



LAW

ENGINEERING AND ENVIRONMENTAL SERVICES

PROPOSAL FOR ALTERNATIVE PROCEDURE REMEDIAL ACTION PLAN

**HILLIARD MAINTENANCE CAMP
708 EASTWOOD ROAD
HILLIARD, FLORIDA**

LAW ENGINEERING PROPOSAL NO. 94-4118E



LAW

ENGINEERING AND ENVIRONMENTAL SERVICES

August 3, 1994

Board of County Commissioners
c/o T. J. Greeson
Ex-Officio Clerk
Nassau County Courthouse
416 Centre Street, Room 9
Fernandina Beach, Florida 32034

Subject: **Proposal for Alternative Procedure Remedial
Action Plan**
Hilliard Maintenance Camp
708 Eastwood Road
Hilliard, Florida
Law Engineering Proposal No. 94-4118E
FDEP Facility ID # 458521128

Dear Gentlemen/Madame:

Law Engineering, Inc. (LAW) is pleased to submit this proposal to conduct an Alternative Procedure Remedial Action Plan (APRAP) for the subject property located at 708 Eastwood Road in Hilliard, Florida. This proposal was requested by Mr. William P. Lecher, P.E., Nassau County Engineer in July 1994 and includes our understanding of the project information and requirements as well as our proposed scope and schedule of activities, our estimated fee for performing these services and our Fee Schedule.

BACKGROUND INFORMATION

LAW previously conducted a Contamination Assessment (CA) at the Hilliard Maintenance Camp and prepared the Contamination Assessment Report (CAR) for the Camp in September 1992 under LAW Project No. 444-06710.01. The CAR was reviewed by the Florida Department of Environmental Protection (FDEP) and additional information was requested in their letter dated November 17, 1992. The additional information was provided in the CAR Addendum under LAW Project No. 444-06710.03 in August 1993. An Initial Remedial Action (IRA) to remove excessively contaminated soils was conducted as part of the CAR Addendum and the IRA Report (LAW Project No. 444-06710.05) was included in the CAR Addendum. Two previously unknown USTs were discovered during the IRA activities and these were removed and disposed in general accordance with the American Petroleum Institute (API), Recommended Practice 1604 and Florida Administrative Code (F.A.C.), Chapter 17-761. The tank closure report (LAW Project No. 444-06710.07) was included in the IRA Report. Excessively contaminated soils around these previously unknown USTs were excavated, transported and disposed along with the other soils excavated for the IRA. The CAR Addendum was reviewed by the FDEP and additional services were requested in their letter dated September 24, 1993. These comments were addressed in our Report of Supplemental Environmental Services dated March 21, 1994. LAW had requested in the Supplemental Environmental Services report that a Monitoring Only Plan (MOP)

LAW COMPANIES GROUP, INC.

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disposition be considered for the subject property in general accordance with the No Further Action and Monitoring Only Guidelines for Petroleum Contaminated sites as established by the FDEP Bureau of Waste Cleanup, Technical Review Section (October 1990).

A letter approving the Contamination Assessment (CA) conducted at the subject property was received on June 1, 1994. FDEP had stated in the letter that the MOP could not be approved because the BTEX concentrations detected at this site exceed the Department's MOP guideline concentrations. A note indicated that "the proposed MOP can be evaluated as a remediation option in the limited scope RAP that should be submitted for this site". Therefore, based on the note in the FDEP CA approval letter dated June 1, 1994 and Mr. Lecher's request, LAW proposes the preparation of an alternative procedure remedial action plan (APRAP) in general accordance with the procedures listed in the Engineering Support Section Document Identification Number ESS-9 and FDEP Bureau of Waste Cleanup Memorandum dated June 24, 1992.

SCOPE OF SERVICES

An Alternate Procedure Remedial Action Plan (APRAP) will be prepared and submitted to the FDEP for review. The anticipated strategy for the remediation system, based upon the CAR data, is short term pumping to decrease the contamination levels at the subject property to MOP levels. During the preparation of the ARAP, the following items shall be addressed:

- A. Rationale for the remedial action selected which shall include:
 - 1. Results of hydraulic conductivity testing
 - 2. Results of remedial alternative evaluation, based on:
 - a. Long- and short- term environmental impact;
 - b. Implementability, reliability and feasibility of the proposed remedial system;
- B. Preliminary design and construction details for the remedial system;
- C. Dissolved constituents to be monitored in the site's wells;
- D. Designation of monitoring wells and proposed methodology to verify accomplishment of ARAP goal.

LAW will prepare this report consistent with commonly accepted standard of care. If additional design of the remedial system is required to satisfy the FDEP, these services will be performed under a separate scope of services. As requested by Mr. Lecher, LAW will verify and work with Envirotest, Inc. on disposal of water to be pumped from the subject property. Project management time for the above services are included in this proposal. If the water cannot be accepted by Envirotest, Inc., LAW will design another treatment method for disposal of the water.

ESTIMATED FEES

Based on the scope of services outlined above and our experience with similar projects, the estimated fee for our services is \$6000.00. As with previous studies, we will monitor the study so as to reduce the scope from that noted above where warranted. To keep you informed of the services performed, an invoice for the completed services will be issued every four weeks. Invoices will be due upon receipt. We will not exceed a fee of \$6000.00 without an extension of the scope of services by your office.

SCHEDULE

Based on our present schedule the APRAP report should be available within five to six weeks of your authorization to proceed. If this schedule is not acceptable, please notify our office so that a mutually agreeable schedule can be arranged.

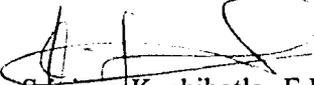
AUTHORIZATION

We assume these additional environmental services will be authorized by an extension of our existing contract with the Nassau County Board of Commissioners. Therefore, we have included below notation similar to that used in the past.

If you have any questions, please contact us.

Sincerely,

LAW ENGINEERING, INC.


Srinivas Kuchibotla, E.I.
Project Environmental Engineer


Richard E. Mayer, P.E.
Principal Engineer

SK/REM:ph

BY RE WITH PERMISSION.

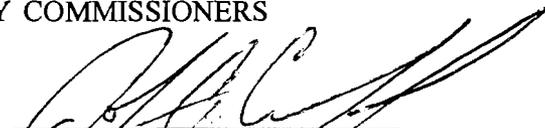
Distribution: Nassau County Engineer (2)

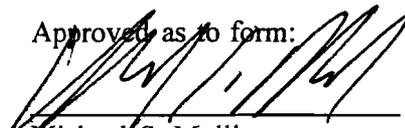
FOR NASSAU COUNTY USE ONLY:

Approved this 8th day of August, 1994 by the Board of County Commissioners, Nassau County, Florida.

ATTEST: BOARD OF COUNTY COMMISSIONERS


T. J. Gresson, Ex-Officio Clerk


John A. Crawford, Chairman

Approved as to form:

Michael S. Mullin
County Attorney

