



DEPARTMENT OF THE NAVY
BASE REALIGNMENT AND CLOSURE
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U. S. Environmental Protection Agency
Region 2
Mr. Timothy Gordon
290 Broadway - 22nd Floor
New York, NY 10007- 1866

Subj: ADDITIONAL SAMPLING REQUEST FOR SWMU 73 CORRECTIVE
MEASURES STUDY WORK PLAN, NAVAL ACTIVITY PUERTO RICO, EPA I.D.
NUMBER PR2170027203, CEIBA, PUERTO RICO

Dear Mr. Gordon:

Please find attached a technical memo from the US Army Center for Health Promotion and Preventative Medicine (CHPPM) which outlines the justification for additional samples that the Army needs obtain in order to complete the field work requirements for the Corrective Measures Study work Plan at Solid Waste Management Unit 73. This proposal is being submitted as an official addendum to the approved CMS Work Plan and will follow the approved sampling and analysis procedures outlined in that work plan. The field work is planned for the week of 12-16 January 2009. A revised schedule for the CMS is attached.

If you should have any questions, please feel free to contact me at (843) 743-2130 or by email at david.criswell@ navy.mil.

Sincerely,

DAVID CRISWELL, P. E.
Deputy Base Closure Manager
Navy BRAC PMO SE

Copy to:
EPA Region 2 (Dale Carpenter)
EPA Caribbean Office, San Juan (Carl Soderberg)
PREQB (Julio I. Rodriguez Colon, Wilmarie Rivera, Gloria M. Toro-Agrait)
NAPR (Pedro Ruiz)
Baker Environmental (Mark Kimes)
David Borchardt (Army IMA-ARO)



DEPARTMENT OF THE ARMY
US ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND MD 21010-5403

November 26, 2008

Ground Water and Solid Waste Program

Subject: Additional Characterization at Solid Waste Management Unit (SWMU) 73, Camp Moscrip, Naval Activity Puerto Rico, Ceiba, Puerto Rico.

Mr. David Criswell, P.E.
Deputy Base Closure Manager
BRAC Program Management Office SE
4130 Faber Place Drive
Suite 202
North Charleston, SC 29405

Dear Mr. Criswell:

The US Army Center for Health Promotion and Preventive Medicine (USACHPPM) implemented the site delineation phase of the Corrective Measures Study (CMS) work plan for SWMU 73 at Camp Moscrip, Naval Activity Puerto Rico (NAPR) during April 2008. USACHPPM collected 36 surface soil, six subsurface soil, and two ground-water samples collectively from three sites specified in the CMS work plan. Elevated concentrations of polycyclic aromatic hydrocarbon (PAH) compounds and metals in excess of screening levels were identified at various points along the perimeter of the predetermined surface soil sample locations of the three sites (19E-03, 19E-SS06, and 19E-SS07). Dichloro-Diphenyl-Trichloroethane (DDT) at site 19E-03 and metals at sites 19E-SS06 and 19E-SS07 were identified above screening levels in subsurface soils. Metals in the ground-water sample at site 19E-SS07 were at or slightly above screening levels. Additional characterization of the three areas is necessary before SWMU 73 corrective action objectives and corrective measures can be fully evaluated. The US Environmental Protection Agency (EPA) Regional Screening Levels for Chemical Contaminants at Superfund Sites were used for human health risk screening comparison and the CMS work plan Tables 5-1 and 5-2 (soil and ground-water screening values for ecological risk) for ecological risk screening comparison. NAPR background concentrations used for SWMU 73 were obtained from the Summary Report for Environmental Background Concentrations of Inorganic Compounds, Naval Activity Puerto Rico, Baker Environmental, Inc., February 2008.

Brief discussions of perimeter surface soils, subsurface soils, ground water, and overall risk screening value comparisons at each sampling site are provided below. Analytical summary tables are included (Tables A-F). The enclosure identifies each sample location.

(1) Perimeter Surface Soil Samples Associated with 19E-03 (73SB09 through 73SB12)

Findings (Table A-1):

- Arsenic was detected at 73SB12 above EPA industrial screening levels and NAPR background concentrations.
- Zinc was identified above the ecological screening level and NAPR background concentration at 73SB10 and 73SB12. Nickel at 73SB09 and mercury at 73SB12 were identified slightly above the ecological screening level and NAPR background concentrations.

(2) Perimeter Surface Soil samples Associated with 19E-SS06 (73SB21 through 73SB24)

Findings (Table A-2):

- Several PAH compounds were identified above EPA residential and/or industrial screening levels and ecological screening levels at 73SB24.
- Arsenic was present in all four perimeter samples above EPA industrial screening levels and NAPR background concentrations.
- The following metals were identified above ecological screening levels and NAPR background concentrations: mercury at 73SB21; chromium, cobalt, copper, mercury, and zinc at 73SB23; and copper, zinc, and mercury at 73SB24.

(3) Perimeter Surface Soil Samples Associated with 19E-SS07 (73SB33 through 73SB36)

Findings (Table A-3):

- Arsenic was present in all four perimeter samples above EPA industrial screening levels and NAPR background concentrations.
- The following metals were identified above ecological screening levels and NAPR background concentrations: copper and vanadium at 73SB33 and 73SB34; chromium, cobalt, and zinc at 73SB35; and cobalt, copper, and zinc at 73SB36.

(4) Findings for Soils at Depth (Table B):

- Analytical results of soils at depth indicate that most contamination is present within the first foot of soil from the surface at 19E-03, 19E-SS06, and 19E-SS07.
- DDT was identified at 73SB02 above the EPA industrial soil screening level.
- Cobalt and vanadium exceeded ecological screening levels and NAPR background concentrations for clay material at 73SB14. It should be noted that the soils at this location were generally described as silt and clay mixture. Both analytes are within NAPR background when the subsurface silt background concentrations are used.
- Copper, vanadium, and zinc exceeded ecological screening levels and NAPR background concentrations for silt and clay material at 73SB27. It should be noted that the soils at this location were generally described as silt and clay mixture.

(5) Findings for Ground Water (73MW01 and 73MW02) (Table C):

- The soil boring 73SB02 was converted to monitoring well 73MW01. The soil boring 73SB27 was converted to monitoring well 73MW02. Soil boring 73SB14 was not converted to a monitoring well due to an insufficient volume of ground-water recharge.
- Bis(2-ethylhexyl)phthalate was identified in ground water above the EPA maximum allowable concentration level (MCL) and tap water screening level at 73MW01 but below the ecological screening level.

- Arsenic was identified in ground water above the EPA MCL and tap water screening level at 73MW02 but just below the ecological screening level. Copper, nickel, and silver exceeded the ecological screening values for ground water and the NAPR background concentration for dissolved metals at 73MW02.

(6) Human Health and Ecological Risk Preliminary Findings:

(a) Human Health Risk:

- Preliminary results suggest that although EPA industrial screening levels and NAPR background concentrations were exceeded for arsenic, additional sampling is not necessary. Preliminary risk calculations for trespasser, construction worker, and industrial worker scenarios indicate that the risk levels for each of the three sampled areas (19E-03, 19E-SS06, and 19ESS-07) appear to be within acceptable levels. The mean arsenic concentration for each of these three areas was used as the exposure point concentration for this evaluation. A potential data gap exists in the vicinity of 73SB24 where elevated PAH levels above EPA industrial screening levels were identified near the area where proposed construction is planned.

(b) Ecological Risk:

- Similar to the first step in an ecological screening level evaluation, a conservative approach was taken using maximum surface soil concentrations to eliminate/retain analytes and determine areas to further delineate. Preliminary findings suggest that additional sampling at each of the three sites (19E-03, 19E-SS06, and 19E-SS07) would assist in further characterizing the extent of analyte concentrations in soils.

At 19E-03, six metals and eight pesticides were retained where the maximum soil concentrations exceeded the ecological screening values and background concentrations. Metals retained were chromium, copper, lead, nickel, zinc, and mercury. Pesticides retained were chlordane, dieldrin, heptachlor, heptachlor epoxide, kepone, Dichloro-Diphenyl-Dichloroethane, Dichloro-Diphenyl-Dichloroethylene, and DDT.

At 19E-SS06, six metals, one pesticide, and six low level PAHs were retained where the maximum soil concentrations exceeded the ecological screening values and background concentrations. Metals retained were chromium, cobalt, copper, lead, zinc, and mercury. The pesticide retained was chlordane, and the low level PAHs retained were pyrene, fluoranthene, chrysene, benzo[b]fluoranthene, benzo[a]pyrene, and benzo[a]anthracene.

At 19E-SS07, nine metals were retained where the maximum soil concentrations exceeded the ecological screening values and background concentrations. Metals retained were barium, chromium, cobalt, copper, lead, nickel, selenium, vanadium, and zinc.

(7) Recommended Actions:

The Army proposes to add sample locations in accordance with the quality assurance/quality control guidelines outlined in the work plan and quality assurance project plan. The additional sampling is intended to investigate potential data gaps identified from the initial sampling event. Although mean concentrations of arsenic exceeded NAPR

background concentrations and EPA screening levels, arsenic was not targeted for follow-up sampling based on preliminary human health risk findings. PAH detections of greater than an order of magnitude above EPA screening levels in an area in close proximity to proposed construction warrant further delineation. Some ecological screening levels and NAPR background concentrations were exceeded in some perimeter samples. Locations where the sample point concentration exceeded both the NAPR background concentration and ecological screening level benchmarks were targeted for follow-up sampling. The enclosure illustrates the proposed surface and subsurface soil sampling locations along with a proposed ground-water monitoring well location.

Variations from the original work plan that comprise the expanded work include:

(a) **19E-03** The following samples are proposed:

- Subsurface soil samples at 3 to 5 feet and 5 to 7 feet at or near the 73SB02 location to delineate the vertical extent of pesticide contamination in the subsurface soils. These samples will be analyzed for pesticides.
- Surface soil samples for nickel to the north of 73SB09.
- Surface soil samples for zinc to the east of 73SB10
- Surface soil samples for zinc and mercury to the west of 73SB12.

(b) **19E-SS06** The following work/samples are proposed:

- Due to the high concentrations of PAH compounds in the surface soil sample at 73SB24, sample subsurface soils following the work plan screening guidance for laboratory analysis (one sample from 1 to 3 feet and a second sample based on field screening or just above the water table) for low level PAH, arsenic, copper, mercury, and zinc.
- Attempt to install a ground-water monitoring well (maximum depth: 30 feet) at the 73SB24 location due to the elevated levels of PAHs and metals identified in surface soils. The ground water from the monitoring well (assuming successful installation) will be sampled for low level PAHs, arsenic, copper, mercury, nickel, and silver. Some metals were selected in addition to the identified analytes in surface soils at the site due to their presence in ground water at 73MW02 near and above screening levels and NAPR background concentrations.
- Surface soil samples at 73SB21 for mercury
- Surface soil samples at 73SB24 (northeast, southeast, and southwest) for low level PAHs copper, mercury, and zinc.
- Surface soil samples at 73SB23 for chromium, cobalt, copper, mercury, and zinc.

(c) **19E-SS07** The following samples are proposed:

- One ground-water sample from existing monitoring well 73MW02 to be analyzed for arsenic, copper, nickel, and silver to provide additional data to support previous results indicating concentrations near or above screening levels and NAPR background concentrations.

- Surface soil samples at the following locations: 73SB33 and 73SB34 for copper and vanadium; 73SB35 for chromium, cobalt, and zinc; and 73SB36 for cobalt, copper, and zinc.

Mr. David Jones will serve as the primary USACHPPM point of contact. Mr. Jones may be reached by telephone at (410) 436-2305 or email at david.jones21@us.army.mil.

Sincerely,



Wayne A. Fox
Program Manager
Ground Water and Solid Waste

Enclosure

Table A-1. Chemical Results of Surface Soil Samples from 0-1' Depth at the 19E-03 Location.

Sample ID	EPA Screen Level ¹	EPA Screen Level ¹	Table 5-1 Screen ²	Up Limit of Means ³	73SB01-00	73SB01A-00	73SB02-00	73SB03-00	73SB04-00	73SB05-00	73SB06-00
Sample Date	Residential	Industrial	Soil	(x+2s)	31-Mar-08	31-Mar-08	31-Mar-08	31-Mar-08	31-Mar-08	31-Mar-08	31-Mar-08
Volatile Organic Compounds (ug/kg)											
2-Butanone {MEK}	28,000,000	190,00,000	N/A	N/A	11J	5J	ND (11)	5J	5J	6J	6J
Acetone	61,000,000	610,000,000	N/A	N/A	62J	66J	31J	72J	45J	37J	50J
Carbon disulfide	670,000	3,000,000	N/A	N/A	5J	ND (5)	5J	4J	5J	6J	3J
Methyl iodide	N/A	N/A	N/A	N/A	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Methylene chloride	11,000	54,000	1,004	N/A	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Low Level Polycyclic Aromatic Hydrocarbons (ug/kg)											
1-Methylnaphthalene	22,000	99,000	1,200	N/A	0.92J	1.2J	ND (1.8)	1.4J	1.4J	ND (1.8)	ND (1.7)
2-Methylnaphthalene	310,000	4,100,000	1,200	N/A	ND (1.7)	2	ND (1.8)	2	ND (1.9)	ND (1.8)	ND (1.7)
Acenaphthene	34,000	330,000	20,000	N/A	1.6J	ND (1.8)	ND (1.8)	8	ND (1.9)	ND (1.8)	ND (1.7)
Acenaphthylene	N/A	N/A	1,200	N/A	0.63J	0.59J	16	0.69J	1.5J	ND (1.8)	ND (1.7)
Anthracene	17,000,000	170,000,000	1,200	N/A	1.6J	1.3J	41	21	1.7J	0.64J	0.6J
Benzo[a]anthracene	150	2,100	1,200	N/A	15	10	150	77	8.3	9.3	5
Benzo[a]pyrene	15	210	1,200	N/A	18J	12J	160J	64J	16J	15J	9J
Benzo[b]fluoranthene	150	2,100	1,200	N/A	30	26	360	96	24	30	21
Benzo[g,h,i]perylene	N/A	N/A	1,200	N/A	15	8.2	66	23	7.7	8.1	12
Benzo[k]fluoranthene	15	210	1,200	N/A	14	9	200	45	11	13	6.9
Chrysene	150	2,100	1,200	N/A	16J	12J	220J	74J	12J	14J	7.7J
Dibenz[a,h]anthracene	15	210	1,200	N/A	3.7	19	2.2	8.7	2.1	2.4	2.4
Fluoranthene	2,300,000	22,000,000	1,200	N/A	20J	14J	250J / 39J	170J	21J	7.6J	7J
Fluorene	2,300,000	22,000,000	30,000	N/A	ND (1.7)	ND (1.8)	1.3J	6.7	0.83J	ND (1.8)	ND (1.7)
Indeno[1,2,3-cd]pyrene	150	2,100	1,200	N/A	12J	7.3J	69J	25	7.4	8.1	8.9
Naphthalene	150,000	670,000	1,200	N/A	3.2	5.3	2.4	5.9	2	3.9	2
Phenanthrene	N/A	N/A	1,200	N/A	8	7.1	10	100	17	4.7	4
Pyrene	1,700,000	17,000,000	1,200	N/A	15	10	270 / 48J	97	16	6.9	7.1
Semi-Volatile Organics Compounds (ug/kg)											
Bis(2-ethylhexyl)phthalate (DEHP)	35,000	120,000	6,010	N/A	280	400	1,200	890	260	330	830

Table A-1 (cont'd). Chemical Results of Surface Soil Samples from 0-1' Depth at the 19E-03 Location.

Sample ID	EPA Screen Level Residential	EPA Screen Level Industrial	Tbl 5-1 Screen ² Soil	Up Limit of Means ³ (x+2s)	73SB01-00	73SB01A-00	73SB02-00	73SB03-00	73SB04-00	73SB05-00	73SB06-00
Sample Date					31-Mar-08	31-Mar-08	31-Mar-08	31-Mar-08	31-Mar-08	31-Mar-08	31-Mar-08
Pesticides and PCBs (ug/kg)											
Aroclor 1254	220	740	N/A	N/A	ND (18.3)	ND (17.9)	ND (3930)	ND (176)	ND (18.4)	ND (89.3)	103
Aroclor 1260	220	740	N/A	N/A	22.5	33.1J	ND (3930)	312	20.7	345	59.4
Chlordane	1,600	6,500	100	N/A	390J	480	ND (9800)	ND (18)	ND (92)	ND (180)	ND (180)
Dieldrin	30	110	401	N/A	ND (1.8)	0.52J	ND (980)	0.73J	ND (9.2)	13J	9.1J
Heptachlor	110	380	100	N/A	0.36J	ND (0.88)	ND (480)	ND (0.86)	ND (4.5)	ND (8.7)	ND (8.9)
Heptachlor epoxide	53	190	100	N/A	2.3J	3J	ND (480)	ND (0.86)	ND (4.5)	ND (8.7)	2.8J
Kepon	30	110	100	N/A	25	ND (7.4)	ND (4000)	14	ND (38)	66J	ND (75)
p,p'-DDD	2,000	7,200	401	N/A	ND (1.8)	ND (6.3)	5,500	2.2J	13	ND (18)	ND (18)
p,p'-DDE	1,400	5,100	401	N/A	75	150	9,600	7.2	360	36	29
p,p'-DDT	1,700	7,000	401	N/A	71J	160J	77,000	34J	120J	ND (18)	27J
Metals (mg/kg)											
Arsenic	0.39	1.6	18	2.65	2.3J	3.3J	2.8J	4.9J	ND (2)	3.5J	3.5J
Barium	15,000	19,000	330	199	77J	90J	120J	58J	59J	65J	86J
Cadmium	70	810	32	1.02	0.68J	1.8J	19J	3.1J	ND (0.5)	0.63J	5.3J
Chromium	230	1,400	0.4	49.8	24	34	27	27	19	22	27
Cobalt	N/A	N/A	13	46.2	13	16	12	13	13	15	15
Copper	3,100	41,000	70	168	82	120	110	160	83	76	280
Lead	400	N/A	120	22	64J	73J	110J	110J	30J	60J	200J
Nickel	1,600	20,000	30	20.7	38	63	21	39	28	37	48
Vanadium	390	5,200	2	259	77	92	82	69	83	100	90
Zinc	23,000	310,000	50	115	300	90	65	270	88	140	500
Mercury	6.7	28	0.1	0.109	0.0203	0.0685	0.103	0.0593	0.123	0.0294	0.399

¹-EPA Screening Levels were converted from mg/kg to ug/kg where the data was given in ug/kg.

²-Screening Levels developed for Naval Activity Puerto Rico as shown in Table 5-1 of the Corrective Measures Study Work Plan.

³-Upper Limit of Means as determined by the Naval Activity Puerto Rico Background Report (Baker, 2006).

A yellow background indicates that the result was modified to the current result (some J qualified) during the data verification process based on quality control factors.

11-Bold text indicates the constituent was detected at the identified value above the original analytical method detection limit.

5J-Constituent estimated value below the analytical method detection limit.

ND (11)-Constituent not detected at the identified analytical method detection limit.

15 and **0.79J**-Blue text indicates that constituent values meet or exceed the EPA Screening Level for Residential soils.

150 and **0.52J**-Red text indicates that constituent values meet or exceed the EPA Screening Level for Industrial soils.

3.3 - Green text indicates that constituent values meet or exceed the Upper Limit of Means for Background Soils, the EPA Screening Level for soils, and is below the Table 5-1 Ecological Screening Values for Surface Soils.

38 - Orange text indicates that constituent values meet or exceed the Table 5-1 Ecological Screening Values for Surface Soils and the Upper Limit of Means for Background Soils.

250 / **39J**-multi-value blocks represent detections of the low level PAH result followed by the SVOC result for constituents where the analytes are evaluated by both analyses.

N/A - Not Applicable.

ND (18.3)-Constituent detection limit exceeds one or more screening levels.

Nan-Not Analyzed.

Table A-1 (cont'd). Chemical Results of Surface Soil Samples from 0-1' Depth at the 19E-03 Location.

Sample ID	EPA Screen Level ¹	EPA Screen Level ¹	Tbl 5-1 Screen ²	Up Limit of Means ³	73SB07-00	73SB08-00	73SB09-00	73SB10-00	73SB11-00	73SB12-00
Sample Date	Residential	Industrial	Soil	(x+2s)	1-Apr-08	1-Apr-08	1-Apr-08	1-Apr-08	1-Apr-08	1-Apr-08
Volatile Organic Compounds (ug/kg)										
2-Butanone {MEK}	28,000,000	190,000,000	N/A	N/A	5J	12J	41J	ND (9)	7J	5J
Acetone	61,000,000	610,000,000	N/A	N/A	67J	160J	140J	ND (19)	76J	75J
Carbon disulfide	670,000	3,000,000	N/A	N/A	ND (6)	5J	ND (6)	ND (5)	ND (6)	2J
Methyl iodide	N/A	N/A	N/A	N/A	ND (6)	ND (6)	22J	ND (5)	ND (6)	ND (5)
Methylene chloride	11,000	54,000	1,004	N/A	ND (6)	ND (6)	ND (6)	ND (5)	ND (6)	6J
Low Level Polycyclic Aromatic Hydrocarbons (ug/kg)										
1-Methylnaphthalene	22,000	99,000	1,200	N/A	ND (1.7)	ND (1.7)	14	ND (1.7)	ND (1.8)	ND (1.7)
2-Methylnaphthalene	310,000	4,100,000	1,200	N/A	ND (1.7)	ND (1.7)	24	ND (1.7)	ND (1.8)	0.84J
Acenaphthene	34,000	330,000	20,000	N/A	ND (1.7)	1.3J	1.2J	ND (1.7)	ND (1.8)	ND (1.7)
Acenaphthylene	N/A	N/A	1,200	N/A	2.1	20	ND (1.8)	1.6J	12	0.65J
Anthracene	17,000,000	170,000,000	1,200	N/A	3.9	27	5.3	2.1	8.3	0.99J
Benzo[a]anthracene	150	2,100	1,200	N/A	8.4	56	24	5.1	17	8.2
Benzo[a]pyrene	15	210	1,200	N/A	7.8	71	20	5.5	25	9.7
Benzo[b]fluoranthene	150	2,100	1,200	N/A	24	180	32	15	52	21
Benzo[g,h,i]perylene	N/A	N/A	1,200	N/A	7.8	54	13	4.6	22	8.7
Benzo[k]fluoranthene	15	210	1,200	N/A	11	79	15	7.1	17	8.8
Chrysene	150	2,100	1,200	N/A	19J	100J	24J	9.2J	28J	13J
Dibenz[a,h]anthracene	15	210	1,200	N/A	2.0	15	4.0	1.2J	5.3	2.0
Fluoranthene	2,300,000	22,000,000	1,200	N/A	41J	140J	47J	11J	31J	11J
Fluorene	2,300,000	22,000,000	30,000	N/A	ND (1.7)	1.4J	ND (1.8)	ND (1.7)	0.79J	ND (1.7)
Indeno[1,2,3-cd]pyrene	150	2,100	1,200	N/A	6.8J	51J	12J	4.4J	19J	7.4J
Naphthalene	150,000	670,000	1,200	N/A	ND (1.7)	1.3J	6.8	ND (1.7)	1.1J	1.6J
Phenanthrene	N/A	N/A	1,200	N/A	8.1	20	42	1.5J	4.7	4.3
Pyrene	1,700,000	17,000,000	1,200	N/A	26	100	31	8.1	25	7.4
Semi-Volatile Organics Compounds (ug/kg)										
Bis(2-ethylhexyl)phthalate (DEHP)	35,000	120,000	6,010	N/A	400	120	540	480	190	570

Table A-1 (cont'd). Chemical Results of Surface Soil Samples from 0-1' Depth at the 19E-03 Location.

Sample ID	EPA Screen Level ¹ Residential	EPA Screen Level ¹ Industrial	Tbl5-1 Screen ² Soil	UpLimit of Means ³ (x+2s)	73SB07-00 1-Apr-08	73SB08-00 1-Apr-08	73SB09-00 1-Apr-08	73SB10-00 1-Apr-08	73SB11-00 1-Apr-08	73SB12-00 1-Apr-08
Pesticides and PCBs (ug/kg)										
Aroclor 1254	220	740	N/A	N/A	ND (17.5)	48	96.2	146	ND (17.9)	ND (17.5)
Aroclor 1260	220	740	N/A	N/A	ND (17.5)	27.3	71.4	53.8J	ND (17.9)	10.6J
Chlordane	1,600	6,500	100	N/A	ND (17)	ND (18)	ND (18)	94J	ND (18)	ND (18)
Dieldrin	30	110	401	N/A	ND (1.7)	3.3	4.5	6.7	ND (1.8)	ND (1.8)
Heptachlor	110	380	100	N/A	ND (0.85)	0.37J	ND (0.89)	16J	ND (0.88)	ND (0.85)
Heptachlor epoxide	53	190	100	N/A	ND (0.85)	0.79J	1.7	6.2	ND (0.88)	ND (0.85)
Kepone	30	110	100	N/A	ND (7.2)	11J	11J	18J	ND (7.4)	ND (7.2)
p,p'-DDD	2,000	7,200	401	N/A	ND (1.7)	ND (1.8)	ND (2.9)	ND (7.6)	3.9	ND (1.8)
p,p'-DDE	1,400	5,100	401	N/A	6	5.7	10	25	8	1.3J
p,p'-DDT	1,700	7,000	401	N/A	2.8J	ND (1.8)	37J	38J	53J	2J
Metals (mg/kg)										
Arsenic	0.39	1.6	18	2.65	4.2J	4J	ND (2)	2J	ND (2)	3.6J
Barium	15,000	19,000	330	199	44J	66J	83J	99J	28J	29J
Cadmium	70	810	32	1.02	ND (0.5)	0.7J	ND (0.5)	1.2J	ND (0.5)	ND (0.5)
Chromium	230	1,400	0.4	49.8	75	18	16	18	26	17
Cobalt	N/A	N/A	13	46.2	15	14	15	10	22	6.4
Copper	3,100	41,000	70	168	65	89	76	74	84	46
Lead	400	N/A	120	22	7.3J	43J	29J	94J	3.1J	21J
Nickel	1,600	20,000	30	20.7	12	11	36	20	15	5.1
Vanadium	390	5,200	2	259	110	86	93	71	170	40
Zinc	23,000	310,000	50	115	77	200	82	280	87	120
Mercury	6.7	28	0.1	0.109	0.015	0.184	0.0202	0.0797	ND (0.0124)	0.145

¹-EPA Screening Levels were converted from mg/kg to ug/kg where the data was given in ug/kg.

²-Screening Levels developed for Naval Activity Puerto Rico as shown in Table 5-1 of the Corrective Measures Study Work Plan.

³-Upper Limit of Means as determined by the Naval Activity Puerto Rico Background Report (Baker, 2006).

A yellow background indicates that the result was modified to the current result (some J qualified) during the data verification process based on quality control factors.

11-Bold text indicates the constituent was detected at the identified value above the original analytical method detection limit.

5J-Constituent estimated value below the analytical method detection limit.

ND (11)-Constituent not detected at the identified analytical method detection limit.

15 and **0.79J**-Blue text indicates that constituent values meet or exceed the EPA Screening Level for Residential soils.

150 and **0.52J**-Red text indicates that constituent values meet or exceed the EPA Screening Level for Industrial soils.

3.3 - Green text indicates that constituent values meet or exceed the Upper Limit of Means for Background Soils, the EPA Screening Level for soils, and is below the Table 5-1 Ecological Screening Values for Surface Soils.

38 - Orange text indicates that constituent values meet or exceed the Table 5-1 Ecological Screening Values for Surface Soils and the Upper Limit of Means for Background Soils.

250 / **39J**-multi-value blocks represent detections of the low level PAH result followed by the SVOC result for constituents where the analytes are evaluated by both analyses.

N/A - Not Applicable.

ND (18.3)-Constituent detection limit exceeds one or more screening levels.

Nan-Not Analyzed.

Table A-2. Chemical Results of Surface Soil Samples from 0-1' Depth at the 19E-SS06 Location.

Sample ID	EPA Screen Level ¹	EPA Screen Level ¹	Tbl 5-1 Screen ²	Up Limit of Means ²	73SB13-00	73SB13A-00	73SB14-00	73SB15-00	73SB16-00	73SB17-00	73SB18-00
Sample Date	Residential	Industrial	Soil	(x+2s)	2-Apr-08	2-Apr-08	3-Apr-08	2-Apr-08	2-Apr-08	2-Apr-08	3-Apr-08
Volatile Organic Compounds (ug/kg)											
2-Butanone {MEK}	28,000,000	190,000,000	N/A	N/A	21J	7J	ND (11)	ND (12)	ND (12)	ND (12)	ND (11)
Acetone	61,000,000	610,000,000	N/A	N/A	110J	48J	45J	59J	30J	67J	24J
Methyl iodide	N/A	N/A	N/A	N/A	ND (6)	ND (5)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)
Low Level Polycyclic Aromatic Hydrocarbons (ug/kg)											
1-Methylnaphthalene	22,000	99,000	1,200	N/A	ND (1.7)	ND (1.8)	ND (1.8)	1.4J	ND (1.8)	ND (1.7)	11J
2-Methylnaphthalene	310,000	4,100,000	1,200	N/A	ND (1.7)	ND (1.8)	ND (1.8)	1.5J	ND (1.8)	ND (1.7)	19J
Acenaphthene	34,000	330,000	20,000	N/A	ND (1.7)	0.81J	ND (1.8)	4.3	1.2J	ND (1.7)	1.5J
Acenaphthylene	N/A	N/A	1,200	N/A	1.9	3.4	13	61 / 83J	14	1.6J	110 / 160J
Anthracene	17,000,000	170,000,000	1,200	N/A	1.7	4.4	7.5	62 / 89J	12	1.1J	100 / 130J
Benzo[a]anthracene	150	2,100	1,200	N/A	4.1	12	16 / 37J	130 / 220	34 / 47J	2.8	330 / 600
Benzo[a]pyrene	15	210	1,200	N/A	6.6	16	28 / 41J	190 / 250	53 / 59J	4.1	400 / 600
Benzo[b]fluoranthene	150	2,100	1,200	N/A	14	33	51 / 60J	230 / 450	110 / 99J	7.3	750 / 930J
Benzo[g,h,i]perylene	N/A	N/A	1,200	N/A	4.8	9.6	13	81 / 190	41 / 46J	2.8	210 / 370
Benzo[k]fluoranthene	15	210	1,200	N/A	4.8	10	20	200 / 160J	37 / 41J	3.8	400 / 370
Chrysene	150	2,100	1,200	N/A	6.1	10	24 / 43J	190 / 310	49 / 59J	3.7	490 / 800
Dibenz[a,h]anthracene	15	210	1,200	N/A	1.2J	2.6J	3.9J	25J / 47J	11J	0.78J	73 / 99J
Fluoranthene	2,300,000	22,000,000	1,200	N/A	4.5J	20J	17J	190J / 230	39J / 45J	2.5J	180 / 270
Fluorene	2,300,000	22,000,000	30,000	N/A	ND (1.7)	ND (1.8)	0.78J	5.7	1.1J	ND (1.7)	4.6
Indeno[1,2,3-cd]pyrene	150	2,100	1,200	N/A	4.1	9	12	83 / 160J	35 / 38J	2.6	200 / 330
Naphthalene	150,000	670,000	1,200	N/A	ND (1.7)	ND (1.8)	0.83J	2.1	ND (1.8)	ND (1.7)	73
Phenanthrene	N/A	N/A	1,200	N/A	0.78J	6.3J	2.9	46J / 60J	9.7J	ND (1.7)	13 / 54J
Pyrene	1,700,000	17,000,000	1,200	N/A	4.3	15	22 / 46J	160 / 340	34 / 65J	2.9J	170 / 480
Semi-Volatile Organics Compounds (ug/kg)											
Bis(2-ethylhexyl)phthalate (DEHP)	35,000	120,000	6,010	N/A	1,000	850	1,900	1,600	2,800	1,900	1,900
Butylbenzylphthalate	12,000,000	120,000,000	6,010	N/A	ND (170)	ND (180)	ND (180)	890	ND (180)	ND (170)	130J

Table A-2 (cont'd). Chemical Results of Surface Soil Samples from 0-1' Depth at the 19E-SS06 Location.

Sample ID	EPA Screen Level ¹	EPA Screen Level ¹	Tbl 5-1 Screen ²	Up Limit of Means ³	73SB13-00	73SB13A-00	73SB14-00	73SB15-00	73SB16-00	73SB17-00	73SB18-00
Sample Date	Residential	Industrial	Soil	(x+2s)	2-Apr-08	2-Apr-08	3-Apr-08	2-Apr-08	2-Apr-08	2-Apr-08	3-Apr-08
Pesticides and PCBs (ug/kg)											
Aroclor 1254	220	740	N/A	N/A	12.1J	ND (18)	NAn	ND (18)	ND (18.1)	ND (17.9)	ND (19.5)
Aroclor 1260	220	740	N/A	N/A	ND (18)	ND (18)	NAn	11.5J	ND (18.1)	ND (17.9)	10.1J
Chlordane	1,600	6,500	100	N/A	ND (18)	ND (18)	21	ND (41)	ND (18)	ND (18)	100J
Heptachlor epoxide	53	190	100	N/A	ND (0.88)	ND (0.88)	ND (0.93)	ND (1.8)	ND (0.88)	ND (0.87)	ND (0.95)
Kepone	30	110	100	N/A	ND (7.4)	ND (7.4)	2.8J	ND (15)	ND (7.5)	ND (7.4)	17J
p,p'-DDE	1,400	5,100	401	N/A	ND (1.8)	0.45J	0.71J	3.9J	0.61J	ND (1.8)	6.6J
p,p'-DDT	1,700	7,000	401	N/A	1.1J	0.64J	0.69J	3.6	0.72J	ND (1.8)	6.4J
Metals (mg/kg)											
Antimony	31	410	78	3.17	ND (1.2)	ND (0.99)	ND (1)	ND (1.3)	ND (1.1)	ND (0.99)	ND (1.6)
Arsenic	0.39	1.6	18	2.65	7.3	7.7	9	11	11	9	11
Barium	15,000	19,000	330	199	87	75	180	80	69	82	62
Cadmium	70	810	32	1.02	0.17	0.22	0.68	0.92	0.49	0.19	1.1
Chromium	230	1,400	0.4	49.8	26J	24J	140J	29J	28J	30J	110J
Cobalt	N/A	N/A	13	46.2	38J	33J	42J	17J	17J	27J	15J
Copper	3,100	41,000	70	168	190	200	190	250	170	130	140
Lead	400	N/A	120	22	9.2J	8.5J	46J	110J	90J	11J	170J
Nickel	1,600	20,000	30	20.7	16	16	17	14	18	16	14
Silver	390	5,100	560	N/A	0.38	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	0.64
Thallium	5.1	66	1	N/A	0.51	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.39)
Vanadium	390	5,200	2	259	170J	160J	170J	110J	100J	150J	97J
Zinc	23,000	310,000	50	115	72	72	87	180	88	72	140
Mercury	6.7	28	0.1	0.109	0.153	0.0921	0.368	3.62	0.539	0.14	1.65

¹-EPA Screening Levels were converted from mg/kg to ug/kg where the data was given in ug/kg.

²-Screening Levels developed for Naval Activity Puerto Rico as shown in Table 5-1 of the Corrective Measures Study Work Plan.

³-Upper Limit of Means as determined by the Naval Activity Puerto Rico Background Report (Baker, 2006).

A yellow background indicates that the result was modified to the current result (some J qualified) during the data verification process based on quality control factors.

11-Bold text indicates the constituent was detected at the identified value above the original analytical method detection limit.

5J-Constituent estimated value below the analytical method detection limit.

ND (11)-Constituent not detected at the identified analytical method detection limit.

15 and **0.79J**-Blue text indicates that constituent values meet or exceed the EPA Screening Level for Residential soils.

150 and **0.52J**-Red text indicates that constituent values meet or exceed the EPA Screening Level for Industrial soils.

3.3 - Green text indicates that constituent values meet or exceed the Upper Limit of Means for Background Soils, the EPA Screening Level for soils, and is below the Table 5-1 Ecological Screening Values for Surface Soils.

38 - Orange text indicates that constituent values meet or exceed the Table 5-1 Ecological Screening Values for Surface Soils and the Upper Limit of Means for Background Soils.

250 / **39J**-multi-value blocks represent detections of the low level PAH result followed by the SVOC result for constituents where the analytes are evaluated by both analyses.

N/A - Not Applicable.

ND (18.3)-Constituent detection limit exceeds one or more screening levels.

Nan-Not Analyzed.

Table A-2 (cont'd). Chemical Results of Surface Soil Samples from 0-1' Depth at the 19E-SS06 Location.

Sample ID	EPA Screen Level ¹	EPA Screen Level ¹	Tbl5-1 Screen ²	Up Limit of Means ³	73SB18A-00	73SB19-00	73SB20-00	73SB21-00	73SB22-00	73SB23-00	73SB24-00
Sample Date	Residential	Industrial	Soil	(x+2s)	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08
Volatile Organic Compounds (ug/kg)											
2-Butanone {MEK}	28,000,000	190,00,000	N/A	N/A	ND (12)	ND (10)	ND (12)	ND (13)	ND (12)	12J	ND (12)
Acetone	61,000,000	610,000,000	N/A	N/A	26J	75J	19J	41J	44J	140J	67J
Methyl iodide	N/A	N/A	N/A	N/A	ND (6)	ND (5)	ND (6)	ND (6)	ND (6)	11J	ND (6)
Low Level Polycyclic Aromatic Hydrocarbons (ug/kg)											
1-Methylnaphthalene	22,000	99,000	1,200	N/A	1.1J	ND (1.8)	6.5	ND (1.8)	ND (1.7)	ND (1.9)	7.9J
2-Methylnaphthalene	310,000	4,100,000	1,200	N/A	1.2J	ND (1.8)	10 / 86J	0.78J	ND (1.7)	ND (1.9)	7.6J
Acenaphthene	34,000	330,000	20,000	N/A	1.8J	ND (1.8)	ND (1.8)	0.99J	ND (1.7)	1.6J	63
Acenaphthylene	N/A	N/A	1,200	N/A	130 / 180J	8.2	13	29	0.97J	12	320 / 720
Anthracene	17,000,000	170,000,000	1,200	N/A	120 / 160J	7.8	11	21	0.46J	15	320 / 820
Benzo[a]anthracene	150	2,100	1,200	N/A	440 / 590	17	22	48	0.81J	30 / 65J	1800/4000
Benzo[a]pyrene	15	210	1,200	N/A	510 / 610	28	36	74	1.2J	48 / 60J	1800/3400
Benzo[b]fluoranthene	150	2,100	1,200	N/A	960 / 1,000	64 / 46J	79	130 / 45J	2.2	97 / 93J	3100/4800
Benzo[g,h,i]perylene	N/A	N/A	1,200	N/A	230 / 400	15	20	40	0.84J	46 / 52J	1000/1800
Benzo[k]fluoranthene	15	210	1,200	N/A	500 / 370	22	29	51	0.77J	40	1200/1900
Chrysene	150	2,100	1,200	N/A	650 / 810	27J	37J	66J	1.1J	43J / 71J	1800/4200
Dibenz[a,h]anthracene	15	210	1,200	N/A	73 / 110J	4.2	5.5	12	ND (1.7)	9.6	350 / 560
Fluoranthene	2,300,000	22,000,000	1,200	N/A	210J / 240	24J	28J	49J	0.94J	48J / 98J	1500J/1900
Fluorene	2,300,000	22,000,000	30,000	N/A	6.3	ND (1.8)	0.77J	2	ND (1.7)	1.2J	41 / 37J
Indeno[1,2,3-cd]pyrene	150	2,100	1,200	N/A	230 / 370	16	20	38	0.73J	27 / 41J	950 / 1,700
Naphthalene	150,000	670,000	1,200	N/A	2.8	ND (1.8)	42 / 320	1.2J	ND (1.7)	ND (1.9)	14J
Phenanthrene	N/A	N/A	1,200	N/A	11	4.4J	5.4J	12J	ND (1.7)	13J / 44J	450J / 85J
Pyrene	1,700,000	17,000,000	1,200	N/A	220 / 440	20J	25J	44J	0.91J	38J / 120J	1,400J/3,100
SemiVolatile Organic Compounds (ug/kg)											
Bis(2-ethylhexyl)phthalate (DEHP)	35,000	120,000	6,010	N/A	2,800	2,900	2,400	720	1,200	2,900	2,800
Butylbenzylphthalate	12,000,000	120,000,000	6,010	N/A	ND (190)	ND (180)	ND (180)	ND (180)	ND (170)	ND (190)	ND (180)

Table A-2 (cont'd). Chemical Results of Surface Soil Samples from 0-1' Depth at the 19E-SS06 Location.

Sample ID	EPA Screen Level ¹	EPA Screen Level ¹	Tbl 5-1 Screen ²	Up Limit of Means ³	73SB18A-00	73SB19-00	73SB20-00	73SB21-00	73SB22-00	73SB23-00	73SB24-00
Sample Date	Residential	Industrial	Soil	(x+2s)	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08
Pesticides and PCBs (ug/kg)											
Aroclor 1254	220	740	N/A	N/A	ND (20.4)	ND (18.8)	ND (18.1)	ND (18)	ND (17.9)	ND (18.9)	ND (18)
Aroclor 1260	220	740	N/A	N/A	12.7J	ND (18.8)	ND (18.1)	ND (18)	ND (17.9)	16J	13.2J
Chlordane	1,600	6,500	100	N/A	93J	ND (19)	12J	18J	ND (18)	ND (19)	130
Heptachlor epoxide	53	190	100	N/A	1.3J	ND (0.92)	ND (0.88)	ND (0.88)	ND (0.87)	ND (0.92)	ND (4.4)
Kepon	30	110	100	N/A	14J	ND (7.7)	ND (7.4)	ND (7.4)	ND (7.4)	ND (7.8)	ND (37)
p,p'-DDE	1,400	5,100	401	N/A	6.3J	ND (1.9)	0.49J	0.47J	ND (1.8)	1.4J	6.7J
p,p'-DDT	1,700	7,000	401	N/A	6J	0.98J	1J	0.92J	0.61J	1.4J	6.6J
Metals (mg/kg)											
Antimony	31	410	78	3.17	ND (2.7)	ND (1.4)	ND (0.98)	ND (1)	ND (1)	ND (2)	ND (1.5)
Arsenic	0.39	1.6	18	2.65	11	6.6	10	11	12	8.4	10
Barium	15,000	19,000	330	199	60	91	70	66	23	120	73
Cadmium	70	810	32	1.02	0.78	0.17	0.36	0.47	0.3	0.8	0.96
Chromium	230	1,400	0.4	49.8	110J	170J	22J	21J	0.8J	170J	27J
Cobalt	N/A	N/A	13	46.2	15J	25J	20J	20J	4.9J	93J	18J
Copper	3,100	41,000	70	168	130	110	250	110	31	200	240
Lead	400	N/A	120	22	370J	12J	20J	23J	1.5J	88J	110J
Nickel	1,600	20,000	30	20.7	14	18	15	14	7.9	17	15
Silver	390	5,100	560	N/A	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
Thallium	5.1	66	1	N/A	ND (0.39)	ND (0.4)	ND (0.39)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.39)
Vanadium	390	5,200	2	259	100J	150J	140J	110J	34J	170J	110J
Zinc	23,000	310,000	50	115	120	85	80	86	25	220	180
Mercury	6.7	28	0.1	0.109	1.41	0.215	2.69	0.899	0.0207	2.45	4.31

¹-EPA Screening Levels were converted from mg/kg to ug/kg where the data was given in ug/kg.

²-Screening Levels developed for Naval Activity Puerto Rico as shown in Table 5-1 of the Corrective Measures Study Work Plan.

³-Upper Limit of Means as determined by the Naval Activity Puerto Rico Background Report (Baker, 2006).

A yellow background indicates that the result was modified to the current result (some J qualified) during the data verification process based on quality control factors.

11-Bold text indicates the constituent was detected at the identified value above the original analytical method detection limit.

5J-Constituent estimated value below the analytical method detection limit.

ND (11)-Constituent not detected at the identified analytical method detection limit.

15 and **0.79J**-Blue text indicates that constituent values meet or exceed the EPA Screening Level for Residential soils.

150 and **0.52J**-Red text indicates that constituent values meet or exceed the EPA Screening Level for Industrial soils.

3.3 - Green text indicates that constituent values meet or exceed the Upper Limit of Means for Background Soils, the EPA Screening Level for soils, and is below the Table 5-1 Ecological Screening Values for Surface Soils.

38 - Orange text indicates that constituent values meet or exceed the Table 5-1 Ecological Screening Values for Surface Soils and the Upper Limit of Means for Background Soils.

250 / **39J**-multi-value blocks represent detections of the low level PAH result followed by the SVOC result for constituents where the analytes are evaluated by both analyses.

N/A - Not Applicable.

ND (18.3)-Constituent detection limit exceeds one or more screening levels.

Nan-Not Analyzed.

Table A-3. Chemical Results of Surface Soil Samples from 0-1' Depth at the 19E-SS07 Location.

Sample ID	EPA Screen Level ¹	EPA Screen Level ¹	Tbl5-1 Screen ²	Up Limit of Means ³	73SB25-00	73SB26-00	73SB27-00	73SB27A-00	73SB28-00	73SB29-00	73SB30-00
Sample Date	Residential	Industrial	Soil	(x+2s)	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08
Metals (mg/kg)											
Arsenic	0.39	1.6	18	2.65	5.7	5.9	6.3	6.1	7.3	6.5	6
Barium	15,000	19,000	330	199	67	230	72	78	350	87	430
Cadmium	70	810	32	1.02	ND (0.1)	ND (0.098)	ND (0.099)	ND (0.097)	0.2	ND (0.097)	ND (0.098)
Chromium	230	1,400	0.4	49.8	41J	33J	35J	37J	26J	29J	23J
Cobalt	N/A	N/A	13	46.2	8.3J	15J	15J	13J	69J	18J	9.4J
Copper	3,100	41,000	70	168	250	240	200	210	270	200	200
Lead	400	N/A	120	22	3.5J	2.8J	6.9J	7.6J	7.6J	7.3J	3.5J
Nickel	1,600	20,000	30	20.7	7.9	18	10	12	18	11	7.3
Selenium	390	5,100	1	1.48	ND (1)	ND (0.98)	1.8	1.6	1.2	1.2	1.4
Silver	390	5,100	560	N/A	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.19)	0.25	ND (0.19)	ND (0.2)
Thallium	5.1	66	1	N/A	ND (0.4)	ND (0.39)	ND (0.4)	ND (0.39)	0.48	ND (0.39)	ND (0.39)
Vanadium	390	5,200	2	259	280J	220J	300J	300J	240J	230J	220J
Zinc	23,000	310,000	50	115	65	130	65	71	160	75	63
Mercury	6.7	28	0.1	0.109	0.02	0.0182	0.0618	0.0351	0.0424	0.0402	0.0182

Table A-3 (cont'd). Chemical Results of Surface Soil Samples from 0-1' Depth at the 19E-SS07 Location.

Sample ID	EPA Screen Level ¹	EPA Screen Level ¹	Tbl 5-1 Screen ²	Up Limit of Means ³	73SB31-00	73SB32-00	73SB33-00	73SB34-00	73SB35-00	73SB36-00
Sample Date	Residential	Industrial	Soil	(x+2s)	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08	3-Apr-08
Metals (mg/kg)										
Arsenic	0.39	1.6	18	2.65	7	6.2	6.8	5.9	8	5.6
Barium	15,000	19,000	330	199	56	410	130	250	170	140
Cadmium	70	810	32	1.02	0.29	0.12	ND (0.099)	ND (0.096)	0.37	ND (0.099)
Chromium	230	1,400	0.4	49.8	44J	30J	34J	40J	180J	24J
Cobalt	N/A	N/A	13	46.2	18J	63J	17J	8.6J	65J	290J
Copper	3,100	41,000	70	168	170	210	230	240	160	200
Lead	400	N/A	120	22	15J	5.6J	4.2J	5.4J	23J	1.5J
Nickel	1,600	20,000	30	20.7	13	16	9.1	14	20	25
Selenium	390	5,100	1	1.48	ND (1)	ND (0.99)	1.1	1	ND (0.98)	ND (0.99)
Silver	390	5,100	560	N/A	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.2)
Thallium	5.1	66	1	N/A	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.39)	ND (0.39)	ND (0.4)
Vanadium	390	5,200	2	259	220J	250J	300J	330J	270J	130J
Zinc	23,000	310,000	50	115	110	140	75	70	130	310
Mercury	6.7	28	0.1	0.109	0.0436	0.0294	0.0196	0.0382	0.0838	ND (0.0149)

¹-EPA Screening Levels were converted from mg/kg to ug/kg where the data was given in ug/kg.

²-Screening Levels developed for Naval Activity Puerto Rico as shown in Table 5-1 of the Corrective Measures Study Work Plan.

³-Upper Limit of Means as determined by the Naval Activity Puerto Rico Background Report (Baker, 2006).

A yellow background indicates that the result was modified to the current result (some J qualified) during the data verification process based on quality control factors.

11-Bold text indicates the constituent was detected at the identified value above the original analytical method detection limit.

5J-Constituent estimated value below the analytical method detection limit.

ND (11)-Constituent not detected at the identified analytical method detection limit.

15 and **0.79J**-Blue text indicates that constituent values meet or exceed the EPA Screening Level for Residential soils.

150 and **0.52J**-Red text indicates that constituent values meet or exceed the EPA Screening Level for Industrial soils.

3.3 - Green text indicates that constituent values meet or exceed the Upper Limit of Means for Background Soils, the EPA Screening Level for soils, and is below the Table 5-1 Ecological Screening Values for Surface Soils.

38 - Orange text indicates that constituent values meet or exceed the Table 5-1 Ecological Screening Values for Surface Soils and the Upper Limit of Means for Background Soils.

250 / **39J**-multi-value blocks represent detections of the low level PAH result followed by the SVOC result for constituents where the analytes are evaluated by both analyses.

N/A – Not Applicable.

ND (18.3)-Constituent detection limit exceeds one or more screening levels.

Nan-Not Analyzed.

Table B. Chemical Results for Surface and Subsurface Soil Samples.

Sample ID	EPA Screen Level ¹	EPA Screen Level ¹	Tbl5-1 Screen ²	73SB02-00	73SB02-01	73SB02-04	73SB1400	73SB1401	73SB1404
Sample Date	Residential	Industrial	Soil	31-Mar-08	7-Apr-08	7-Apr-08	3-Apr-08	7-Apr-08	7-Apr-08
Sample Depth				0-1'	1'-3'	7-9'	0-1'	1'-3'	7-9'
Volatile Organic Compounds (ug/kg)									
Acetone	610,00,000	610,000,000	N/A	31J	36J	ND (19)	45J	37J	120J
Low Level Polycyclic Aromatic Hydrocarbons (ug/kg)									
Acenaphthylene	N/A	N/A	1,200	16	1.5J	ND (1.9)	13	ND (1.8)	ND (2)
Anthracene	17,000,000	170,000,000	1,200	41	1.1J	ND (1.9)	7.5	ND (1.8)	ND (2)
Benzo[a]anthracene	150	2,100	1,200	150	5.1 / 82J	ND (1.9)	16 / 37J	ND (1.8)	ND (2)
Benzo[a]pyrene	15	210	1,200	160J	6.4 / 69J	ND (1.9)	28 / 41J	ND (180)	ND (2)
Benzo[b]fluoranthene	150	2,100	1,200	360	12 / 110J	ND (1.9)	51 / 60J	ND (1.8)	ND (2)
Benzo[g,h,i]perylene	N/A	N/A	1,200	66	4.0 / 43J	ND (1.9)	13	ND (1.8)	ND (2)
Benzo[k]fluoranthene	1,500	21,000	1,200	200	4.8 / 50J	ND (1.9)	20	ND (1.8)	ND (2)
Chrysene	15,000	210,000	1,200	220J	6.5 / 120J	ND (1.9)	24 / 43J	ND (1.8)	ND (2)
Dibenz[a,h]anthracene	15	210	1,200	19	0.97J	ND (1.9)	3.9J	ND (1.8)	ND (2)
Fluoranthene	2,300,000	22,000,000	1,200	250J / 39J	10 / 170J	ND (1.9)	17J	ND (1.8)	ND (2)
Indeno[1,2,3-cd]pyrene	150	2,100	1,200	69J	3.4 / 40J	ND (1.9)	12	ND (1.8)	ND (2)
Naphthalene	150,000	670,000	1,200	2.4	ND (1.8)	ND (1.9)	0.83J	ND (180)	ND (200)
Phenanthrene	N/A	N/A	1,200	10	3.1 / 56J	ND (1.9)	2.9	ND (180)	ND (2)
Pyrene	1,700,000	17,000,000	1,200	270 / 48J	9.3 / 180J	ND (1.9)	22 / 46J	ND (1.8)	ND (2)
SemiVolatile Organic Compounds (ug/kg)									
Bis(2-ethylhexyl)phthalate (DEHP)	35,000	120,000	6,010	1,200	1,500	390	1,900	330J	1,400

Table B (cont'd). Chemical Results for Surface and Subsurface Soil Samples.

Sample ID	EPA Screen Level ¹	EPA Screen Level ¹	Tbl 5-1 Screen ²	Upper Limit of Means ³	Upper Limit of Means ³	73SB02-00	73SB02-01 (silt)	73SB02-04 (silt)	73SB14-00	73SB14-01 (silt/clay)	73SB14-04 (silt/clay)
Sample Date	Residential	Industrial	Soil	Subsurface	Subsurface	31-Mar-08	7-Apr-08	7-Apr-08	3-Apr-08	7-Apr-08	7-Apr-08
Sample Depth				Soil (silt)	Soil (clay)	0-1'	1'-3'	7-9'	0-1'	1'-3'	7-9'
Pesticides and PCBs (ug/kg)											
Endrin	18,000	180,000	401	N/A	N/A	ND (980)	1,100J	ND (2)	ND (1.9)	ND (1.9)	ND (2)
Chlordane	1,600	6,500	N/A	N/A	N/A	ND (9800)	900J	12J	21	ND (19)	ND (20)
Heptachlor epoxide	53	190	100	N/A	N/A	ND (480)	ND (91)	0.23J	ND (0.93)	ND (0.91)	ND (1)
Kepone	30	110	100	N/A	N/A	ND (4000)	ND (770)	ND (8.1)	2.8J	ND (7.7)	ND (8.4)
p,p'-DDD	2,000	7,200	401	N/A	N/A	5,500	1,100J	0.58J	ND (1.9)	ND (1.9)	ND (2)
p,p'-DDE	1,400	5,100	401	N/A	N/A	9,600	3,100J	4.9J	0.71J	ND (1.9)	ND (2.1)
p,p'-DDT	1,700	7,000	401	N/A	N/A	77,000	14,000J	4.6J	0.69J	ND (1.9)	2.7J
Metals (mg/kg)											
Antimony	31	410	78	7.44	N/A	ND (5)	ND (1)	ND (0.98)	ND (1)	ND (0.99)	NAn
Arsenic	0.39	1.6	18	6.66	1.59	2.8J	0.96J	ND (0.39)	9	0.74J	NAn
Barium	15,000	19,000	330	207	220	120J	210	100	180	180	NAn
Cadmium	70	810	32	0.57	0.54	19J	0.75	ND (0.098)	0.68	0.15	NAn
Chromium	230	1,400	0.4	47.9	114.5	27	46J	18J	140J	31J	NAn
Cobalt	N/A	N/A	13	63.1	26.9	12	20J	24J	42J	55J*	NAn
Copper	3,100	41,000	70	120	246	110	100	130	190	190	NAn
Lead	400	N/A	120	6.2	6.3	110J	56	1.7	46J	3.1	NAn
Nickel	1,600	20,000	30	26.5	24.7	21	13J	ND (4.9)	17	7.7J	NAn
Selenium	390	5,100	1	1.19	5.94	ND (5)	ND (1)	ND (0.98)	ND (1)	ND (0.99)	NAn
Silver	390	5,100	560	N/A	N/A	ND (0.99)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	NAn
Thallium	5.1	66	1	N/A	0.92	ND (2)	ND (0.4)	ND (0.39)	ND (0.4)	ND (0.39)	NAn
Vanadium	390	5,200	2	256	4	82	140	180	170J	250*	NAn
Zinc	23,000	310,000	50	92	88	65	600	57	87	64	NAn
Mercury	6.7	28	0.1	0.067	0.108	0.103	ND (0.102)	ND (0.0128)	0.368	ND (0.0311)	NAn

¹-EPA Screening Levels were converted from mg/kg to ug/kg where the data was given in ug/kg.

²-Screening Levels developed for Naval Activity Puerto Rico as shown in Table 5-1 of the Corrective Measures Study Work Plan (applicable from 0 to 3 feet below ground surface).

³-Upper Limit of Means as determined by the Naval Activity Puerto Rico Background Report (Baker, 2006).

A yellow background indicates that the result was modified to the current result (some J qualified) during the data verification process based on quality control factors.

11-Bold text indicates the constituent was detected at the identified value above the original analytical method detection limit.

5J-Constituent estimated value below the analytical method detection limit.

ND (11)-Constituent not detected at the identified analytical method detection limit.

15 and **0.79J**-Blue text indicates that constituent values meet or exceed the EPA Screening Level for Residential soils.

150 and **0.52J**-Red text indicates that constituent values meet or exceed the EPA Screening Level for Industrial soils.

3.3 - Green text indicates that constituent values meet or exceed the Upper Limit of Means for Background Soils, the EPA Screening Level for soils, and is below the Table 5-1 Ecological Screening Values for Surface Soils.

38 - Orange text indicates that constituent values meet or exceed the Table 5-1 Ecological Screening Values for Surface Soils and the Upper Limit of Means for Background Soils.

* - Data indicated above background concentration in clay but less than background concentration in silt.

250 / **39J**-multi-value blocks represent detections of the low level PAH result followed by the SVOC result for constituents where the analytes are evaluated by both analyses.

N/A - Not Applicable.

ND (18.3)-Constituent detection limit exceeds one or more screening levels.

Nan-Not Analyzed.

Table B (cont'd). Chemical Results for Surface and Subsurface Soil Samples.

Sample ID	EPA Screen Level ¹	EPA Screen Level ¹	Tbl 5-1 Screen ²	Upper Limit of Means ³	Upper Limit of Means ³	73SB27-00	73SB27A-00	73SB27-01 (silt/clay)	73SB27A-01 (silt/clay)	73SB27-09 (silt/clay)
Sample Date	Residential	Industrial	Soil	Subsurface	Subsurface	3-Apr-08	3-Apr-08	7-Apr-08	7-Apr-08	7-Apr-08
Sample Depth				Soil (silt)	Soil (clay)	0-1'	0-1'	1'-3'	1'-3'	17'-19'
Metals (mg/kg)										
Antimony	31	410	78	7.44	N/A	ND (0.99)	ND (0.97)	ND (1.1)	ND (0.97)	ND (0.99)
Arsenic	0.39	1.6	18	6.66	1.59	6.3	6.1	ND (0.4)	ND (0.39)	ND (0.4)
Barium	15,000	19,000	330	207	220	72	78	210	86	110
Cadmium	70	810	32	0.57	0.54	ND (0.099)	ND (0.097)	0.16	0.19	ND (0.099)
Chromium	230	1,400	0.4	47.9	114.5	35J	37J	41J	41J	24J
Cobalt	N/A	N/A	13	63.1	26.9	15J	13J	21J	23J	20J
Copper	3,100	41,000	70	120	246	200	210	460	420	200
Lead	400	N/A	120	6.2	6.3	6.9J	7.6J	2.4	1.4	0.74
Nickel	1,600	20,000	30	26.5	24.7	10	12	12J	11J	ND (5)
Selenium	390	5,100	1	1.19	5.94	1.8	1.6	1.1	ND (0.97)	ND (0.99)
Silver	390	5,100	560	N/A	N/A	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)
Thallium	5.1	66	1	N/A	0.92	ND (0.4)	ND (0.39)	ND (0.4)	ND (0.39)	ND (0.4)
Vanadium	390	5,200	2	256	4	300J	300J	300	300	160
Zinc	23,000	310,000	50	92	88	65	71	110	100	59
Mercury	6.7	28	0.1	0.067	0.108	0.0618	0.0351	ND (0.012)	ND (0.0137)	ND (0.0133)

¹-EPA Screening Levels were converted from mg/kg to ug/kg where the data was given in ug/kg.

²-Screening Levels developed for Naval Activity Puerto Rico as shown in Table 5-1 of the Corrective Measures Study Work Plan (applicable from 0 to 3 feet below ground surface).

³-Upper Limit of Means as determined by the Naval Activity Puerto Rico Background Report (Baker, 2006).

A yellow background indicates that the result was modified to the current result (some J qualified) during the data verification process based on quality control factors.

11-Bold text indicates the constituent was detected at the identified value above the original analytical method detection limit.

5J-Constituent estimated value below the analytical method detection limit.

ND (11)-Constituent not detected at the identified analytical method detection limit.

15 and **0.79J**-Blue text indicates that constituent values meet or exceed the EPA Screening Level for Residential soils.

150 and **0.52J**-Red text indicates that constituent values meet or exceed the EPA Screening Level for Industrial soils.

38 - Orange text indicates that constituent values meet or exceed the Table 5-1 Ecological Screening Values for Surface Soils and the Upper Limit of Means for Background Soils.

250 / **39J**-multi-value blocks represent detections of the low level PAH result followed by the SVOC result for constituents where the analytes are evaluated by both analyses.

N/A - Not Applicable.

ND (18.3)-Constituent detection limit exceeds one or more screening levels.

Nan-Not Analyzed.

Table C. Chemical Results for Ground Water Samples.

Sample ID	EPA Risk Tap Water ¹	Federal Drinking Water ²	Table 5-2 Ground Water ³	Up Limit of Means ⁴	73MW01	73MW01A	73MW02
Sample Date	Screening Level	MCL	Screening Level	(x+2s)	10-Apr-08	10-Apr-08	10-Apr-08
Volatile Organic Compounds (ug/l)							
Carbon disulfide	1,000	N/A	650	N/A	ND (1.4)	ND (1.5)	NAn
Toluene	2,300	1,000	37	N/A	ND (1.3)	ND (1.3)	NAn
SemiVolatile Organic Compounds (ug/l)							
Bis(2-ethylhexyl)phthalate (DEHP)	4.8	6	360	N/A	55	110	NAn
Dissolved Metals (ug/l)							
Antimony	15	6	500	11.19	ND (5)	ND (5)	ND (5)
Arsenic	0.045	10	36	14.03	ND (4)	ND (4)	35.1J
Barium	7,300	2,000	50,000	260	147J	154J	132J
Beryllium	73	4	310	5,400	ND (2)	ND (2)	ND (2)
Cadmium	18	5	8.85	36.42	ND (2)	ND (2)	12.8
Chromium	55,000	100	50.4	6.5	ND (4)	7.02	6.69
Cobalt	N/A	N/A	45	580.5	ND (4)	ND (4)	277
Copper	1,500	1,300/1,000	3.73	29	ND (5)	ND (5)	57.6
Lead	N/A	15	8.52	1.3	ND (4)	ND (4)	ND (4)
Mercury	0.63	2	1.11	0.157	ND (0.2)	ND (0.2)	ND (0.2)
Nickel	730	N/A	8.28	84.1	ND (10)	ND (10)	140
Selenium	180	50	71.1	23.92	ND (4)	18.8J	61.6J
Silver	180	100	0.23	3.67	ND (2)	ND (2)	5.98
Thallium	2.4	2	21.3	N/A	ND (4)	ND (4)	ND (4)
Tin	22,000	N/A	N/A	N/A	ND (0.2)	ND (0.2)	ND (0.2)
Vanadium	180	N/A	120	20.96	ND (5)	ND (5)	ND (5)
Zinc	11,000	5,000	85.6	360.64	7.65J	ND (5)	154J

¹-EPA Tap Water Regional Screening Levels for Chemical Contaminants at Superfund Sites.

²-US EPA Primary Maximum Allowable Concentration Level (MCL) in drinking water (Secondary Standards are shown in purple italics).

³-Screening Levels developed for Naval Activity Puerto Rico as shown in Table 5-2 of the Corrective Measures Study Work Plan.

⁴-Upper Limit of Means as determined by the Naval Activity Puerto Rico Background Report (Baker, 2006).

A yellow background indicates that the result was modified to the current result (some J qualified) during the data verification process based on quality control factors.

11-Bold text indicates the constituent was detected at the identified value above the original analytical method detection limit.

5J-Constituent estimated value below the analytical method detection limit.

ND (11)-Constituent not detected at the identified analytical method detection limit.

15 and 0.79J-Blue text indicates that constituent values meet or exceed the EPA MCL but less than the Tap Water screening level.

150 and 0.52J-Red text indicates that constituent values meet or exceeded the EPA MCL and Tap Water screening level.

3.3-Green text indicates that constituent values meet or exceed the Upper Limit of Means for Dissolved Metals, the Screening Level and MCL for drinking water, and is below the Table 5-2 Screening Values for Ground Water.

38-Orange text indicates that constituent values meet or exceed the Table 5-2 Ecological Screening Values for Ground Water and the Upper Limit of Means for Background Dissolved Metals.

250 / 39J-multi-value blocks represent detections of the low level PAH result followed by the SVOC result for constituents where the analytes are evaluated by both analyses.

N/A-Not Applicable.

ND (18.3)-Constituent detection limit exceeds one or more screening levels.

Nan-Not Analyzed.

Table D. Chemical Results for Investigative Derived Waste.

Sample ID	731DW-01	731DW-02
Matrix	Soil	Water
Benzene	ND (7 ug/kg)	ND (5 ug/l)
RCRA Metals	(mg/kg)	
Antimony	ND (0.99)	NAn
Arsenic	ND (0.39)	5.71J
Barium	290	733J
Cadmium	0.65	4.09
Chromium	31J	322
Cobalt	26J	NAn
Copper	270	NAn
Lead	19	39.9J
Nickel	10J	NAn
Selenium	ND (0.99)	ND (4)
Silver	ND (0.2)	ND (2)
Thallium	ND (0.39)	NAn
Vanadium	180J	NAn
Zinc	140	NAn
Mercury	ND (0.0158)	ND (0.2)

A yellow background indicates that the result was modified to the current result (some J qualified) during the data verification process based on quality control factors.

11-Bold text indicates the constituent was detected at the identified value above the original analytical method detection limit.

5J-Constituent estimated value below the analytical method detection limit.

ND (11)-Constituent not detected at the identified analytical method detection limit.

ND (18.3)-Constituent detection limit exceeds one or more screening levels.

Nan-Not Analyzed.

Table E. Chemical Results for Equipment Rinsate Samples.

Sample ID	73ER-01	73ER-02 (Hold)	73-ER-03	73ER-04	73ER-05 (Hold)	73ER-06	73ER-07
Date	31-Mar-08	1-Apr-08	1-Apr-08	2-Apr-08	3-Apr-08	7-Apr-08	10-Apr-08
Equipment Sampled	Shoe/sleeve/Al foil	Shoe/sleeve/Al foil	Vinyl gloves	Shoe/sleeve/Al foil	Shoe/sleeve/Al foil	Scoop/sleeve/shoe	GW sampling tubing
Volatile Organic Compounds (ug/l)							
1,1-Dichloroethene	0.3J	NAn	ND (0.5)	ND (0.5)	NAn	Lost Sample	0.4J
2-Butanone (MEK)	ND (5)	NAn	ND (5)	ND (5)	NAn	Lost Sample	ND (5)
Acetone	ND (5)	NAn	ND (5)	ND (5)	NAn	Lost Sample	ND (5)
Bromodichloromethane	ND (0.5)	NAn	ND (0.5)	ND (0.5)	NAn	Lost Sample	ND (0.5)
Carbon disulfide	ND (0.5)	NAn	ND (0.5)	ND (0.5)	NAn	Lost Sample	ND (0.5)
Chloroform	ND (0.5)	NAn	ND (0.5)	ND (0.5)	NAn	Lost Sample	ND (0.5)
Dibromochloromethane	ND (0.5)	NAn	ND (0.5)	ND (0.5)	NAn	Lost Sample	ND (0.5)
Ethylbenzene	ND (0.5)	NAn	ND (0.5)	ND (0.5)	NAn	Lost Sample	ND (0.5)
Styrene	ND (0.5)	NAn	0.1J	ND (0.5)	NAn	Lost Sample	ND (0.5)
Toluene	0.1J	NAn	1.9J	ND (0.5)	NAn	Lost Sample	2.8J
Vinyl chloride	ND (0.5)	NAn	ND (0.5)	ND (0.5)	NAn	Lost Sample	0.3J
SemiVolatile Organic Compounds and Low Level Polycyclic Aromatic Hydrocarbons (ug/l)							
1-Methylnaphthalene	0.014J	NAn	ND (0.053)	0.013J	NAn	Lost Sample	0.011J
2-Methylnaphthalene	0.03J	NAn	0.015J	0.022J	NAn	Lost Sample	0.022J
Acenaphthene	0.012J	NAn	ND (0.053)	ND (0.051)	NAn	Lost Sample	ND (0.048)
Bis(2-ethylhexyl)phthalate (DEHP)	3J	NAn	3J	ND (5)	NAn	Lost Sample	ND (5)
Naphthalene	0.075	NAn	0.062	0.045J	NAn	Lost Sample	0.057
Phenanthrene	0.01J	NAn	ND (0.053)	ND (0.051)	NAn	Lost Sample	ND (0.048)
Metals (ug/L)							
Silver	ND (2)	NAn	ND (2)	ND (2)	ND (2.66)	ND (2)	ND (2)
Zinc	ND (24.8)	NAn	ND (15.3)	ND (29.5)	ND (18.1)	ND (12.7)	18.9

A yellow background indicates that the result was modified to the current result (some J qualified) during the data verification process based on quality control factors.

11-Bold text indicates the constituent was detected at the identified value above the original analytical method detection limit.

5J-Constituent estimated value below the analytical method detection limit.

ND (11)-Constituent not detected at the identified analytical method detection limit.

Nan-Not Analyzed.

Table F. Chemical Results for Field Blanks.

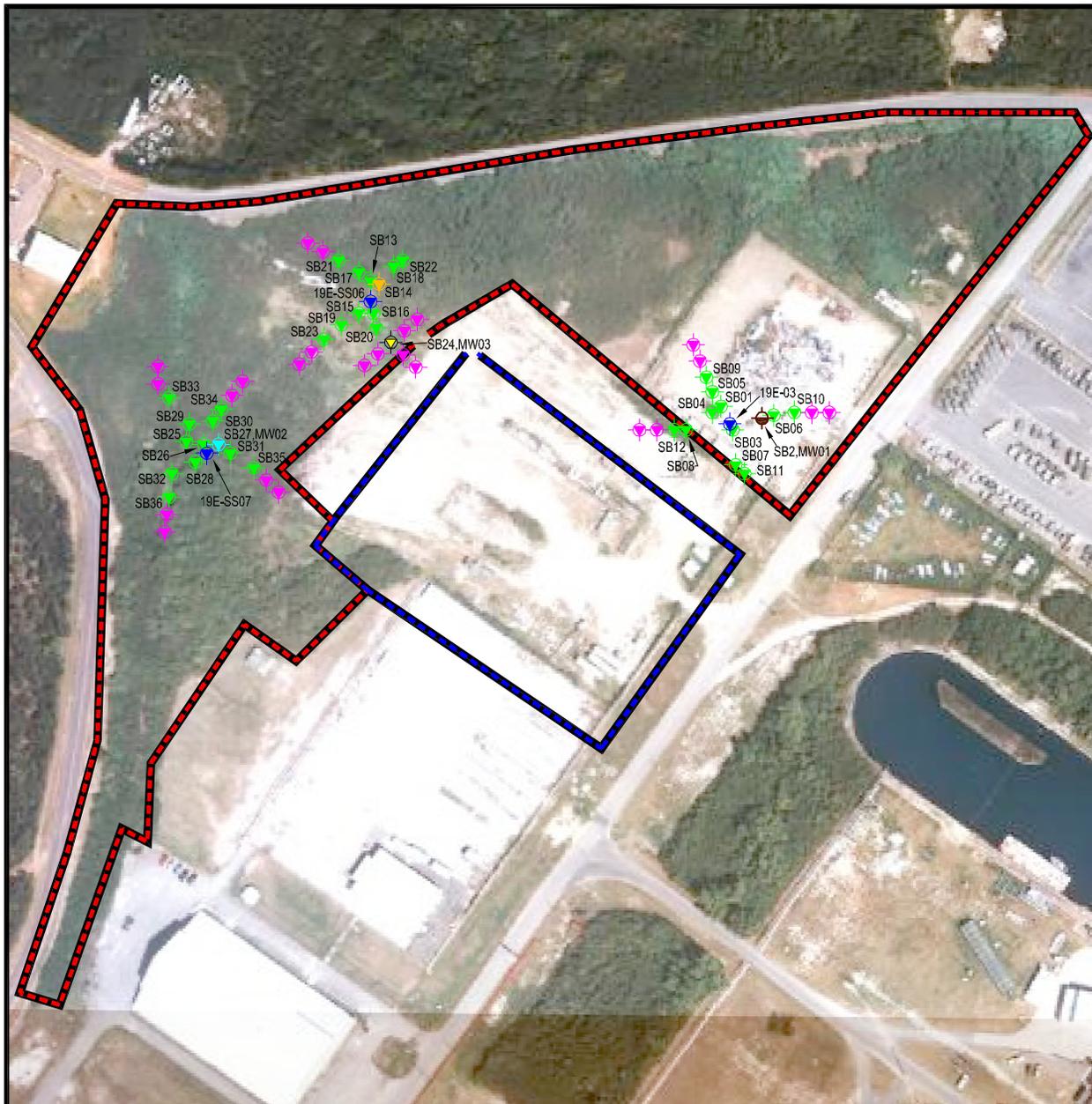
Sample ID	73FB-01	73FB-02	73FB-03	73FB-03A
Date	1-Apr-08	1-Apr-08	1-Apr-08	1-Apr-08
Water Type	Lab Grade Deionized	Distilled	NAPR Tap	NAPR Tap
Volatile Organic Compounds (ug/l)				
1,1-Dichloroethene	0.2J	ND (0.5)	ND (0.5)	ND (0.5)
2-Butanone (MEK)	ND (5)	ND (5)	ND (5)	ND (5)
Acetone	ND (5)	3.7J	3.1J	3.1J
Bromodichloromethane	ND (0.5)	ND (0.5)	12	12
Carbon disulfide	ND (0.5)	ND (0.5)	0.3J	0.2J
Chloroform	ND (0.5)	ND (0.5)	38	34
Dibromochloromethane	ND (0.5)	ND (0.5)	1.8	2.1
Ethylbenzene	ND (0.5)	0.1J	ND (0.5)	ND (0.5)
Styrene	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Toluene	0.2J	1.2J	ND (0.5)	ND (0.5)
Vinyl chloride	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
SemiVolatile Organic Compounds and Low Level Polycyclic Aromatic Hydrocarbons (ug/l)				
1-Methylnaphthalene	0.012J	ND (0.05)	ND (0.051)	ND (0.051)
2-Methylnaphthalene	0.021J	ND (0.05)	ND (0.051)	ND (0.051)
Acenaphthene	ND (0.051)	ND (0.05)	ND (0.051)	ND (0.051)
Bis(2-ethylhexyl)phthalate (DEHP)	ND (5)	ND (5)	ND (5)	ND (5)
Naphthalene	0.056	0.42	ND (0.051)	ND (0.051)
Phenanthrene	0.012J	ND (0.05)	ND (0.051)	ND (0.051)
Metals (ug/L)				
Barium	ND (5)	ND (5)	ND (5)	5.28
Copper	ND (5)	ND (5)	51.1	52.4
Zinc	ND (23.5)	ND (13.4)	40.5J	32.8J

A yellow background indicates that the result was modified to the current result (some J qualified) during the data verification process based on quality control factors.

11-Bold text indicates the constituent was detected at the identified value above the original analytical method detection limit.

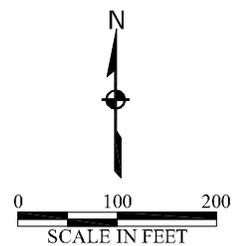
5J-Constituent estimated value below the analytical method detection limit.

ND (11)-Constituent not detected at the identified analytical method detection limit.



LEGEND

-  SB2.MW01 EXISTING SUBSURFACE SOIL AND SURFACE SOIL SAMPLE, EXISTING MONITORING WELL AND PROPOSED NEW SUBSURFACE SOIL SAMPLES
-  SB14 EXISTING SUBSURFACE SOIL AND SURFACE SOIL SAMPLE
-  SB24.MW03 EXISTING SURFACE SOIL SAMPLE AND PROPOSED SUBSURFACE SOIL SAMPLE AND PROPOSED MONITORING WELL
-  SB27.MW02 EXISTING SUBSURFACE AND SURFACE SOIL SAMPLE AND MONITORING WELL
-  PRIOR INVESTIGATION SAMPLE
-  EXISTING SURFACE SOIL SAMPLE
-  PROPOSED SURFACE SOIL SAMPLE
-  SWMU 73
-  SWMU 6



ENCLOSURE
EXISTING AND PROPOSED SAMPLE LOCATIONS
SWMU 73
CAMP MOSCRIP, PUERTO RICO

CREATED BY: G. LOGAN CREATION DATE: 30 JUN 2008 PROJECT NO: 38-EH-0995-08

FILE PATH: AMERICAS/PR/MOSCRIP/ProposedSurfaceSampLocs



