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STATEMENT OF WORK FOR THE DECONTAMINATION OF EQUIPMENT, VEHICLES, AND
MISCELLANEOUS MATERIAL NCBC GULFPORT MS
2/28/1986
OAK RIDGE NATIONAL LABORATORY

STATEMENT OF WORK
DECONTAMINATION OF EQUIPMENT,
VEHICLES, AND MISCELLANEOUS MATERIAL
AT NAVAL CONSTRUCTION BATTALION CENTER
GULFPORT, MISSISSIPPI

February 28, 1986

Submitted to:

Air Force Engineering and Services Center
AFESC/DEV
Tyndall Air Force Base, Florida

Prepared by the

HAZARDOUS WASTE REMEDIAL ACTIONS PROGRAM
SUPPORT CONTRACTOR OFFICE
Oak Ridge National Laboratory
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Appendix 3 -- Informal inventory of items to be decontaminated

Appendix 4 -- { DELETED }

Appendix 5 -- Sampling Procedures for Determination of 2,3,7,8-TCDD
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Appendix 6 -- { DELETED }

Appendix 7 -- { DELETED }

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1.0 OBJECTIVES

The objectives of this work are:

1.1 Decontaminate. The contractor shall decontaminate assorted vehicles, equipment, and miscellaneous material (hereafter called items) that may be contaminated with trace levels of 2,3,7,8-tetrachlorodibenzo-para-dioxin (hereafter referred to as dioxin);

1.2 Move. The contractor shall move the decontaminated items to a designated noncontaminated area. Some items are not to be decontaminated but shall be consolidated, packaged, marked, gathered, and remain on the contaminated site for future destruction;

1.3 Sample. The contractor shall take wipe samples on the items that have been decontaminated; and take samples of filtrate resulting from the decontamination process;

1.4 Contract for Chemical Analysis. The contractor shall provide the wipe and filtrate samples to an analytical laboratory selected by the contractor as a part of the response to this RFP and approved by the government contracting officer.

Items are being decontaminated so that the United States Air Force and the Defense Reutilization and Marketing Office may conclude action to dispose of the property. This task is to be completed within 75 days of the award of this contract. All decontamination, moving, and storage activity described in this SOW will take place on site at the Naval Construction Battalion Center (NCBC), Gulfport, Mississippi.

2.0 BACKGROUND

From approximately 1965 to 1977, containers of Herbicide Orange were stored on the open-air site where the items are now located. During this time some of the herbicide was deposited on parts of the ground, leaving dioxin as a trace contaminant in the soil. Sometime after the containers of Herbicide Orange were removed, the items were moved to where the herbicide containers had been. As a result, the items may be contaminated with trace levels of dioxin. It is emphasized that none of the items were used in any way to store, transport, or dispense the Herbicide Orange. The possible contamination is from being moved and parked on ground that tests positive for dioxin in some places. Currently, the levels of dioxin in the soil on which the items are stored are estimated to be in the range of 0 to 300 parts per billion.

3.0 REQUIREMENTS

The items are located on the NCBC, Gulfport, as indicated on the map, Appendix 1. The photographs in Appendix 2 give an indication of the type of items involved. The informal inventory of items is given in Appendix 3.

3.1 Executing this SOW. To carry out this SOW, the contractor shall provide:

- a. the necessary workers, material, and equipment;
- b. a plan which covers the schedule, quality assurance and quality control, procedures, health and safety, financial, and documentation. This plan, once accepted, shall be maintained and become the control document for this SOW.

3.2 Separating and Preparing the Items. The contractor shall separate the items on the storage site into two groups. One group shall be decontaminated and moved, the other group shall not be decontaminated but rather shall be packed and arranged for future movement to a licensed storage/destruction facility as described in paragraph 3.9, below.

a. Items To Be Decontaminated. This group shall consist of items that are nonporous, and that can survive the decontamination process. An item which has porous or fibrous material attached shall have such material removed before being decontaminated. Most of the items have been numbered (white colored spray paint). The contractor shall ensure that the numbering is preserved. If the decontamination process removes the numbers, the contractor shall reapply the same number after the decontamination is completed and before the item is moved to the uncontaminated area. The informal list of major items is given in Appendix 3.

b. Items To Remain on Site. This group shall consist of items or parts of items that are porous, fibrous, or that could not survive the decontamination process. Examples of this type of item are wooden pallets, wooden crating material, foam material, fiber insulation, tarpaulins, and so forth. These latter items shall be chipped, shredded, or otherwise reduced in bulk, placed in appropriate containers provided by the contractor, and gathered to a central location on the contaminated site designated by the government contract monitor -- see paragraph 3.9, below.

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3.3 Dismantling and Decontaminating Building 411. Building 411 is an open sided, structural metal frame shed, built on a concrete pad, located within the contaminated area. The shed measures about 34 feet by 41 feet by 12 feet high. It is enclosed by a chain link fence. The shed is currently used to store items that were involved in previous experiments and measurements on the site. (A photo of Building 411 is given in Appendix 2, page 25, below.) The items in the storage shed shall be decontaminated with the rest of the items on the contaminated site. The drums currently in the shed shall have the surface steam cleaned and placed with the other drums that result from this project (see paragraph 3.9, below). The shed itself and the chain link fence shall be dismantled and decontaminated. The fence posts shall be removed from the ground. The only thing to remain is the concrete pad.

3.4 Decontamination. To perform the decontamination, it is recommended that the contractor use a pressure steam process which, as a minimum, has nominal operating parameters of: nozzle temperature 300 degrees Fahrenheit, operating pressure 150 to 200 pounds per square inch, and flow rate of 3 to 4 gallons per minute. As a minimum: the steam cleaning shall be applied so that the steam, and not merely high temperature vapor, contacts the surface being decontaminated; the surface shall be wiped with the steam nozzle at least three times before moving to the next area on the item; the nozzle shall be moved at a rate which allows the removal of surface contamination. The contractor may propose an alternate method to decontaminate the items. The alternate method must have been successfully used in previous documented applications. The alternate method must conform to all requirements in this SOW.

3.5 Surface Cleaning. All surfaces on the items that are exposed to the intrusion of dust shall be decontaminated. Access ports or removable panels that are clearly dust tight and intact need not be opened for decontamination. All other compartments and areas on the items must undergo the decontamination process. The contractor shall take care that the decontamination material does not collect or pool in inaccessible parts of any item being decontaminated.

3.6 First Item Decontamination Check. Two items that are parked on an area that is suspected of having the highest level of dioxin concentration shall be the first items put through the decontamination process. These two items shall be identified by the government contract monitor. After they are put through the decontamination process, the contractor shall take wipe samples (see paragraph 3.14, below) and provide these samples to the analytical laboratory approved by the government contracting

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officer (see paragraphs 3.13 and 5.1, below). The analytical laboratory shall analyze the samples. If the results of this measurement show dioxin, using a level of detection of 300 parts per trillion (0.3 nanograms per gram), the item (or items) in question shall be recycled through the decontamination process and checked again for dioxin level. If the item(s) still show a detectable dioxin concentration using the same level of detection, the contractor shall cease any further decontamination until receiving additional guidance from the government contract monitor, and there shall be no further payments made to the contractor until the decontamination process is shown to be in conformity with this SOW.

3.7 Subsequent Item Decontamination Check. After it is determined that the first two items have a nondetectable dioxin level, the contractor may proceed with decontamination of the remaining items. The contractor shall take wipe samples of these decontaminated items at the direction of the government contract monitor and provide these samples to the analytical laboratory for analysis. If any wipe samples detect dioxin, the item in question shall be recycled through the decontamination process until the dioxin is not detectable.

3.8 Moving Decontaminated Items. The contractor shall move the decontaminated items to the designated noncontaminated storage area (indicated on Appendix 1), without recontaminating the cleaned items.

3.9 Non-Decontaminated Item Long-Term Storage. The contractor shall take care of the items that are not decontaminated as follows:

a. Chipping/Shredding. The contractor shall use a chipper or shredder on such items as wood pallets and boxes, rubber tires, packing material, and other like material. Maximum size of chipped/shredded items is 5 in. x 5 in. x 3 in.

b. Packaging. Items that have been chipped/shredded and contaminated clothing shall be packed inside Department of Transportation (DOT) approved 30 gallon fiber drums. The fiber drums shall be protected from rain and ground moisture to prevent drum deterioration. Filter material or other soggy items shall be placed in DOT approved 55 gallon ring-top metal drums. All drums shall be supplied by the contractor.

c. Wipe Samples of Drums. The contractor shall take wipe samples of the drums at the direction of the government contract monitor.

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d. Marking. All drums shall be clearly and indelibly marked with the following information:

1. date packed;
2. contract number;
3. Property of the USAF;
4. Danger -- Dioxin (2,3,7,8-TCDD) Contamination.

The lettering should be large enough and of sufficient contrast to be readable with normal vision at a distance of 15 feet in daylight.

e. Central Location. All drums that remain on the site shall be gathered to a central location indicated on the map in Appendix 1.

f. Tie Down. Drums and any other nondecontaminated items that remain on the site shall be tied down in accordance with NCBC Gulfport OP-PLAN 3-83, Hurricane Preparation Procedures.

3.10 Disposition of Rinsate/Filtrate. To the maximum extent possible, the contractor shall filter and recycle all runoff, rinsate, effluents, and condensed vapors. The filters shall be adequate to remove the oil, dirt, dioxin, and other possible contaminants from the rinsate so that recycling the filtrate will not degrade the decontamination process. After the items have been decontaminated, the filtrate shall be evaporated either by draining it on the contaminated site or by using low temperature evaporation or both. The filtrate shall be gone within five days of moving the last items. Any evaporation devices shall be decontaminated or disposed of appropriately. See paragraph 3.13, below.

3.11 Temporary Catchment of Liquid and Vapor. The contractor shall erect a temporary catchment or barrier as a safety measure to prevent runoff of any rinsate or filtrate material from entering the drainage ditches or leaving the contaminated site. The contractor shall also ensure that none of the rinsate material in vapor form leaves the site. The material used to make the temporary vapor barrier shall be dismantled at the conclusion of the decontamination work and shredded or otherwise reduced in bulk, and packaged with the rest of the nondecontaminated waste. See paragraph 3.9, above.)

3.12 Air Sampling. The contractor shall propose an air sampling procedure that will measure and allow estimates of the amount of airborne dioxin, if any, that may be released off the contaminated site.

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3.13 Decontamination of Cleanup Equipment. The contractor shall ensure that before equipment/vehicles used in the decontamination process are moved from the contaminated site, they shall be decontaminated so that the dioxin cannot be detected at a level of detection of 300 parts per trillion (0.3 nanogram per gram).

3.14 Measuring Dioxin Concentration. The contractor shall engage the services of a chemical analysis laboratory which is certified by the Environmental Protection Agency (EPA) to participate in its National Contract Laboratory Program (CLP). This laboratory shall be capable of repeatedly measuring dioxin concentrations with a limit of detection of 300 parts per trillion (0.3 nanogram of dioxin per gram) from wipe and filtrate samples using gas chromatography/mass spectrometry. The precision shall be plus or minus 50 percent or better. The contractor shall submit with its proposal either a reference to the exact procedures used to detect dioxin indicating any variations and the reason(s) and authority for making the variations, or a copy of the detailed procedures themselves. The name of the specific chemical analysis laboratory to be used shall be included in the contractor's proposal and shall be approved by the government contracting officer prior to the start of any work on this SOW. (See paragraph 3.18, below.)

3.15 Surface Wipe Sample Procedures. The contractor shall take wipe samples on the items that have been decontaminated according to the procedures given in Appendix 5.

3.16 Filtrate Sample Procedures. The contractor shall take at least one-liter size samples of the filtrate using a standard procedure which shall be described in the proposal, and approved by the government contract monitor before work begins.

3.17 Shipping of Samples. If the laboratory engaged to provide the dioxin analysis service requires that samples be shipped (rather than doing the analysis on site), the contractor shall describe in detail the kind of packing for each sample, the kind of shipping container, the labels on the container, and the receipts to be maintained.

3.18 Number of Samples and Turnaround Time for Results. Over the period of this work, there shall be a guaranteed minimum of 80 wipe samples and a guaranteed minimum of 25 filtrate samples. This does not include the samples required to conform with the Quality Control/Quality Assurance aspects of the EPA CLP. (See paragraph 3.14, above.) Since the chemical analysis of the samples may be the pacing item in the schedule, prompt turnaround time for sample analysis is required. It is highly desirable that the time duration

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from the analytic laboratory receiving the sample to reporting the results (turnaround time) be 24 hours or less. However, the contractor shall quantify in its proposal the relationship between cost of sample analysis and the throughput time for analysis as a function of the number of samples.

3.19 Personnel Protection. Personnel conducting this activity shall wear protective outer coverings consistent with their involvement in the decontamination process. As a minimum, those workers in the contaminated area shall wear Level C protection: HEPA air-purifying respirators with particulate filters, Tyvek* suits, gloves and rubber shoe covers, or equivalent. The use of outer coverings which require supplied air for respiration/cooling should be considered depending on cost, weather conditions, and decontamination process. The contractor shall consider working at night to avoid daytime radiant heat. The contractor shall make every effort to minimize the number of people entering the contaminated area. The decontamination should take place as close to the noncontaminated area as possible so as to minimize exposure.

* Mention of this trade name does not imply a requirement to use only this brand. An equivalent product which performs the same function may be used.

3.20 Personnel Decontamination and Monitoring.

a. The contractor shall ensure that personnel who work in the contaminated area can change their protective outer coverings without contaminating the changing area. Workers shall shower immediately after removing contaminated outer clothing and before changing into street clothing. All contaminated trash and clothing shall be placed in plastic bags and sealed. The sealed bags shall be packed in 30 gallon fiber drums (see paragraph 3.9, above.).

c. The waste water treatment and storage system shall be a closed system to prevent liquid or vapor discharge until it can be filtered and drained on the contaminated site or evaporated (see paragraph 3.10, above).

d. A person trained as a health monitor shall check and record the vital signs (blood pressure, pulse rate, and oral temperature) of all workers that wear protective suits at the beginning and end of each work shift and rest period. The results of these measurements shall be displayed in plain sight and presented so that patterns may be easily seen and the work/rest cycle adjusted accordingly. The workers who

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are suited in full protective gear may need to take 15 to 30 minute breaks approximately every hour depending on the type of outer covering used, the wet bulb globe temperature (WBGT), and the needs of each individual. The workers shall have the opportunity to replenish body fluids and change protective clothing whenever necessary.

e. The following guidelines are suggested for individuals wearing Level C protection:

1. With WBGT from 75 to 85 degrees F, workers should not be allowed to work more than one hour without taking a least a 15-minute break.
2. With WBGT from 85 to 95 degrees F, workers should not be allowed to work more than 45 minutes without at least a 15-minute break.
3. With WBGT exceeding 95 degrees F, workers should not be allowed to work more than 15 minutes without a 15 minute break.
4. Individuals have variable limits as to the amount of heat they can tolerate. Employees should be informed that they are responsible for their own physical well being. Health monitors can only judge heat stress by what they see and measure. Only the individual worker knows how he or she feels.

3.21 Medical Surveillance. Preemployment and periodic/update medical examinations are required for persons working with possible dioxin contamination. The medical examination must have been within a 12 month period prior to on-site activity, and repeated annually. The medical examination must be at least an equivalent to that outlined in the EPA Medical Monitoring Guidelines. (See Occupational Health and Safety Manual, Chapter 9, Appendix 2, Environmental Protection Agency, Washington D.C.)

3.22 Tailgate Safety Meetings. Job site Tailgate Safety Meetings shall be conducted at the beginning of each shift and whenever new employees arrive at the job site. The meetings shall discuss the safety and health considerations for that day's activities.

3.23 Employee Training and Information. A training program for dioxin (and other possible hazardous chemicals which the contractor may use in conjunction with this job) shall be carried out before

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an employee is permitted to work on the contaminated site. This program shall contain as a minimum:

- a. The specific nature of the operations which could result in exposure to dioxin;
- b. The purpose, proper selection, fitting, use and limitations of respirators and protective clothing applicable to dioxin work;
- c. A description of the medical surveillance program;
- d. Information concerning the adverse health effects associated with exposure to dioxin (and other chemicals that may be used);
- e. Routes of exposure (skin penetration, inhalation, and ingestion);
- f. The engineering controls and safe work practices associated with the employee's job assignment.

3.24 Access. Access to dioxin-contaminated work areas (contamination and contamination reduction zones) shall be regulated and limited to authorized persons. The contractor shall keep a daily log of all persons entering such areas (See paragraph 3.26, below).

3.25 Posting. Warning signs shall be affixed in readily visible locations in or near dioxin contaminated work areas. The information on the sign shall be as follows:

CAUTION
CONTAMINATED AREA
AUTHORIZED PERSONNEL ONLY

3.26 Field Notebook. A notebook shall be use by the contractors site supervisor to record daily activity and to document any data/information which is not documented in the Chain-of-Custody procedure. All entries shall be in ink, dated, and initialed. At the conclusion of the work, this notebook shall be turned over to the government contract monitor.

3.27 News Media Contact. The contractor shall ensure that all contacts with the news media about this work are made through the Headquarters AFESC Public Affairs (PA) Officer, Major J. Heaberg or

Master Sergeant J. Denney, phone number 904-283-6476, Tyndall Air Force Base, Florida. No information shall be released without prior clearance from AFESC/PA and NCBC Public Information Officer.

3.28 Community Relations. The contractor shall maintain community relations through the channels that have been established by the Air Force and the Naval Construction Battalion Center. All information about this activity shall be handled by Major J. Heaberg or MSgt J. Denney at Tyndall Air Force Base, Florida.

4.0 QUALITY ASSURANCE/QUALITY CONTROL PLAN

The contractor shall submit a quality assurance/quality control plan which covers the activities of this SOW. The procedures to be followed for the chain of custody of all samples shall be clearly presented. The procedures in this QA/QC plan, once approved, shall be followed in the execution of this work.

5.0 DELIVERABLES

5.1 Reports of Analyses. The contractor shall ensure that the analytic laboratory submits in writing to the government contract monitor a report of each dioxin level analysis that is taken. This information shall also be provided to the contractor at the same time. Analytical results shall be reported only to the number of significant figures consistent with their limits of uncertainty. Reports shall clearly state which results, if any, have been corrected for blank and recovery measurements. Any other limitations shall also be noted. If average values are reported, an expression of the precision, including the number of measurements, and the range of values shall be included. Reports shall contain sufficient data and information so that users of conclusions can understand the interpretations and uncertainty without having to make their own interpretations from raw data.

5.2 Reports of Sample Taking. The contractor shall submit in writing to the government contract monitor a report which summarizes the activity of sample taking. This report shall include a copy of each chain of custody receipt and a description of any nonroutine sample taking experiences.

5.3 Summary Documentation of Analytical Measurements. At the conclusion of this work, the contractor shall provide summary documentation of all analytical measurements that contains as a minimum:

- a. the chain of custody to trace the samples from origin to final analysis;

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- b. description of the analytical methodology used;
- c. description of confirmatory evidence that dioxin was detected;
- d. support statements about detectability;
- e. description of the Quality Assurance program and demonstration that it has been adhered to;
- f. information to support confidence statements for the data.

5.4 Data Recording of Analytical Measurements. Data on the analysis of all samples, including all instrumental output, shall be recorded in a bound laboratory notebook and shall include as a minimum: complete sample documentation, transfers and movement, sample number, initial sample weight, extraction volume, final weight and volume analyzed, instrument response, example calculations, and concentration of sample. The time that each sample was run shall also be included plus the name of the person making the measurements. These notebooks shall be turned over to the government contract monitor at the conclusion of the contract.

5.5 Photographs. The contractor shall take photographs of the decontamination/move/wipe activity to document this entire project. The photographs shall be made into 35mm color slides and provided to the government contract monitor on a frequent basis throughout this project.

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APPENDIX 1

MAP OF
NAVAL CONSTRUCTION BATTALION CENTER
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APPENDIX 2

PHOTOS OF SOME OF THE ITEMS
TO BE DECONTAMINATED

















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APPENDIX 3

INFORMAL INVENTORY OF ITEMS

TO BE

DECONTAMINATED

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<u>Item #*</u>	<u>Description</u>	<u>Official Identifying Number**</u>	<u>Remarks</u>
1.	Ambulance	94-75441	
2.	John Deere Tractor	57-03843	Includes brush scraper on front end.
3.	Tractor	96-31699	
4.	Tractor	96-33940	
5.	Tractor	96-32692	
6.	Tractor	96-35961	
7.	Tractor	96-31689	
8.	Tractor	96-30195	
9.	Tractor	96-33942	
10.	Dump truck	96-33445	Debris in back of 96-33445 dump truck. Metal items in back of truck can be decontaminated. Other debris should not be.
11.	Crane	N6597143197171	Is in terrible shape. Tires strapped to a pallet on top of crane are not to be decontaminated. All metal items on back of crane can also be decontaminated.
12.	Cherry picker	4940001690228	Number located on fender.
13.	Pickup truck	94-92388	Tire in back of pickup truck is not to be decontaminated. Metal items are okay.

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<u>Item #*</u>	<u>Description</u>	<u>Official Identifying Number**</u>	<u>Remarks</u>
14.	Pickup truck	94-94835	Spare tire in back of truck is red "x"d.
15.	Trailer	97-26602	The tarp in storage compartment of trailer is red "x"d. Back end of trailer is empty. Anything not marked will stay.
16.	Flatbed trailer	97-27727	
17.	Roller	46-02607	
18.	Flatbed	97-27729	
19.	Cherry picker	96-29660	All debris in the vehicle should be removed and not decontaminated.
20.	Flatbed	97-23119	
21.	Cushman cart	98-01526	
22.	Dozer	48-17052	Dozer blade is also #22. Also includes another piece of dozer equipment in front of it.
23.	Forklift	13-11988	Also chalked on the forklift is "393000lift"
24.	Cherry picker	003053	

Items numbered 25 through 28 inclusive have been deleted from the list of items to be decontaminated.

29.	Metal cable reel		To be decontaminated.
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<u>Item #</u>	<u>Description</u>	<u>Official Identifying Number</u>	<u>Remarks</u>
30.	CONEX container		External can be decontaminated. Anything inside not metal is to remain
31.	Pickup truck	94-88764	
32.	Construction vehicle	13-68282	(Number hard to read.)
33.	Covered trailer	045000366	Has scaffolding inside. Decontaminate all metal items.
34.	Metal racks		Looks like racks for warehouse.
36.	Weight		Weight for back of crane.
37.	Parts of a crane	Property Tag 002946	Also has the identifier: 381000LSN
38.	Small fuel tank.		
39.	Three long booms and five shorter booms.		
40.	Remains of Stakebed truck.	Unreadable	Includes a lot of stuff in back. Metal to be decontaminated.
42.	Flatbed		Power lift on back with a wooden floor which has to be removed. It says on the side "Navy Exchange". It includes a couple of transmissions and motor on the back that can be decontaminated.
43.	Hood of a vehicle		Includes some motor parts that are lying next to it.

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<u>Item #*</u>	<u>Description</u>	<u>Official Identifying Number**</u>	<u>Remarks</u>
44.	Crated deep-well pump assemblies		All packing has to be removed. The pumps to be decontaminated.
45.	Cage to be lifted by a crane.		
46.	Refrigerator		(Household kitchen size)
47.	Miscellaneous items		Crane boom, exhaust pipe, side panel of vehicle.
48.	Electrical junction box		Remove the crating and decontaminate the metal box.
48.	Tank truck	96-31527	
49.	Tank trailer	52-03160	
50.	Pickup truck- size trailer.	97-27541	Stainless steel tanks possibly a water purification unit in the trailer bed.
51.	Same as number 50.	97-27542	Same as number 50.
52.	Single-beam trailer	97-05847	
53.	Compressor	21-06685	Plate in front of compressor must be opened, wood removed, and the items inside decontaminated.
54.	Plywood sided box		Approx 3 ft x 3 ft x5 ft. Remove wood before decontaminating contents
55.	Flatbed		Most of the bed is missing.

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<u>Item #*</u>	<u>Description</u>	<u>Official Identifying Number**</u>	<u>Remarks</u>
56.	Metal locker		
57.	Load of pipes		Two piles of olive drab colored pipes.
58.	Boiler		Remove and store on-site the fiberglass insulation on the boiler and its pipes.
59.	Boiler		
60.	Construction vehicle	N6597141307120	
61.	Construction vehicle	N6597141307119	Plus miscellaneous parts lying on ground adjacent to number 61.
62	Construction vehicle	N6597141307118	
Items numbered 63 through 82 inclusive have been deleted from the list of items to be decontaminated			
83.	Scraper vehicle	Not readable	
84.	Metal frames		All packing and foam material must be removed before decontaminating the metal parts.
85.	Boom from a crane	32BB1008	
86.	Remnants of electric golf cart	421997	
87.	Fuel tank from a bulldozer.		
88.	Pallet of miscellaneous electric generator parts and piece of exhaust/muffler pipe.		

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<u>Item #</u>	<u>Description</u>	<u>Official Identifying Number</u>	<u>Remarks</u>
89.	Forklift	No number	
90.	Trailer for liquids	97-21965	
91.	Trailer for fuel tank		
92.	Tractor	48-16050	John Deere Tractor
93.	Pickup-truck size trailer		
94.	Pickup-truck size trailer		
95.	Backhoe parts		
96.	Plymouth Volare Sedan	N26260440172637	
97.	Remains of 2.5 ton truck.		Along with front wheel assembly.
98.	Remains of 2.5 ton truck		Miscellaneous parts spread on ground around truck.
99.	Cab from truck	96-30201	
100.	Pallet of miscellaneous truck parts.		
101.	Bucket for crane		
102.	Scraper bucket for crane.		
103.	Parts of a boom for a crane.		
104.	Cables for crane		Wood cartons to be removed and contents decontaminated.

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Item **	Description	Official Identifying Number**	Remarks
105.	Parallelogram		V3555441366508
106.	Miscellaneous construction parts.	13-00744	
107.	Bucket	V3555441366506	
108.	Hydraulic activated lift.		
109.	Front end of dozer	V3555441666538	
110.	Blade for bulldozer		
111.	Bucket for shovel		
112.	Ditch digger attachment		"The Fang"
113.	Draw bar		

Note: Item numbers 114 to 199 not used.

200. Includes all the building-grade angle irons (approximately 250 pieces) in the northern most end of the contaminated storage area. Some of the pieces are 17 ft 4 in in length. Other pieces are approximately 35 ft long.

///// LAST ITEM /////

 *The item number in this column has been spray painted in white colored paint on the item as part of the identification done just for this decontamination work.

**The numbers given in this column, unless otherwise noted, have been stenciled on the item as part of its official government designation.

APPENDIX 5

SAMPLING PROCEDURES FOR DETERMINATION
OF
2,3,7,8-TCDD ON SURFACES

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This procedure is from EPA Region VII and is specific to taking wipe samples of common residential surfaces in interior structures. The procedure is intended to measure "available" surface contamination.

The surfaces to be sampled at NCBC, Gulfport, will have been freshly decontaminated and relatively clean of debris. Therefore, this procedure may need to be modified to accommodate the specific site conditions. The contractor shall clearly state what changes are requested and the reasons for the changes to these procedures.

Wipe Sampling Procedure

The routine wipe sampling procedure utilizes a sorbent pad which has been dampened with solvent before collecting the sample. Either cotton gauge or filter paper (Whatman #4) can be used as a sorbent. The solvent should be isooctane.

The damp (wet) wipe sample pad will be hand held and the area to be wiped will be measured using a 2,500 cm² template. Care must be taken to assure proper use of a sampling template. Different templates may be used for the variously shaped areas which must be sampled. A 2500 cm² area may be a 50 cm x 50 cm square, a rectangle (e.g., 25 cm x 100 cm), or any other shape. The use of a template assists the sampler in the collection of a 2500 cm² sample and the selection of representative sampling sites. The template should be thoroughly cleaned between samples (by rinsing with methylene chloride) to prevent contamination of subsequent samples by the template.

A wet wipe procedure may result in material other than the analyte of interest being collected which could interfere with the sample analysis. The potential for interferents is also a factor to consider in selecting a solvent. Because of the potential for these interferents, sampling personnel will carefully document all conditions that exist on each surface sampled.

As part of all sampling procedures, field blanks will be collected to determine if specific analytical interferences may be present in either the sorbent pads or as the solvent. The field blank will also determine whether procedures used to collect a wet wipe sample introduce any interferences to the samples, and will be included at a frequency of five percent (one per 20 samples collected; or one per sampling event).

The standard operating procedures established for collecting wet wipe samples are as follows:

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1. Materials and Apparatus

- a. 3" x 3" sterile cotton gauze pads, individually wrapped or Whatman #4 filter paper
- b. Disposable latex or neoprene gloves
- c. Sample bottles, 240 ml, amber glass with teflon liners
- d. Water, glass distilled or isooctane, glass distilled*
- e. Templates (2500 cm²)
- f. Samples labels
- g. Field log notebook/chain-of-custody records
- h. Indelible ink pen
- i. Metric ruler

*CAUTION - Isooctane is flammable and should be handled with care.

2. For each sampling event (or at least once for 20 samples collected), prepare a field blank using the following procedure:

- a. Put on a new pair of disposable gloves
- b. Remove cotton gauze pad or Whatman #4 filter paper from package with a pair of clean stainless steel forceps
- c. Soak pad with solvent (water or isooctane)
- d. Carefully place pad into a precleaned glass jar
- e. Add a 2nd dry pad to the precleaned glass jar in order to simulate the sampling procedure which requires 2 pads.
- f. Prepare sample label for collection bottle
- g. Record sample information

3. Select area for collecting a series of wet wipe samples. Ensure that the surface area is large enough to use with a 2500 cm² template.

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4. Take a wipe sample using the following procedure:
 - a. Put on a clean pair of disposable gloves.
 - b. Hold the template in position for sampling.
 - c. Remove a sorbent pad (cotton gauge or Whatman #4 filter paper).
 - d. Dampen the pad with solvent. The amount of solvent should be enough to dampen the pad but not so much as to result in excess liquid that runs onto the surface being sampled.
 - e. Thoroughly swab the area marked off by the template.
 - f. Carefully place the damp pad into a precleaned glass jar.
 - g. Immediately take a 2nd dry sorbent pad and wipe the area marked by the template to remove any residual solvent and particulate matter.
 - h. Carefully place this dry pad into the glass jar along with the damp pad, and close jar tightly.
 - i. Store at 4°C until ready for analysis. Protect sample from light.
5. For each wipe sample, record the following information:
 - a. Sample number, both on bottle and data sheet
 - b. Sample location
 - c. Description (of surface sampled)
 - d. Area sampled in square centimeters (should be 2500 cm²)
 - e. Observations/problems, if pertinent
 - f. Names of sampling personnel
6. The sampling area shall be left outlined with duct tape, masking tape, or spray paint, with the sample number written on this "frame." This marking of the specific areas sampled may be used for future reference.
7. Change gloves or decontaminate gloves after taking each sample.

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8. Upon removal of samples from the site, a chain-of-custody form shall be established for the samples. The chain of custody will act as a transmittal form from sampling personnel to laboratory personnel, and will be signed at this time to document that samples are properly relinquished and received by appropriate staff members.

APPENDIX B

UNIQUE REQUIREMENTS APPLICABLE
TO THE
NAVAL CONSTRUCTION BATTALION CENTER
GULFPORT, MISSISSIPPI

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The information in this appendix has been provided by the Public Works Office of the NCBC, Gulfport.

1. DIRECTIVES. Applicable Department of Defense (DOD), Secretary of the Navy (SECNAV), Chief of Naval Operations (OPNAV), and other directives, instructions, and regulations are available on base.
2. STATION REGULATIONS. The Contractor and his employees shall become acquainted with and obey all Government regulations as posted, or as requested by the responsible Government representative.
3. ENERGY CONSERVATION. The Contractor shall participate actively in the activity energy conservation program. The Contractor shall comply with the base energy conservation program and shall become familiar with CBCGPTINST 4101.1.
4. FIRE PREVENTION. The Contractor shall ensure that his employees know how to turn in a fire alarm. The Contractor shall observe all requirements for handling and storage of combustible supplies, materials, waste and trash. Contractor employees operating critical equipment shall be trained to properly respond during a fire alarm or fire in accordance with activity instruction procedure number CBCGPTINST 11321.1E.
5. ENVIRONMENTAL PROTECTION. The Contractor shall comply with all applicable environmental protection requirements. All environmental protection matters shall be coordinated with the responsible Government representative. Inspection of any of the facilities operated by the Contractor may be accomplished by the Activity Environmental Protection Coordinator, or authorized officials on a no-notice basis during normal working hours. In the event that a regulatory agency assesses a monetary fine against the Government for violations caused by Contractor negligence, the Contractor shall reimburse the Government for the amount of that fine and other costs. The Contractor shall also clean up any oil spills which result from the Contractor's operations. The Contractor shall comply with the instructions of the cognizant Navy Medical Department with respect to avoidance of conditions which create a nuisance or which may be hazardous to the health of military or civilian personnel.
6. DISPOSAL. Nonhazardous waste, (debris, rubbish) and nonusable material resulting from the work under this contract shall be disposed of by the Contractor at his expense off Government Property. Hazardous waste must be disposed of in accordance with the provisions of other sections of this SOW.

7. SAFETY REQUIREMENTS AND REPORTS

a. All work shall be conducted in a safe manner. The government will not provide safety equipment to the contractor.

b. Prior to commencing work, the Contractor shall meet in conference with the responsible Government representative to discuss and develop mutual understandings relative to administration of the Safety Program.

c. The Contractor's workspace may be inspected periodically for OSHA and Navy violations. Abatement of violations will be the responsibility of the Contractor and/or the Government as determined by the responsible Government representative. The Contractor will provide assistance to the Safety Office escort and the federal or state OSHA inspector if a complaint is filed. Any fines levied on the Contractor by federal or state OSHA offices due to safety/health violations will be paid promptly.

d. All accidents and exposure data must be reported to the responsible Government representative within 24 hours of their occurrence.

e. The contractor shall submit to the responsible Government representative a full report of damage to Government property and/or equipment by contractor employees. All damage reports shall be submitted to the responsible Government representative within 24 hours of the occurrence.

f. Only emergency medical care is available in Government facilities to Contractor employees who suffer on-the-job injury or disease. Care will be rendered at the rates established in BUMEDINST 6320.4 series. Reimbursement will be made by the Contractor to the Naval Regional Medical Center Collection Agent upon receipt of statement.

8. SECURITY REQUIREMENTS

a. The Contractor shall comply with all activity security requirements. Upon request, the Contractor shall submit the name and address of each employee hired for work on this contract and shall cause to be filled out questionnaires and other forms as may be required for security.

b. Neither the Contractor nor any of its employees shall disclose or cause to be disseminated any information concerning the operations of the activity which could result in or increase the likelihood of the possibility of a breach of the activity's security or interrupt the continuity of its operations.

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c. Disclosure of information relating to the services hereunder to any person not entitled to receive it, or failure to safeguard any classified information that may come to the Contractor or any person under his control in connection with work under this contract, may subject the Contractor, his agents or employees to criminal liability under 18 U.S.C., Section 793 and 798.

d. All inquiries, comments or complaints arising from any matter observed, experienced, or learned as a result of or in connection with the performance of this contract, the resolution of which may require the dissemination of official information will be directed to the activity Commander.

e. Deviations from or violations of any of the provisions of this paragraph will, in addition to all other criminal and civil remedies, provided by law subject the Contractor to immediate termination for default and/or the individuals involved to a withdrawal of the Government's acceptance and approval of employment.

9. PASSES AND BADGES. All Contractor employees shall obtain the required employee and vehicle passes. The Contractor shall, prior to the start of the contract, submit to the responsible Government representative an estimate of the number of personnel expected to be utilized at any one time on the contract. The Government will issue badges without charge. Each employee shall wear the Government issued badge over the front of the outer clothing, except those employees wearing the protective outer coverings in the immediate work area. When an employee leaves the contractor's service, the employee's pass and badge shall be returned within five days. Passes and badges issued to Contractor employees shall not negate the requirement for employee identification required in the "IDENTIFICATION OF CONTRACTOR EMPLOYEES", Paragraph 12, below.

10. ACCESS TO SECURED FACILITIES

a. It shall be the Contractor's responsibility, through the responsible Government representative, to obtain access to secured facilities and arrange for them to be opened and closed.

b. Keys may be issued to the Contractor; however, it shall be the Contractor's responsibility to arrange for adequate security of the facilities at the end of each work day.

c. The Contractor shall be responsible for the cost of replacing any keys that are furnished to and lost by his employees. If the responsible Government representative decides that a lock must be replaced because of the loss of a key by the Contractor's employees, the Contractor shall pay the cost of that replacement.

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11. CONTRACTOR EMPLOYEES

a. The Contractor shall provide to the responsible Government representative the name or names of the responsible supervisory person or persons authorized to act for the contractor.

b. The Contractor shall furnish sufficient personnel to perform all work specified within the contract.

c. Contractor employees shall conduct themselves in a proper, efficient, courteous and businesslike manner.

d. The Contractor shall remove from the site any individual whose continued employment is deemed by the responsible Government representative to be contrary to the public interest or inconsistent with the best interests of National Security.

e. No employee or representative of the Contractor will be admitted to the site of work unless he furnishes satisfactory proof that he is a citizen of the United States, or, if an alien, his residence within the United States is legal.

12. IDENTIFICATION OF CONTRACTOR EMPLOYEES. All contractor/subcontractor employees working under this contract shall be identified by a distinctive name plate, emblem, or patch attached in a prominent place on an outer garment. Employee identification shall not be substituted for station required passes or badges.

13. IDENTIFICATION OF CONTRACTOR VEHICLES. Each contractor provided vehicle shall show the contractor's name so that it is clearly visible and shall at all times, display a valid state license plate and safety inspection sticker, if applicable. Contractor vehicles operated on Government property shall be maintained in good repair.

14. PERMITS. The Contractor shall, without additional expense to the Government, obtain all appointments, licenses, and permits required for the prosecution of the work. The Contractor shall comply with all applicable federal, state, and local laws. Evidence of such permits and licenses shall be provided to the responsible Government representative before work commences.

15. INSURANCE. Within fifteen days after the award of this contract, the Contractor shall furnish the responsible Government representative a certificate of insurance as evidence of the existence of the following insurance coverage in amounts not less than the amounts specified below.

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COVERAGE

<u>COVERAGE</u>	<u>PER PERSON</u>	<u>PER ACCIDENT</u>	<u>PROPERTY</u>
Comprehensive General Liability	\$500,000	\$1,000,000	\$100,000
Automobile Liability	\$300,000	\$1,000,000	\$100,000
Worker's Compensation	AS REQUIRED BY STATE LAW		

(Other as required by State Law)

Endorsement to Automobile Liability For Contractor Personnel Operating Government Owned Vehicles. The same insurance coverage shall be provided those vehicles/equipment owned or rented by the Contractor as the Government owned.

The Certificate of Insurance shall provide for thirty days written notice to the responsible Government representative by the insurance company prior to cancellation or material change in policy coverage.

16. DRUG ABUSE BY CONTRACT EMPLOYEES. The Secretary of the Navy has determined that the illegal possession and use of drugs and paraphernalia by civilian and contract employees in the military setting contributes directly to military drug abuse and undermines command efforts to eliminate drug abuse among military personnel. The policy of the Department of the Navy (including the Marine Corps) is to deter and detect drug offenses by civilian and contract employees on military installations. Measures to be taken to identify drug offenses on military installations, and to prevent introduction of illegal drugs and paraphernalia include routine, random inspections of vehicles on entry or exit, with drug detection dog teams, when available, and random inspection of personal possessions on entry or exit. Where there is probable cause to believe that a civilian or contract employee on a military installation has been engaged in use, possession or trafficking of drugs, that employee may be restricted or detained for the period necessary until he or she can be removed from the installation or can be turned over to local law enforcement authorities having jurisdiction, when appropriate. In any event, civilians or contract employees suspected of committing a drug offense on a military installation may be removed therefrom at the earliest opportunity. When illegal drugs are discovered in the course of an inspection or search of a vehicle operated by a civilian or contract employee, the employee and vehicle may be detained for a reasonable period of time necessary to turn the employee and the vehicle over to appropriate civil law enforcement officials, and action may be taken to suspend, revoke or deny

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installation driving privileges. Implicit with the acceptance of this contract is the contractor's agreement to comply with all federal statutes, laws and regulations, including those regulations issued by the Commanding Officer of the military installation.

17. AVAILABILITY OF USE OF UTILITY SERVICES (APR 1984)

a. The Government shall make all reasonably required amounts of utilities available to the Contractor from existing outlets and supplies, as specified in the contract. Unless otherwise provided in the contract, the amount of each utility service consumed shall be charged to or paid for by the Contractor at prevailing rates charged to the Government or, where the utility is produced by the Government, at reasonable rates determined by the Contracting Officer. The Contractor shall carefully conserve any utilities furnished without charge.

b. The Contractor, at its expense and in a workmanshiplike manner satisfactory to the Contracting Officer, shall install and maintain all necessary temporary connections and distribution lines, including devices to prevent any return of electricity or electrical interference (including radiated electrical interference above Federal Communications Commission permissible limits), and to prevent back flow of water, and all meters required to measure the amount of each utility used for the purpose of determining charges. Before final acceptance of the work by the Government, the Contractor shall remove all temporary connections, distribution lines, meters, and associated paraphernalia. (FAR 52.236-14)