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Code 184DL/15-4.11

September 2, 1997



DEPARTMENT OF THE NAVY

NAVAL AIR STATION
JACKSONVILLE, FLORIDA 32212-5000

Mr. Jorge Caspary
Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Mr. Caspary:

As discussed in recent Partnering meetings, high levels of pesticide contaminated soil were discovered at Potential Source of Contamination (PSC) 47, the Pesticide Shop. Personnel using the building were notified of the levels. The assessment for breathing space samples taken by the Navy Industrial Hygienist is enclosed. Fencing is being constructed to prevent personnel contact with the soil and grass portion of the compound, and signs will be installed as required by Florida Administrative Code 62-730.181(3).

Our point of contact is Ms. Diane Lancaster, Facilities Department, at (904) 542-2717 extension 119.

Sincerely,

A handwritten signature in cursive script that reads "James A. Morgan".

JAMES A. MORGAN
Deputy Facilities Officer
By direction of the Commanding Officer

Enclosure (1)

Copy to:

US Environmental Protection Agency, Region IV (M. Berry)

Southern Division, Naval Facilities Engineering Command (Codes 1957, 18511)

→ ABB-Environmental Service (P. Miller)

Bechtel (H. Bauer)

Navy Public Works Center Jacksonville (Codes 300, 520)

071-08555

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12 Aug 97

MEMORANDUM

From: Head, Industrial Hygiene Department, Naval Hospital Jacksonville
To: Facilities Officer, Naval Air Station Jacksonville

Subj: ASSESSMENT OF CURRENT EXPOSURE TO DDT RESIDUES OUTSIDE BLDG.
536

Ref: (a) My mtg w/ your department Ms. D. Lancaster of 17 Jun 97
(b) American Conference of Governmental Industrial Hygienists, 1996-1997 Threshold
Limit Values

Encl: (1) Industrial Hygiene Single Stressor Air Sample Survey Form

1. Reference (a) requested area air sampling on the north side of Bldg. 536 where soil testing had revealed high levels of DDT to assess current health risk to personnel who work near the area in question. The requested sampling was performed on 19 June 1997 by LT Sherald A. Jordan, MSC, USNR of the Industrial Hygiene Department.
2. Air sampling results (provided as Enclosure (1)) indicate no detectable exposure to DDT in area samples (the limit of detection was less than 0.1% of the reference (b) Threshold Limit Value (TLV) of 1 milligram per cubic meter [mg/m^3]). Given this, my professional opinion is that there is no significant health risk associated with proximity to the undisturbed area in question.
3. An assessment of exposure during activity (such as mowing, which would probably be the worst case in terms of soil liberation) in the area is conjectural by necessity, as sampling would require exposure circumstances to be recreated. However, assuming $20 \text{ mg}/\text{m}^3$ of soil had been liberated during mowing operations (a significant amount, given that the reference (b) TLV for Particulates Not Otherwise Classified is $10 \text{ mg}/\text{m}^3$) and the soil liberated contains 12,000,000 micrograms per kilogram (the highest value in the sample set provided to me at the reference (a) meeting), the soil still contains only 1.2% DDT by weight; so the exposure to the employee of the DDT fraction of the soil would be $0.24 \text{ mg}/\text{m}^3$, less than 1/4 the reference (b) TLV. This is a worst case scenario, assuming constant unprotected exposure over an eight-hour workshift to this level of dust, and also assuming that all dust liberated will contain the highest level of DDT found by the laboratory. The conclusion drawn from this is that previous mowing in the area of high soil DDT, in my professional judgment, was also unlikely to pose a significant health risk.
4. It is my understanding that this area has been secured, and plans are to remove the contaminated soil. Although conservative from an industrial hygiene standpoint, these actions are certainly prudent in terms of environmental protection.

5. Please contact me if you have any additional questions regarding this matter. I can be reached at 542-3500 ext. 8864.



KENNETH R. SMITH, CIH

Copy to:
NASJAX IH (Attn: LT Jordan)