TICKET NO. 205
2300 Lincoln Blvd. Eastonville Oxford Valley
TRUCK ID: 12817-1829
State Ave. Eastonville PA

→ GROSS 10:05AM 28ENT95
NET 13 72
TOTAL 11 0701 28ENT95
PAY TO THE ORDER OF 3497 du. 73.
 CASH C.O.D. PICKUP DEL

AMERICAN MATERIALS INC.
168 TOWN LINE ROAD
KINGS PARK, N.Y. 11754
TELEPHONE 368-6200

87

86

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 76
SOLD TO Foster Wheeler Environmental Corp.
TICKET NO. 205
2300 Lincoln Blvd. Eastonville Oxford Valley
TRUCK ID: 12817-1829
State Ave. Eastonville PA

→ GROSS 10:05AM 28ENT95
NET 13 72
TOTAL 11 0701 28ENT95
PAY TO THE ORDER OF 3497 du. 73.
 CASH C.O.D. PICKUP DEL

AMERICAN MATERIALS INC.
168 TOWN LINE ROAD
KINGS PARK, N.Y. 11754
TELEPHONE 368-6200

86

89

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 26

SOLD TO Foster Wheeler Environmental Corp.
TICKET NO.: 211
2300 Lincold way. East Side of Fox Valley
SUITE 200 TRUCK ID: 9047-1829
NEWARK NJ 07102

↑ GROSS	12:36PM	28ENT96	
↑ TARE			117320 LB
↑ NET			34950 LB
			82360 LB
			41.18

TIME AND DATE 12:51PM 28ENT96

TONS TOTAL 32.94 Ci. 41

CASH C.O.D. CHARGE PICKUP DEL

(Signature)
F.W.

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANKRUN
- PROCESSED FILL

DELIVERED TO:
NAVY CONTRACT NO. N62472-94- T NO 1020
D-0398

88

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 26

SOLD TO Foster Wheeler Environmental Corp.
TICKET NO.: 210
2300 Lincold way. East Side of Fox Valley
SUITE 200 TRUCK ID: 9047-1829
NEWARK NJ 07102

↑ GROSS	12:25PM	28ENT96	
↑ TARE			118300 LB
↑ NET			36300 LB
			82000 LB
			41.00

TIME AND DATE 12:40PM 28ENT96

TONS TOTAL 32.80 Ci.

CASH C.O.D. CHARGE PICKUP DEL

(Signature)
F.W.

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANKRUN
- PROCESSED FILL

DELIVERED TO:
NAVY CONTRACT NO. N62472-94 T NO 1019
D-0398

(41)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 26
SOLD TO FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO. 213
2300 Laurel Hill East, 2001 Old Valley
STATE OF VA TRUCK ID: 1847-1829
REG-1A 37400 LB

↑ GROSS 12:43PM 28ENT96
↑ TARE 123280 LB
↑ NET 37400 LB
85880 LB
TOTAL 42.94 ~~TONS~~

TIME AND DATE 01:11PM 28ENT96

TONS TOTAL 34.55 Cur.
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN

PROCESSED FULL

DELIVERED TO:

NAUT CONTRACT NO. N62471-74-1 NO. 1022
1-029A (0-0398)

(90)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 26
SOLD TO FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO. 212
2300 Laurel Hill East, 2001 Old Valley
STATE OF VA TRUCK ID: 1847-1829
REG-1A 37050 LB

↑ GROSS 12:36PM 28ENT96
↑ TARE 126140 LB
↑ NET 37050 LB
89080 LB
TOTAL 44.54 ~~TONS~~

TIME AND DATE 01:01PM 28ENT96

TONS TOTAL 35.63 Cur.
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN

PROCESSED FULL

DELIVERED TO:

NAUT CONTRACT NO. N62471-74-1 NO. 1021
0-0398

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 26

SOLD TO TRUCK DRIVER ENHANCED CONCRETE
TICKET NO: 214
2300 Lucard Blvd. Eastford CT 06030
SUITE 200 TRUCK DRIVER 29 6 2011-1829

19 100	121130 LB
1 100	24630 LB
1 100	860 1 LB
TOTAL	45 2 1829

THE AMOUNT OF THE ORDER IS \$749.00
 ON 5/8/11

AMERICAN MATERIALS INC.
 168 TOWN LINE ROAD
 KINGS PARK, NY 11754

95

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 26

SOLD TO TRUCK DRIVER ENHANCED CONCRETE
TICKET NO: 214
2300 Lucard Blvd. Eastford CT 06030
SUITE 200 TRUCK DRIVER 29 6 2011-1829

GROSS	172:00PM	2011/10/26
TOTAL	172:00PM	2011/10/26
TOTAL	172:00PM	2011/10/26

THE AMOUNT OF THE ORDER IS \$749.00
 ON 5/8/11

AMERICAN MATERIALS INC.
 168 TOWN LINE ROAD
 KINGS PARK, NY 11754

97

95

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 26

SOLD TO: FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO.: 217
200 Lincoln Hwy East, Off Oxley Valley
STATE 200 TRUCK ID: AA-2047-1829
HIGHWAY 37260 LB

↑ GROSS 02:35PM 28ENT96
↑ TARE M TAPE 122350 LB
↑ NET 37260 LB
85100 LB
TOTAL 42.55

TIME AND DATE 03:01PM 28ENT96

TONS TOTAL 34.04 C.U.Y. CU.YA
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN

[Signature]

DELIVERED TO: BY PROCESSED FILL

CONTRACT No. N62472-94-

T NO. 1027

94

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-8 10 26

SOLD TO: FOSTER WHEELER ENVIRONMENTAL CORP.
TICKET NO.: 216
200 Lincoln Hwy East, Off Oxley Valley
STATE 200 TRUCK ID: AA-2047-1829
HIGHWAY 37100 LB

↑ GROSS 02:22PM 28ENT96
↑ TARE M TAPE 122600 LB
↑ NET 37100 LB
85500 LB
TOTAL 42.75

TIME AND DATE 02:51PM 28ENT96

TONS TOTAL 34.05 C.U.Y. CU.YA
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN

[Signature]

DELIVERED TO: BY PROCESSED FILL

CONTRACT No. N62472-94-

T NO. 1025

97

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 26

SOLD TO FORSTER UNCLE'S ENVIRONMENTAL SUPPLY CORP.
TRUCK ID: 2300
2300 LINDEN HILL ENVIRONMENTAL SUPPLY CORP.
Suffolk TRUCK ID: 2300
NEW IN TRUCK ID: 2300
1817-1829

↑ GROSS 04:35PM 28ENT95
↑ TARE 123750 LB
↑ NET 37120 LB
36640 LB
TOTAL 43.32

TIME AND DATE 04:35PM 28ENT95 (CD) TONS TOTAL 37.65 cu. yd.

CASH C.O.D. CHARGE PICKUP DEL



- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGORUN
-

DELIVERED TO:
BY CONTRACT No. N62472-94-T No 1032
D-0398

Y 1032 # 2

98

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 26

SOLD TO FORSTER UNCLE'S ENVIRONMENTAL SUPPLY CORP.
TRUCK ID: 2300
2300 LINDEN HILL ENVIRONMENTAL SUPPLY CORP.
Suffolk TRUCK ID: 2300
NEW IN TRUCK ID: 2300
1817-1829

↑ GROSS 04:33PM 28ENT95
↑ TARE 124340 LB
↑ NET 34540 LB
89700 LB
TOTAL 44.85

TIME AND DATE 04:33PM 28ENT95

TONS TOTAL 35.88 cu. yd.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGORUN
-



DELIVERED TO:
BY CONTRACT No. N62472-94-T No 1030
D-0398

99

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 96

SOLD TO FOSIER WAEGER ENVIRONMENTAL CORP.
TICKET NO. 221
2300 Lincoln Hwy East of the Oxford Valley
SUITE 200 TRUCK ID: 19047-1829
MHA-IN 35940 LB

04:31PM 28ENT96

GROSS 124520 LB
TARE M TAPE 35940 LB
NET 88580 LB
TOTAL 44.29

TIME AND DATE 04:49PM 28ENT96

TONS TOTAL 35.43 cu. yd.

CASH C.O.D. CHARGE PICKUP DEL



- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANKRUN
-

DELIVERED TO:
M4 CONTRACT NO. N62472-94-
D-0398

T No 1033

99

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 96

SOLD TO Kudler Leffel Environmental Corp
TICKET NO. 220
2300 Lincoln Hwy East of the Oxford Valley
SUITE 200 TRUCK ID: 19047-1829
MHA-IN 35940 LB

04:01PM 28ENT96

GROSS 119820 LB
TARE M TAPE 37040 LB
NET 82780 LB
TOTAL 41.39 YARDS

TIME AND DATE 04:20PM 28ENT96

TONS TOTAL 41.39 cu. yd.

CASH C.O.D. CHARGE PICKUP DEL



- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANKRUN
-

Delivered to:
M4 CONTRACT NO. N62472-94-
D-0398

T No 1036

101

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9-96
SOLD TO Foster Wheeler Environmental Corp
TICKET NO. 2300
2300 (MED) Hwy East of Dixfield Valley
TRUCK TO: 31607
WEIGHT IN: 31607
DATE: 5-9-96

GROSS 118850 LB
TARE 34600 LB
NET 84250 LB
TOTAL 42.13

TIME AND DATE 05:00AM 28ENT96

TONS TOTAL 33.70 CUYD.
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN
- Increased fill

John Lub...

Delivered to:
Navy Contract No. N62477-94-1-398
T No 1037

100

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9-96
SOLD TO Foster Wheeler Environmental Corp
TICKET NO. 2300
2300 (MED) Hwy East of Dixfield Valley
TRUCK TO: 31607
WEIGHT IN: 31607
DATE: 5-9-96

GROSS 121940 LB
TARE 37000 LB
NET 84940 LB
TOTAL 42.47 YARDS

TIME AND DATE 05:09PM 28ENT96

TONS TOTAL 42.47
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN
-

Delivered to:
Navy Contract No. N62472-94-1-398
T No 1031

103

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 96

SOLD TO Foster Wheeler Environmental Corp
TICKET NO.: 225
2300 Lincroft Hwy East Lake Laffayette
State 2011140 PA 19017-1829
MCH-PA 36180 LB

↑ GROSS	06:42AM	29ENT96	
↑ TARE			121140 LB
↑ NET			36180 LB
			84360 LB
			42.48

TIME AND DATE 07:06:40 29ENT96

TONS TOTAL 33.98 CDYD.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Unprocessed Fill

[Handwritten signature]
FY

T NO 1030

102

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 96

SOLD TO Foster Wheeler Environmental Corp
TICKET NO.: 227
2300 Lincroft Hwy East Lake Laffayette
State 2011140 PA 19017-1829
MCH-PA 36780 LB

↑ GROSS	06:42AM	29ENT96	
↑ TARE			120960 LB
↑ NET			36780 LB
			84190 LB
			42.09

TIME AND DATE 07:20AM 29ENT96

TONS TOTAL 33.67 CDYD.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Unprocessed Fill

[Handwritten signature]
FY

T NO 1039

107

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 9/6

Sold to Foster Wheeler Environmental Corp
TICKET NO. 231
2300 Lueders Way Foster Wheeler Valley
Suite 200, Truck ID: 190217-1829
NORTHINGTON, PA 19027

→ GROSS	09:55AM	29ENT96	
→ TARE			
→ NET			
→ GROSS			119000 LB
→ TARE			34560 LB
→ NET			84440 LB
→ TOTAL			42.22

TIME AND DATE 10:10AM 29ENT96

CASH C.O.D. CHARGE PICKUP DEL

[Signature]

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Processed Fill

TONS TOTAL 35.77 ORD.

Delivered to: Navy Contract No. N624172-94
D-0398

T No 1043

106

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 9/6

Sold to Foster Wheeler Environmental Corp
TICKET NO. 231
2300 Lueders Way Foster Wheeler Valley
Suite 200, Truck ID: 190217-1829
NORTHINGTON, PA 19027

→ GROSS	09:13AM	29ENT96	
→ TARE			
→ NET			
→ GROSS			124920 LB
→ TARE			36860 LB
→ NET			88060 LB
→ TOTAL			44.03

TIME AND DATE 09:47AM 29ENT96

CASH C.O.D. CHARGE PICKUP DEL

[Signature]

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
-

TONS TOTAL 35.22 ORD.

Delivered to: Navy Contract No. N62472-94
D-0398

T No 1042

101

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 96

SOLO TO Wheeler Environmental Corp
TICKET NO. 234
2300 Lincoln Hwy East, Drexelton Valley
State PA TRUCK ID: 19DN7-1829
PLATE NO: 360E0

→ GROSS 117400 LB
→ TARE 36700 LB
→ NET 80700 LB
TOTAL 40.35

TIME AND DATE 11:40AM 29ENT96

TONS TOTAL 37.28 CUYD
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Processed Kill

T No 1045

Delivered to:
any Contract No NE2472-94
D. 0598

TRUCK

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 96

SOLO TO Wheeler Environmental Corp
TICKET NO. 234
2300 Lincoln Hwy East, Drexelton Valley
State PA TRUCK ID: 19DN7-1829
PLATE NO: 360E0

→ GROSS 119020 LB
→ TARE 36060 LB
→ NET 82960 LB
TOTAL 41.43

TIME AND DATE 11:31AM 29ENT96

TONS TOTAL 33.18 CUYD
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Processed Kill

T No 1044

Delivered to:
any Contract No NE2472-94
D. 0598

(111)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 96a

Sold to Foster Wheeler Environmental Corp
TICKET NO: 29
2300 Woodloch Hwy East, Leesport, Maryland Valley
State 210 TRUCK ID: PA 914N7-1829
Methuën 36160 LB

↑ GROSS 01:04PM 29ENT96
↑ TARE 122300 LB
↑ NET 36160 LB
86140 LB
TOTAL 43.07

TIME AND DATE 01:19PM 29ENT96

TONS TOTAL 39.45 CUDH
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Processed Mill

T No 1047

Delivered to:
Navy Contract No N62472-94
D-1303
Bethpage NY (Site #2)

(110)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 96a

Sold to Foster Wheeler Environmental Corp
TICKET NO: 29
2300 Woodloch Hwy East, Leesport, Maryland Valley
State 210 TRUCK ID: PA 914N7-1829
Methuën 34700 LB

↑ GROSS 11:29AM 29ENT96
↑ TARE 118560 LB
↑ NET 34700 LB
83860 LB
TOTAL 41.93

TIME AND DATE 11:50AM 29ENT96

TONS TOTAL 33.54 CUDH
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Processed Mill

T No 1047

Delivered to:
Navy Contract No N62472-94
D-1303
Bethpage NY (Site #2)

113

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 1996

Sold to Foster Wheeler Environmental Corp
Ticket No. 238
2300 Lincoln Highway East, Drexelton Valley
State 200 TRUCK ID: 19D472-1829
MAY 18 1996

↑ GROSS	01:05PM	29ENT96	
↑ TARE			
↑ NET			
↑ GROSS			121780 LB
↑ TARE			36600 LB
↑ NET			85180 LB
↑ TOTAL			42.59

TIME AND DATE 01:30PM 29ENT96

TONS TOTAL 31.07 AWD

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANKRUN
- Recycled Fill

[Handwritten signature]

T No 1040

Delivered to:
my Contract No N62472-94
D-0394

112

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 1996

Sold to Foster Wheeler Environmental Corp
Ticket No. 239
2300 Lincoln Highway East, Drexelton Valley
State 200 TRUCK ID: 19D472-1829
MAY 18 1996

↑ GROSS	01:11PM	29ENT96	
↑ TARE			
↑ NET			
↑ GROSS			125860 LB
↑ TARE			34620 LB
↑ NET			91240 LB
↑ TOTAL			45.62

TIME AND DATE 01:46PM 29ENT96

TONS TOTAL 36.49 AWD

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANKRUN
- Recycled Fill

[Handwritten signature]

T No 1049

Delivered to:
Navy Contract No N62472-94
D-0398

119

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-9 10 96

sold to Yonkers Wheeler Environmental Corp

TICKET NO: 241

2300 Lincoln Hwy East Line Bedford Valley

Site 200 TRUCK ID: 19047-1029

Wheeler Environmental Corp

02:55PM 295195

↑ GROSS

GROSS 122580 LB

W TARE 34920 LB

NET 87660 LB

TOTAL 42.88

↑ TARE

↑ NET

TIME AND DATE 02:55PM 295195

TONS TOTAL 35.10 61141

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- TRUSSES V.I.I

T No 1050

Delivered to: Wheeler Environmental Corp
New York 11754

119

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10 10 96

sold to Yonkers Wheeler Environmental Corp

TICKET NO: 241

2300 Lincoln Hwy East Line Bedford Valley

Site 200 TRUCK ID: 19047-1029

Wheeler Environmental Corp

02:55PM 295195

↑ GROSS

↑ TARE

↑ NET

GROSS 124740 LB

W TARE 36120 LB

NET 88620 LB

TOTAL 44.81

TIME AND DATE 02:55PM 295195

TONS TOTAL 35.44 61141

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- TRUSSES V.I.I

T No 1051

Delivered to: Wheeler Environmental Corp
New York 11754

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10 10 96

Sold to Foster Wheeler Environmental Corp
TRUCK NO: 245
2300 Lincoln Hwy East, Deerfield Valley
Sole 200 TRUCK NO: 19217-1829
TRUCK NO: 38700

↑ GROSS 05:54AM 30ENT96
↑ TARE 120080 LB
↑ NET 38460 LB
TOTAL 86620 LB
TOTAL 48.31

TIME AND DATE 05:53AM 30ENT96

TONS TOTAL 34.64 C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUM
- Processed Mill

Delivered to
New Contract No. 162472-94
7-6518

T No 1055

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-11 10 96

Sold to Foster Wheeler Environmental Corp
TRUCK NO: 244
2300 Lincoln Hwy East, Deerfield Valley
Sole 200 TRUCK NO: 19217-1829
TRUCK NO: 38700

↑ GROSS 05:52AM 30ENT96
↑ TARE 120460 LB
↑ NET 35140 LB
TOTAL 85320 LB
TOTAL 42.56

TIME AND DATE 05:14AM 30ENT96

TONS TOTAL 34.12 C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUM
- Processed Mill

Delivered to
New Contract No. 162472-94
7-6598

T No 1054

122

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10 10 96
SOLD TO Fisher Wheeler Environmental Corp
TICKET NO. 245
2300 Highway 448, Loud Valley
State 200 Truck Stop PA 19417-1829
MCH-11A 36941 LB

↑ GROSS DE: 13AM 30ENT96 119220 LB
↑ TARE M TARE 36940 LB
↑ NET NET 82280 LB
TOTAL 41.14 ~~TONS~~

TIME AND DATE DE: 12AM 30ENT96 02/20
TONS TOTAL 32.91 cu yd.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Recycled fill

Joe V. [Signature]

T No 1056

123

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10 10 96
SOLD TO Fisher Wheeler Environmental Corp
TICKET NO. 247
2300 Highway 448, Loud Valley
State 200 Truck Stop PA 19417-1829
MCH-11A 34860 LB

↑ GROSS DE: 12AM 30ENT96 116080 LB
↑ TARE M TARE 34860 LB
↑ NET NET 81220 LB
TOTAL 40.61 ~~TONS~~

TIME AND DATE DE: 12AM 30ENT96 02/20
TONS TOTAL 32.48 cu yd.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Recycled fill

Joe V. [Signature]

T No 105

No. 00105

DATE 5/10/96

(25)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Foster Wheeler Environmental Corp
3300 Lincoln Hwy. East one Oxford Valley
Suite 200 Long Horn Pa 19047-1829

BUYER

TARE 114320. 1b

NET 76700. 1b

37620. 1b (K)

DELIVERED

PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY SFA

SIGNED BY

[Signature]

Delivered to

Navy Contract #

N62472-94-00398

Grumman Space Corp - Bethpage (Site #2)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Foster Wheeler Environmental Corp
3300 Lincoln Hwy. East one Oxford Valley
Suite 200 Long Horn Pa. 19047-1829

BUYER

GROSS

18:11 00/02/00 115880. 1b

TARE

37440. 1b (K)

NET

78440. 1b

39.220 tn

DELIVERED

PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY SFA

SIGNED BY

[Signature]

127

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10-96

SOLD TO: Fischer, LeBreter, Environmental Corp
TICKET NO. 251
200 Lumbus Hwy East Cape Exur Valley
State 20 TRUCK Bldg 300 PA 19107-1829
Mt Airy

↑ GROSS	07:53AM	30ENT95
↑ TARE	GROSS	120700 LB
↑ NET	W TAPE	36480 LB
	NET	84220 LB
	TOTAL	42.11

TIME AND DATE 09:12AM 30ENT95

TONS TOTAL 33.68 cu yd

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANKRUN
- Reprocessed fill

Handwritten signature

Delivered to NO 1059

129

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10-96

SOLD TO: Fischer, LeBreter, Environmental Corp
TICKET NO. 249
200 Lumbus Hwy East Cape Exur Valley
State 20 TRUCK Bldg 300 PA 19107-1829
Mt Airy

↑ GROSS	07:47AM	30ENT95
↑ TARE	GROSS	119860 LB
↑ NET	W TAPE	35020 LB
	NET	84840 LB
	TOTAL	42.42

TIME AND DATE 09:03AM 30ENT95

TONS TOTAL 33.93 cu yd

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANKRUN
- Reprocessed fill

Delivered to NO 1050

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

(129)

DATE 5-10 10 96

SOLD TO Wheeler Wheeler Environmental Corp
TICKET NO: 2300
3300 Middlebrook Road, Westfield, Mass
Sole 20 TRUCK NO: 19467-1829
MATERIAL 3650 LB

08:23AM 30ENT96

↑ GROSS

GROSS 119960 LB
M TARE 34720 LB
NET 85240 LB

↑ TARE

↑ NET

TOTAL 42.62

TIME AND DATE 08:43AM 30ENT96 Yd

TONS TOTAL 42.62 cu. yd.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Processed fill

Apr

Delivered to
Wheeler Contract No. W62472-94 T No. 1061
D-0316

Wheeler Contract No. W62472-94 T No. 1061

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

(128)

DATE 5-10 10 96

SOLD TO Wheeler Wheeler Environmental Corp
TICKET NO: 2300
3300 Middlebrook Road, Westfield, Mass
Sole 20 TRUCK NO: 19467-1829
MATERIAL 3650 LB

08:03AM 30ENT96

↑ GROSS

GROSS 123390 LB
M TARE 36860 LB
NET 86520 LB

↑ TARE

↑ NET

TOTAL 43.25

TIME AND DATE 08:22AM 30ENT96 Yd

TONS TOTAL 34.60 cu. yd.

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Processed fill

Apr

Delivered to
Wheeler Contract No. W62472-94 T No. 1061
D-0316

Wheeler Contract No. W62472-94 T No. 1061

100

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-16 10 96

sold to Boedeker Property Environmental Corp
TRUCK NO: 253
Zaburdeno Hwy Ford Case Oxford Valley
Sudler Rd 19417-1829
TRUCK NO: 19417-1829
WEIGHTING 30ENT36

→ GROSS 121600 LB
→ TARE W TAPE 34880 LB
→ NET 86720 LB
TOTAL 43.35 ~~TONS~~

TIME AND DATE 10:00AM 30ENT36

TONS TOTAL 34.68 CUYD
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Processed Mill

[Handwritten signature]

Delivered to: Boedeker Property Environmental Corp
by Contract No NU 2472-94 T No 1069
D-1398

101

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10 10 96

sold to Boedeker Property Environmental Corp
TRUCK NO: 253
Zaburdeno Hwy Ford Case Oxford Valley
Sudler Rd 19417-1829
TRUCK NO: 19417-1829
WEIGHTING 30ENT36

→ GROSS 118920 LB
→ TARE W TAPE 34680 LB
→ NET 84240 LB
TOTAL 42.12 ~~TONS~~

TIME AND DATE 10:45AM 30ENT36

TONS TOTAL 33.69 CUYD
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Processed Mill

[Handwritten signature]

Delivered to: Boedeker Property Environmental Corp
by Contract No NU 2472-94 T No 1065
D-1398

No. 00109

DATE 5/11/97

(132)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Delivered to
Navy contract # N62472-94-D0398
Glimman Space Corp. - Bethpage (site #2)
21:05 00/02/00 119840. 1b
37440. 1b (K)
GROSS

BUYER

Foster Wheeler Environmental Corp.
2300 Lincoln Hwy East One Oxford Valley
Suite 200 Long Horn Pa 19047-1829

GROSS

TARE

37620. 1b (K)

NET

81600. 1b
40,800 tn

DELIVERED

PICKED UP

SCREEN SAND

BANK RUN

SIGNED BY

[Handwritten signature]

(131)

No. 00109

DATE 5/11/97

(133)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

Delivered to
Navy contract # N62472-94-D0398
Glimman Space Corp - Bethpage (site #2)
21:05 00/02/00 119840. 1b
37440. 1b (K)
GROSS

BUYER

TARE

37440. 1b (K)

NET

82400. 1b
41,200 tn

DELIVERED

PICKED UP

SCREEN SAND

BANK RUN

SIGNED BY

[Handwritten signature]

135

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10-96

sold to Foster Wheeler Environmental Corp
11611 Ave. Kings Highway East
Suite 200, New York, NY 11754
TRUCK NO: 19467-1829

GROSS 121060 LB
 TARE 36280 LB
 NET 84780 LB
 TOTAL 42.39 YARDS

TIME AND DATE 11:55AM 30ENT96

CASH C.O.D. CHARGE PICKUP DEL
 TONS TOTAL 33.91 CYD

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUM
- PROCESSED FILL

Handwritten signature and initials.

Delivered to
Navy Contract No. NL2472941 No. 1067

134

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10-96

sold to Foster Wheeler Environmental Corp
11611 Ave. Kings Highway East
Suite 200, New York, NY 11754
TRUCK NO: 19467-1829

GROSS 118980 LB
 TARE 34980 LB
 NET 84100 LB
 TOTAL 42.05 YARDS

TIME AND DATE 11:40AM 30ENT96

CASH C.O.D. CHARGE PICKUP DEL
 TONS TOTAL 33.64 CYD

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUM
- PROCESSED FILL

Delivered to
Navy Contract No. NL2472941 No. 1066

(137)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10 10 96

sold to Foster Wheeler Environmental Corp
2300 Kings Highway East, Lisle, IL 60132
Site ZUL TRUCK ID: PA 19467-1829
11:58AM 30ENT96

↑ GROSS 127040 LB
↑ TARE 36640 LB
↑ NET 90400 LB
TOTAL 45.20 ~~100.00~~

TIME AND DATE 12:13PM 30ENT96

TONS TOTAL 36.16 CWD
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGORUN
- Processed Mill

(Handwritten signature)

Referenced to
Buy Contract No. 46 NL2172-94 T No. 1068
D-USE

(136)

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10 10 96

sold to Foster Wheeler Environmental Corp
2300 Kings Highway East, Lisle, IL 60132
Site ZUL TRUCK ID: PA 19467-1829
09:45AM 30ENT96

↑ GROSS 122280 LB
↑ TARE 36440 LB
↑ NET 85840 LB
TOTAL 42.92 ~~100.00~~

TIME AND DATE 10:12AM 30ENT96

TONS TOTAL 34.33 CWD
 CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGORUN
- Processed Mill

(Handwritten signature)

Referenced to
Buy Contract No. 46 NL2172-94 T No. 1063
D-USE

139

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10 1096

SOLO TO Waterbury Environmental Corp
TICKET NO: 287
2300 South Hwy East, Lake Umbagog Valley
Date 2/19/96 TRUCK ID: 19407-1829
MATERIAL: 3500 LB

→ GROSS 120250 LB
→ TARE 34580 LB
→ NET 85670 LB
TOTAL 42.84

TIME AND DATE 12:24PM 30ENT96

TONS TOTAL 34.27 CU YD

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN
- Unspecified Fill

Delivered to Waterbury Environmental Corp
Suffolk Contract No 162772-94 T No 1064

138

AMERICAN MATERIALS INC.

168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

DATE 5-10 1096

SOLO TO Waterbury Environmental Corp
TICKET NO: 287
2300 South Hwy East, Lake Umbagog Valley
Date 2/19/96 TRUCK ID: 19407-1829
MATERIAL: 3500 LB

→ GROSS 119420 LB
→ TARE 36520 LB
→ NET 82900 LB
TOTAL 41.40

TIME AND DATE 10:37AM 30ENT96

TONS TOTAL 33.12 CU YD

CASH C.O.D. CHARGE PICKUP DEL

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANORUN
- Unspecified Fill

Delivered to Waterbury Environmental Corp
Suffolk Contract No 162772-94 T No 1064

Nº. 00110

DATE 5-10-94 (171)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp.
2300 Lincoln Hwy East One Oxford Valley
Suite 200 Long Horn Pa 19047-1829

Delivered to:
Navy Contract # N62472-94-10398
Grumman Space Corp. Bethpage Site #2

GROSS
23:51 00/02/00 119360. 1b
37620. 1b (K) TARE
81740. 1b NET
40.870 tn

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY KIM

SIGNED BY [Signature]

Nº. 00111

DATE 5-10-94 (140)

American Materials Inc.
168 TOWNLINE ROAD
KINGS PARK, NEW YORK 11754
OFFICE PHONE: (516) 368-6200

BUYER Foster Wheeler Environmental Corp
2300 Lincoln Hwy East One Oxford Valley
Suite 200 Long Horn Pa 19047-1829

Delivered to
Navy contract No N62472-94-00398
Grumman Space Corp Bethpage (Site #2)

GROSS
23:55 00/02/00 120360. 1b
37440. 1b (K) TARE
82920. 1b NET
41.460 tn

DELIVERED PICKED UP

SCREEN SAND

BANK RUN

WEIGHED BY KIM

SIGNED BY [Signature]

(Handwritten initials)

AMERICAN MATERIALS INC.
168 Town Line Road
Kings Park, New York 11754

Suffolk: 368-6200
800-439-SAND

P.O. # 1284-04-5008

5-13-96 (2)

DATE 5-13-96 10 96
SOLD TO Foster Wheeler Environmental Corp
TICKET NO. 223
2300 Lincoln Hwy East Gate Oxford Valley
State 200 Truck Mine PA 19407-1829
WEIGHTING 34950 LB

↑ GROSS 08:29AM 03
↑ TARE 12300 LB
↑ NET 34950 LB
88120 LB
TOTAL 44.06

TIME AND DATE 08:49AM 03

CASH C.O.D. CHARGE PICKUP DEL
TOTAL 35.24 0224

(Large handwritten signature)

- FINE SAND
- CONCRETE SAND
- GRIT
- GRAVEL
- BANGRUN
- Processed Fill

Delivered to
Navy Contract No NB2472-91 T No 19
7-1398