Georgia Department of Natural Resources
205 Butler Street, S.E., Suite 1154 Atlanta, Georgia 30334
Joe D. Tanner, Commissioner
Harold F. Reheis, Director
Environmental Protection Division

September 20, 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Colonel Floyd B. Marks III
Garrison Commander
Headquarters, 24th Infantry Division and Ft. Stewart
Fort Stewart, Georgia 31314-5000

RE: Proposed Consent Order
Hunter Army Airfield
GA4210022733

Dear Colonel Marks:

Thank you for meeting with us on September 8 to discuss the July 30 Notice of Violation regarding Hunter Army Airfield. We were impressed with the compliance program which you have initiated and I believe that our discussions were very productive. On September 13, 1993, Derrick Williams and Leigh Banks performed a follow-up inspection and determined that violations cited in the NOV had been corrected as you reported.

Attached is a revised Consent Order between EPD and Hunter Army Airfield to resolve the violations cited in the NOV. We have lowered the settlement to twenty five thousand ($25,000.00) dollars in consideration of your prompt and genuine efforts to comply. The enclosed Consent Order also contains conditions and a schedule to ensure the investigation and remediation of possible releases at the Airfield pursuant to the Georgia Hazardous Waste Management Act.

Please sign the enclosed Order and return it to this office with your check made payable to the Department of Natural Resources, State of Georgia, within forty-five (45) days of receiving this Order. If you have questions, please contact Jim Ussery at (404) 656-2833.

Sincerely,

Harold F. Reheis
Director

Enclosure: 1
File: Hunter Army Airfield (R)

DOCUMENT 3

DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION
STATE OF GEORGIA

IN RE:	Hunter Army Airfield Headquarters, 24th Infantry Division Fort Stewart, Georgia 31314-500	# Order No. EPD-HW- # #

CONSENT ORDER

WHEREAS, Hunter Army Airfield (hereinafter "Respondent") is a subinstallation of Fort Stewart providing aviation support to the 24th Infantry Division (Mechanized) at Fort Stewart; and

WHEREAS, the Respondent is a large quantity generator of hazardous waste and is subject to the provisions of the Georgia Hazardous Waste Management Act, as amended, Official Code of Georgia Annotated (O.C.G.A.) Section 12-8-60, et seq (hereinafter "Act"), and the Rules for Hazardous Waste Management, Chapter 391-3-11, promulgated pursuant thereto, as amended (hereinafter "Rules"); and

WHEREAS, the Respondent is a facility as defined by §391-3-11-.02 of the Rules; and

WHEREAS, on April 12, 1993, representatives of the Georgia Environmental Protection Division, Department of Natural Resources, State of Georgia (hereinafter "EPD") inspected the facility to determine its compliance status with regard to the Act and the Rules; and

WHEREAS, the EPD observed that the Respondent is accumulating hazardous waste, solid waste, and unidentified materials in containers and tanks at the Facility and that releases from those containers and tanks have occurred; and

WHEREAS, the Respondent was found to be in violation of the Act and Rules as follows:

1. Section 391-3-11-.08 of the Rules [40 CFR 262.34(a)(3)] for failure to mark one 55-gallon container of spent antifreeze in the PDO Yard DRMO storage area with the words "Hazardous Waste".

2. Section 391-3-11-.08 of the Rules [40 CFR 262.34(a)(3)] for failure to mark eight 55-gallon containers of paint waste in the PDO Yard DRMO storage area with the words "Hazardous Waste".

3. Section 391-3-11-.08 of the Rules [40 CFR 262.34(a)(3)] for failure to mark one 55-gallon container labelled JP4 pads in the PDO Yard DRMO storage area with the words "Hazardous Waste".

4. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of sixty nine 55-gallon containers stored in or around the PDO Yard were hazardous waste.

5. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of two above ground storage tanks containing used oil and off-specification fuel inside the PDO Yard were hazardous waste.

6. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of one tank holding used oil outside Hanger 850 was a hazardous waste.

7. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of two tanks containing waste oil and off-specification fuel outside Hanger 860 were hazardous waste.

8. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of one 55-gallon container labelled "Antifreeze" inside Building 1336 was a hazardous waste.

9. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of two 55-gallon containers located northwest of Building 1336 were hazardous waste. Chief Bryant identified the contents of the containers as a waste but he was unable to identify the contents of the containers at the time of the inspection.

10. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of one tank labelled contaminated fuel located northwest of Building 1336 was a hazardous waste.

11. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of six 55-gallon containers located southeast of Building 1336 were hazardous waste.

12. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether waste oil collected at the sand filter trap used to manage runoff from the fueling islands located southeast of Building 1336 was a hazardous waste. To prevent the disposal of containers into the filter trap, concertina wire was strung around its perimeter. At the time of the inspection, a 5 gallon container was floating in the filter trap. This trap was reported during the follow-up inspection performed on September 13, 1993 to discharge into and adjacent ditch.

13. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of twenty five 55-gallon containers outside Building 1310 in the waste storage area were hazardous waste.

14. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of two tanks in Building 811 containing waste oil and fuel

were hazardous waste.

15. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of two 55-gallon containers in Building 811 were hazardous waste.

16. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of four tanks containing off-specification oil and fuel in Building 838 were hazardous waste.

17. Section 391-3-11-.08 of the Rules [40 CFR 262.11] for failure to determine whether the contents of one 55-gallon container labelled "Antifreeze" in Building 838 was a hazardous waste.

18. Section 391-3-11-.08 of the Rules [40 CFR 262.34(a)(2)] for failure to date one container marked "Hazardous Waste" containing paint waste in Building 838.

19. Section 391-3-11-.08 of the Rules [40 CFR 265.15(a) & (c)] for failure to inspect your facility for malfunctions and deterioration, operator errors, and discharges which may be causing or may lead to release of hazardous constituents to the environment and or a threat to human health. Containers were observed leaking inside the Property Disposal Office (PDO) Yard, adjacent to the PDO Yard,

outside Hanger 860 at the waste disposal area, adjacent to the filter trap at Building 1336, and at the waste storage area at Building 1310.

WHEREAS, the Director has determined that releases have occurred as a result of the Respondent's activities at the Facility; and

WHEREAS, the Respondent and the Director met on September 8, 1993 to discuss and respond to the above noted violations; and

WHEREAS, the Respondent submitted for EPD's review a document entitled "Hazardous Material/Hazardous Waste management" and a Directorate of Engineering and Housing inspection checklist to ensure compliance with the Act and the Rules; and

WHEREAS, the noted violations were determined to have been corrected during a follow-up inspection of the Facility on September 13, 1993 by representative of the EPD; and

WHEREAS, an amicable disposition of these allegations concerning factual circumstances referred to in this Consent Order is considered to be in the best interests of the citizens of the State of Georgia.

NOW, THEREFORE, before the taking of any testimony and without adjudicating the merits of the parties' positions in this matter, or the admission by the Respondent of any of the foregoing allegations of fact or conclusions of law, the parties hereby resolve the issues in this case by agreement and upon the **Order** of the Director and the Consent of the Respondent as follows:

1. Within forty-five (45) days of the date of the execution of this Order, the Respondent shall pay to the EPD the sum of twenty five thousand ($25,000.00) dollars.

2. The Respondent shall comply with the procedures, duties, assignments, and actions described in the Hazardous Material/Hazardous Waste Management document which was hand delivered on September 8, 1993 by the Respondent.

3. Within ninety (90) days of the date of execution of this Order, the Respondent shall provided permanent secondary containment for the waste oil and off-specification fuel storage areas outside Hangers 850 and 860.

4. Within ninety (90) days of the date of execution of this Order, the Respondent shall submit a report to the Director that demonstrates that the horizontal and vertical extent of soil contamination which may have resulted from releases at the Property Disposal Office Yard, waste oil and off-specification fuel storage areas

at Hangers 850 and 860, and the drainage ditch adjacent to the sand filter trap at Building 1336 have been defined and all contaminated soils have been removed. Satisfactory evidence of a complete definition of the horizontal and vertical extent of soil contamination shall consist of an appropriate number of data points at sufficient locations with concentrations at or below background concentrations for all solid wastes, hazardous wastes, hazardous constituents, petroleum products and hazardous substances which have been or are likely to have been released at these areas. An acceptable determination of background concentrations shall be made from data points located in such a manner so to yield samples that are representative of soil conditions not affected by releases from the Facility. At a minimum, said report shall describe the following:

a. General approach used to define the horizontal and vertical extent of soil contamination for all releases of solid wastes, hazardous wastes, hazardous constituents, petroleum products and hazardous substances;

b. Parameters to be analyzed for and rationale for selection;

c. Location of all sampling points by sample identification number on a topographic map(s) of minimum scale 1" = 200' and on vertical cross-sections of appropriate number and scale;

d. A topographic map(s) of minimum scale 1" = 200' depicting the horizontal extent of soil contamination for each solid waste, hazardous waste, hazardous constituent, petroleum product and hazardous substance;

e. Vertical cross-sections of sufficient number and appropriate scale depicting the vertical extent of soil contamination for each solid waste, hazardous waste, hazardous constituent, petroleum product and hazardous substance;

f. Sampling and analysis procedures including but not limited to:

1) Sampling equipment and collection techniques;

2) Sample handling and preservation techniques;

3) Equipment decontamination procedures;

4) Chain-of-custody procedures;

5) Laboratory analytical techniques including a description of approved analytical methods, quality assurance and quality control and applicable method detection limits;

6) Field analytical or measurement techniques including make and model of equipment and calibration frequency and type;

g. Procedures used to determine background soil concentrations;

h. Narrative and tabular summary of all data and the results of all laboratory analyses.

5. Within ninety (90) days of the date of execution of this Order, the Respondent shall notify the Director in writing whether or not there is evidence of groundwater contamination when compared to background groundwater quality for any hazardous waste, hazardous constituents, hazardous substances or petroleum products which have been managed or released at the Property Disposal Office Yard. An acceptable determination of background groundwater quality shall be made from groundwater monitoring data points which are located in such a manner so as to yield samples that are representative of groundwater beneath the Property Disposal Office Yard which has not been affected by releases from the Facility.

6. Within one hundred twenty (120) days of the date of notifying the Director pursuant to Condition 5 that there is evidence of groundwater contamination, the Respondent shall submit to the EPD a report that provides a complete definition

of the horizontal and vertical rate and extent of migration of groundwater contamination which may have resulted from releases of solid wastes, hazardous wastes, hazardous constituents, petroleum products and hazardous substances at the Facility. Satisfactory evidence of such shall consist of an appropriate number and location of groundwater monitoring data points with concentrations at or below background concentrations for all solid wastes, hazardous wastes, hazardous constituents, petroleum products and hazardous substances. The report shall provide the following in support of the definition of the horizontal and vertical rate and extent of migration of contamination:

a. A description of the methods used to characterize subsurface geology;

b. A description of the methods used to characterize horizontal and vertical groundwater gradient, flow rate and direction;

c. A description of the methods used to determine hydraulic conductivities and other pertinent hydrogeological characteristics, including a description of any slug and/or pump tests;

d. A description of groundwater monitoring well locations and installation and construction methods including:

1) A topographic map of a minimum of 1" = 200' depicting all existing well locations including a survey of each well's surface reference point and the elevation of its top-of-casing;

2) Type of well casing material;

3) Description of well-intake design including screen slot size and length, filter pack materials and method of filter pack emplacement;

4) Method used to seal the well from the surface and prevent downward migration of contaminants through the well annulus;

5) Description of the methods and procedures used to develop the wells;

e. Description of all sampling and analysis procedures used, including but not necessarily limited to:

1) Well evacuation procedures including volume evacuated prior to sampling;

2) Sample withdrawal techniques, sampling equipment and materials

(tubing, rope, pump, etc.,) used to yield representative samples with respect to all parameters monitored for;

3) Sample handling and preservation techniques;

4) Procedures for decontaminating sampling equipment between sampling events;

5) Procedures for measuring groundwater elevations at each sampling event;

6) Chain-of-custody procedures for all phases of sample management;

7) Laboratory analytical techniques, including a description of approved analytical methods used, quality assurance and quality control procedures and applicable method detection limits;

f. A description of procedures used to determine background groundwater quality which is representative of groundwater not affected by the facility;

g. A topographic map or maps of minimum scale of 1" = 200' depicting the horizontal extent of migration of contamination;

h. A topographic map or maps of minimum scale of 1" = 200' depicting the potentiometric surface of groundwater;

i. Maps and vertical cross-sections of appropriate scale depicting concentrations and isopleths for all contaminants.

7. Within one hundred eighty (180) days of the date of execution of this Order the Respondent shall submit to the Director a corrective action plan which describes a corrective action program sufficient to remediate all groundwater contaminated as a result of releases of solid wastes, hazardous wastes, hazardous constituents, petroleum products and hazardous substances pursuant to Condition 5 and 6 from the Property Disposal Office Yard. The corrective action plan shall, at a minimum, provide the following:

a. Proposed clean-up concentrations for all groundwater contaminated as a result of releases of solid wastes, hazardous waste, hazardous constituents, petroleum products and hazardous substances;

b. A description of procedures to be used for the remediation of contaminated soil and groundwater to concentrations at or below the proposed clean-up concentrations referenced in Condition 7.a;

c. A description of a groundwater monitoring program capable of demonstrating the effectiveness of the corrective action program in remediating contaminated groundwater;

d. A description of procedures to be used to monitor background groundwater quality;

e. A description of proposed groundwater monitoring and recovery well locations and installation and construction methods including:

1) A topographic map of minimum scale of 1" = 200' depicting all proposed and existing well locations including a survey of each well's surface reference point and the elevation of its top-of-casing;

2) Type of well casing material;

3) Description of well-intake design including screen slot size and length, filter pack materials and method of filter pack emplacement;

4) Method to be used to seal the well from the surface and prevent downward migration of contaminants through the well annulus;

5) Description of methods and procedures to be used to develop the wells;

6) Size and depth of wells;

f. A description of proposed sampling and analysis procedures to be used for groundwater including:

1) Well evacuation procedures including volume to be evacuated prior to sampling;

2) Sample collection techniques, sampling equipment and materials to be used to yield representative samples with respect to all parameters to be monitored for;

3) Sample handling and preservation techniques to be used;

4) Procedures to be used for decontaminating sampling equipment between sampling events;

5) Procedures to be used for measuring groundwater elevations at each sampling event;

6) Chain-of-custody procedures to be used for all phases of sample management;

7) Laboratory analytical techniques, including a description of approved analytical methods to be used, quality assurance and quality control procedures and applicable method detection limits;

8) Sampling frequency;

g. Provisions for the submittal of reports evaluating the effectiveness of the groundwater recovery system to be submitted beginning no later than one hundred and eighty (180) days from the date of the Respondent's receipt of the Director's written approval of the corrective action plan and continuing semi-annually thereafter throughout implementation of the corrective action program. The corrective action plan should state that these reports will include the following:

1) A narrative summary of work performed or problems encountered with both the groundwater monitoring and recovery system;

2) Groundwater monitoring analytical results and groundwater surface elevations obtained;

3) Determination of horizontal and vertical groundwater flow rate and direction;

4) Construction of a map of minimum scale 1" = 200" depicting the potentiometric surface;

5) Construction of maps and vertical cross-sections depicting concentrations and isopleths for each contaminant;

6) Construction of constituent-time trend graphs;

7) Construction of maps and cross-sections identifying pumping rates, volume, frequency and duration;

h. A schedule of implementation which includes intermediate milestones beginning with the Respondent's receipt of the Director's written approval of the corrective action plan and continuing through complete remediation of all contaminated soil and groundwater to concentrations at or below the proposed clean-up concentrations referenced in Condition 7.a. above.

8. Upon receipt of this Director's written approval of the corrective action plan referenced in Condition 7, the Respondent shall proceed with implementation of

said plan in accordance with the schedule of implementation contained therein.

9. Upon receipt of any plan(s) or report(s) or any modified plan(s) or report(s) required by this Order, the Director shall review said plan(s) or report(s) to determine their completeness with regard to this Order. Upon receipt of said plan(s) or report(s), the Director may confer with the Respondent in person, by telephone or in writing. If the Director determines that said plan(s) or report(s) are complete, he shall so notify the Respondent in writing that said plan(s) or report(s) are approved. If the Director determines that said plan(s) or report(s) are incomplete he shall provide the Respondent with written notice of any deficiencies and shall specify a timeframe for modification and resubmittal of said plan(s) or report(s). Upon the Respondent's receipt of said notice of deficiency, the Respondent shall modify and resubmit said plan(s) or report(s) in accordance with the timeframe specified in said notice of deficiency. Upon the Respondent's receipt of the Director's written notice of deficiency, the Respondent may confer with the Director in person, by telephone or in writing. If upon receipt of the Director's written notice of deficiency, the Respondent determines that modification and resubmittal of the plan(s) or report(s) will take longer than the timeframe specified in said notice of deficiency, the Respondent shall, within five (5) days of receipt of said notice of deficiency, submit in writing to the Director a request for extension of the date established therein for modification and resubmittal of said plan(s) and report(s). The Director shall review the request for

extension and notify the Respondent in writing that the proposed request is approved, denied or that some other schedule for modification and resubmittal of said plan(s) or report(s) is appropriate, whereupon the Respondent shall modify and resubmit said plan(s) and report(s) in accordance with a schedule as then specified by the Director.

10. If at any time the Director determines that any element of any approved plan(s) or report(s) required by this Order should be modified in order to meet the requirements established by this Order, the Act or Rules, the Director shall provide the Respondent with written notification of such determination, specify the basis for making such determination and request modification and resubmittal of a modified plan(s) or report(s) in accordance with a specified schedule. If at any time the Respondent determines that any element of any approved plan(s) or report(s) required by this Order should be modified in order to meet the requirements established by this Order, the Act or Rules, the Respondent shall, within fifteen (15) days of making such determination, modify and submit said plan(s) or report(s) to the Director. Further review, modification and resubmittal of said plan(s) or report(s) shall be conducted in accordance with Condition 11.

11. All plans, reports and schedules required by the terms of this Order are, upon approval by the Director, incorporated into this Order. Any noncompliance with such approved plans, reports or schedules shall be termed noncompliance with this

Order.

12. Prior to approval of the corrective action plan pursuant to Condition 8, nothing in this Order shall preclude the Respondent from undertaking whatever interim measures may be deemed necessary to protect human health and the environment. The Respondent shall provide the Director with written notice of such measures as soon as practicable before their implementation.

For the purpose of the enforcement under applicable state law, this Order shall be construed as, and have the same force as, a final order of the Director, pursuant to the Act. By agreement of the parties, this order shall be considered final and effective immediately and shall not be appealable and the Respondent does hereby waive any hearing on the terms and conditions of same. This agreement shall not constitute any finding, determination, or adjudication of liability nor any finding, determination or adjudication of a violation of any state or federal laws, rules, standards or requirements; nor does the Respondent, through his signing of this agreement, make any admission with respect thereto.

It is so **ORDERED, CONSENTED,**and **AGREED** to this _____ day of _____, 1993.

_____
Harold F. Reheis
Director

Hunter Army Airfield

BY: _____

TITLE:_____

DATE:_____