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MEMORANDUM REGARDING FLORIDA DEPARTMENT OF ENVIRONMENTAL
PROTECTION COMMENTS ON AIR SPARGING/SOIL VAPOR EXTRACTION TREATABILITY
STUDY WORK PLAN FOR FLYING CLUB SITE BUILDING A-127 NAS KEY WEST FL
2/19/2002
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Memorandum

Florida Department of
Environmental Protection

TO: Tracie Vaught, Remedial Project Manager,
Technical Review Section

THROUGH: Tim Bahr, P.G., Supervisor, Technical Review Section **B**

FROM: Greg Brown, P.E., Professional Engineer II, Technical
Review Section **AB**

DATE: February 19, 2002

SUBJECT: Air Sparging/Soil Vapor Extraction Treatability Study
Work Plan for Flying Club Site, Building A-127, Naval
Air Station Key West, Boca Chic Field, Florida.

I reviewed the subject document dated January 2002 (received February 11, 2002). I reviewed the Remedial Action Work Plan for the Flying Club Site, Building A-127 dated August 1997 (received August 28, 1997), and the Department approved the RAP. The Department approved the CAR for the Flying Club Site on May 10, 1994. I have the following comments.

1. Chemicals of concern in groundwater include naphthalene and TRPH. Depth to groundwater is between 2.5 to 4.0 feet bls. Tidal influence affects groundwater elevations up to 0.2 feet. Air Sparging/Soil Vapor Extraction do not appear to be feasible technologies for this site since the chemicals of concern are not readily volatile or easily biodegradable, and the shallow, fluctuating vadose zone will likely limit the effective operations of SVE due to high moisture content in the soil vapor. The underlying limestone bedrock may also limit effectiveness.
2. Since this is a pilot test, feasibility will become apparent. The subject document is adequate for its intent. I can approve it as a modification to the original RAP upon receipt of an engineer's certification.
3. Migration of flammable or explosive gases should be monitored if habitable structures and subsurface utility appurtenances are located near the site, particularly if SVE is not effective with AS.

QA Record

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