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NSB KINGS BAY
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LETTER FROM NAVY REQUESTING APPROVAL TO DISPOSE OF INVESTIGATIVE DERIVED WASTE AT SITE 11 LANDFILL NSB KINGS BAY GA
4/17/1997
NSB KINGS BAY

NSB Kings Bay Administrative Record
Document Index Number

31547-000
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Ser FE4/1094
APR 17 1995

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Georgia Department of Natural Resources
Attn: Mr. Bruce Khaleghi, Unit Coordinator
Environmental Protection Division
205 Butler Street, SE, Suite 1252
Atlanta, GA 30334

DISPOSAL OF SOLID INVESTIGATION-DERIVED WASTE (IDW) GENERATED DURING FIELD ACTIVITIES AT SITE 11, OLD CAMDEN COUNTY LANDFILL, NAVAL SUBMARINE BASE, KINGS BAY, GA

This letter is being submitted to formally request permission to dispose of solid investigation-derived waste (IDW) generated during field activities at Site 11, Old Camden County Landfill, Naval Submarine Base, Kings Bay, GA.

As a result of the recent redevelopment of recovery wells 1 - 4 and the installation of recovery well 6 at site 11, approximately 10 cubic yards of sand, soil, drilling mud, and grout was produced. A sample from the dumpster has been analyzed for all Toxicity Characteristic Leaching Procedure (TCLP) constituents. Only one TCLP constituent, barium, was detected in the sample. The concentration of barium was 580μg/l, which is well below the TCLP regulatory level for barium, 100,000 μg/l. Enclosure (1) is the results from the TCLP analysis and enclosure (2) provides the raw laboratory data for the sample.

Naval Submarine Base, Kings Bay would like to dispose of the soil within the boundary of Site 11 based on the following: 1) TCLP results do not indicate that the IDW would become a source of contamination if disposed on site; 2) the concentration of barium in the TCLP extract does not indicate the IDW would adversely affect groundwater or soil if disposed on site; and 3) the concentration in the TCLP extract is below the Federal and State maximum contaminant level of 2,000 μg/l, for drinking water.

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The SUBASE Kings Bay point of contact on this matter is Ms. Rhonda L. Bath, (912) 673-2001, extension 1217. Please address all correspondence to "Commanding Officer, 1063 USS Tennessee Avenue, Naval Submarine Base, Kings Bay, GA 31547-2606."

Sincerely,

JOHN R. GARNER
Leader, Environmental Division
Facilities & Environmental
By direction of the
Commanding Officer

Encls:
(1) TCLP Analytical Results
(2) Laboratory Data

Table 1 Summary of Analytical Data for the Composite Soil Sample Collected from the IDW Storage Container at Site 11 (μg/l)

Contaminant	TCLP Regulatory Level (μg/l)	Sample ID 11DC9601
Arsenic	5,000	< 500
Barium[1]	100,000	580
Benzene	500	< 25
Cadmium	1,000	< 50
Carbon tetrachloride	500	< 25
Chlordane	30	< 20
Chlorobenzene	100,000	< 25
Chloroform	6,000	< 25
Chromium	5,000	< 25
2-Methylphenol (o-Cresol)	200,000	< 20
3-Methylphenol (m-Cresol)	200,000	< 20
4-Methylphenol (p-Cresol)	200,000	< 20
Cresol (total)	200,000	< 20
2,4-D	10,000	< 20
1,4-Dichlorobenzene	7,500	< 20
1,2-Dichloroethane	500	< 25
1,1-Dichloroethene	700	< 25
2,4-Dinitrotoluene	130	< 20
Endrin	20	< 2
Heptachlor	8	< 4
Hexachlorobenzene	130	< 20
Hexachlorobutadiene	500	< 20
Hexachloroethane	3,000	< 20
Lead	5,000	< 30
Lindane	400	< 2
Mercury	200	< 10
Methoxychlor	10,000	< 20
Methyl ethyl ketone	200,000	< 100
Nitrobenzene	2,000	< 20
Pentachlorophenol	100,000	< 20
Pyridine	5,000	< 20
Selenium	1,000	< 200
Silver	5,000	< 50
Tetrachloroethene	700	< 25
Toxaphene	500	< 20
Trichloroethene	500	< 25
2,4,5-Trichlorophenol	400,000	< 20

See notes at end of table.

ENCLOSURE (1)

Table 1 (Continued) Summary of Analytical Data for Composite Soil Sample Collected from IDW Storage Bin at Site 11 (μg/l)

Contaminant	TCLP Regulatory Level (μg/l)	Sample ID 11DC9601
2,4,6-Trichlorophenol	2,000	< 20
2,4,5-TP (Silvex)	1,000	< 2.0
Vinyl chloride	200	< 100

Notes:

< = analyte was not detected at the reported concentration
μg/l = micrograms per liter
MCL = Maximum Contaminant Level
mg/kg = milligrams per kilogram
ND = not detected
TCLP = Toxicity Characteristic Leaching Procedure

[1] According to 40 CFR Part 261, Appendix II, Section 8.2, the measured value for barium, 480 ug/l, must be corrected for matrix bias using the following equation $X_c = 100\ (X_u\ /\ \%R)$, where: X_c is the corrected sample concentration, X_u is the measured value, and %R is the percent recovery of barium in the matrix spike sample. Given the percent recovery of the laboratory control sample, 90 %, the corrected sample concentrations is 640 ug/l.

DEFINITION OF DATA QUALIFIERS

Organic Data Qualifiers

< - Indicates that compound was analyzed but not detected at the stated quantitation level.

Inorganic Data Qualifiers

< - Indicates that compound was analyzed but not detected at the stated quantitation level.

ENCLOSURE (2)

NET Cambridge Division
ANALYTICAL REPORT

Report Date: 01/07/1997

Report To: ABB Environmental, Inc.

NET Job No: 96.04164

Project: TCLP Characteristics

Date Rec'd: 12/16/1996

Sample ID: 11DC9601

NET Sample No: 158986

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Pesticides TCLP						
Chlordane	<20	ug/L	12/31/1996	420	355	ner
Endrin	<2	ug/L				
Heptachlor and its epoxide	<4	ug/L				
gamma-BHC (Lindane)	<2	ug/L				
Methoxychlor	<20	ug/L				
Toxaphene	<20	ug/L				

NET Cambridge Division
ANALYTICAL REPORT

Report Date: 01/07/1997

Report To: ABB Environmental, Inc.

NET Job No: 96.04164

Project: TCLP Characteristics

Date Rec'd: 12/16/1996

Sample ID: 11DC9601

NET Sample No: 158986

Parameter		Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Herbicides	TCLP						
2,4-D		<20	ug/L	01/03/1997	161	117	ner
2,4,5-TP		<2.0	ug/L				

NET Cambridge Division
ANALYTICAL REPORT

Report Date: 01/07/1997

Report To: ABB Environmental, Inc.

NET Job No: 96.04164

Project: TCLP Characteristics

Date Rec'd: 12/16/1996

Sample ID: 11DC9601

NET Sample No: 158986

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles by GC/MS-TCLP S						
Benzene	<25	ug/L	12/19/1996	170	325	dry
Carbon Tetrachloride	<25	ug/L				
Chlorobenzene	<25	ug/L				
Chloroform	<25	ug/L				
1,2-Dichloroethane	<25	ug/L				
Methyl Ethyl Ketone	<100	ug/L				
1,1-Dichloroethene	<25	ug/L				
Tetrachloroethene	<25	ug/L				
Trichloroethene	<25	ug/L				
Vinyl Chloride	<100	ug/L				

NET Cambridge Division
ANALYTICAL REPORT

Report Date: 01/07/1997

Report To: ABB Environmental, Inc.

NET Job No: 96.04164

Project: TCLP Characteristics

Date Rec'd: 12/16/1996

Sample ID: 11DC9601

NET Sample No: 158986

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Semivolatiles TCLP						
1,4-Dichlorobenzene	<20	ug/L	12/23/1996	124	190	jcg
2,4-Dinitrotoluene	<20	ug/L				
Hexachlorobenzene	<20	ug/L				
Hexachlorobutadiene	<20	ug/L				
Hexachloroethane	<20	ug/L				
m-Cresol	<20	ug/L				
o-Cresol	<20	ug/L				
p-Cresol	<20	ug/L				
Total Cresol	<20	ug/L				
Nitrobenzene	<20	ug/L				
Pentachlorophenol	<20	ug/L				
Pyridine	<20	ug/L				
2,4,5-Trichlorophenol	<20	ug/L				
2,4,6-Trichlorophenol	<20	ug/L				

QC SUMMARY INORGANICS REPORT : DUPLICATES

NET - CAMBRIDGE DIVISION
Date of Report : 01/13/1997

Work ID : 96.04164
Batch : 6826CW
Page : 1

Duplicate : 96.04164 - 158986

Element	Sample	Duplicate	Units	%RPD
Ag	<0.050	<0.050	mg/L	----
As	<0.50	<0.50	mg/L	----
Ba	0.58	0.58	mg/L	0
Cd	<0.050	<0.050	mg/L	----
Cr	<0.025	<0.025	mg/L	----
Pb	<0.030	<0.030	mg/L	----
Hg	<0.010	<0.010	mg/L	----
Se	<0.20	<0.20	mg/L	----

QC SUMMARY FOR INORGANICS REPORT : PREDIGESTION SPIKE

NET - CAMBRIDGE DIVISION
Date of Report : 01/13/1997

Work ID : 96.04164
Batch : 6826CW
Page : 1

Spike : 95.04164 - 158986

Element	Sample+	Units	Spike	Added	%Rec
Ag	<0.050	mg/L	4.3	5.0	86
As	<0.50	mg/L	4.4	5.0	88
Ba	0.58	mg/L	100	92	91
Cd	<0.050	mg/L	0.88	1.0	88
Cr	<0.025	mg/L	4.4	5.0	88
Pb	<0.030	mg/L	4.2	5.0	84
Hg	<0.010	mg/L	0.0470	0.050	94
Se	<0.20	mg/L	0.97	1.0	97

\+ Sample values reported here not calculated for dilutions, if any.
* Possible matrix interference indicated.