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NAS WHITING FIELD  
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LETTER REGARDING EVALUATION OF SUBSURFACE SOILS AT SITE 1 NAS WHITING  
FIELD FL  
6/29/1999  
HARDING LAWSON ASSOCIATES

**Harding Lawson Associates**

09.01.01.0007

00404

June 29, 1999

2534-2020

Florida Department of Environmental Protection Agency  
Attention: Mr. Jim Cason  
2600 Blairstone Road  
Tallahassee, Florida 32301

**SUBJECT: Evaluation of Subsurface Soils  
Site 1, Northwest Disposal Area  
NAS Whiting Field, Milton, Florida  
Contract No. N62467-89D-0317/116**

Dear Mr. Cason:

Based on your review comments for the Site 1, Northwest Disposal Area, Record of Decision (ROD), Harding Lawson Associates (HLA) conducted an evaluation of the effects of residential exposure to the subsurface soils at Site 1, NAS Whiting Field, Milton, Florida.

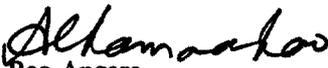
Table 1 presents the subsurface soil analytical results and compares contaminant concentrations to the Florida Soil Cleanup Target Levels (SCTLs). The data indicates Arsenic is the only contaminant exceeding the Florida SCTL for residential exposure. The Site 1 ROD, addresses exceedance of arsenic concentrations by recommending Land Use Controls for Site 1.

Based on the data presented in Table 1 and a comparison of contaminant concentrations to the Soil Cleanup Target Levels (Direct Exposure [Residential, Industrial] and Leachability) presented in Table 2 of Chapter 62-777 FAC, the conclusions and recommendations presented in the Site 1 RI report are still valid and subsurface soils do not pose a human health risk. The chosen remedy, Land Use Controls, will ensure residential risk will not occur at this site. We recommend the wording in Chapter 62-785.680(2)(6) 1 and 2 be incorporated into the Land Use Controls.

If you have any questions or concerns about this report, please call us at (850) 656-1293.

Sincerely,

**Harding Lawson Associates**

  
Rao Angara

Task Order Manager



Eric Blomberg, P.G.

Senior Scientist

cc: C. Benedikt, USEPA  
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File



**Table 1**  
**Summary of Analytical Results for Subsurface Soils**

Site 1, Northwest Disposal Area  
NAS Whiting Field  
Milton, Florida

Locator	01SS0101	Background (2 x Mean of Facilitywide Subsurface Soil)	USEPA Region III RBCs (Industrial)	Florida Soil Cleanup Target Levels <sup>1</sup> (Residential/Industrial/ Leaching)
<b><u>VOCs (ug/kg) -</u></b>				
Acetone	51 J	NA	—	780,000/5,500,000/2800
<b><u>SVOCs (ug/kg)</u></b>				
None detected				
<b><u>Pesticides &amp; PCBs (ug/kg)</u></b>				
None detected				
<b><u>Inorganic Analytes (mg/kg)</u></b>				
Aluminum	4,780	27,834	2,000,000	72,000/**/SPLP
Arsenic	1.1 J	5.8	3.8	0.8/4.62 <sup>2</sup> /29
Barium	6.3 J	15.8	140,000	115/87,000/1,600
Beryllium	0.08 J	0.26	4,100	120/800/63
Calcium	56.7 J	444	—	—/—/—
Chromium	6	22.8	6,100	210/420/38
Copper	2.5 J	8.8	82,000	110/76,000/SPLP
Iron	5,100	18,110	610,000	23,000/480,000/SPLP
Lead	2.6	8.4	400	400/920/SPLP
Magnesium	76 J	272	—	—/—/—
Manganese	8.4	42.6	41,000	1,600/22,000/SPLP
Mercury	0.17 J	—	—	3.4/26/2.1
Nickel	1.7 J	5.0	41,000	110/8,000/130
Sodium	167 J	—	—	—/—/—
Vanadium	13	45	14,000	15/7,400/980
Zinc	6.1 J	15.6	610,000	23,000/560,000/6,000

Notes: ug/kg – micrograms per kilogram.  
mg/kg = milligram per kilogram.  
NA = Not Applicable.  
\*\* = Contaminant not a health concern for this exposure scenario  
<sup>1</sup> = Soil Cleanup Target Levels for Chapter 62-777, F.A.C (May 1999)  
<sup>2</sup> = FDEP approved site-specific cleanup goal