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DRAFT SUMMARY OF FINDINGS MEMORANDUM, OPERABLE UNIT 4, SITE 7

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HARDING LAWSON ASSOCIATES

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SUMMARY OF FINDINGS MEMORANDUM
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NAVAL STATION TREASURE ISLAND
HUNTERS POINT ANNEX
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1.0 INTRODUCTION

This Summary of Findings Memorandum (SFM) has been prepared by Harding Lawson Associates (HLA) under contract to PRC Environmental Management, Inc., on behalf of the Department of the Navy (Navy), Western Division (WESTDIV), Naval Facilities Engineering Command. The SFM was prepared under Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract N62474-88-D-5086, Contract Task Order 57, and pursuant to the requirements of the Federal Facility Agreement (FFA) for the Naval Station Treasure Island, Hunters Point Annex (HPA), dated September 27, 1990. As stated in the FFA, ". . . the Navy shall prepare a Summary of Findings Memorandum (SFM) summarizing the analytical field data, the Navy's evaluation of the data, and any recommendations for revisions to the Sampling Plan (including the need to conduct contingent sampling and/or extend the schedule)."

This SFM presents the results of the primary phase of the remedial investigation (RI) of the Sub-Base Area (IR-7), Hunters Point Annex, San Francisco, California (Plates 1 and 2). Field work and analytical testing were completed as specified in the *Work Plan, Volume 2D, Sampling Plan, Group IV Site* (*HLA, 1988b*) in accordance with the protocols outlined in the *Work Plan, Volume 3, Quality Assurance Project Plan* (QAPjP) (*HLA, 1988a*). The objectives of this report are to: (1) summarize and evaluate the hydrogeologic and chemical data from the primary phase investigation; (2) identify potential data gaps; and (3) prepare recommendations for obtaining the necessary data to complete the RI, if needed.

As part of the Navy's Installation Restoration (IR) program, remedial investigation activities are planned or are currently being conducted at 18 sites at HPA.

The IR sites have been grouped into five Operable Units (OUs). The Sub-Base Area is designated as Site IR-7, and comprises OU IV.

1.1 Remedial Investigation Phased Approach

As described in the work plan (*HLA, 1988b*), the RI at this site is being conducted in three phases: reconnaissance phase (Phase I), primary phase (Phase II), and contingency phase (Phase III). Phase I was completed in February 1989, and the results were presented in a draft report to the regulatory agencies in August 1990 (*HLA, 1990a*). Although the RI work plan proposed that primary phase work be completed in one phase, primary phase work (Phase II) was conducted in two phases, Phases IIA and IIB. The U.S. Environmental Protection Agency (EPA), the California Department of Toxic Substances Control (DTSC), and the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) agreed to the two-phase approach during a meeting on November 7, 1990.

Phase IIA field activities, which included soil, intertidal sediment, and groundwater sampling, were completed in December 1990. Preliminary data from Phase IIA were used in selecting soil boring locations and recommending changes to the field and analytical program for Phase IIB. The results and recommendations for Phase IIB sampling program were presented in the draft data submittal dated July 1, 1991 (*HLA, 1991a*). The data submittal was sent to the regulatory agencies (EPA, DTSC, and RWQCB) before beginning Phase IIB field activities. The agencies verbally approved the recommendations for the Phase IIB sampling program on July 5, 1991. A summary of field activities performed during Phases I, IIA, and IIB is presented in Table 1.

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1.2 Hydrogeology of Hunters Point Annex

Six geologic units underlie HPA, the oldest unit of which is bedrock of the Franciscan Assemblage. In general, the stratigraphic sequence of these units, from top to bottom, is as follows: artificial fill (Qaf); slope debris or ravine fill (Qsr); undifferentiated upper sands (Quus); Bay mud deposits (Qbm); undifferentiated sedimentary deposits (Qu); and Franciscan Assemblage (bedrock). The Franciscan Assemblage at HPA includes sandstone (KJs), shale (KJsk), chert (KJc), greenstone (KJg), and serpentinite (sp). The bedrock is overlain in some low-lying areas by undifferentiated sedimentary deposits of consolidated sands and clays, which are in turn overlain by a relatively extensive Bay mud unit consisting of soft, highly organic, plastic clay and silt with interbedded lenses of sand and peat. In some areas of HPA, the Bay mud is overlain by poorly graded sands and silty sands, which may be native or hydraulically deposited from dredging operations. These sands are designated as the undifferentiated upper sand unit. In most areas of HPA, artificial fill has been placed over the Franciscan bedrock, the Bay mud, or the undifferentiated upper sand unit. This artificial fill consists of two types of material: (1) bedrock-derived fill from upland areas of HPA and (2) industrial fill consisting of sandblast materials, industrial waste including construction debris, and some domestic waste. Colluvial deposits, referred to as slope debris or ravine fill by Bonilla (*1971*), may also be present locally above the Franciscan bedrock, the Bay mud, or the undifferentiated upper sand unit. Slope debris and native ravine fill are difficult to differentiate from bedrock-derived fill. Detailed descriptions of geologic units at Hunters Point are presented in Appendix A.

Two aquifers have been defined at HPA: the uppermost aquifer (A-aquifer) and the undifferentiated aquifer (B-aquifer). The A-aquifer is defined as saturated fill

materials and undifferentiated upper sand deposits that overlie the Bay mud deposits. The A-aquifer is generally unconfined to semiconfined with depths to groundwater ranging from 2 to 15 feet below ground surface (bgs). The B-aquifer consists of undifferentiated sedimentary deposits overlying the Franciscan bedrock. Only limited data are currently available on the B-aquifer. The Franciscan bedrock is not included in either the A- or B-aquifer and has not been designated an aquifer zone.

These two aquifers are separated by Bay mud deposits over the majority of the facility. The Bay mud deposits, which range from less than 5 feet to approximately 60 feet in thickness where present, act as an aquitard between the two aquifers.

Groundwater flow directions at HPA are complex due to the heterogeneity in the hydraulic properties of subsurface fill materials, tidal influences, effects of sewer systems, and variations in topography. Preliminary data indicates that groundwater flow in the southern part of HPA is generally inland as the result of what appears to be groundwater infiltration into the sanitary sewer system. Consequently, saline Bay water appears to recharge the fill materials which comprise the A-aquifer along the southern waterfront. Groundwater flow in the area north of the upland bedrock ridge in the center of HPA, including Site IR-7, is generally outward from the bedrock toward the Bay. In some areas, based on a limited number of observations, local groundwater flow directions have been observed to vary temporally with tidal fluctuation and localized groundwater recharge (inferred) from storm events.

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2.0 SITE BACKGROUND

An initial assessment study identified Site IR-7 as a location where hazardous wastes may have been historically disposed or spilled. The assessment was based on available records, interviews, and an onsite survey of activities (*Westec, 1984*). Site IR-7, approximately a 9-acre site (Plate 2), was subdivided as a result of this study into three areas which consist of the following:

- The Painting Area - An area used for painting submarine superstructures. Suspect compounds include zinc chromate-based paint and diesel fuel. The area is asphalt paved and contains one building and above and below ground fuel tanks and associated piping.

- The Sandblast Fill Area - An area allegedly used as a disposal site for sandblast waste generated from the Painting Area. Suspect contaminants within sandblast material include metals, paint scrapings, and possibly radioactive material. The southern portion of this area is asphalt paved.

- The Additional Area - Portions of this area may have been used for disposal of sandblast waste and possibly of waste liquids/oils on the ground surface associated with the adjacent Triple A site (PA-18). Most of this area is asphalt paved.

2.1 Previous Investigations

As part of the Verification Step of the IR program, EMCON conducted an investigation of Site IR-7 which included the drilling of 12 soil borings, 6 of which were converted to monitoring wells, and the collection of 54 soil samples and 6 groundwater samples (Plate 2). These samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SOCs), total petroleum hydrocarbons (TPH) as gasoline and diesel, metals, and asbestos (*EMCON, 1987a,b*). 1,1,1-Trichloroethane (TCA), trichlorofluoroethane, 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113), polynuclear aromatic hydrocarbons (PNAs), TPH as diesel, and chrysotile asbestos were detected in soil samples collected during the EMCON investigation. Metals, including lead and nickel, were also detected at elevated

concentrations in soil samples. No analytes, except for metals, were detected in groundwater samples from the wells.

2.2 Reconnaissance Phase (Phase I) Investigation

The Phase I activities performed at Site IR-7 included a surface scintillation survey, ground penetrating radar (GPR) profiling, test pit excavation, and one pilot boring (*HLA, 1990a*). Results of the surface scintillation survey showed surface radiation levels to be within natural background levels for HPA and the San Francisco Bay Area. Each of the four GPR profiles (IR07GP01, -02, -03, and -04), three of which were on Site PA-18, indicated a subsurface lithology change which, at that time, suggested a sandblast material boundary in the Additional Area (Plate 2). Five test pits (IR07T01A, -B, -C, and IR07T02A, -B) were excavated on Site PA-18 adjacent to two of the GPR profile locations to evaluate the nature of the underlying lithologies and whether sandblast materials were present. Two of the test pits (IR07T01A and IR07T02B) encountered possible sandblast material at a depth of 3.5 to 4.5 feet. One pilot boring (IR07B031) was drilled to a total depth of 63 feet in the Additional Area; fill material, Bay mud deposits, undifferentiated sedimentary deposits, and weathered serpentinite bedrock were encountered (Plate 2).

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3.0 PRIMARY PHASE SAMPLING ACTIVITIES

3.1 Field Activities

During Phases IIA and IIB of the RI performed by HLA, 31 soil borings were drilled with hollow-stem augers. Borings generally were drilled to depths at which either Bay mud deposits or bedrock was encountered. Depths of borings ranged from 14.5 to 51 feet bgs. Soil samples were collected at depths of approximately 1.5 and 3.5 feet, at 5-foot intervals from 5 to 20 feet bgs, and every 10 feet thereafter to the total depth of each boring. Six of the borings were completed as 4-inch-diameter PVC-cased monitoring wells. Three rounds of groundwater samples have been collected for the 12 monitoring wells onsite (the 6 new wells and the 6 wells previously installed); chemical data from only the first two rounds are presented in this report because results from the third round have not, as yet, been received from the laboratory. Four intertidal sediment samples also were collected. Eight additional test pits were excavated by backhoe to minimum depths of 6 feet.

Primary phase field activities, performed in two phases (Phases IIA and IIB), are summarized below and in Table 1.

Primary Phase IIA Activities

- Drilling of 15 soil borings: IR07B002, -06, -07, -09, -10, -12, -18, -22, -24; and IR07MW19A, -20A1, -20A2, -21A1, -21A2, and -23A (Plate 2 and Appendix B).
- Collection of 82 soil samples from soil borings.
- Completion of 6 borings as groundwater monitoring wells in the uppermost aquifer, including two sets of cluster wells (Table 2 and Plate 2).
- Collection of groundwater elevation data and groundwater samples (first round) from 12 monitoring wells.
- Collection of 4 intertidal surface sediment samples: IR07SS26, -27, -28, and -29 (Plate 2).

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Primary Phase IIB Activities

- Drilling of 16 soil borings: IR07B001, -03, -04, -05, -08, -11, -13, -14, -15, -16, -17, -25, -30, -32, -33, and -34 (Plate 2 and Appendix B).
- Collection of 111 soil samples from soil borings, including 10 for physical testing and 101 for chemical testing.
- Collection of groundwater elevation data and groundwater samples (second and third rounds) from 12 monitoring wells.
- Excavation of 8 test pits: IR07TA05A, -05B, -06, -07, -08A, -08B, -09A, and -09B (Plate 2 and Appendix C). No soil samples were collected because no obvious contamination was observed.

3.2 Analytical Program

A total of 183 soil samples (82 from Phase IIA and 101 from Phase IIB), 4 intertidal surface sediment samples, and 36 groundwater samples (3 rounds from 12 wells; not including QA/QC samples) were submitted for chemical analyses. Samples were analyzed for TPH as gasoline and diesel (excluding soil samples below the groundwater table), total oil and grease (TOG; only soil and sediment at or above groundwater), Contract Laboratory Program (CLP) VOCs, CLP SOCs, CLP pesticides and polychlorinated biphenyls (PCBs) (excluding soil samples below the groundwater table), CLP metals including molybdenum, hexavalent chromium, pH (soil/sediment only), anions/cations (first round groundwater only), and total dissolved solids (TDS; third round groundwater only). No soil, intertidal sediment, or groundwater samples were submitted for radiation analyses because field screening of samples indicated that gamma and beta radiation levels did not exceed three standard deviations above background levels, in accordance with the OU IV Sampling Plan (*HLA, 1988b*). The Navy's surface radiation survey which includes IR-7 is currently being implemented and the results will

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be reported separately before the RI report. Analytical methods used for chemical laboratory analyses are listed in Appendix D.

Ten soil samples were submitted for physical testing. Tests included sieve analysis, moisture content, bulk density (wet and dry), specific gravity, porosity, organic content, and permeability. Methods used for physical testing are listed in Appendix D.

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4.0 SITE HYDROGEOLOGY

This section describes the geology and hydrogeology at Site IR-7. Geologic units at Hunters Point are described in Section 1.2 and in Appendix A.

4.1 Geology

Cross sections A-A′ and B-B′ (Plates 3 and 4) depict the subsurface geology encountered at Site IR-7. Plate 2 shows the cross section locations; Plate 5 provides an explanation of lithologic symbols shown on the cross sections.

Of the six geologic units discussed in Section 1.2, four geologic units have been identified within the upper 67 vertical feet at Site IR-7. The units identified at IR-7 are, from top to bottom: (1) bedrock-derived fill (Qaf), which ranges in thickness from approximately 5 to 50 feet; (2) Bay mud deposits (Qbm), which range in thickness from 0 to approximately 20 feet; (3) undifferentiated sedimentary deposits (Qu), which range in thickness from 0 to approximately 6 feet; and (4) the serpentinite subunit of the Franciscan Assemblage (sp [*Bonilla, 1971*]). Variable amounts of wood debris, brick and ceramic fragments, asphalt debris, metal debris, and possible sandblast material occur in localized areas within the bedrock-derived fill.

Possible sandblast material was encountered in 7 borings at depths ranging from 4 to 21 feet bgs. This material consists of 90 to 100 percent relatively well sorted fine- to medium-grained sand. This type of sand appears to be non-native to HPA because native sands and/or artificial materials derived from native sediments are generally much darker in color. Possible sandblast material encountered at Site IR-7 did not contain paint chips that would indicate it was used for sandblasting operations.

The lower portion of the bedrock-derived fill materials identified in the Painting Area may represent, in part, a fifth geologic unit--colluvial deposits referred to

as ravine fill deposits by Bonilla (*1971*); the presence of colluvial deposits may account for the absence of Bay mud deposits in this area. Undifferentiated upper sands (Quus), a sixth geologic unit, have also been locally identified within the bedrock-derived fill. Ravine fill deposits and undifferentiated upper sands are not distinguished from bedrock-derived fill on the cross sections because they are not readily distinguished from each other and/or they generally cannot be correlated between borings.

Bay mud deposits have generally not been encountered in the southern portion of the Additional Area where the bedrock surface is topographically higher and is overlain directly by fill material (Plate 4), and in the Painting Area where fill directly overlies bedrock (Plate 3). Bay mud deposits are underlain by undifferentiated sedimentary deposits in the northwestern and western portions of Site IR-7. Bedrock encountered at Site IR-7 is primarily weathered serpentinite. The bedrock surface slopes toward the Bay away from the bedrock high that crops out in the upland areas of HPA.

4.2 Hydrogeology

The A-aquifer at Site IR-7 consists primarily of bedrock-derived fill material (and, to a lesser extent, ravine fill and undifferentiated upper sands) over less permeable bedrock or Bay mud deposits. The aquifer thickness ranges from approximately 0 to 40 feet thick. Groundwater has been measured in A-aquifer wells at Site IR-7 between approximately 6 and 15 feet bgs (Table 3). The lower aquifer (B-aquifer) at IR-7 consists of undifferentiated sedimentary deposits overlying the Franciscan bedrock in the northwestern portion of the site.

All wells at IR-7 are screened in the upper 3 to 17 feet of the A-aquifer, except for the two deep cluster wells (IR07MW20A2 and -21A2), which are screened in the lower 5 feet of the A-aquifer, and Well IR07MWS-1, located upgradient of the site,

which is screened in the upper 11 feet of the weathered serpentinite bedrock. No wells have been constructed in the B-aquifer at IR-7. Well construction details are presented in Table 2. Groundwater flow in the A-aquifer at Site IR-7 is generally north toward the Bay (Plate 6).

Preliminary data from the tidal influence monitoring program indicate that tidal influence at the site is significant along the shoreline (up to 3 feet in IR07MW20A1) and is minimal further inland (IR07MW23A). Preliminary data suggests that groundwater flow along the shoreline is inland during periods of high tides and toward the Bay during periods of low tides.

Water levels measured in cluster wells screened in the A-aquifer indicate a downward vertical gradient in the A-aquifer in the northeastern area (IR07MW20A1 and -20A2) and the northwestern area (IR07MW21A1 and -21A2) of the site (Plate 6). These downward vertical gradients are maintained during tidal fluctuations.

Water levels measured in Site IR-7 wells between December 1990 and November 1991 show a maximum variation in groundwater elevations across the site of 1.76 (November 25, 1991) to 4.53 feet (April 1, 1991) (Table 3); these variations in groundwater levels may reflect the influence of both seasonal groundwater recharge and tidal fluctuations.

Groundwater has been encountered in Monitoring Well IR07MWS-1, screened in weathered serpentinite bedrock within 150 feet of the Site IR-7 boundary. Vertical hydraulic gradients between the bedrock and overlying fill cannot be evaluated at Well IR07MWS-1 because the fill materials are unsaturated at this location. No other wells have been screened in the bedrock at or near Site IR-7.

Slug tests were performed on 10 wells at Site IR-7 during the Phase I aquifer testing program (*HLA, 1991c*). Nine wells, screened within clay to gravel fill have hydraulic conductivities ranging from 4.79×10^{-1} to 2.32×10^{2} ft/day. The estimated hydraulic conductivity of weathered serpentinite bedrock, as measured at Well IR07MWS-1, ranged from 4.40 to 4.70 ft/day. Additional aquifer testing, including step-drawdown and constant-rate discharge and recovery testing, will be performed as described in the Phase I aquifer testing report (*HLA, 1991c*). Results from these aquifer tests will be presented in the OU IV RI report.

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5.0 ANALYTICAL RESULTS

Analytical results from all soil, groundwater, and intertidal sediment samples are summarized in Tables 4 through 8. Tables 4 and 5 present the number of soil samples with detected, nondetected, and rejected values along with minimum and maximum chemical concentrations for each analyte. Table 6 compares the detected inorganics to background levels. Tables 7 and 8 present the number of groundwater samples with detected, nondetected, and rejected values along with minimum and maximum chemical concentrations for each analyte. Table 9 presents measurements of field indicator parameters for groundwater samples, and Tables 10 and 11 compare detected chemicals in groundwater samples to regulatory action levels.

A complete listing of analytical results for all detected analytes with laboratory-assigned and cursory validation qualifiers is presented in Appendix E.. Tables E-1 and E-2 present organic and inorganic soil and intertidal sediment chemistry data, respectively, and Tables E-3 and E-4 present organic and inorganic groundwater data, respectively. Chemical analytes not detected in any samples are not presented in these tables. Physical testing results are summarized in Table 12; results for sieve analysis and permeability are presented in Appendix F.

A significant number of soil, intertidal sediment, and groundwater samples collected at Site IR-7 during Phase IIA field activities exceeded allowable holding times established by the EPA for TPH, VOCs, SOCs, pesticides, and PCBs. As a result, a number of the analytical results were either rejected if holding times were grossly exceeded for nondetect data and assigned a R qualifier; estimated if holding times were only slightly exceeded for nondetect data; or, if analytes were detected, data were qualified as estimates and assigned a J qualifier indicating the value is an estimate. A

complete explanation of data qualifiers is provided at the end of each table in Appendix E.

5.1 Soil and Intertidal Sediment Chemistry Results

This section presents soil chemistry results for samples collected from soil borings and intertidal sediment sampling locations. Chemical results are summarized below for six general groups of compounds/constituents. Soil and intertidal sediment chemistry results are summarized in Tables 4 and 5 and presented in Tables E-1 and E-2 (Appendix E).

5.1.1 Total Petroleum Hydrocarbons (TPH) as Gasoline and Diesel

TPH as gasoline (gasoline) was detected in 4 soil samples from 2 borings at concentrations ranging from 6.6 to 27 mg/kg in the Sandblast Fill Area and the Additional Area. TPH as diesel (diesel) was detected in 14 soil samples from 10 borings at concentrations ranging from 44 to 2200 mg/kg. TPH as extractable unknown hydrocarbon (EUH) was detected in 9 soil samples from 5 borings at concentrations ranging from 12 to 470 mg/kg. The distribution of diesel and EUH in soil is presented on Plate 7, which shows the maximum concentration of TPH detected in all soil samples collected at each borehole; the distribution of diesel is also shown in cross sections on Plates 8 and 9. Diesel and EUH were found in soil throughout the site.

Gasoline was detected from 2.25 to 6.25 feet bgs. Diesel was detected in soil samples from 1.75 to 6.25 feet bgs and EUH was detected in soil samples from 1.75 to 11.25 feet bgs.

5.1.2 Total Oil and Grease (TOG)

TOG was detected in 55 soil samples in 23 borings at concentrations ranging from 33 to 27,000 mg/kg and in 3 intertidal sediment samples at concentrations ranging

from 750 to 18,900 mg/kg (Table 4 and Table E-1). The distribution of TOG in soil is shown on Plates 7, 8, and 9. TOG concentrations were detected from depths of less than 1 foot to 11.75 feet bgs (Table E-1). The highest TOG concentrations (>5,000 mg/kg) are present in intertidal sediment samples (IR07SS27 and IR07SS29) and in Borings IR07B001 (10.25 feet bgs), IR07B002 (3.25 feet bgs), IR07B012 (4.25 feet bgs), and IR07B033 (4.25 feet bgs). Although these highest concentrations (excluding intertidal sediment samples) appear to be in localized areas in the southwestern portion of the Sandblast Fill Area and in the western portion of the Additional Area, relatively high TOG concentrations (>1,000 mg/kg) are distributed throughout Site IR-7.

5.1.3 CLP Semivolatile Organic Compounds (SOCs)

One class of SOCs, the polynuclear aromatic hydrocarbons (PNAs), were detected in 45 soil samples from 17 borings and in 1 intertidal sediment sample (IR07SS28) (Table 4 and Table E-1). The distribution of total PNAs are shown on Plates 7, 8, and 9. All PNAs detected in a sample were summed to obtain the total PNA concentration and have been presented in these plates in units of mg/kg for consistency with the units presented for the TPH and TOG analyses.

The highest total PNA concentrations (>10 mg/kg) were detected in Boring IR07B033 at 1.75 feet bgs (32.67 mg/kg), Boring IR07MW21A2 at 5.62 feet bgs (17.50 mg/kg), and Boring IR07B001 at 20.75 feet bgs (10.45 mg/kg). Total PNA were detected primarily within the artificial fill throughout both the Sandblast Fill Area and Additional Area. The vertical distribution of PNAs has generally been defined across the site with the exception of three boring locations; PNAs were detected in the bottom-most sample in Borings IR07B002 at 20.75 feet, IR07B015 at 31.75 feet, and IR07B032

at 21.25 feet. PNAs have also been detected in weathered serpentinite bedrock (IR07B002 at 20.75 feet) and Bay mud deposits (IR07B001 at 20.75 feet).

Other detected SOCs included dibenzofuran, 4-methyl phenol, n-nitroso dipropyl amine, n-nitrosodiphenyl amine, benzoic acid, and phthalate compounds. Dibenzofuran was detected in 3 shallow soil samples (<4 feet deep) from 3 borings at concentrations ranging from 47 to 68 μg/kg. All results were qualified by the laboratory with a J, indicating that these data are estimated. 4-methylphenol, n-nitrosodipropylamine, and benzoic acid were detected in 1 soil sample each at concentrations of 42, 790, and 294.83 μg/kg, respectively. N-nitrosodiphenylamine was detected in 6 soil samples at concentrations ranging from 170 to 2300 μg/kg. Phthalate compounds were detected at concentrations from 260 to 1000 μg/kg in soil samples. Since phthalates are common laboratory contaminants and were identified in laboratory blanks, the detection of phthalate compounds in several soil samples may be related to laboratory contamination.

5.1.4 CLP Volatile Organic Compounds (VOCs)

Methyl ethyl ketone was detected in 17 soil samples at concentrations ranging from 3 to 35.36 μg/kg and carbon disulfide was detected in 19 soil samples from 1 to 14 μg/kg (Table 4). These compounds may represent laboratory contaminants.

Toluene was detected in 18 soil samples at concentrations ranging from 1 to 52 μg/kg. Thirteen of these samples from Phase IIA may represent field contamination because toluene-containing electrical tape was used to seal samples during Phase IIA. Toluene has also been identified by some laboratories as a common laboratory contaminant.

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Chloroform (36 μg/kg) was detected in one sample from Boring IR07MW21A2. 1,1-Dichloroethene (3.76 μg/kg in 1 sample), 1,1,1-trichloroethane (3 μg/kg in 1 sample), trichloroethene (2 μg/kg in 2 samples), benzene (2 to 3 μg/kg in 2 samples), bromoform (1 μg/kg in 1 sample), methyl isobutyl ketone (7.18 to 11 μg/kg in 3 samples), 2-hexanone (6.12 to 13.18 μg/kg in 2 samples), chlorobenzene (1 to 2 μg/kg in 2 samples), and xylenes (2 to 4 μg/kg in 2 samples) were detected in soil samples from 8 borings and in 1 sediment sample at low concentrations (Table 4 and Table E-1). The distribution of VOCs is shown on Plate 10.

5.1.5 CLP Pesticides/PCBs

Pesticides were detected in 18 soil samples from 11 borings (Table E-1). The distribution of pesticides is shown on Plate 11. The most frequently detected analyte was 4,4-DDT with concentrations ranging from 4.5 to 540 μg/kg (Table 4). Pesticides (aldrin 4,4'-DDE, dieldrin, endrin, 4,4'-DDD, 4,4'-DDT, and methoxychlor) were detected at depths between 1.75 and 10.25 feet bgs throughout the Sandblast Fill Area and Additional Area, including Boring IR07B022 at the PA-18 site (Table E-1). The maximum concentrations for pesticides detected in each boring were within the upper 7 feet of the surface.

The PCB mixture Aroclor-1260 was detected in 3 soil samples from 2 borings (IR07B011 and -25) and in 1 intertidal sediment sample (IR07SS26) at concentrations ranging from 62 to 340 μg/kg. PCBs were detected from 0.5 (intertidal sediment sample) to 3.75 feet bgs in both the Sandblast Fill Area and the Additional Area (Plate 11 and Table E-1).

5.1.6 Inorganic Constituents

Table 5 provides a statistical summary of the inorganic compounds detected (Table E-2), including the minimum and maximum detected concentrations. All soil samples were grouped by lithology and selected metal concentrations were then compared to preliminary lithology-specific background levels established in the *Background Sampling Plan* (*HLA, 1990b*). Soil samples obtained from Bay mud deposits, undifferentiated sedimentary deposits, and intertidal sediment samples, which represent lithologies not evaluated in the Background Sampling Plan, were evaluated by comparison of detected values with the preliminary background levels for nonserpentinite fill. Table 6 presents the range of background levels for the different lithologies and the number of borings and sediment sample locations in which concentrations exceeded preliminary background levels. Table 6 also presents, for comparison, the Total Threshold Limit Concentration (TTLC). Arsenic, lead, and nickel were found at concentrations above the TTLC in 1, 5, and 19 samples, respectively. All other detected metals were below the TTLC.

Lead, zinc, barium, arsenic, copper, and cadmium were detected above background levels in 29, 21, 17, 12, 12, and 11 borings, respectively (Table 6). Other metals were detected above background levels in less than 8 borings. The distribution of the four priority pollutant metals most frequently detected above background (arsenic, copper, lead, and zinc) are shown on Plates 12, 13, and 14 (map view and cross sections). The highest concentrations (>1000 mg/kg) of lead were detected in Boring IR07B001 at 16.25 feet bgs (2480 mg/kg), IR07B011 at 21.25 feet bgs (2480 mg/kg), IR07B012 at 4.25 feet (1520 mg/kg), IR07B016 at 16.25 feet (4544.38 mg/kg) and in one sediment sample (IR07SS27 at 1300 mg/kg); lead was detected above background levels throughout the site at varying depths. The highest

concentrations of zinc (>500 mg/kg) were detected in Boring IR07B003 at 3.75 feet (660 mg/kg), IR07B009 at 3.75 feet (514 mg/kg), IR07B010 at 7.62 feet (736 mg/kg), and in one sediment sample (IR07SS27 at 1560 mg/kg). Relatively high concentrations of arsenic and copper were also detected in the Painting Area in soil samples from Borings IR07B017 and 18 between approximately 30 and 40 feet bgs.

Hexavalent chromium was detected in 3 out of 180 samples at concentrations ranging from 140 to 410 μg/kg. Soil pH ranged from 6.4 to 11.4.

5.2 Groundwater Chemistry Results

This section presents groundwater chemistry results for the first two rounds of groundwater sampling at Site IR-7. Three groundwater sampling rounds have been performed to date, on: (1) December 1990, (2) July 1991, and (3) December 1991. Only the results of the first two rounds of sampling are presented in this SFM because laboratory results for the third round are not available at the time of this report preparation. The results of the third round of sampling will be presented in the RI report for OU IV.

Chemical results are summarized below for five general groups of compounds/constituents. Groundwater chemistry results are summarized in Tables 7 and 8 and presented in Tables E-3 and E-4 (Appendix E). Measurements of field indicator parameters (i.e., pH, turbidity, temperature, electrical conductivity, and alkalinity) are summarized in Table 9.

5.2.1 TPH as Gasoline and Diesel

No TPH as gasoline or diesel was detected in groundwater samples from either round of groundwater sampling.

5.2.2 CLP SOCs

No SOCs were detected in groundwater samples from either round of groundwater sampling.

5.2.3 CLP VOCs

Vinyl acetate, 2-hexanone, and 1,1,2,2-tetrachloroethane were detected in one groundwater sample collected from Well IR07MW21A1 at 2, 4, and 1 μg/L, respectively, during the second round of sampling (Table 7 and Table E-3). These compounds were not detected in groundwater samples collected from any other IR-7 well or in the sample obtained from the same well during the first round of groundwater sampling.

Toluene was detected in one groundwater sample collected from IR07MWP-1 at 1 μg/L during the first round of sampling (Table 7 and Table E-3). Also, 1,1,1-trichloroethane was detected in one groundwater sample collected from IR07MWS-4 at 1 μg/L during the first round of sampling (Table 7 and Table E-3). Neither toluene or 1,1,1-trichloroethane was detected in groundwater samples collected from any other IR-7 wells or in duplicate samples or in the samples obtained from the same wells during the second round. Both toluene and 1,1,1-trichloroethane were detected at concentrations well below current or proposed EPA Maximum Contaminant Levels (MCLs) and state MCLs (Table 10). 1,1,2,2-tetrachloroethane was detected in one sample at a concentration of 1 μg/L, which is equivalent to the state MCL (Table 10).

5.2.4 CLP Pesticides/PCBs

No pesticides or PCBs were detected in groundwater samples from either round of groundwater sampling.

5.2.5 Inorganic Constituents

Table 8 presents a statistical summary of inorganics detected in groundwater, including minimum and maximum values. Inorganic constituents detected in

groundwater have been compared to current and proposed EPA MCLs and state MCLs for drinking water to evaluate groundwater quality at IR-7 (Table 11).

Lead, thallium, antimony, barium, beryllium, and chromium were detected above either current or proposed EPA MCLs and/or state MCLs in 2, 1, 3, 2, 1, and 1 groundwater samples, respectively (Table E-4). Concentrations of these metals did not exceed these levels in groundwater samples collected from the same monitoring wells during the other groundwater sampling round. No hexavalent chromium was detected in samples from any well. Numerous detections of iron, manganese, chloride, and sulfate were above state secondary drinking water MCLs (Table 11).

Nickel exceeded proposed EPA MCLs in samples collected from 7 wells during both sampling rounds (IR07MW20A2, -P-1, -P-2, -S-1, -S-2, -S-3, and -S-4) and in one sample collected from one well (IR07MW20A1) (Table E-4).

Calcium was detected above 100 mg/L in samples from all wells except for all samples from upgradient Wells IR07MW23A and -S-1 and for one sample from Well IR07MW21A1. Magnesium and sodium were detected above about 100 mg/L in all samples from Site IR-7 wells (Table E-4). Chloride was detected above 200 mg/L in all samples from Site IR-7 wells.

5.3 Physical Testing Results

This section presents the results of physical testing of selected soil samples from soil borings at Site IR-7. A summary of physical testing results for 10 soil samples is presented on Table 12.

All samples were collected from the artificial fill materials with the exception of a silt sample which was collected from the Bay mud (Qbm) and a clayey sand sample which was apparently collected from the undifferentiated sedimentary deposits (Quus).

Five of the soil samples were disturbed during sampling as a result of gravel in the samples. Consequently, these 5 samples could only be analyzed for grain size determination (i.e., sieve analysis) and organic content.

Sieve analyses resulted in the classification of the remaining five samples as sandy low plasticity (lean) clay, silt, and clayey sand (Appendix F). Moisture contents for the 5 samples ranged from 16.2 to 57.2 percent by weight and dry bulk densities ranged from 66.0 to 115.6 pounds per cubic foot. Porosity values ranged from 34 percent for the clayey sand sample to 61 percent for the silt sample. Vertical permeability values ranged from 4.73×10^{-7} centimeters per second (cm/sec) (1.34×10^{-3} feet/day) for one of the sandy low plasticity (lean) clay samples to 2.18×10^{-8} cm/sec (6.18×10^{-5} feet/day) for the other sandy low plasticity (lean) clay sample. Specific gravity values ranged from 2.7 to 2.8.

Organic content for the 10 samples ranged from 1.05 to 3.93 percent with the highest value associated with the silt sample collected from the Bay mud.

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6.0 DISCUSSION OF CHEMICAL RESULTS

6.1 Soil and Intertidal Sediment Chemical Data

6.1.1 Organic Constituents

Throughout IR-7, TPH, TOG, and PNAs within the artificial fill materials are apparently randomly distributed with no definite sources of contamination and/or hot spots. As presented on Plates 7, 8, and 9, these constituents are found throughout IR-7 in nearly all borings at concentrations that generally do not indicate proximity to a source. In addition, groundwater was not contaminated with these compounds. This suggests that the volume of surface-related releases of these contaminants was limited; these constituents may have been incorporated into the fill prior to or during emplacement of the fill.

PNAs were found within the deepest sample in three borings and in weathered serpentinite bedrock and Bay mud deposits. As discussed above, the presence of PNAs in fill materials may be related to original contamination of the fill and/or to contamination that occurred during emplacement. One possible explanation for the occurrence of PNA compounds found in native Bay mud sediments and in weathered serpentinite bedrock is that anthropogenic contamination occurred prior to filling of the site. For example, the high concentration (10 mg/kg) of total PNA found within Bay mud in Boring IR07B001 at about 20.75 bgs (2.5 feet below the contact with the artificial fill) may be related to the deposition of fine-grained sediment contaminated with PNAs.

Relatively low concentrations of organochlorine pesticides (aldrin, dieldrin, 4,4'-DDE, endrin, 4,4'-DDD, 4,4'-DDT, and methoxychlor) were identified in soil at concentrations ranging from 2.6 to 540 μg/kg. Generally, the highest values for these chemicals are found at shallow depths, less than about 7 feet. These compounds may

have been sprayed on the surface for insect control prior to paving of the site and subsequently leached into the underlying soil.

6.1.2 Inorganic Constituents

Plates 15 and 16 present plots of concentration versus depth for arsenic and copper, and lead and zinc, respectively, for all soil and intertidal sediment samples collected from Site IR-7. These metals are the four priority pollutant metals most frequently detected above preliminary background levels (Section 5.1.6). Evaluation of the vertical distribution of arsenic and copper show no obvious site-wide trends in concentration with depth (Plate 12); the range of observed values is generally consistent throughout the soil profile. Analytical results for soil samples from individual borings throughout the site (Plates 13 and 14, and Table E-2) show no obvious trends in arsenic and copper concentration with depth. The absence of greater concentrations at shallow depths suggests that surface-related releases do not account for the observed vertical distribution of arsenic and copper. The high concentrations of arsenic in Boring IR07B017 at 31.25 (929.06 mg/kg) feet and copper and in Borings IR07B017 and IR07B018 at 31.25 (2025.63 mg/kg) feet and 40.25 (897 mg/kg) feet, respectively, are anomalous and may be statistical outliers. In the case of copper, they may be related, in part, to the possible presence of copper wire as identified in fill materials in the nearby Boring IR07B016.

In contrast, lead and zinc are generally found, on a site-wide basis, at higher concentrations at depths less than about 20 to 25 feet (Plate 16). Higher lead and zinc values appear to be randomly distributed within the upper 25 feet of the fill materials across the site. However, individual borings (Plates 13 and 14, and Table E-2) do not show distinctly higher lead and zinc concentrations at the shallowest depths relative to

deeper samples within the same boring. This suggests that although higher lead and zinc values may be found within the upper 25 feet of the fill materials on a site-wide basis, localized surface-related releases do not appear to account for the observed vertical distribution of lead and zinc. Instead, the high concentrations of lead and zinc in shallow soil samples may be indicative of previous contamination of the fill materials prior to or during emplacement and/or anthropogenic inputs of lead and zinc.

As presented in Table 6 and discussed in Section 5.1.6, arsenic, lead, and nickel were found at concentrations above the TTLC in 1, 5, and 19 soil samples, respectively. The one high arsenic value at 929.06 mg/kg is anomalous and may be a statistical outlier; the high lead values may be related to contamination other than surface-related releases, as discussed above. The high nickel values above the TTLC are most likely due to the presence of native nickel-rich serpentinite materials in the soil samples. Most high nickel values are found in samples associated with serpentinite materials identified in boring logs (Table E-2 and Appendix B). The draft Background Sampling Plan (*HLA, 1990b*) has identified high nickel concentrations in serpentinite bedrock and serpentinite fill materials at values that are above the TTLC.

Comparison of the lead concentrations in soil (Plates 12, 13, and 14) to TPH, TOG, and total PNA concentrations (Plates 7, 8 and 9) do not, in general, indicate a relationship between these contaminants. For example, the high values of lead found in borings IR07B001, IR07B011, IR07B012, and IR07B016 do not generally appear to be associated with high levels of TPH, TOG, and PNAs. This suggests that the distribution and presence of lead may be unrelated to the presence of petroleum-related compounds such as TPH, TOG, and PNAs.

"Possible" sandblast materials described in Section 4.1 contained zinc, chromium, copper, and lead at concentrations ranging from 42.1 to 247 mg/kg, 26.8 to 302 mg/kg, 13.3 to 258 mg/kg, and 5.7 to 459 mg/kg, respectively. These metals, presumed to be common constituents of paint wastes, are found at concentrations that are not significantly elevated relative to other non-sandblast fill materials encountered at the site. This suggests that possible sandblast materials have not been contaminated with metal-containing paint.

6.2 Groundwater Chemical Data

Groundwater chemistry results indicate that nickel exceeded the proposed EPA MCL of 100 μg/L in groundwater samples collected from both rounds in seven wells and in one well in one sampling round. The high nickel concentrations in groundwater may be related to the occurrence of serpentinite bedrock and serpentinite-containing fill materials in which the wells are screened.

Several other metals (lead, thallium, antimony, barium, beryllium, and chromium) were infrequently detected above MCLs in groundwater samples from one of the sampling rounds. Iron, manganese, chloride, and sulfate were frequently detected above secondary MCLs in both sampling rounds. The presence of these compounds, including nickel, may be related to the native groundwater quality conditions associated with the recharge of saline bay water and the lithology of artificial fill materials and native geologic materials.

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7.0 SUMMARY OF FINDINGS

This section summarizes the findings of primary phase investigations at Sites IR-7 relative to the specific objectives of this report.

As stated in Section 1.0, the objectives of this report are to: (1) summarize and evaluate hydrogeologic and chemical data from the primary phase investigation; (2) identify potential data gaps; and (3) prepare recommendations for obtaining additional data, if needed, to complete the RI. The following sections specifically address these objectives.

7.1 Summary of Hydrogeologic and Chemical Data

Hydrogeologic and chemical data collected during the primary phase RI investigation at IR-7 were presented in Sections 4.0 and 5.0 of this report and were discussed in Section 6.0. A summary of findings relative to the evaluation of hydrogeologic and chemical data are presented below:

- The uppermost aquifer (A-aquifer) at IR-7 consists of the saturated fill materials overlying the Franciscan bedrock or Bay mud deposits. Groundwater flow in the A-aquifer at IR-7 is generally from inland areas toward the Bay. Preliminary data indicate that tidal influence on groundwater levels at IR-7 is significant along the shoreline and is minimal further inland.

- The lower aquifer (B-aquifer) at IR-7 consists of undifferentiated sedimentary deposits overlying the Franciscan bedrock in the northwestern portion of the site.

- No wells have been installed in the B-aquifer at IR-7 because no groundwater contamination has been observed in the overlying A-aquifer.

- Possible sandblast materials encountered in borings, wells, and trenches at IR-7 do not appear to be associated with sandblasting operations due to the lack of observable paint chips in these materials. Soil chemistry results also indicate that these materials do not contain elevated levels of metals or other constituents relative to other artificial fill materials at IR-7.

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- Organic and inorganic constituents were observed in soil and intertidal sediment samples throughout IR-7. The presence of these constituents is apparently random, unrelated to surficial releases associated with past site activities (i.e., painting and sandblasting), and may be related, in part, to the contamination of the fill materials prior to or during emplacement.

- No organic compounds were consistently detected in groundwater samples from two consecutive sampling rounds.

- Numerous detections of inorganic constituents above MCLs may be related to native groundwater quality conditions associated with recharge of saline bay water and the lithology of artificial fill materials and/or native geologic materials.

7.2 Potential Data Gaps

Potential data gaps identified during the evaluation of data presented in this report are as follows:

- Phase I aquifer testing results may not be indicative of aquifer hydraulic properties due to the limited reliability of slug test data in relatively permeable sediments.

- The influence of tides on groundwater flow directions and flow velocities in the A-aquifer has not yet been defined.

- The presence of certain VOCs at low concentrations in groundwater samples is uncertain, given that these VOCs were not consistently detected in duplicate groundwater samples or consecutive rounds of groundwater sampling.

- Background and anthropogenic levels of TPH, TOG, PNAs, and metals in the artificial fill materials and native geologic sediments have not yet been defined at IR-7 or at the HPA facility. Consequently, it is uncertain if the lateral and vertical extent of these constituents has been defined to background or anthropogenic levels.

7.3 Recommendations

The implementation of the following recommendations is intended to fill the potential data gaps presented above.

- Implement Phase II aquifer testing to provide more reliable estimates of aquifer hydraulic properties. The scope of Phase II aquifer testing is described conceptually in the Aquifer Testing Work Plan (*HLA, 1991b*)

and in detail in the Phase I Aquifer Testing report (*HLA, 1991c*). Phase II aquifer testing will be implemented after agency concurrence on the proposed scope of work is received.

- Continue implementation of Tidal Influence Monitoring Plan (*PRC, 1991*) to evaluate the effect of tidal influences on groundwater flow.

- Complete laboratory analyses of third round of groundwater sampling to verify the presence or absence of VOCs previously detected in groundwater samples. The third round of groundwater samples were collected from monitoring wells at IR-7 in December, 1991. Results are pending.

- Complete Background Sampling Study in accordance with the Background Sampling Plan (*HLA, 1990b*) to develop facility-wide anthropogenic and background levels for PNAs and metals within the fill materials and native geologic sediments at HPA. The results of this study will be compared to observed soil and groundwater chemistry data from IR-7 in the IR-7 RI report. The Background Sampling Study is currently in progress; results for the Phase II background data analysis will be available in March, 1992.

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8.0 SCHEDULE

The OU IV RI program will be completed in accordance with the schedule submitted by the Navy to the regulatory agencies on June 7, 1991, and approved by the regulatory agencies on July 18, 1991. This schedule requires the submittal of the Draft RI report on or before July 17, 1992.

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9.0 REFERENCES

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TABLES

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Table 1. Field Activities Completed During OU IV RI Phases
Sub Base Area (IR-7)
Hunters Point Annex

Field Activity	Reconnaissance Phase I	Primary Phase IIA	Primary Phase IIB
Test Pits	IR07T01A IR07T01B IR07T01C IR07T02A IR07T02B	NONE	IR07TA05A IR07TA05B IR07TA06 IR07TA07 IR07TA08A IR07TA08B IR07TA09A IR07TA09B
Intertidal Sediment Samples	NONE	IR07SS26 IR07SS27 IR07SS28 IR07SS29	NONE
Soil Borings	IR07B031	IR07B002 IR07B006 IR07B007 IR07B009 IR07B010 IR07B012 IR07B018 IR07B022 IR07B024	IR07B001 IR07B003 IR07B004 IR07B005 IR07B008 IR07B011 IR07B013 IR07B014 IR07B015 IR07B016 IR07B017 IR07B025 IR07B030 IR07B032 IR07B033 IR07B034
Monitoring Wells	NONE	IR07MW19A IR07MW20A1 IR07MW20A2 IR07MW21A1 IR07MW21A2 IR07MW23A	NONE

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Table 2. Well Construction Details
Sub-Base Area (IR-7), Hunters Point Annex

Well Number	Borehole Diameter (inches)	Well Diameter (inches)	Total Depth of Well (feet)	Top of Casing Elevation (feet AMSL)	Screen Interval (feet BTOC)	Sandpack Interval (feet BTOC)	Seal Interval (feet BTOC)	Lithologic Unit Screened
IR07MW19A	12	4	15.5	9.60	5.5-15.5	4-15.5	3-4	Qaf
IR07MW20A1	12	4	23.6	9.65	5.6-23.6	4.1-23.6	2.6-4.1	Qaf
IR07MW20A2	12	4	43	9.23	38-43	36-43	34-36	Qaf
IR07MW21A1	12	4	17.5	14.65	7.5-17.5	5.5-17.5	4.5-5.5	Qaf
IR07MW21A2	12	4	35.5	14.42	30.5-35.5	29-35.5	26.5-29	Qaf
IR07MW23A	12	4	16.4	15.76	6.4-16.4	4.2-16.4	2.2-4.2	Qaf
* IR07MWP-1	8	2	19	9.87	4-19	2.5-19	1.5-2.5	Qaf
* IR07MWP-2	8	2	18.7	9.77	3.7-18.7	2.2-18.7	1.2-2.2	Qaf
* IR07MWS-1	8	2	17.6	10.25	4.6-17.6	3.6-17.6	2.6-3.6	sp (weathered)
* IR07MWS-2	8	2	20	9.13	2.5-17.5	1.5-30.5	0.5-1.5	Qaf
* IR07MWS-3	8	2	19.4	9.75	4.4-19.4	2.9-19.4	1.9-2.9	Qaf
* IR07MWS-4	8	2	21	13.22	6-21	4-32.5	3-4	Qaf

BTOC Below Top of Casing
AMSL Above Mean Sea Level
Qaf Bedrock-Derived Fill
sp Serpentinite Bedrock
* Emcon Wells, (Emcon, 1987b) Volume 2, Appendix E

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Table 3. Historical Water Levels
Sub-Base Area (IR-7)
Hunters Point Annex

Well Number/ Date Measured	Time Measured	Ground Surface Elevation (feet MSL)	Depth to Water (feet below ground surface)	Top of Casing Elevation (feet MSL[1])	Depth to Water (feet below TOC[2])	Water Level Elevation (feet MSL)
IR07MW19A						
12/14/90	10:29	10.13	7.58	9.60	7.05	2.55
1/17/91	10:08	10.13	9.53	9.60	9.00	0.60
4/1/91	8:56	10.13	10.42	9.60	9.89	-0.29
7/30/91	7:30	10.13	9.06	9.60	8.53	1.07
9/3/91	9:30	10.13	9.81	9.60	9.28	0.32
11/25/91	12:01	10.13	8.85	9.60	8.32	1.28
IR07MW20A1						
12/14/90	10:32	10.06	7.09	9.65	6.68	2.97
4/1/91	9:22	10.06	9.08	9.65	8.67	0.98
7/25/91	10:00	10.06	10.24	9.65	9.83	-0.18
9/3/91	11:13	10.06	8.85	9.65	8.44	1.21
11/25/91	12:10	10.06	8.11	9.65	7.75	1.90
IR07MW20A2						
12/14/90	10:37	10.23	11.46	9.23	10.46	-1.23
4/1/91	9:13	10.23	10.66	9.23	9.66	-0.43
7/29/91	10:30	10.23	9.44	9.23	8.44	0.79
9/3/91	9:00	10.23	9.68	9.23	8.68	0.55
11/25/91	12:11	10.23	9.35	9.23	8.35	0.88
IR07MW21A1						
12/14/90	10:49	13.09	11.20	14.65	12.76	1.89
4/1/91	10:08	13.09	10.91	14.65	12.47	2.18
7/29/91	8:30	13.09	11.52	14.65	13.08	1.57
9/3/91	10:27	13.09	11.68	14.65	13.24	1.41
11/25/91	12:55	13.09	11.40	14.65	12.96	1.69
IR07MW21A2						
12/14/90	10:51	12.89	11.33	14.42	12.86	1.56
4/1/91	10:17	12.89	10.72	14.42	12.25	2.17
7/25/91	9:15	12.89	11.49	14.42	13.02	1.40
9/3/91	10:55	12.89	11.67	14.42	13.20	1.22
11/25/91	12:24	12.89	11.32	14.42	12.85	1.57
IR07MW23A						
12/14/90	10:52	16.40	14.61	15.76	13.97	1.79
1/17/91	9:40	16.40	14.76	15.76	14.12	1.64
4/1/91	10:31	16.40	13.02	15.76	12.38	3.38
7/26/91	7:30	16.40	14.59	15.76	13.95	1.81
9/3/91	9:50	16.40	14.84	15.76	14.20	1.56
11/25/91	12:21	16.40	14.61	15.76	13.97	1.79

Table 3. Historical Water Levels
Sub-Base Area (IR-7)
Hunters Point Annex
(continued)

Well Number/ Date Measured	Time Measured	Ground Surface Elevation (feet MSL)	Depth to Water (feet below ground surface)	Top of Casing Elevation (feet MSL[1])	Depth to Water (feet below TOC[2])	Water Level Elevation (feet MSL)
IR07MWP-1						
12/14/90	10:35	9.85	8.37	9.87	8.39	1.48
1/17/91	9:50	9.85	8.22	9.87	8.24	1.63
4/1/91	9:23	9.85	7.17	9.87	7.19	2.68
7/30/91	10:00	9.85	7.76	9.87	7.78	2.09
9/3/91	9:22	9.85	7.97	9.87	7.99	1.88
11/25/91	11:59	9.85	7.57	9.87	7.59	2.28
IR07MWP-2						
12/14/90	10:41	10.04	7.49	9.77	7.22	2.55
1/17/91	10:00	10.04	9.49	9.77	9.22	0.55
4/1/91	9:06	10.04	10.26	9.77	9.99	-0.22
7/30/91	11:30	10.04	10.19	9.77	9.92	-0.15
9/3/91	9:10	10.04	9.80	9.77	9.53	0.24
11/25/91	12:04	10.04	7.80	9.77	7.53	2.24
IR07MWS-1						
12/14/90	10:45	10.63	8.12	10.25	7.74	2.51
4/1/91	9:49	10.63	6.53	10.25	6.15	4.10
7/29/91	13:30	10.63	7.78	10.25	7.40	2.85
9/3/91	10:40	10.63	7.93	10.25	7.55	2.70
11/25/91	11:55	10.63	7.99	10.25	7.61	2.64
IR07MWS-2						
12/14/90	10:44	9.68	8.46	9.13	7.91	1.22
4/1/91	9:30	9.68	8.08	9.13	7.53	1.60
7/26/91	10:30	9.68	8.07	9.13	7.52	1.61
9/3/91	8:50	9.68	8.33	9.13	7.78	1.35
11/25/91	11:57	9.68	8.00	9.13	7.45	1.68
IR07MWS-3						
12/14/91	11:00	10.31	8.26	9.75	7.70	2.05
4/1/91	10:20	10.31	8.39	9.75	7.83	1.92
7/26/91	9:00	10.31	8.69	9.75	8.13	1.62
9/3/91	8:30	10.31	8.81	9.75	8.25	1.50
11/25/91	12:34	10.31	8.31	9.75	7.75	2.00

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Table 3. Historical Water Levels
Sub-Base Area (IR-7)
Hunters Point Annex
(continued)

Well Number/ Date Measured	Time Measured	Ground Surface Elevation (feet MSL)	Depth to Water (feet below ground surface)	Top of Casing Elevation (feet MSL[1])	Depth to Water (feet below TOC[2])	Water Level Elevation (feet MSL)
IR07MWS-4						
12/14/90	10:58	13.25	11.37	13.22	11.34	1.88
4/1/91	10:12	13.25	11.06	13.22	11.03	2.19
7/25/91	12:30	13.25	11.82	13.22	11.79	1.43
9/3/91	8:35	13.25	12.00	13.22	11.97	1.25
11/25/91	12:29	13.25	11.53	13.22	11.50	1.72

1 MSL = Mean Sea Level adjusted to the 1929 standard
2 TOC = Top of Casing

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Table 4
Statistical Summary of Organic Compounds Detected in Soil and Intertidal Sediment Samples
Sub-Base Area, Site IR-7, Hunters Point Annex

Test Method/ Analyte Name	Number of Samples Analyzed	Number of Samples With Analyte Detected	Number of Samples With Analyte Not Detected	Number of Samples With Analyte Rejected	Units	Minimum Detected Value	Maximum Detected Value
CLP-VOC							
Chloromethane	187	0	104	83			
Bromomethane	187	0	104	83			
Vinyl chloride	187	0	104	83			
Chloroethane	187	0	104	83			
Methylene chloride	187	0	183	4			
Acetone	187	0	162	25			
Carbon disulfide	187	19	91	77	ug/kg	1.00	14.00
1,1-Dichloroethene	187	1	103	83	ug/kg	3.76	3.76
1,1-Dichloroethane	187	0	104	83			
1,2-Dichloroethene (total)	187	0	104	83			
Chloroform	187	1	104	82	ug/kg	36.00	36.00
1,2-Dichloroethane	187	0	104	83			
Methyl ethyl ketone	187	17	105	65	ug/kg	3.00	35.36
1,1,1-Trichloroethane	187	1	104	82	ug/kg	3.00	3.00
Carbon tetrachloride	187	0	104	83			
Vinyl acetate	187	0	104	83			
Bromodichloromethane	187	0	104	83			
1,2-Dichloropropane	187	0	104	83			
cis-1,3-Dichloropropene	187	0	104	83			
Trichloroethene	187	2	102	83	ug/kg	2.00	2.00
Dibromochloromethane	187	0	104	83			
1,1,2-Trichloroethane	187	0	104	83			
Benzene	187	2	118	67	ug/kg	2.00	3.00
trans-1,3-Dichloropropene	187	0	104	83			
Bromoform	187	1	103	83	ug/kg	1.00	1.00
Methyl isobutyl ketone	187	3	102	82	ug/kg	7.18	11.00
2-Hexanone	187	2	102	83	ug/kg	6.12	13.18
Tetrachloroethene	187	0	104	83			
Toluene	187	18	138	31	ug/kg	1.00	52.00
1,1,2,2-Tetrachloroethane	187	0	105	82			
Chlorobenzene	187	2	102	83	ug/kg	1.00	2.00
Ethyl benzene	187	0	104	83			
Styrene	187	0	104	83			
Xylenes	187	2	102	83	ug/kg	2.00	4.00
CLP-SOC							
Phenol	187	0	134	53			
Bis(2-chloroethyl)ether	187	0	134	53			
2-Chlorophenol	187	0	134	53			
1,3-Dichlorobenzene	187	0	134	53			
1,4-Dichlorobenzene	187	0	134	53			
Benzyl alcohol	187	0	134	53			
1,2-Dichlorobenzene	187	0	134	53			
2-Methylphenol	187	0	134	53			
Bis(2-chloroisopropyl)ether	187	0	134	53			
4-Methylphenol	187	1	133	53	ug/kg	42.00	42.00
n-Nitrosodipropylamine	187	1	133	53	ug/kg	790.00	790.00
Hexachloroethane	187	0	134	53			
Nitrobenzene	187	0	134	53			
Isophorone	187	0	134	53			
2-Nitrophenol	187	0	134	53			
2,4-Dimethylphenol	187	0	134	53			
Benzoic acid	187	1	133	53	ug/kg	294.83	294.83
Bis(2-chloroethoxy)methane	187	0	134	53			

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Table 4
Statistical Summary of Organic Compounds Detected in Soil and Intertidal Sediment Samples
Sub-Base Area, Site IR-7, Hunters Point Annex

Test Method/ Analyte Name	Number of Samples Analyzed	Number of Samples With Analyte Detected	Number of Samples With Analyte Not Detected	Number of Samples With Analyte Rejected	Units	Minimum Detected Value	Maximum Detected Value
2,4-Dichlorophenol	187	0	134	53			
1,2,4-Trichlorobenzene	187	0	134	53			
Naphthalene	187	10	124	53	ug/kg	40.00	3500.00
4-chloroaniline	187	0	134	53			
Hexachlorobutadiene	187	0	134	53			
4-Chloro-3-methylphenol	187	0	134	53			
2-Methylnaphthalene	187	14	120	53	ug/kg	36.00	8600.00
Hexachlorocyclopentadiene	187	0	134	53			
2,4,6-Trichlorophenol	187	0	134	53			
2,4,5-Trichlorophenol	187	0	134	53			
2-Chloronaphthalene	187	0	134	53			
2-Nitroaniline	187	0	134	53			
Dimethyl phthalate	187	1	134	52	ug/kg	870.00	870.00
Acenaphthylene	187	0	134	53			
2,6-Dinitrotoluene	187	0	134	53			
3-Nitroaniline	187	0	134	53			
Acenaphthene	187	5	129	53	ug/kg	40.00	1000.00
2,4-Dinitrophenol	187	0	134	53			
4-Nitrophenol	187	0	134	53			
Dibenzofuran	187	3	131	53	ug/kg	47.00	68.00
2,4-Dinitrotoluene	187	0	134	53			
Diethyl phthalate	187	4	131	52	ug/kg	260.00	750.00
4-chlorophenyl phenylether	187	0	134	53			
Fluorene	187	3	131	53	ug/kg	59.00	1900.00
4-Nitroaniline	187	0	133	53			
2-Methyl-4,6-dinitrophenol	187	0	134	53			
n-Nitrosodiphenylamine	187	6	131	50	ug/kg	170.00	2300.00
4-Bromophenylphenylether	187	0	134	53			
Hexachlorobenzene	187	0	134	53			
Pentachlorophenol	187	0	134	53			
Phenanthrene	187	33	102	52	ug/kg	43.00	8900.00
Anthracene	187	7	127	53	ug/kg	36.00	580.00
Di-n-butylphthalate	187	0	154	33			
Fluoranthene	187	27	108	52	ug/kg	37.00	3200.00
Pyrene	187	34	103	50	ug/kg	40.00	5200.00
Butylbenzylphthalate	187	0	135	52			
3,3-Dichlorobenzidine	187	0	134	53			
Benzo(a)anthracene	187	20	115	52	ug/kg	37.00	1900.00
Chrysene	187	32	104	51	ug/kg	36.00	2700.00
Bis(2-ethylhexyl)phthalate	187	0	169	18			
Di-n-octylphthalate	187	1	133	53	ug/kg	1000.00	1000.00
Benzo(b)fluoranthene	187	19	116	52	ug/kg	37.00	1100.00
Benzo(k)fluoranthene	187	11	123	53	ug/kg	45.00	1500.00
Benzo(a)pyrene	187	16	118	53	ug/kg	41.00	1900.00
Indeno(1,2,3-cd)pyrene	187	6	128	53	ug/kg	44.00	480.00
Dibenzo(a,h)anthracene	187	2	132	53	ug/kg	37.00	91.00
Benzo(ghi)perylene	187	8	126	53	ug/kg	50.00	570.00
CLP-PEST/PCB							
alpha-BHC	113	0	79	34			
beta-BHC	113	0	79	34			
delta-BHC	113	0	79	34			
gamma-BHC	113	0	79	34			
Heptachlor	113	0	79	34			
Aldrin	113	3	77	33	ug/kg	2.60	14.00

Table 4
Statistical Summary of Organic Compounds Detected in Soil and Intertidal Sediment Samples
Sub-Base Area, Site IR-7, Hunters Point Annex

Test Method/ Analyte Name	Number of Samples Analyzed	Number of Samples With Analyte Detected	Number of Samples With Analyte Not Detected	Number of Samples With Analyte Rejected	Units	Minimum Detected Value	Maximum Detected Value
Heptachlor epoxide	113	0	79	34			
Endosulfan I	113	0	79	34			
Dieldrin	113	1	79	33	ug/kg	34.60	34.60
4,4'-DDE	113	7	74	32	ug/kg	2.90	540.00
Endrin	113	1	79	33	ug/kg	6.60	6.60
Endosulfan II	113	0	79	34			
4,4'-DDD	113	6	74	33	ug/kg	3.60	245.00
Endosulfan sulfate	113	0	79	34			
4,4'-DDT	113	12	69	32	ug/kg	4.50	540.00
Methoxychlor	113	1	78	34	ug/kg	470.00	470.00
Endrin ketone	113	0	79	34			
alpha-Chlordane	113	0	79	34			
gamma-Chlordane	113	0	79	34			
Toxaphene	113	0	79	34			
Aroclor-1016	113	0	79	34			
Aroclor-1221	113	0	79	34			
Aroclor-1232	113	0	79	34			
Aroclor-1242	113	0	79	34			
Aroclor-1248	113	0	79	34			
Aroclor-1254	113	0	79	34			
Aroclor-1260	113	4	76	33	ug/kg	62.00	340.00
TPH DIESEL							
TPH-Diesel	113	14	99	0	mg/kg	44.00	2200.00
TPH-Extractable Unknown Hyd	46	9	37	0	mg/kg	12.00	470.00
TPH GAS							
TPH-Gasoline	113	4	96	13	mg/kg	6.60	27.00
TPH-Purgeable Unknown Hydr	46	0	46	0			
OIL & GREASE							
Total Oil & Grease	111	58	53	0	mg/kg	0.06	27000.00

ug/kg - micrograms per kilogram
mg/kg - milligrams per kilogram

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Table 5
Statistical Summary of Inorganic Compounds Detected in Soil and Intertidal Sediment Samples
Sub-Base Area, Site IR-7, Hunters Point Annex

Test Method/ Analyte Name	Number of Samples Analyzed	Number of Samples With Analyte Detected	Number of Samples With Analyte Not Detected	Number of Samples With Analyte Rejected	Units	Minimum Value Detected	Maximum Value Detected
CLP-CVAA							
Mercury	187	63	124	0	mg/kg	0.10	1.90
CLP-FUAA							
Arsenic	187	153	34	0	mg/kg	0.59	929.06
Lead	80	80	0	0	mg/kg	0.72	1520.00
Selenium	187	6	181	0	mg/kg	0.50	11.46
Thallium	187	0	187	0			
CLP-ICP							
Aluminum	187	187	0	0	mg/kg	269.00	49200.00
Antimony	187	9	172	6	mg/kg	3.80	77.20
Barium	187	173	14	0	mg/kg	2.80	1490.00
Beryllium	187	97	90	0	mg/kg	0.13	1.70
Cadmium	187	77	110	0	mg/kg	0.50	8.00
Calcium	187	183	4	0	mg/kg	316.01	28400.00
Chromium	187	187	0	0	mg/kg	15.60	1300.00
Cobalt	187	187	0	0	mg/kg	5.10	197.00
Copper	187	184	3	0	mg/kg	2.69	2025.63
Iron	187	187	0	0	mg/kg	8910.00	75300.00
Lead	107	86	21	0	mg/kg	1.27	4544.38
Magnesium	187	187	0	0	mg/kg	1600.00	228500.00
Manganese	187	187	0	0	mg/kg	109.00	8490.00
Nickel	187	187	0	0	mg/kg	24.40	3550.63
Potassium	187	151	36	0	mg/kg	152.00	4920.00
Silver	187	53	134	0	mg/kg	0.07	2.90
Sodium	187	147	40	0	mg/kg	67.20	6730.00
Vanadium	187	187	0	0	mg/kg	11.00	113.00
Zinc	187	187	0	0	mg/kg	13.87	1560.00
Molybdenum	187	3	184	0	mg/kg	2.20	3.30
EPA-7196							
Chromium VI	180	3	173	4	ug/kg	140.00	410.00
EPA-9045							
pH	187	187	0	0	pH	6.40	11.40

ug/kg - micrograms per kilogram
mg/kg - milligrams per kilogram

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Table 6. Comparison of Inorganic Compounds Detected in Soil and Intertidal Sediment Samples with Preliminary Background Levels and Total Threshold Limit Concentrations Sub-Base Area (IR-7)

Test Method/ Analyte Name	Number of Analyses	Number of Detected Values	Range of Background Concentrations (mg/kg)	Detected Concentrations Max Value (mg/kg)	Detected Concentrations Min Value (mg/kg)	Numbers of Borings and Sediment Sample Locations in Which Concentrations Exceeded Background	Total Threshold Limit Concentration (wet weight) (mg/kg)
CLP-METALS	187						
Aluminum		187	NA	49,200	269	NA	NE
Antimony		9	NA	77.2	3.8	NA	500
Arsenic		153	2.7 - 7	929.06	0.59	12	500
Barium		173	185 - 220	1490	2.8	17	10,000
Beryllium		97	1.0 - 1.2	1.7	0.13	8	75
Cadmium		77	2.1 - 2.9	8	0.5	11	100
Calcium		183	NA	28,400	316.01	NA	NE
Chromium		187	800 - 2100	1,300	15.6	1	2,500
Cobalt		187	120 - 200	197	5.1	1	8,000
Copper		184	70 - 120	2025.63	2.69	12	2,500
Iron		187	55,000 - 70,000	75,300	8,910	6	NE
Lead		166	4 - 28	4544.38	0.72	29	1,000
Magnesium		187	NA	228,500	1,600	NA	NE
Manganese		187	1,250 - 3,520	8,490	109	5	NE
Mercury		63	NA	1.9	0.1	NA	20
Nickel		187	2,400 - 6,400	3550.63	24.4	2	2,000
Potassium		151	NA	4,920	152	NA	NE
Selenium		6	NA	11.46	0.5	NA	100
Silver		5	NA	2.9	0.07	NA	500
Sodium		147	NA	6,730	67.2	NA	NE
Vanadium		187	60 - 90	113	11	7	2,400
Zinc		187	73 - 100	1,560	13.87	21	5,000
Molybdenum		3	NA	3.3	2.2	NA	3,500
EPA Method 7196	180						
Chromium VI		3	NA	0.41	0.14	NA	500

Max Value = Maximum concentration detected in any soil or sediment sample analyzed for inorganics.

Min Value = Minimum concentration detected above detection limits in any soil or sediment sample analyzed for inorganics.

NA = No background level has been proposed.

NE = Not established.

Table 7
Statistical Summary of Organic Compounds Detected in Groundwater Samples
Sub-Base Area, Site IR-7, Hunters Point Annex

Test Method/ Analyte Name	Number of Samples Analyzed	Number of Samples With Analyte Detected	Number of Samples With Analyte Not Detected	Number of Samples With Analyte Rejected	Units	Minimum Detected Value	Maximum Detected Value
CLP-VOC							
Chloromethane	33 *	0	16	17			
Bromomethane	33	0	16	17			
Vinyl chloride	33	0	16	17			
Chloroethane	33	0	16	17			
Methylene chloride	33	0	30	3			
Acetone	33	0	24	9			
Carbon disulfide	33	0	16	17			
1,1-Dichloroethene	33	0	16	17			
1,1-Dichloroethane	33	0	16	17			
1,2-Dichloroethene (total)	33	0	16	17			
Chloroform	33	0	16	17			
1,2-Dichloroethane	33	0	16	17			
Methyl ethyl ketone	33	0	16	17			
1,1,1-Trichloroethane	33	1	16	16	ug/L	1.00	1.00
Carbon tetrachloride	33	0	16	17			
Vinyl acetate	33	1	15	17	ug/L	2.00	2.00
Bromodichloromethane	33	0	16	17			
1,2-Dichloropropane	33	0	16	17			
cis-1,3-Dichloropropene	33	0	16	17			
Trichloroethene	33	0	16	17			
Dibromochloromethane	33	0	16	17			
1,1,2-Trichloroethane	33	0	16	17			
Benzene	33	0	16	17			
trans-1,3-Dichloropropene	33	0	16	17			
Bromoform	33	0	16	17			
Methyl isobutyl ketone	33	0	16	17			
2-Hexanone	33	1	15	17	ug/L	4.00	4.00
Tetrachloroethene	33	0	16	17			
Toluene	33	1	16	16	ug/L	1.00	1.00
1,1,2,2-Tetrachloroethane	33	1	15	17	ug/L	1.00	1.00
Chlorobenzene	33	0	16	17			
Ethyl benzene	33	0	16	17			
Styrene	33	0	16	17			
Xylenes	33	0	16	17			
CLP-SOC							
Phenol	33	0	33	0			
Bis(2-chloroethyl)ether	33	0	33	0			
2-Chlorophenol	33	0	33	0			
1,3-Dichlorobenzene	33	0	33	0			
1,4-Dichlorobenzene	33	0	33	0			
Benzyl alcohol	33	0	33	0			
1,2-Dichlorobenzene	33	0	33	0			
2-Methylphenol	33	0	33	0			
Bis(2-chloroisopropyl)ether	33	0	33	0			
4-Methylphenol	33	0	33	0			
n-Nitrosodipropylamine	33	0	33	0			
Hexachloroethane	33	0	33	0			
Nitrobenzene	33	0	33	0			
Isophorone	33	0	33	0			
2-Nitrophenol	33	0	33	0			
2,4-Dimethylphenol	33	0	33	0			
Benzoic acid	33	0	33	0			
Bis(2-chloroethoxy)methane	33	0	33	0			

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Table 7
Statistical Summary of Organic Compounds Detected in Groundwater Samples
Sub-Base Area, Site IR-7, Hunters Point Annex

Test Method/ Analyte Name	Number of Samples Analyzed	Number of Samples With Analyte Detected	Number of Samples With Analyte Not Detected	Number of Samples With Analyte Rejected	Units	Minimum Detected Value	Maximum Detected Value
2,4-Dichlorophenol	33	0	33	0			
1,2,4-Trichlorobenzene	33	0	33	0			
Naphthalene	33	0	33	0			
4-chloroaniline	33	0	33	0			
Hexachlorobutadiene	33	0	33	0			
4-Chloro-3-methylphenol	33	0	33	0			
2-Methylnaphthalene	33	0	33	0			
Hexachlorocyclopentadiene	33	0	33	0			
2,4,6-Trichlorophenol	33	0	33	0			
2,4,5-Trichlorophenol	33	0	33	0			
2-Chloronaphthalene	33	0	33	0			
2-Nitroaniline	33	0	33	0			
Dimethyl phthalate	33	0	33	0			
Acenaphthylene	33	0	33	0			
2,6-Dinitrotoluene	33	0	33	0			
3-Nitroaniline	33	0	33	0			
Acenaphthene	33	0	33	0			
2,4-Dinitrophenol	33	0	33	0			
4-Nitrophenol	33	0	33	0			
Dibenzofuran	33	0	33	0			
2,4-Dinitrotoluene	33	0	33	0			
Diethyl phthalate	33	0	33	0			
4-chlorophenyl phenylether	33	0	33	0			
Fluorene	33	0	33	0			
4-Nitroaniline	33	0	33	0			
2-Methyl-4,6-dinitrophenol	33	0	33	0			
n-Nitrosodiphenylamine	33	0	33	0			
4-Bromophenylphenylether	33	0	33	0			
Hexachlorobenzene	33	0	33	0			
Pentachlorophenol	33	0	33	0			
Phenanthrene	33	0	33	0			
Anthracene	33	0	33	0			
Di-n-butylphthalate	33	0	33	0			
Fluoranthene	33	0	33	0			
Pyrene	33	0	33	0			
Butylbenzylphthalate	33	0	33	0			
3,3-Dichlorobenzidine	33	0	33	0			
Benzo(a)anthracene	33	0	33	0			
Chrysene	33	0	33	0			
Bis(2-ethylhexyl)phthalate	33	0	33	0			
Di-n-octylphthalate	33	0	33	0			
Benzo(b)fluoranthene	33	0	33	0			
Benzo(k)fluoranthene	33	0	33	0			
Benzo(a)pyrene	33	0	33	0			
Indeno(1,2,3-cd)pyrene	33	0	33	0			
Dibenzo(a,h)anthracene	33	0	33	0			
Benzo(ghi)perylene	33	0	33	0			
CLP-PEST/PCB							
alpha-BHC	33	0	30	3			
beta-BHC	33	0	30	3			
delta-BHC	33	0	30	3			
gamma-BHC	33	0	30	3			
Heptachlor	33	0	30	3			
Aldrin	33	0	30	3			

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Table 7
Statistical Summary of Organic Compounds Detected in Groundwater Samples
Sub-Base Area, Site IR-7, Hunters Point Annex

Test Method/ Analyte Name	Number of Samples Analyzed	Number of Samples With Analyte Detected	Number of Samples With Analyte Not Detected	Number of Samples With Analyte Rejected	Units	Minimum Detected Value	Maximum Detected Value
Heptachlor epoxide	33	0	30	3			
Endosulfan I	33	0	30	3			
Dieldrin	33	0	30	3			
4,4'-DDE	33	0	30	3			
Endrin	33	0	30	3			
Endosulfan II	33	0	30	3			
4,4'-DDD	33	0	30	3			
Endosulfan sulfate	33	0	30	3			
4,4'-DDT	33	0	30	3			
Methoxychlor	33	0	30	3			
Endrin ketone	33	0	30	3			
alpha-Chlordane	33	0	30	3			
gamma-Chlordane	33	0	30	3			
Toxaphene	33	0	30	3			
Aroclor-1016	33	0	30	3			
Aroclor-1221	33	0	30	3			
Aroclor-1232	33	0	30	3			
Aroclor-1242	33	0	30	3			
Aroclor-1248	33	0	30	3			
Aroclor-1254	33	0	30	3			
Aroclor-1260	33	0	30	3			
TPH DIESEL							
TPH-Diesel	33	0	27	6			
TPH-Extractable Unknown Hydrocarbon	16	0	16	0			
TPH GAS							
TPH-Gasoline	33	0	16	17			

ug/L - micrograms per liter
* - Samples analyzed include samples from 12 wells collected during 2 sampling rounds and 9 duplicates.

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Table 8
Statistical Summary of Inorganic Compounds Detected in Groundwater Samples
Sub-Base Area, Site IR-7, Hunters Point Annex

Test Method/ Analyte Name	Number of Samples Analyzed	Number of Samples With Analyte Detected	Number of Samples With Analyte Not Detected	Number of Samples With Analyte Rejected	Units	Minimum Detected Value	Maximum Detected Value
CLP-CVAA							
Mercury	33 *	0	33	0			
CLP-FUAA							
Arsenic	33	4	29	0	ug/L	3.30	4.60
Lead	33	9	24	0	ug/L	2.10	115.00
Selenium	33	0	25	8			
Thallium	33	1	24	8	ug/L	3.10	3.10
CLP-ICP							
Aluminum	33	18	15	0	ug/L	103.00	738.00
Antimony	33	3	30	0	ug/L	14.30	58.60
Barium	33	32	1	0	ug/L	30.90	1040.00
Beryllium	33	1	32	0	ug/L	4.00	4.00
Cadmium	33	3	30	0	ug/L	2.90	3.90
Calcium	33	33	0	0	ug/L	69500.00	481500.00
Chromium	33	13	20	0	ug/L	2.90	1260.00
Cobalt	33	20	13	0	ug/L	6.10	161.00
Copper	33	7	26	0	ug/L	6.00	52.60
Iron	33	22	11	0	ug/L	23.00	50500.00
Magnesium	33	33	0	0	ug/L	99860.00	1587400.00
Manganese	33	33	0	0	ug/L	6.20	7470.00
Nickel	33	33	0	0	ug/L	18.00	7120.00
Potassium	33	33	0	0	ug/L	4673.00	390000.00
Silver	33	4	29	0	ug/L	7.60	25.10
Sodium	33	33	0	0	ug/L	151000.00	9860000.00
Vanadium	33	6	27	0	ug/L	5.00	19.00
Zinc	33	9	24	0	ug/L	7.10	29.30
Molybdenum	33	8	25	0	ug/L	22.30	103.00
EPA-7196							
Chromium VI	32	0	32	0			
EPA-300.0							
Sulfate	17	17	0	0	mg/L	35.00	2510.00
Nitrate	4	0	4	0			
Chloride	17	17	0	0	mg/L	219.00	17000.00
Orthophosphate as P	17	13	4	0	mg/L	0.03	4.50
EPA-353.1							
Nitrate as N	13	4	9	0	mg/L	0.08	0.71
EPA-9045							
pH	33	33	0	0	pH	6.90	7.65

ug/L - micrograms per liter
mg/L - milligrams per liter
* - Samples analyzed include samples from 12 wells collected during 2 sampling rounds and 9 duplicates.

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Table 9. Groundwater Sampling Field Parameters
Sub-Base Area (IR-7)
Hunters Point Annex

Well Number	Screened Interval (Feet BGS)	Depth to Water (Feet BTOC)	Date Sampled	Time Sampled	pH	Electrical Conductivity (micromhos per Centimeter) *	Temperature °C	Turbidity (NTU)	Field Alkalinity (mg/L as CaC03)	Gallons Removed	Casing Volumes Removed	Field Observations/ Problems Encountered
IR07MW19A	6 - 16	7.61	12/12/90	1230	7.4	34250	18.8	>100	134	17.0	3.0	Greenish gray, silty
		8.53	7/30/91	0730	7.1	5000	18.3	>100	155	15.0	3.0	Silty, brown
		8.71	12/05/91	0830	6.9	1900	18.1	>100	145	15.0	3.0	Silty, brown, odorless
IR07MW20A1	6 - 24	7.05	12/13/90	0930	7.2	38000	17.7	>100	132 (1)	35.0	3.0	Dark brown
		9.83	7/25/91	1000	6.1	5000	16.0	>100	130	30.0	3.3	Silty, brown
		6.94	12/02/91	1100	7.1	2750	17.6	>100	130	33.0	3.0	Brownish-orange, odorless
IR07MW20A2	39 - 44	10.29	12/13/90	1130	7.2	15250	17.4	>100	1460	66.0	3.0	Redish brown
		8.44	7/29/91	1030	7.0	2600	18.2	25	1440	70.0	3.0	Silty, brown, clears
		8.43	12/04/91	1030	7.0	1200	16.0	>100	1410 (1)	70.0	3.0	Clear turning silty, brown
IR07MW21A1	6 - 16	12.67	12/12/90	1100	7.8	2950	18.6	>100	822	11.0	3.0	Lightly turbid
		13.08	7/29/91	0830	7.4	850	17.4	>100	840	8.0	3.0	Silty, brown
		13.17	12/04/91	0830	7.3	700	18.4	>100	830	10.0	3.0	Silty, brown, odorless
IR07MW21A2	29 - 34	12.96	12/13/90	1245	7.5	18500	16.7	>100	680	18.0	1.3	Greenish gray Dry after removing 17 Gals., sampled after 79% recovery
		13.02	7/25/91	0915	6.7	2650	17.5	>100	640	15.0	1.1	Silty, gray Dry after removing 15 Gals., sampled after 81% recovery
		13.16	12/02/91	1030	7.5	1850	17.0	>100	680	16.0	1.1	Silty, gray, odorless Dry after removing 16 Gals., sampled after 82% recovery
IR07MW23A	7 - 17	13.93	12/12/90	0850	7.7	1700	18.7	>100	770	5.0	3.0	Lightly turbid
		13.95	7/26/91	0730	6.6	900	17.7	>100	790	5.0	3.0	Silty, brown
		14.18	12/03/91	1030	7.1	700	18.7	46	760	5.0	3.0	Clear, odorless
IR07MWP-1	4 - 19	8.40	12/18/90	0945	7.0	28500	18.2	>100	208	6.0	3.0	Greenish gray
		7.78	7/30/91	1000	6.5	5000	18.0	>100	132	6.0	3.3	Silty, brown
		6.08	12/03/91	0900	6.7	2200	17.1	>100	180	7.0	3.2	Silty, brown, odorless
IR07MWP-2	4 - 19	7.14	12/17/90	1300	6.9	29000	14.1	>100	104	5.0	3.0	Red-brown
		9.92	7/30/91	1130	6.9	5000	18.0	>100	100	3.0	3.6	Very silty, brown-orange
		8.22	12/05/91	2500	7.1	2500	14.2	>100	110	5.0	3.1	Silty, brownish-orange, odorless

Table 9. Groundwater Sampling Field Parameters
Sub-Base Area (IR-7)
Hunters Point Annex (Continued)

Well Number	Screened Interval (Feet BGS)	Depth to Water (Feet BTOC)	Date Sampled	Time Sampled	pH	Electrical Conductivity (micromhos per Centimeter) *	Temperature °C	Turbidity (NTU)	Field Alkalinity (mg/L as CaC03)	Gallons Removed	Casing Volumes Removed	Field Observations/ Problems Encountered
IR07MWS-1	5 - 18	7.74	12/14/90	1245	7.4	7000	18.7	>100	395	4.0	3.0	Greenish gray
		7.40	7/29/91	1330	7.2	1950	18.6	>100	430	5.0	3.8	Silty, brown
		7.57	12/04/91	1330	7.0	1100	18.6	>100	410	5.0	3.0	Silty, brown, odorless
IR07MWS-2	3 - 18	7.75	12/17/90	1130	7.2	12500	17.0	>100	280	7.0	3.0	Silty, gray
		7.52	7/26/91	1030	6.0	2500	17.2	>100	286	6.5	3.0	Silty, gray
		7.48	12/05/91	1230	7.0	2100	17.6	>100	300 (1)	7.0	3.0	Silty, gray, odorless
IR07MWS-3	5 - 20	7.70	12/14/90	1130	7.1	26500	16.9	>100	780	7.0	3.0	Silty, sandy, sheen, odor
		8.13	7/26/91	0900	6.5	3500	16.2	>100	940	7.0	3.2	Silty, brown
		7.57	12/03/91	1230	6.9	1850	16.5	>100	910	7.0	3.0	Silty, brown, odorless
IR07MWS-4	6 - 21	11.52	12/18/90	0815	6.8	28000	17.2	>100	280	6.0	3.0	Greenish gray
		11.79	7/25/91	1230	6.5	5000	16.9	>100	330 (1)	6.0	3.3	Silty, brown
		11.55	12/02/91	1230	6.8	2900	16.4	>100	270	6.0	3.0	Silty, brown,odorless

BTOC Below top of casing
BGS Below ground surface
* Electrical conductivity at the temperature stated
NTU Nephelometric turbidity units
(1) Estimated

Table 10. Comparison of Organic Compounds Detected in Groundwater Samples with Maximum Contaminant Levels (MCLs) Sub-Base Area (IR-7) Hunters Point Annex

Test Method/ Analyte Name	Number of Analyses	Units	Number of Detected Values	Max Value	Min Value	Current EPA MCL	Proposed EPA MCL	State MCL
CLP-VOC	33							
1,1,1-Trichloroethane		µg/L	1	1.00	1.00	200	--	200
Vinyl acetate		µg/L	1	2.00	2.00	--	--	--
2-Hexanone		µg/L	1	4.00	4.00	--	--	--
Toluene		µg/L	1	1.00	1.00	--	2000	--
1,1,2,2-Tetrachloroethane		µg/L	1	1.00	1.00	--	--	1.0

Max Value = Maximum concentration detected in any groundwater sample analyzed for organics.

Min Value = Minimum concentration detected in any groundwater sample analyzed for organics; minimum concentration detected may be below the reporting limit.

EPA MCL = U.S. EPA Maximum Contaminant Level for drinking water.

State MCL = State of California Maximum Contaminant Level for drinking water; Title 22, Chapter 15, California Code of Regulations, 1990.

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Table 11. Comparison of Inorganic Compounds Detected in Groundwater Samples with Maximum Contaminant Levels (MCLs) Sub-Base Area (IR-7) Hunters Point Annex

Test Method/ Analyte Name	Number of Analyses	Units	Number of Detected Values	Max Value	Min Value	Current EPA MCL	Proposed EPA MCL	State MCL
CLP-FUAA	33							
Arsenic		µg/L	4	4.6	3.3	50	--	50
Lead		µg/L	9	115	2.1	50	5	50
Thallium		µg/L	1	3.1	3.1	--	2	--
CLP-ICP	33							
Aluminum		µg/L	18	738	103	--	--	1000
Antimony		µg/L	3	58.6	14.3	--	10	--
Barium		µg/L	32	1040	30.9	1000	5000	1000
Beryllium		µg/L	1	4	4	--	1	--
Cadmium		µg/L	3	3.9	2.9	10	5	10
Calcium		µg/L	33	481500	69500	--	--	--
Chromium		µg/L	13	1260	2.9	50	100	50
Cobalt		µg/L	20	161	6.1	--	--	--
Copper		µg/L	7	52.6	6	--	1300	1000[1]
Iron		µg/L	22	50500	23	--	--	300[1]
Magnesium		µg/L	33	1587400	99860	--	--	--
Manganese		µg/L	33	7470	6.2	--	--	50[1]
Nickel		µg/L	33	7120	18	--	100	--
Potassium		µg/L	33	390000	4673	--	--	--
Silver		µg/L	4	25.1	7.6	--	--	50
Sodium		µg/L	33	9860000	151000	--	--	--
Vanadium		µg/L	6	19	5	10	50	--
Zinc		µg/L	9	29.3	7.1	--	--	5000[1]
Molybdenum		µg/L	8	103	22.3	--	--	--
EPA-300.0	17							
Sulfate		mg/L	17	2510	35.00	--	--	250[1]
Chloride		mg/L	17	17000	219.00	--	--	250[1]
Orthophosphate as P		mg/L	13	0.03	4.50			
EPA-9045	33							
pH		pH	33	7.65	6.90	NA	NA	
EPA-353.1	13							
Nitrate		mg/L		0.08	0.71	10	--	--

Max Value = Maximum concentration detected in any groundwater sample analyzed for organics.

Min Value = Minimum concentration detected in any groundwater sample analyzed for organics; minimum concentration detected may be below the reporting limit.

EPA MCL = U.S. EPA Maximum Contaminant Level for drinking water.

State MCL = State of California Maximum Contaminant Level for drinking water; Title 22, Chapter 15, California Code of Regulations, 1990.

1 = Secondary Drinking Water Standard.

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Table 12. Summary of Physical Testing Results
Sub-Base Area (IR-7), Hunter's Point Annex

Boring Number	Depth Feet	Sample Number	Soil Classification*	Gravimetric Moisture Content (%)	Bulk Density (Pounds per cubic foot) Wet	Bulk Density (Pounds per cubic foot) Dry	Specific Gravity	Porosity (%)	Organic Content(%)	Permeability at 20°C(cm/sec)	Lithologic Unit
IR07B015	26.0	9132H856-P	Brown Sandy Lean Clay w/gvl (CL)	21.1	129.4	106.8	2.8	38	1.97	5.46 E-8	Qaf
IR07B025	6.5	9132H854-P	Brown Silty Sand w/gvl (SM)	x	x	x	x	x	2.75	x	Qaf
IR07B025	36.5	9132H855-P	Gray Elastic Silt (ML)	57.2	103.6	66.0	2.7	61	3.93	6.82 E-8	Qbm
IR07B030	2.0	9133H862-P	Brown Sandy Lean Clay (CL)	16.2	130.0	111.9	2.8	36	2.22	4.73 E-7	Qaf
IR07B030	26.0	9133H863-P	Brown Clayey Sand (SC)	18.1	136.0	112.7	2.8	34	1.05	4.16 E-7	Quus(?)
IR07B032	2.0	9133H861-P	Brown Sandy Lean Clay (CL)	16.6	134.8	115.6	2.8	35	1.98	2.18 E-8	Qaf
IR07B033	2.0	9133H859-P	Gray Clayey Sand w/gvl (SC)	x	x	x	x	x	1.80	x	Qaf
IR07B033	20.0	9133H860-P	Gray Clayey Sand w/gvl (SC)	x	x	x	x	x	1.93	x	Qaf
IR07B034	26.0	9132H857-P	Red Clayey Sand (SC)	x	x	x	x	x	1.48	x	Qaf
IR07B034	36.0	9132H858-P	Red Clayey Gravel w/sand (GC)	x	x	x	x	x	3.30	x	Qaf

* Soil Classification is based on results of laboratory sieve analyses and visual observation, except for Sample Number 9132H856-P which was visually classified because a portion the soil sample was lost in the laboratory.

x Physical test not performed because of gravel and sample disturbance.

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ILLUSTRATIONS

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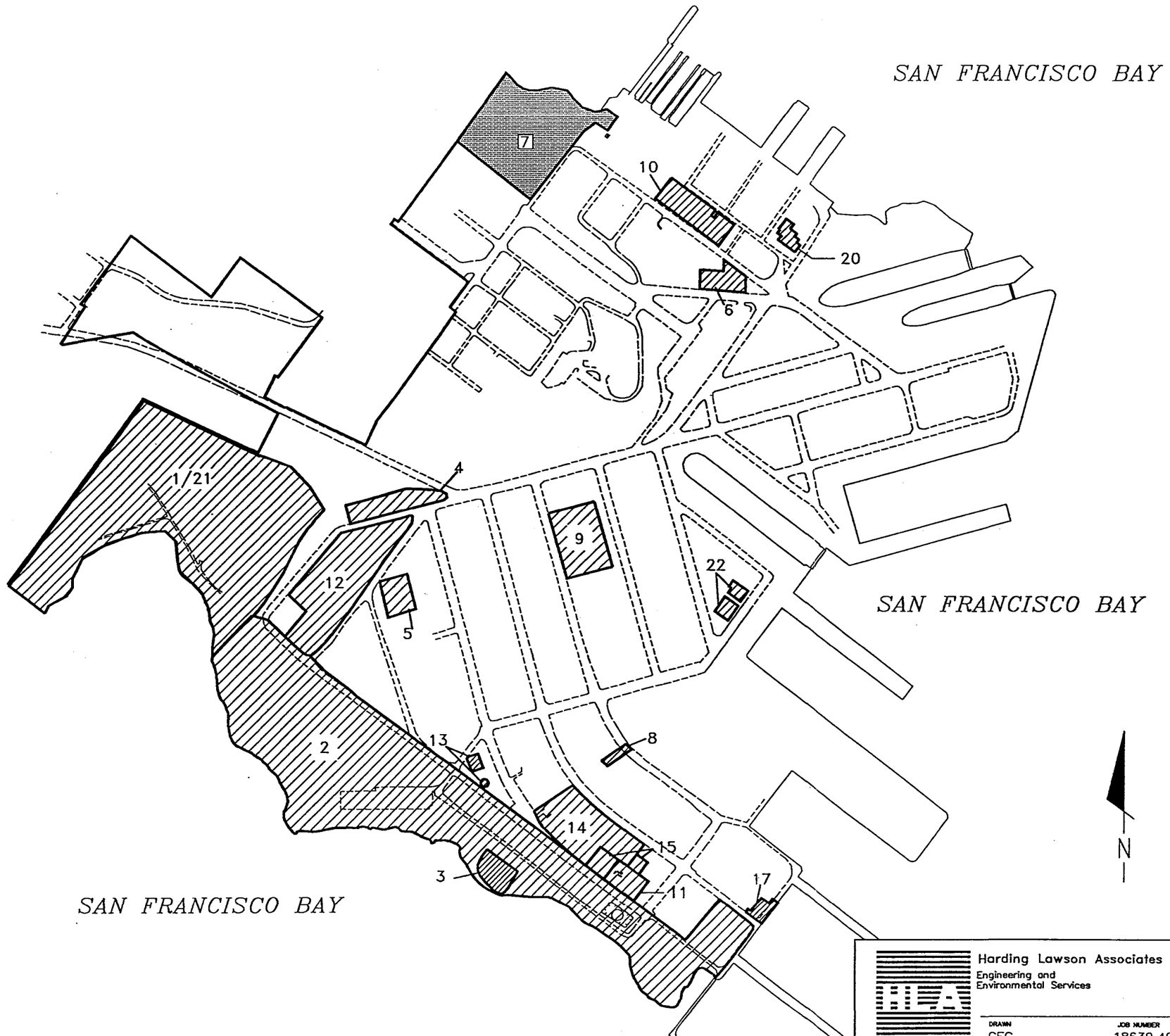

IR SITE#	AREA DESIGNATIONS
1/21	INDUSTRIAL LANDFILL
2	BAY FILL AREA
3	OIL RECLAMATION PONDS
4	SCRAP YARD
5	OLD TRANSFORMER STORAGE YARD
6	TANK FARM
7	SUB-BASE AREA
8	BUILDING 503 PCB SPILL
9	PICKLING AND PLATE YARD
10	BATTERY AND ELECTROPLATING SHOP (BUILDING 123)
11	BUILDING 521, POWER PLANT AREA
12	DISPOSAL TRENCH
13	OLD COMMISSARY SITE
14	OILY LIQUID WASTE DISPOSAL SITE
15	OILY WASTE PONDS AND INCINERATION TANK
17	DRUM STORAGE AND DISPOSAL SITE
20	BUILDING 156
22	SOUTH PIER AREA

EXPLANATION

2 — INSTALLATION RESTORATION SITE BOUNDARY AND NUMBER

7 — INSTALLATION RESTORATION SITE, GROUP IV SITES

0 700
SCALE IN FEET

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CAD File Name:LOCMAP7 Last Plot Date: 11/20/91

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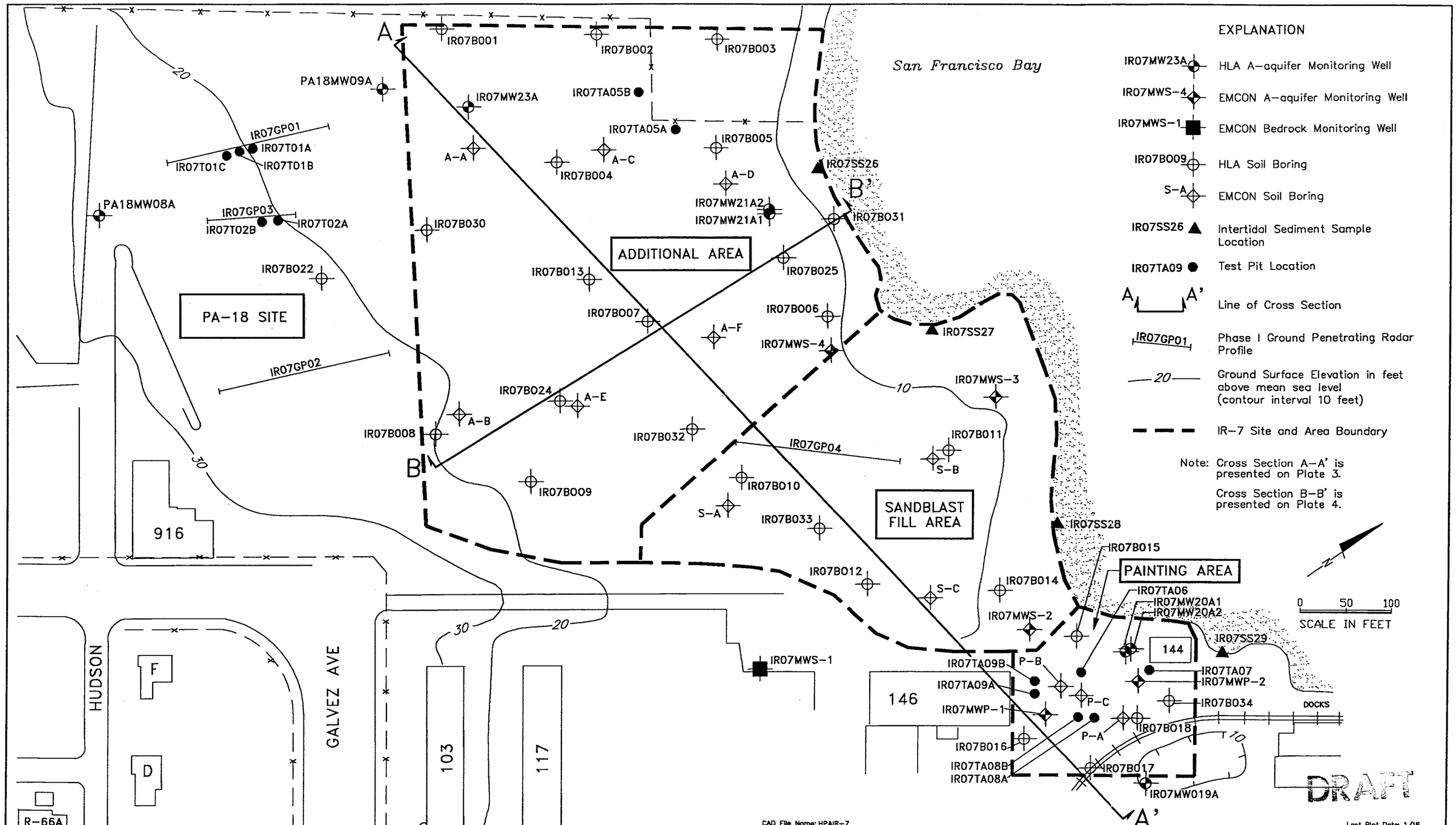
Engineering and Environmental Services

Site Location Map
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE 1

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CEG	18639,490.02		11/91	



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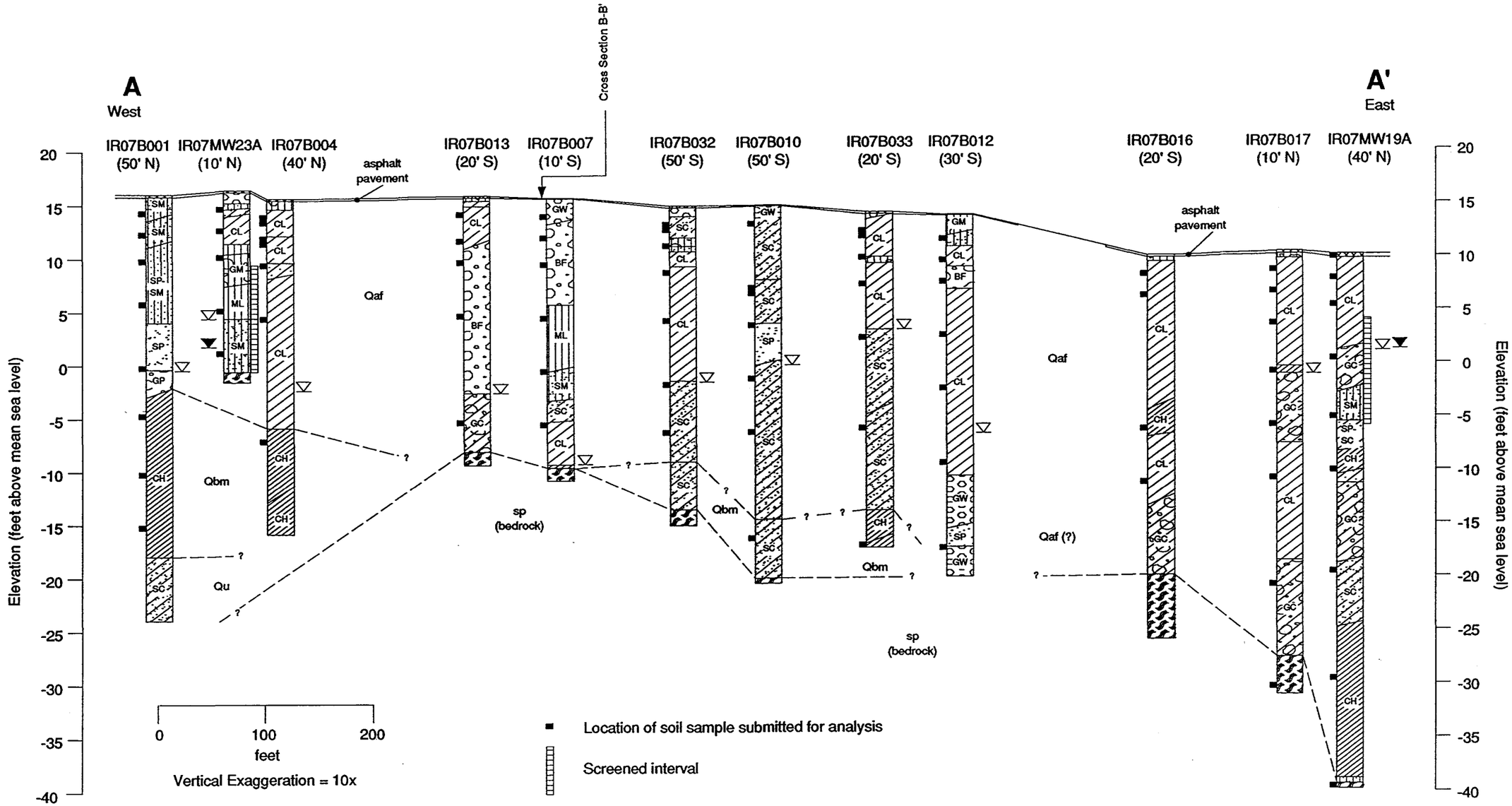
Engineering and Environmental Services

Site Map
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE 2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
RWS	18639,490.02		11/91	



Qaf = Bedrock-derived fill, may include undifferentiated upper sands and ravine fill deposits
Qbm = Bay mud deposits
Qu = Undifferentiated sedimentary deposits
sp = Serpentinite bedrock of the Franciscan Formation

ASTM soil classification shown on Plate 5.

Location of cross section shown on Plate 2.

NOTE: This cross section presents one current interpretation based on review of detailed boring logs.

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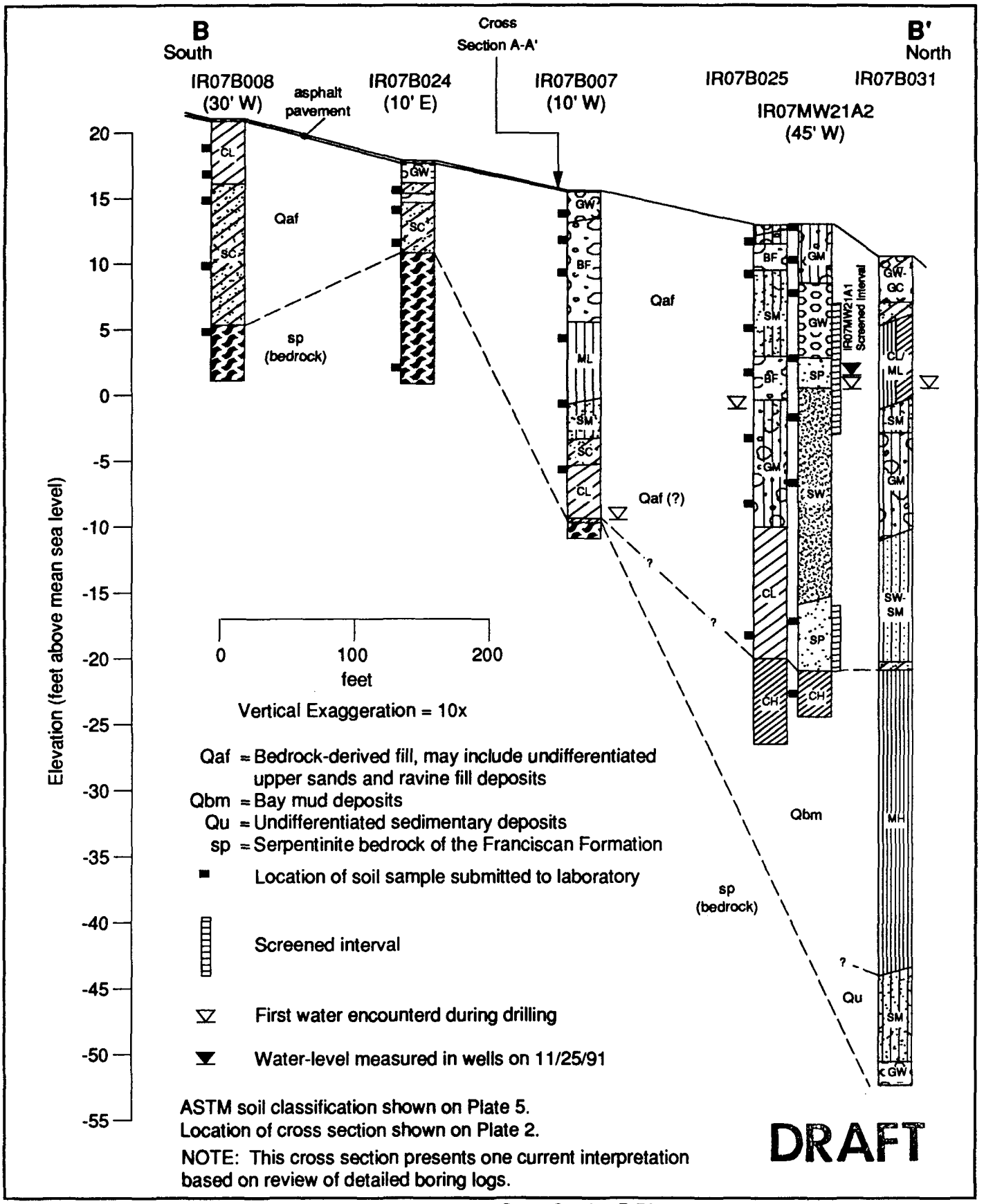
Cross Section A-A'
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE 3

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
DLFc	18639,490.02		1/92	



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Cross Section B-B'
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE
4

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
DLFc	18639,490.02		1/92	

ASTM D2488-84

MAJOR DIVISIONS				TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN No. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN No. 4 SIEVE	CLEAN GRAVELS WITH < 5% FINES	GW	WELL GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
			GP	POORLY GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
		GRAVELS WITH 5-15% FINES	GW-GC	WELL GRADED GRAVELS WITH CLAY, WITH OR WITHOUT SAND
			GP-GC	POORLY GRADED GRAVELS WITH CLAY, WITH OR WITHOUT SAND
			GW-GM	WELL GRADED GRAVELS WITH SILT, WITH OR WITHOUT SAND
			GP-GM	POORLY GRADED GRAVELS WITH SILT, WITH OR WITHOUT SAND
		GRAVELS WITH OVER 15% FINES	GC	CLAYEY GRAVELS WITH OR WITHOUT SAND
			GM	SILTY GRAVELS WITH OR WITHOUT SAND
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN No. 4 SIEVE	CLEAN SANDS WITH < 5% FINES	SW	WELL GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
			SP	POORLY GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
		SANDS WITH 5-15% FINES	SW-SC	WELL GRADED SANDS WITH CLAY, WITH OR WITHOUT GRAVEL
			SP-SC	POORLY GRADED SANDS WITH CLAY, WITH OR WITHOUT GRAVEL
			SW-SM	WELL GRADED SANDS WITH SILT, WITH OR WITHOUT GRAVEL
			SP-SM	POORLY GRADED SANDS WITH SILT, WITH OR WITHOUT GRAVEL
		SANDS WITH OVER 15% FINES	SC	CLAYEY SANDS WITH OR WITHOUT GRAVEL
			SM	SILTY SANDS WITH OR WITHOUT GRAVEL
FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN No. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, CLAYS WITH SAND AND GRAVEL, LEAN CLAYS
			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTS WITH SAND AND GRAVEL
			OL	ORGANIC SILTS OR CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS (Borderline classification used to indicate the soil does not have field identifiable properties that place the soil in a specific group.)		ML/CL	INORGANIC CLAYEY SILTS, WITH OR WITHOUT SAND AND GRAVEL
			CL/ML	INORGANIC SILTY CLAYS OF LOW TO MEDIUM PLASTICITY, WITH OR WITHOUT SAND AND GRAVEL
			MH/CH	INORGANIC ELASTIC CLAYEY SILTS, WITH OR WITHOUT SAND AND GRAVEL
			CH/MH	INORGANIC SILTY CLAYS OF HIGH PLASTICITY, WITH OR WITHOUT SAND AND GRAVEL
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			OH	ORGANIC SILTS OR CLAYS OF MEDIUM TO HIGH PLASTICITY
			Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS
OTHER	BOULDERS > 50%		BF[1]	BOULDER FILL WITH OR WITHOUT GRAVEL, SAND, AND FINES
	SERPENTINITE BEDROCK		sp[2]	SERPENTINITE BEDROCK

1. Not Part of ASTM Classification System
2. Bonilla, M.G.,1971. Preliminary Geologic Map of the San Francisco South Quadrangle and Part of the Hunters Point Quadrangle, California, USGS Miscellaneous Field Studies Map MF-311,1:24,000.

KEY TO BOREHOLE NUMBERING SYSTEM

06 MW 06

- 06 — IR Site Number
- MW — Boring or Monitoring Well Designation (B=Boring, MW=Monitoring Well, SS=Sediment Sample)
- 06 — Well or Boring Number

KEY TO SOIL SAMPLE NUMBERING SYSTEM

9133M156	Sample Submitted for Chemical Testing
9132H856-P	Sample Submitted for Physical Testing

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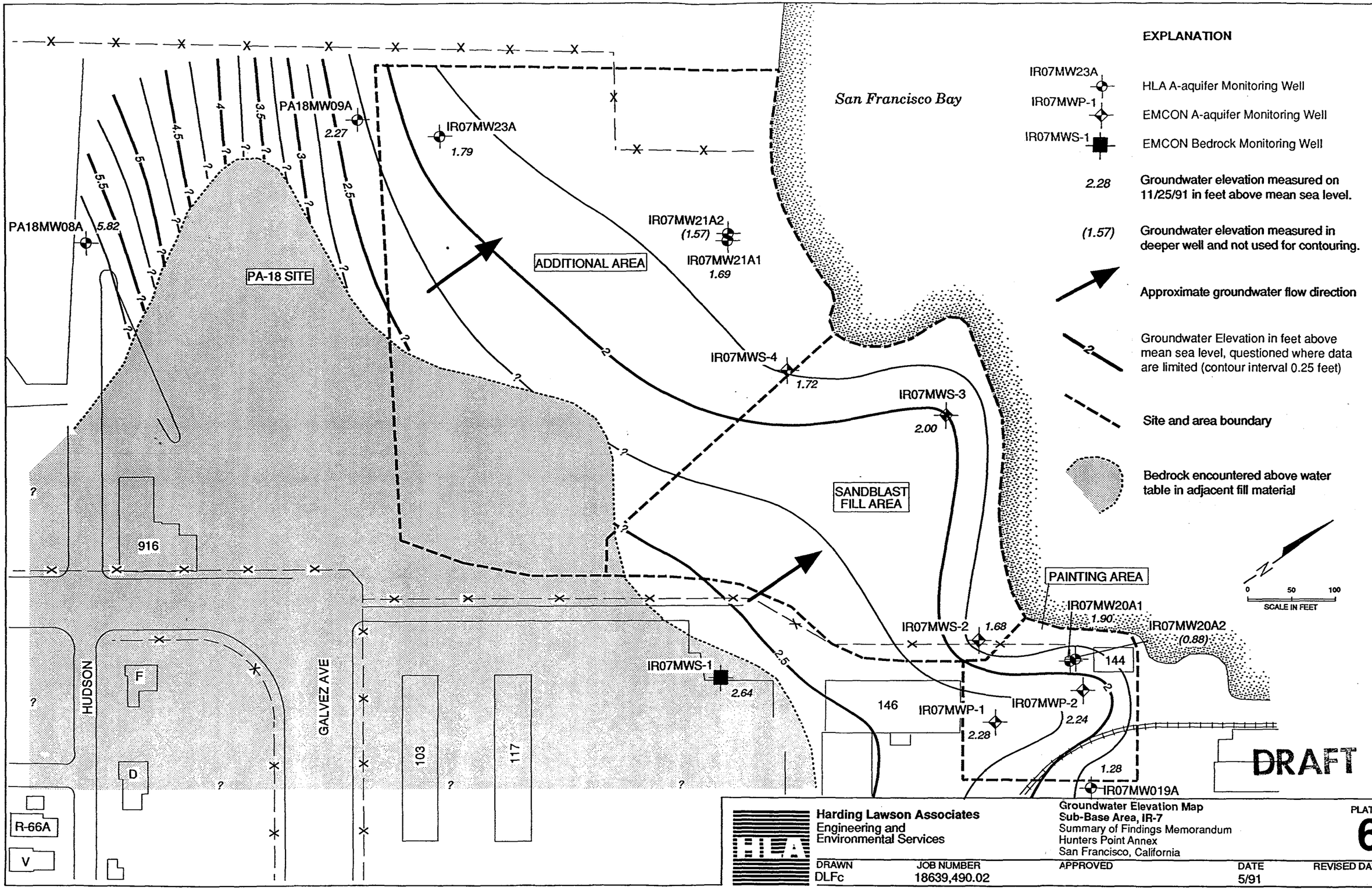
Engineering and Environmental Services

Soil Classification Chart
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE 5

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PG	18639,490.02		12/91	01/92

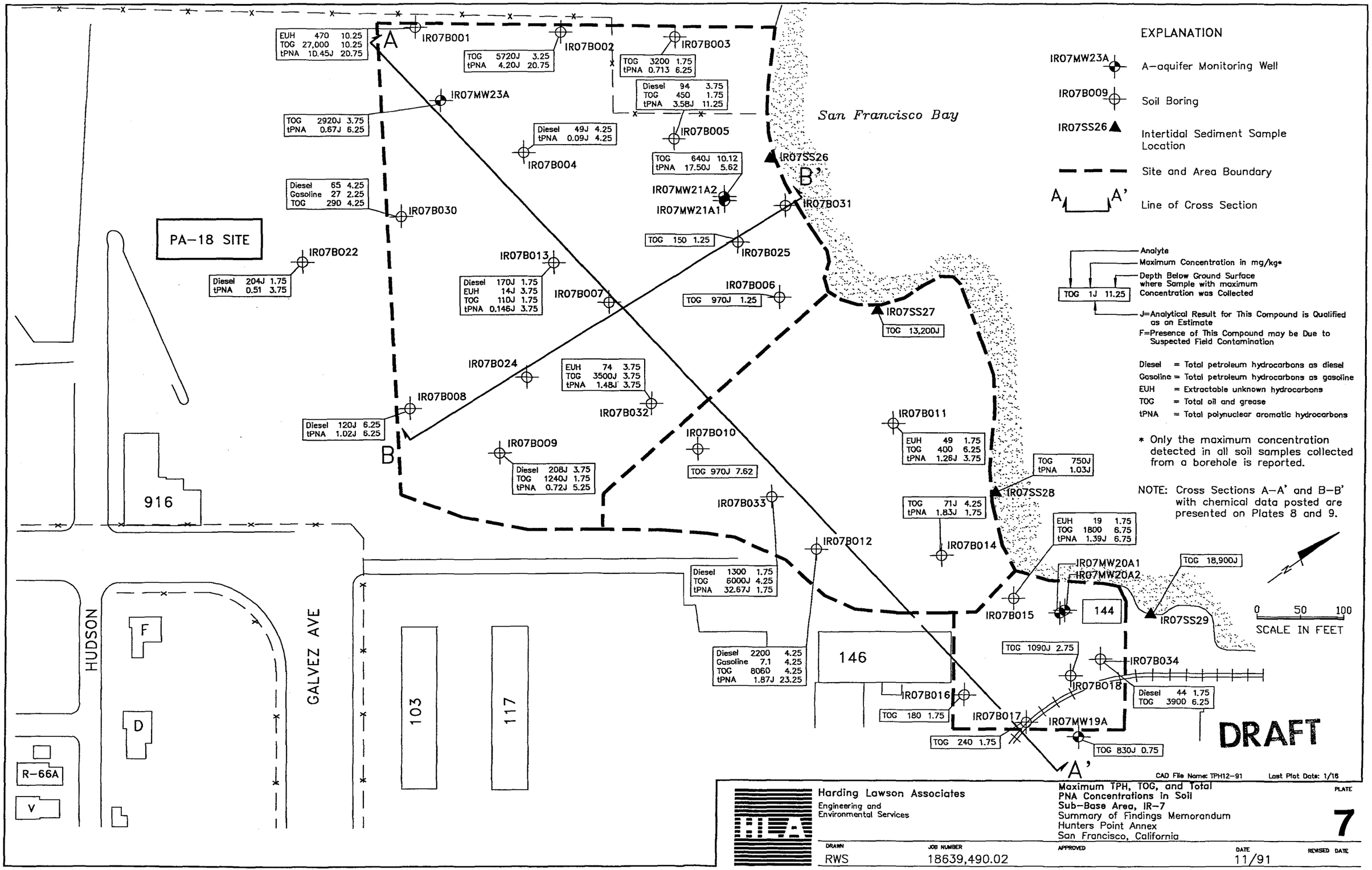


Harding Lawson Associates
Engineering and Environmental Services

Groundwater Elevation Map
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE **6**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
DLFc	18639,490.02		5/91	



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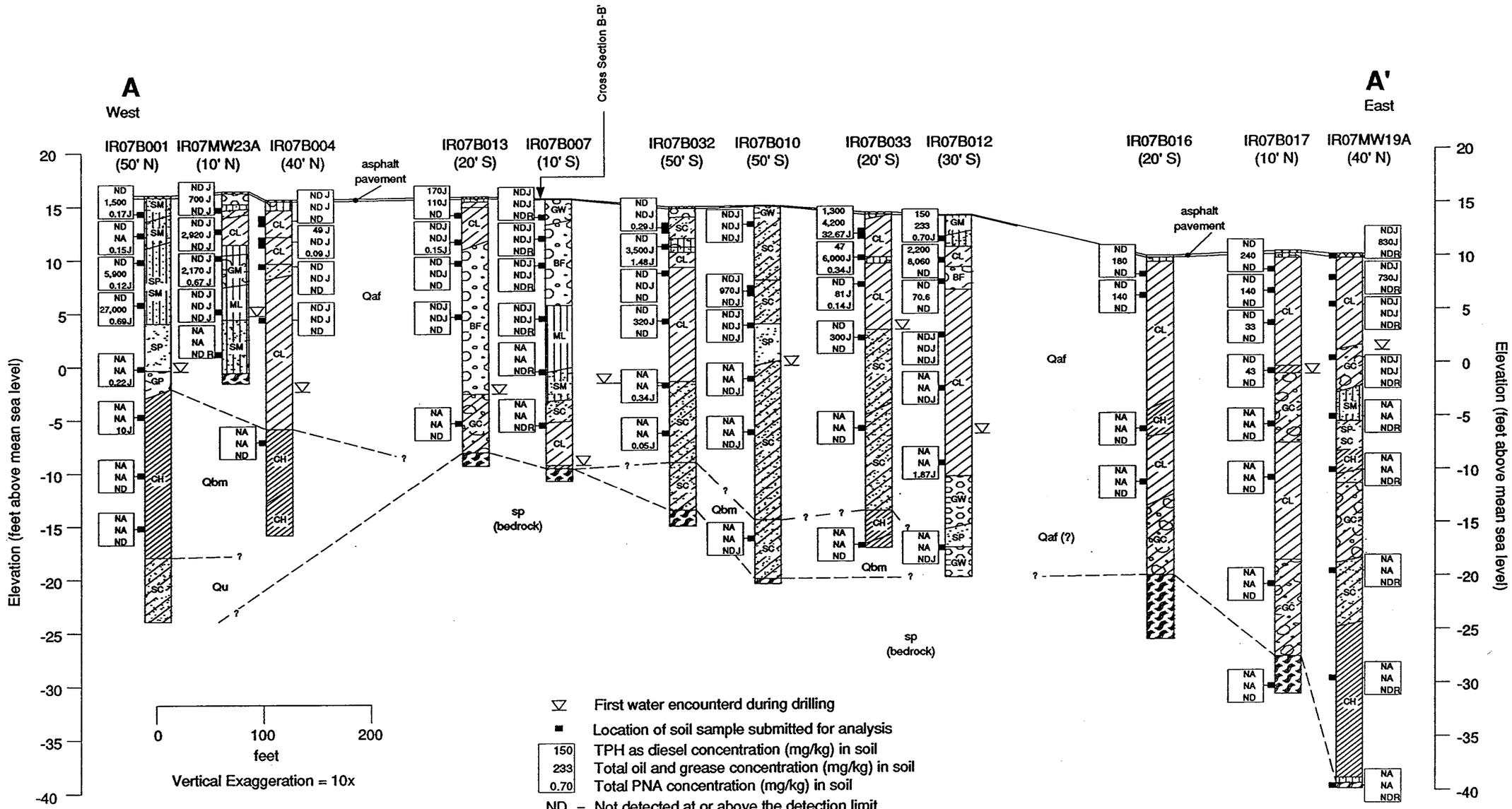
Engineering and Environmental Services

Maximum TPH, TOG, and Total PNA Concentrations in Soil
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE 7

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
RWS	18639,490.02		11/91	



ASTM soil classification shown on Plate 5.

Location of cross section shown on Plate 2.

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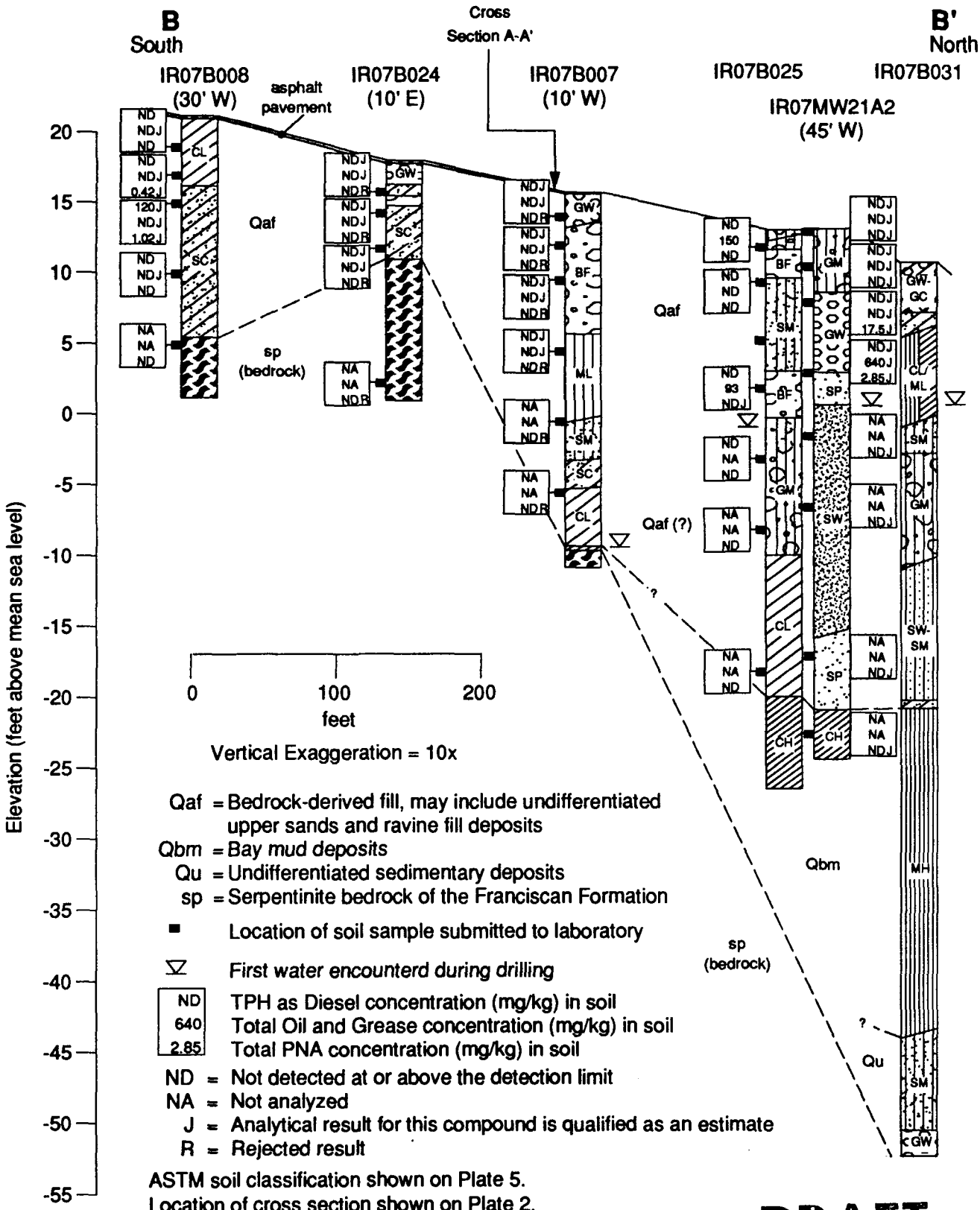
Cross Section A-A' Showing TPH as Diesel, TOG, and Total PNA Concentrations in Soil
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE **8**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
DLFc	18639,490.02		1/92	



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Environmental Services

Cross Section B-B' Showing TPH as Diesel, TOG, and Total PNA Concentrations in Soil
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE **9**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
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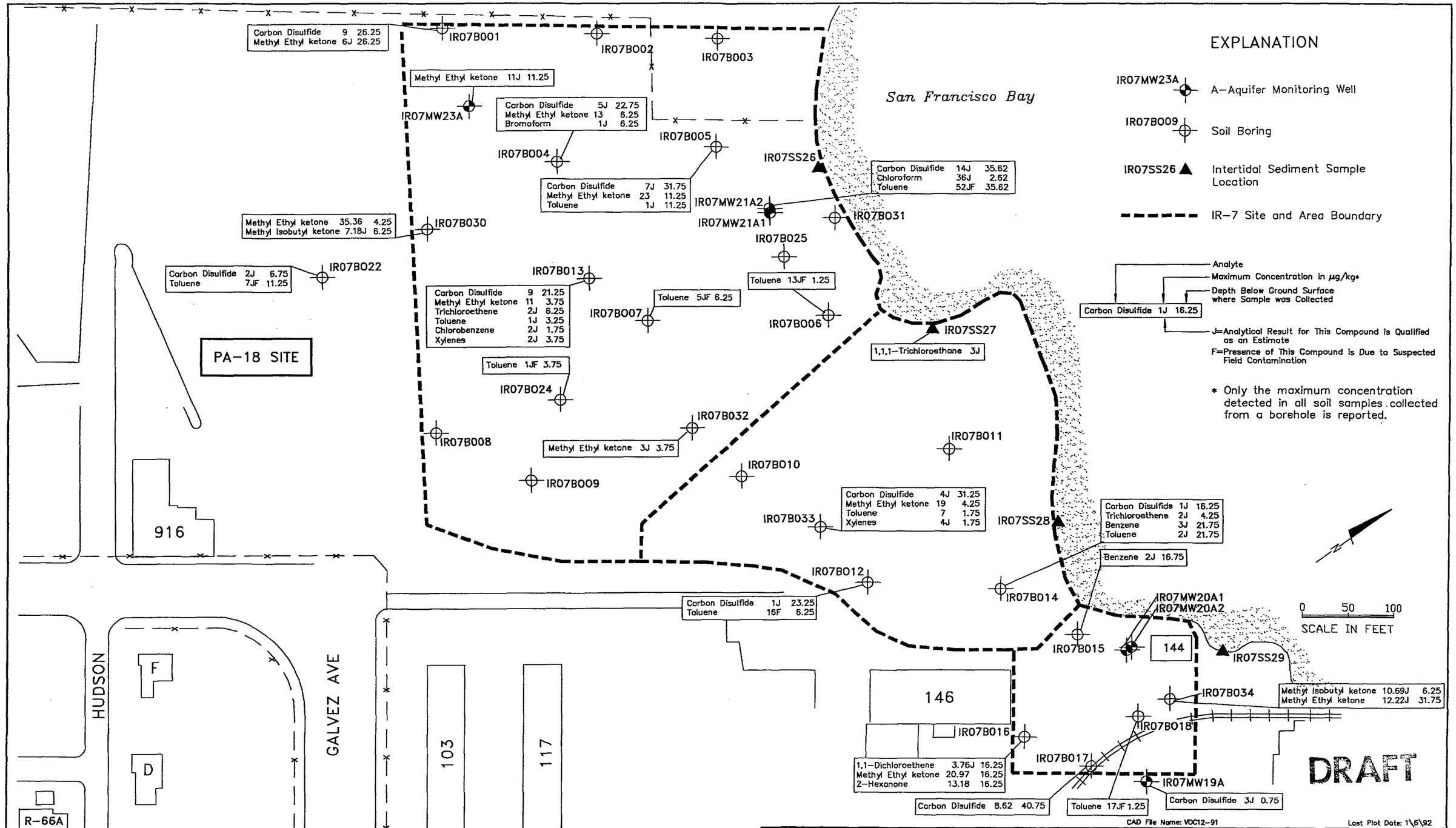

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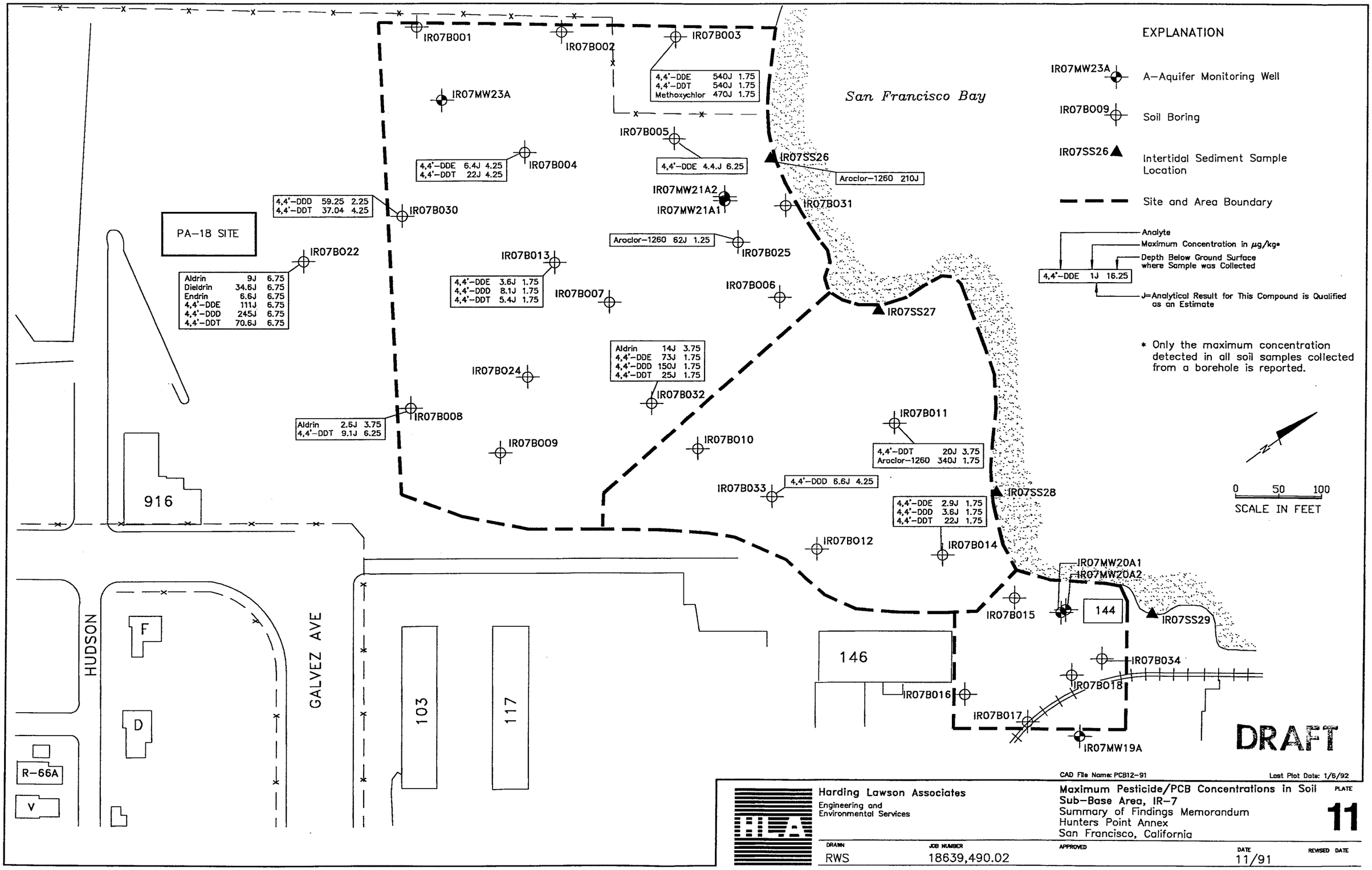
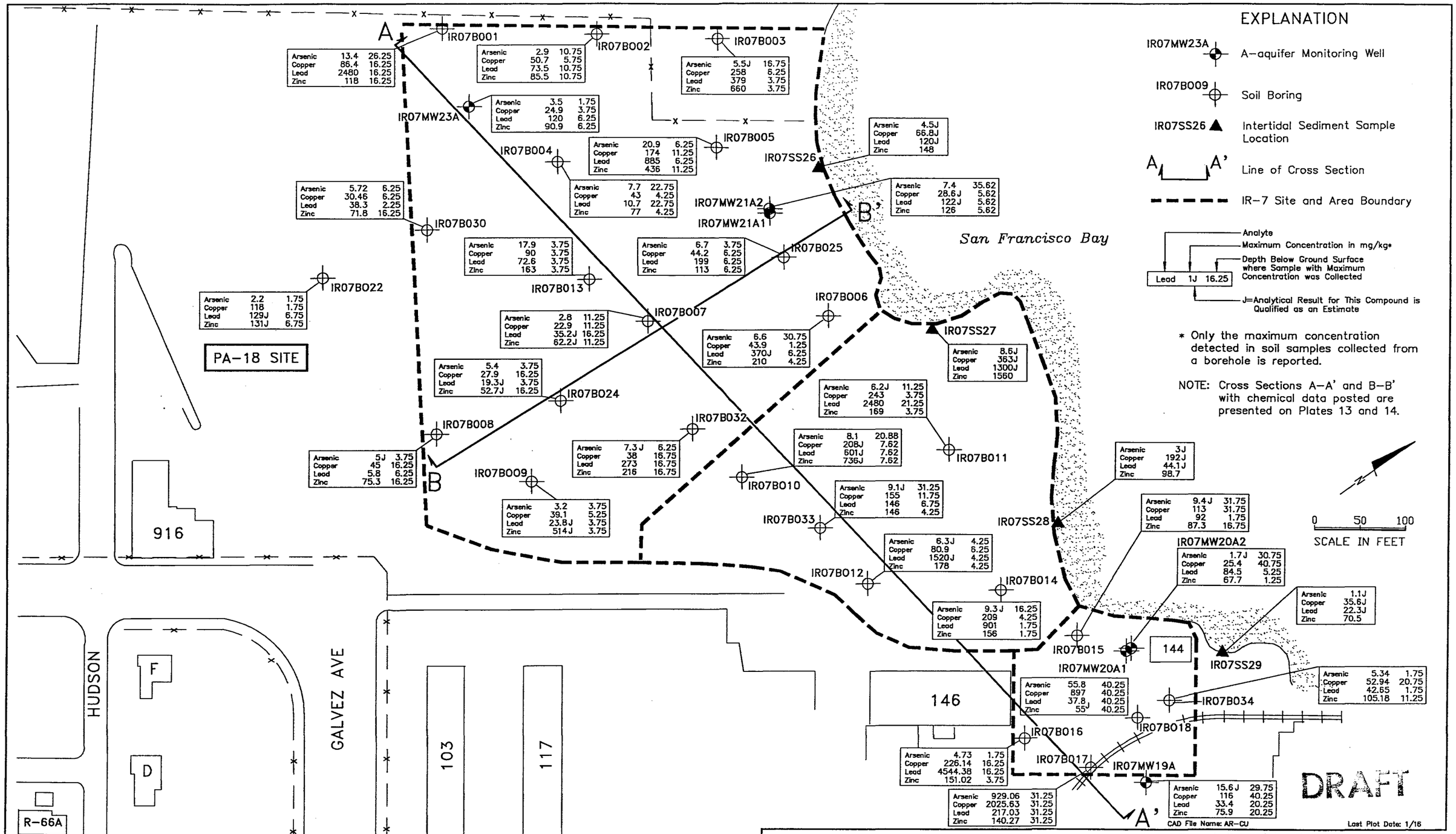
Maximum VOC Concentrations in Soil
Sub–Base Area, IR–7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE **10**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
RWS	18639,490.02		11/91	


EXPLANATION
IR07MW23A A–Aquifer Monitoring Well
IR07B009 Soil Boring
IR07SS26 Intertidal Sediment Sample Location
Site and Area Boundary
Analyte
Maximum Concentration in µg/kg*
Depth Below Ground Surface where Sample was Collected
4,4'–DDE 1J 16.25
J=Analytical Result for This Compound is Qualified as an Estimate
* Only the maximum concentration detected in all soil samples collected from a borehole is reported.
0 50 100
SCALE IN FEET
San Francisco Bay
PA–18 SITE
IR07B001
IR07B002
IR07B003
4,4'–DDE 540J 1.75
4,4'–DDT 540J 1.75
Methoxychlor 470J 1.75
IR07MW23A
IR07B005
4,4'–DDE 4.4.J 6.25
IR07B004
4,4'–DDE 6.4J 4.25
4,4'–DDT 22J 4.25
IR07SS26
Aroclor–1260 210J
IR07MW21A2
IR07MW21A1
IR07B031
4,4'–DDD 59.25 2.25
4,4'–DDT 37.04 4.25
IR07B030
Aroclor–1260 62J 1.25
IR07B025
IR07B022
IR07B013
4,4'–DDE 3.6J 1.75
4,4'–DDD 8.1J 1.75
4,4'–DDT 5.4J 1.75
IR07B007
IR07B006
IR07SS27
Aldrin 9J 6.75
Dieldrin 34.6J 6.75
Endrin 6.6J 6.75
4,4'–DDE 111J 6.75
4,4'–DDD 245J 6.75
4,4'–DDT 70.6J 6.75
Aldrin 14J 3.75
4,4'–DDE 73J 1.75
4,4'–DDD 150J 1.75
4,4'–DDT 25J 1.75
IR07B024
IR07B032
IR07B008
Aldrin 2.6J 3.75
4,4'–DDT 9.1J 6.25
IR07B009
IR07B010
IR07B011
4,4'–DDT 20J 3.75
Aroclor–1260 340J 1.75
IR07B033
4,4'–DDD 6.6J 4.25
IR07SS28
4,4'–DDE 2.9J 1.75
4,4'–DDD 3.6J 1.75
4,4'–DDT 22J 1.75
IR07B012
IR07B014
IR07MW20A1
IR07MW20A2
IR07B015
144
IR07SS29
916
146
IR07B034
IR07B018
IR07B016
IR07B017
IR07MW19A
HUDSON
GALVEZ AVE
F
D
R–66A
V
103
117
DRAFT
CAD File Name: PCB12–91
Last Plot Date: 1/6/92
Harding Lawson Associates
Engineering and Environmental Services
Maximum Pesticide/PCB Concentrations in Soil
Sub–Base Area, IR–7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California
PLATE
11
DRAWN
RWS
JOB NUMBER
18639,490.02
APPROVED
DATE
11/91
REVISED DATE



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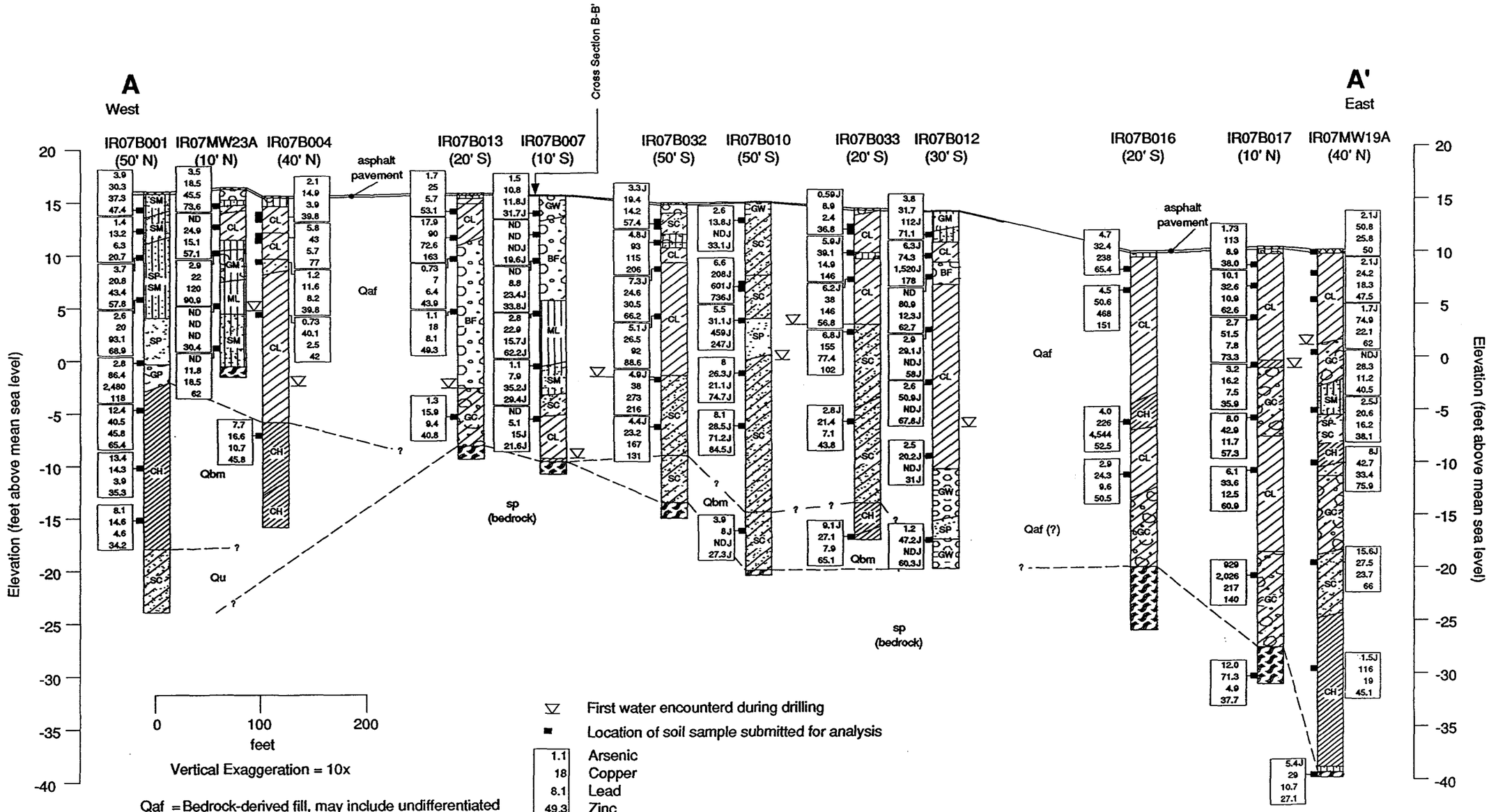
Engineering and Environmental Services

Maximum Concentrations of Arsenic, Copper, Lead, and Zinc in Soil
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE 12

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
RWS	18639,490.02		11/91	

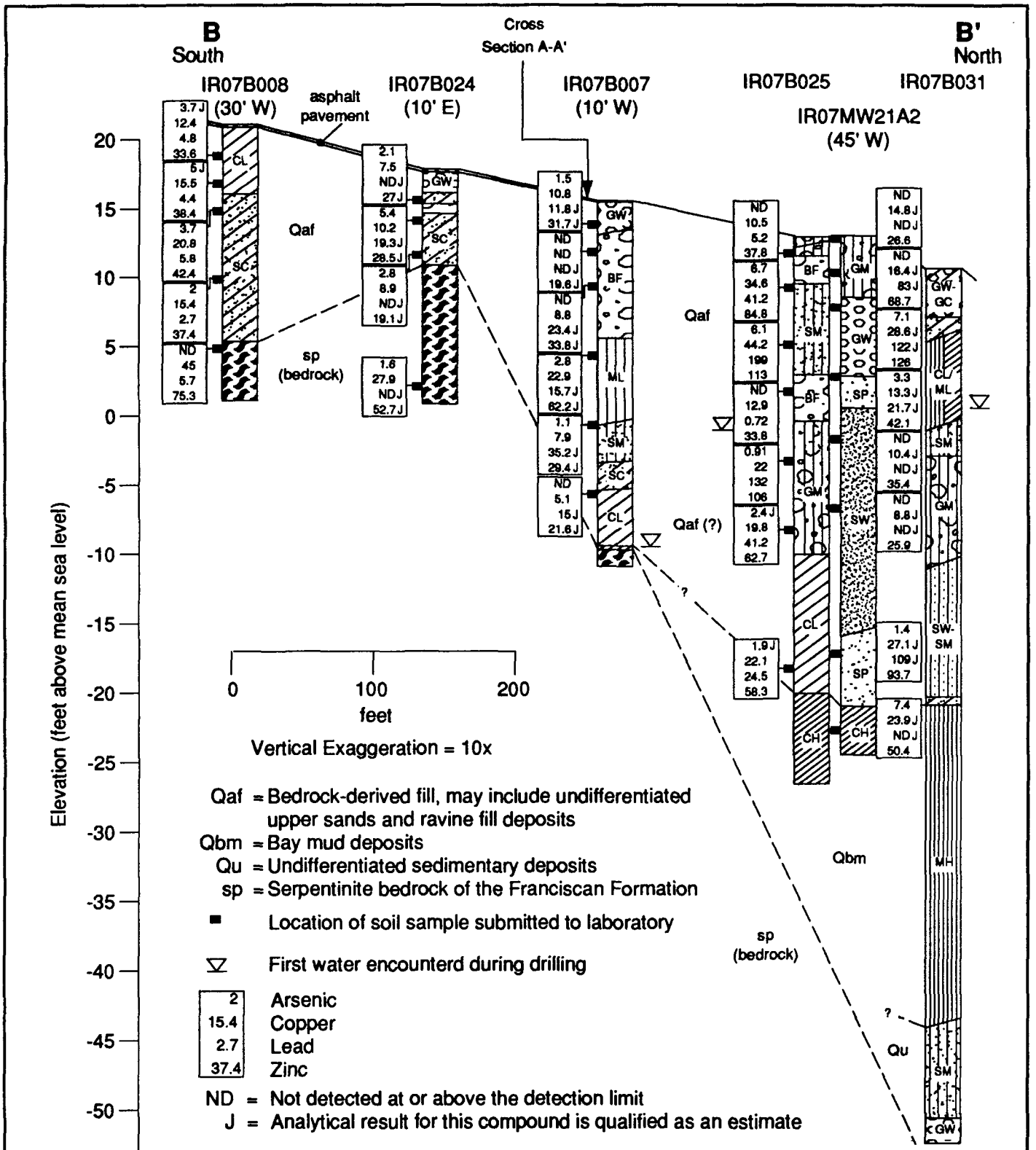


Harding Lawson Associates
Engineering and Environmental Services

Cross Section A-A' Showing Arsenic, Copper, Lead, and Zinc Concentrations in Soil
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE **13**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
DLFc	18639,490.02		1/92	

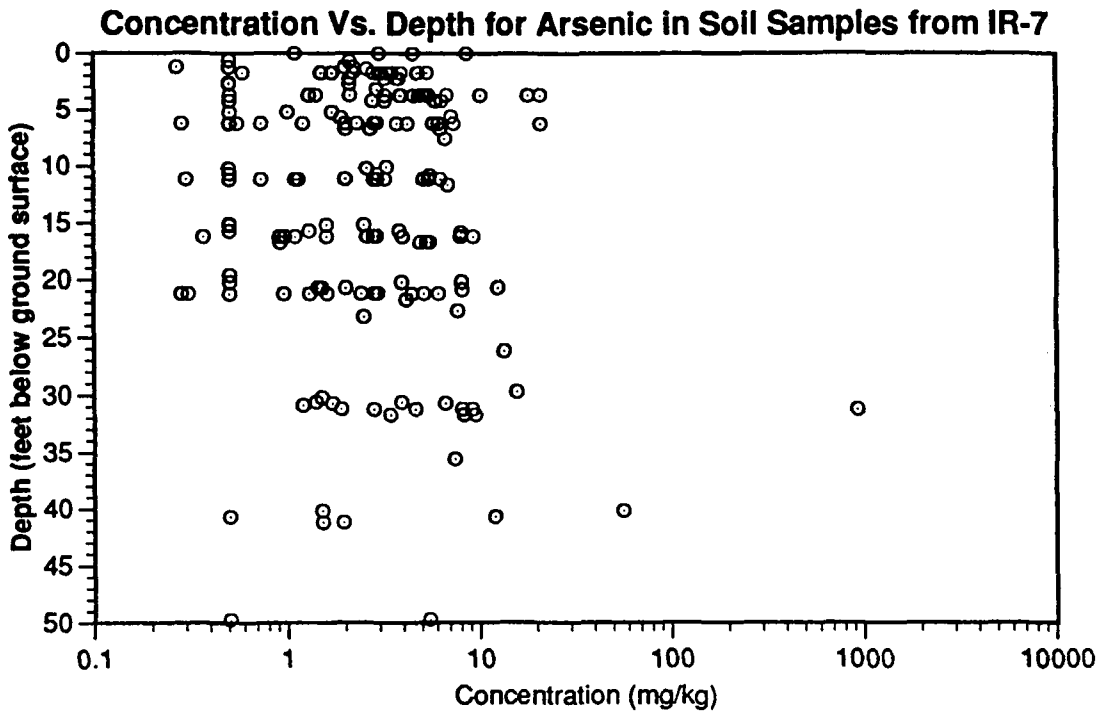


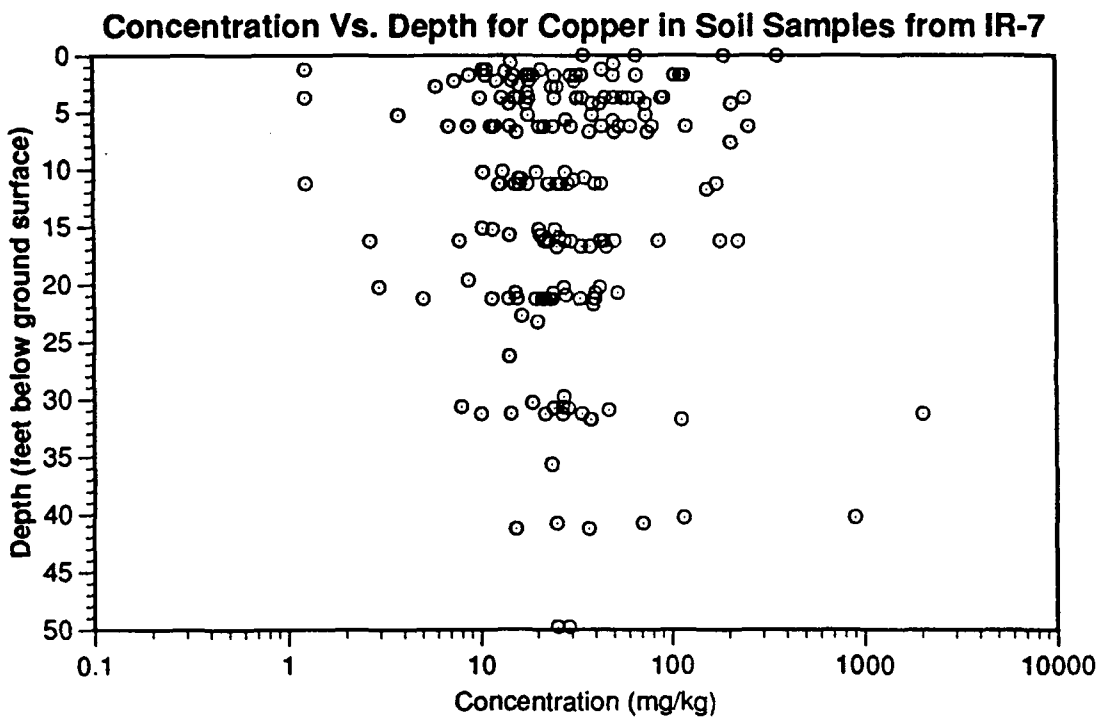
Harding Lawson Associates
Engineering and
Environmental Services

Cross Section B-B' Showing Arsenic, Copper, Lead, and Zinc Concentrations in Soil
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE **14**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
DLFc	18639,490.02		1/92	





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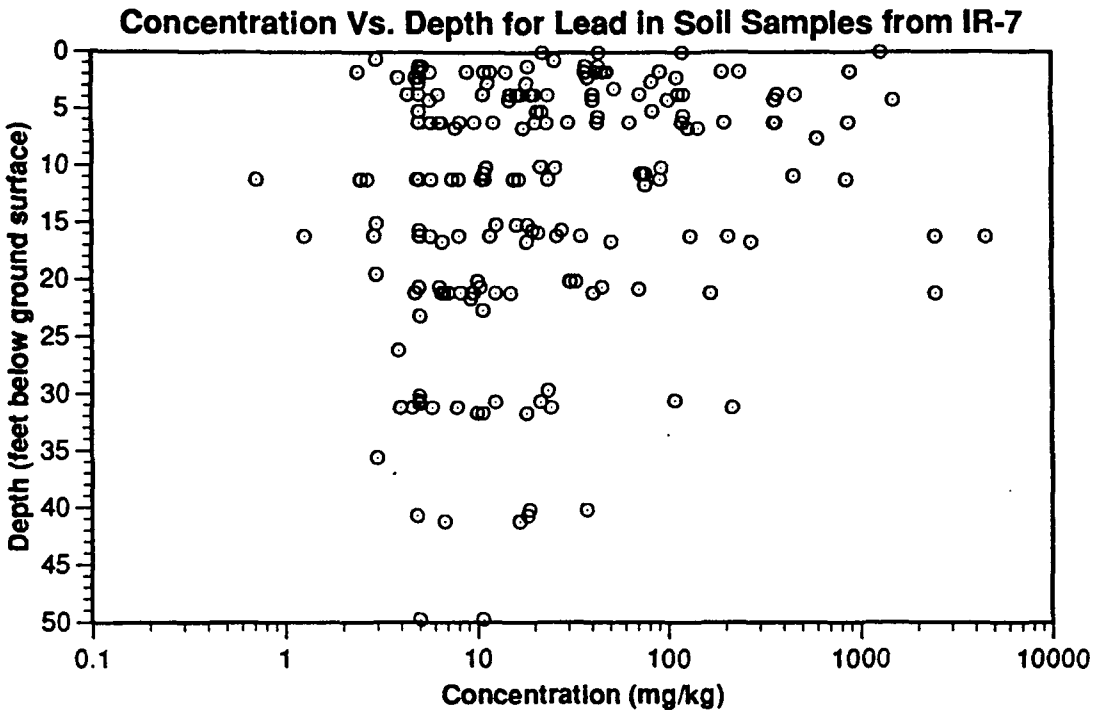
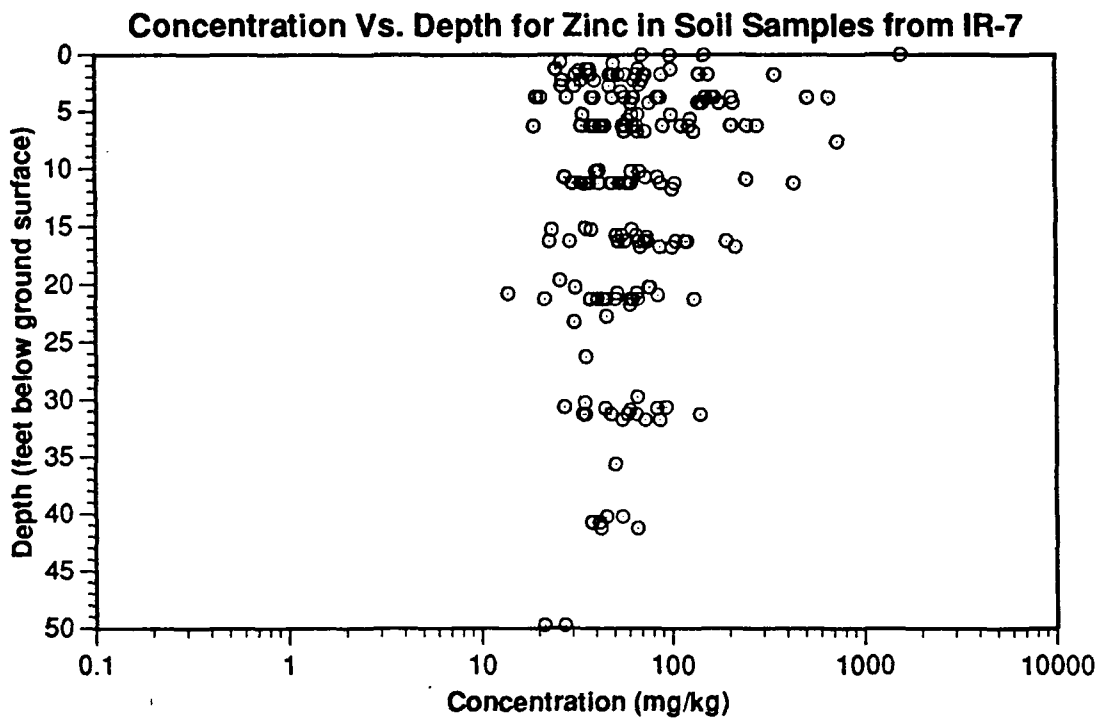
Arsenic and Copper Concentrations in Soil versus Depth
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE
15

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
DLFc	18639,490.02		1/92	





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Harding Lawson Associates
Engineering and
Environmental Services

Lead and Zinc Concentrations in Soil versus Depth
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE
16

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
DLFc	18639,490.02		1/92	

Appendix A

GEOLOGIC UNITS AT HUNTERS POINT

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APPENDIX A

Hunters Point Geology

The following list is a description of the geologic units that have been identified at Hunters Point. These descriptions are based on visual observations and the references listed. The units presented below should be used as working standards for the entire site, subject to changes as the investigation continues.

In general, the stratigraphic sequence in which these units are found, from top to bottom, is as follows: artificial fill (Qaf) slope debris or ravine fill (Qsr); undifferentiated upper sands (Quus); Bay mud deposits (Qbm); undifferentiated sedimentary deposits (Qu); and Franciscan Assemblage (bedrock).

Artificial Fill (Qaf)

Bedrock-Derived Fill:

Predominantly Franciscan-derived gravel- to boulder-sized material within a sand and/or clay matrix. Serpentinite is the dominant rock type, with minor amounts of chert, greenstone, shale, and graywacke. In some areas the bedrock-derived material may be mixed with fat "Bay mud" clays. The fill varies in color and size of material and is loose to very dense. It may also include ravine fill deposits, which cannot be easily distinguished from bedrock-derived fill. Thicknesses range from 0-50 feet.

Found at IR07.

Ref: Lowney-Kaldveer, 1972
HLA, 1988
HLA, 1990a
WESTEC, 1984

Industrial Fill:

Metal debris, processed wood fragments, bricks, concrete, and sandblast material; oily wastes and solvents have also been reported. Household refuse and cloth are present in the industrial fill. The materials are usually incorporated in a silty sand. Gravel- and boulder-sized Franciscan-derived material is often present.

Generally not found at IR-7; however, occasionally wood and brick fragments were found with bedrock-derived fill. Also, sandblast material has been reportedly dumped at IR07; however, these deposits have not been positively identified onsite.

Ref: HLA, 1988
WESTEC, 1984

Recently Imported Backfill Material:

Poorly graded, very fine- to fine-grained sand with fine to coarse angular gravel, occasionally well-graded fine- to coarse-grained sand with gravel. Brown, olive, and brownish yellow in color; loose to dense. Thicknesses range from 3-6 feet.

Not found at IR07.

Ref: HLA, 1990b

Slope Debris and Ravine Fill (Qsr):

Consists of gravelly, sandy, and silty clay; locally clayey sand and gravel; yellowish orange to medium gray color. Deposits were mapped in upland areas of HPA in the 1920s.

May be present in Painting Area of IR07 but is not distinguishable from bedrock-derived fill.

Ref: Bonilla, 1971
HLA, 1990a

Undifferentiated Upper Sands (Quus):

Poorly graded, very fine- to medium-grained sand, occasionally with silt to silty. Very dark gray to dark greenish gray and olive in color; trace to few shell fragments; very loose to medium dense. Origin is uncertain. May be from dredging operations ("hydraulic fill"), or, in some areas, it may be native. Ranges in thickness from 0-60 feet.

May be present at IR07, but has not been identified.

Ref: Lowney-Kaldveer, 1972
HLA, 1990b

Bay Mud Deposits (Qbm):

Silt and clay; dark greenish gray to dark gray, soft, highly plastic, with occasional peat and sand to clayey sand lenses, trace to abundant shell fragments. May have H_2S odor. Strength and density may be greater than expected due to consolidation from placement of fill on top of the Bay mud. Thicknesses range from 0-50 feet.

Found at IR07.

Ref: Lowney-Kaldveer, 1972
WESTEC, 1984
HLA, 1988
HLA, 1990a

Undifferentiated Sedimentary Deposits (Qu):

Poorly graded sand, silty sand, and gravel, interbedded with lean clay and silt that is stiff to very stiff. Greenish gray to olive and brown in color. May include sediments that correspond to the Colma Formation and "older Bay muds," which are distinguished from younger Bay muds by consistency (increased stiffness) and decreased moisture content. Thicknesses range from 0-220 feet.

Found at IR07.

Ref: Lowney-Kaldveer, 1972
HLA, 1988
Bonilla, 1971

Franciscan Assemblage (Bedrock):

[KJs and KJsk] Sandstone and shale; hard where fresh; soft where weathered or sheared. Color is medium dark gray where fresh, yellowish brown to yellowish orange where weathered.

[KJc] Chert with interbedded shale, occurring in thin to medium beds alternating with thin beds of shale, generally grayish red. Fractures are numerous in thin-bedded chert.

[KJg] Greenstone, dark gray to greenish gray where fresh; commonly grayish olive to olive gray where moderately weathered; hard where fresh; generally closely fractured.

[sp] Serpentinite, greenish gray; may contain small bodies of gabbro and diabase; soft where exposed and weathered; moderately fractured to crushed in places.

Found at IR07.

Ref: Bonilla, 1971
Schlocker, 1974

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References:

Bonilla, M.G., 1971. *Preliminary Geologic Map of the San Francisco South Quadrangle and Part of the Hunters Point Quadrangle, California.* United States Geological Survey Miscellaneous Field Studies Map MF-311, 1:24,000.

Harding Lawson Associates, 1988. *Scoping Document, Remedial Investigation/Feasibility Study, Naval Station, Treasure Island, Hunters Point Annex.*

_____, 1990a. *Reconnaissance Activities Report, Remedial Investigation/Feasibility Study, Naval Station, Treasure Island, Hunters Point Annex.*

_____, 1990b. *Interim Report, Phase I, Primary Remedial Investigation, Building 503,* PCB Spill Area (IR-8), Naval Station, Treasure Island, Hunters Point Annex, San Francisco, California.

Lowney-Kaldveer Associates, 1972. *Foundation Investigation, Water Pollution Abatement Facilities, Hunters Point Naval Shipyard.*

Schlocker, J., 1974. *Geology of the San Francisco North Quadrangle, California.* Geological Survey Professional Paper 782.

WESTEC Services, Inc., 1984. *Initial Assessment Study, Hunters Point Naval Shipyard (Disestablished), San Francisco, California.*

Additional References:

Blake, M.C., Jr., et al, 1974. *Preliminary Geologic Map of Marin and San Francisco Counties and Parts of Alameda, Contra Costa, and Sonoma Counties, California.* MFS Map.

California Division of Mines and Geology, 1969. *Geologic and Engineering Aspects of San Francisco Bay Fill.* Special Report 97.

Helley, E. J. and K.R. LaJoie, 1979. *Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning, Selected Examples from the San Francisco Bay Region, California.* Geological Survey Professional Paper 943.

Nichols, Donald R. and Nancy A. Wright, 1971. *Preliminary Map of Historic Margins of Marshland, San Francisco Bay, California.* U.S. Geological Survey Open File Report.

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Appendix B

BORING LITHOLOGIC LOGS

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ASTM D2488-84

MAJOR DIVISIONS				TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN No. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN No. 4 SIEVE	CLEAN GRAVELS WITH < 5% FINES	GW	WELL GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
			GP	POORLY GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
		GRAVELS WITH 5-15% FINES	GW-GC	WELL GRADED GRAVELS WITH CLAY, WITH OR WITHOUT SAND
			GP-GC	POORLY GRADED GRAVELS WITH CLAY, WITH OR WITHOUT SAND
			GW-GM	WELL GRADED GRAVELS WITH SILT, WITH OR WITHOUT SAND
			GP-GM	POORLY GRADED GRAVELS WITH SILT, WITH OR WITHOUT SAND
		GRAVELS WITH OVER 15% FINES	GC	CLAYEY GRAVELS WITH OR WITHOUT SAND
			GM	SILTY GRAVELS WITH OR WITHOUT SAND
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN No. 4 SIEVE	CLEAN SANDS WITH < 5% FINES	SW	WELL GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
			SP	POORLY GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
		SANDS WITH 5-15% FINES	SW-SC	WELL GRADED SANDS WITH CLAY, WITH OR WITHOUT GRAVEL
			SP-SC	POORLY GRADED SANDS WITH CLAY, WITH OR WITHOUT GRAVEL
			SW-SM	WELL GRADED SANDS WITH SILT, WITH OR WITHOUT GRAVEL
			SP-SM	POORLY GRADED SANDS WITH SILT, WITH OR WITHOUT GRAVEL
		SANDS WITH OVER 15% FINES	SC	CLAYEY SANDS WITH OR WITHOUT GRAVEL
			SM	SILTY SANDS WITH OR WITHOUT GRAVEL
FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN No. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, CLAYS WITH SAND AND GRAVEL, LEAN CLAYS
			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTS WITH SAND AND GRAVEL
			OL	ORGANIC SILTS OR CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS (Borderline classification used to indicate the soil does not have field identifiable properties that place the soil in a specific group.)		ML/CL	INORGANIC CLAYEY SILTS, WITH OR WITHOUT SAND AND GRAVEL
			CL/ML	INORGANIC SILTY CLAYS OF LOW TO MEDIUM PLASTICITY, WITH OR WITHOUT SAND AND GRAVEL
			MH/CH	INORGANIC ELASTIC CLAYEY SILTS, WITH OR WITHOUT SAND AND GRAVEL
			CH/MH	INORGANIC SILTY CLAYS OF HIGH PLASTICITY, WITH OR WITHOUT SAND AND GRAVEL
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			OH	ORGANIC SILTS OR CLAYS OF MEDIUM TO HIGH PLASTICITY
			Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS
OTHER	BOULDERS > 50%		BF[1]	BOULDER FILL WITH OR WITHOUT GRAVEL, SAND, AND FINES
	SERPENTINITE BEDROCK		sp[2]	SERPENTINITE BEDROCK

1. Not Part of ASTM Classification System
2. Bonilla, M.G.,1971. Preliminary Geologic Map of the San Francisco South Quadrangle and Part of the Hunters Point Quadrangle, California, USGS Miscellaneous Field Studies Map MF-311,1:24,000.

KEY TO BOREHOLE NUMBERING SYSTEM

06 MW 06

- 06 — IR Site Number
- MW — Boring or Monitoring Well Designation (B=Boring, MW=Monitoring Well, SS=Sediment Sample)
- 06 — Well or Boring Number

KEY TO SOIL SAMPLE NUMBERING SYSTEM

9133M156	Sample Submitted for Chemical Testing
9132H856-P	Sample Submitted for Physical Testing

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Soil Classification Chart
Sub-Base Area, IR-7
Summary of Findings Memorandum
Hunters Point Annex
San Francisco, California

PLATE **B1**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PG	18639,490.02		12/91	01/92

Log of Boring: IR07B001
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/06/1991
Elevation: GS 16.05 feet
Total Depth: 40.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
			0	ASPHALT
30, 34, 37	0	9132H774		OLIVE GRAY SILTY SAND WITH GRAVEL (SM) 5Y5/2, loose, dry, 50% very fine to fine-grained sand, 30% fine to medium subangular to subrounded gravel, 20% silt, fill
35, 33, 27, 22	0	9132H775		DARK BROWN POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), 10YR3/3, dense, dry, 60-70% fine-grained sand, 20-30% well-graded subangular gravel, 10% silt, trace brick debris, fill
23, 28, 35, 29	0	9132H776	5	
				BROWN SILTY SAND WITH GRAVEL (SM) 10YR4/3, dense, moist, 60% fine-grained sand, 20-30% well-graded gravel, 10-20% silt, fill
				Some asphalt debris from 3.5 to 4 ft.
50	0	9132H777	10	Some orange ceramic tile debris at 4 ft.
				BROWN POORLY GRADED SAND WITH GRAVEL (SP-SM) medium dense, moist, 70% fine-grained sand, 20% well-graded gravel, 10% silt, little asphalt debris, fill
				Mostly asphalt debris at 10 ft.
5, 15, 17	0	9132H778	15	VERY DARK GRAYISH BROWN POORLY GRADED SAND (SP) loose, moist, mostly wood debris, 30-40% fine-grained sand, fill
				DARK BROWN POORLY GRADED GRAVEL (GP) 7.5YR3/3, loose, wet, 100% chert gravel, fill
2, 1, 1	30	9132H779	20	DARK GREENISH GRAY SANDY FAT CLAY (CH) 5GY4/1, soft, moist, 60-70% clay, 30-40% fine-grained poorly graded sand, little shell fragments
			25	Decreasing sand to 20% at 25 ft.
1, 2, 1	20	9132H780		
1, 1, 2	20	9132H781	30	
			35	PALE OLIVE CLAYEY SAND (SC) 5Y6/4, loose, wet, 50-70% fine-grained sand, 30-50% fat clay
2, 3, 2				
			40	Bottom of boring at 40 ft. Boring backfilled with bentonite cement grout (8/6/91)

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Log of Boring: IR07B001
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B2**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B002
Equipment: CME 750 (HSA), 8.0 in. diam.
Date: 12/07/1990
Elevation: GS 13.62 feet
Total Depth: 28.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
7 20 22	0	9049P100	0	ASPHALT OLIVE WELL-GRADED SAND WITH GRAVEL (SW) 5Y5/4, loose, dry, 50-60% fine to medium-grained sand, 40-50% medium to coarse gravel, fill
40 50	0	9049P101		BROWN POORLY GRADED SAND (SP) 7.5YR5/4, loose to medium dense, dry, 90% fine-grained sand, 10% gravel, trace brick fragments, fill
41 35 40	2	9049P102	5	ASPHALT YELLOWISH BROWN GRAVELLY LEAN CLAY (CL) 10YR5/4, stiff, dry, 60-70% clay, 30% medium gravel, 10% sand, fill
4 5 5	0	9049P103	10	Brick debris from 5.75 to 6 ft. YELLOWISH BROWN SANDY LEAN CLAY (CL) 10YR5/6, 50-60% clay, 30-40% fine-grained sand, 10% gravel, fill
3 8 8	3	9049P104	15	OLIVE POORLY GRADED SAND (SP) 5Y4/3, loose, wet, 95% fine serpentinite sand, 5% silt, fill OLIVE POORLY GRADED GRAVEL (GP) 5Y4/3, 90% coarse gravel, 5% fine-grained sand, 5% wood fragments, fill
7 8 11	4	9049P105	20	VERY DARK GRAY WELL-GRADED GRAVEL WITH SAND (GW) 50-60% coarse gravel, 20-30% fine-grained sand, 20-30% wood and brick, fill SERPENTINITE (Identification based on observation of ends of tubes)
50			25	Bottom of boring at 28 feet. Boring backfilled with bentonite cement grout (12/07/90)

Harding Lawson Associates
Engineering and Environmental Services

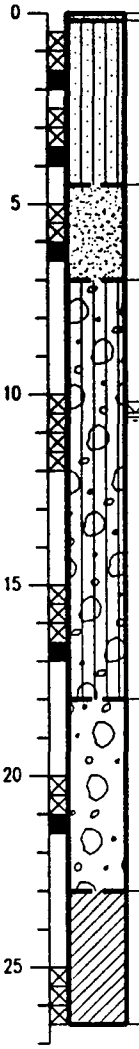
Log of Boring: IR07B002
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B3**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		5/91	

Log of Boring: IR07B003
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/08/1991
Elevation: GS 11.55 feet
Total Depth: 26.5 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)
10			0
12			
18	0	9132H802	
11			
10			
9	0	9132H803	
11			5
11			
16	0	9132H804	
11			10
15	0		
12			
14			
7			15
4			
5			
7		9132H805	
11			20
4			
7	0	9132H806	
2			25
2	120		
2			



ASPHALT

DARK BROWN POORLY GRADED SAND WITH SILT (SP-SM)
10YR3/3, loose to medium dense, moist,
70-80% fine-grained sand, 10-20% fine to medium subangular to subrounded gravel,
10% silt, fill

DARK BROWN POORLY GRADED SAND (SP)
10YR3/3, loose, moist,
85-90% fine-grained sand, 10-15% poorly graded fine gravel, little brick debris,
fill

DARK GRAY SILTY GRAVEL WITH SAND (GM)
5Y4/1, medium dense, wet,
50-70% well-graded serpentinite gravel,
30% silt, trace to 20% fine-grained sand,
fill

DARK GREENISH GRAY SERPENTINITE BOULDER FILL
5GY4/1, loose, wet,
moderately to intensely fractured, highly weathered, fill

DARK GREENISH GRAY FAT CLAY (CH)
5GY4/1, stiff, moist,
95% clay, 5% silt, little shell fragments,
Bay Mud deposits

Bottom of boring at 26.5 ft.
Boring backfilled with bentonite cement grout (8/8/91)

Harding Lawson Associates
Engineering and Environmental Services

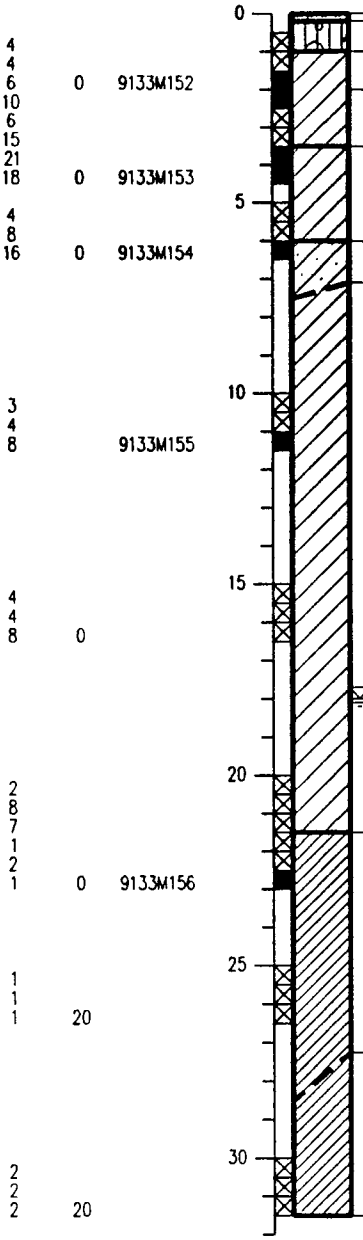
Log of Boring: IR07B003
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE
B4

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B004
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/13/1991
Elevation: GS 15.62 feet
Total Depth: 31.5 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)
4			0
4			
6	0	9133M152	
10			
6			
15			
21			
18	0	9133M153	
4			5
8			
16	0	9133M154	
3			10
4			
8		9133M155	
4			15
4			
8	0		
2			20
8			
7			
1			
2			
1	0	9133M156	
1			25
1			
1	20		
2			30
2			
2	20		



ASPHALT

DARK GRAYISH BROWN SILTY GRAVEL WITH SAND (GM)
fill

DARK YELLOWISH BROWN SANDY LEAN CLAY (CL)
10YR4/6, medium stiff, dry,
60% clay, 40% fine-grained sand, fill

Color change to dark olive gray (5Y3/2)
at 2 ft.

VERY DARK GRAY LEAN CLAY WITH SAND (CL)
2.5Y3/0, medium dense, moist,
80% clay, 20% fine to medium-grained sand,
trace brick fragments, fill

BROWN POORLY GRADED SAND WITH CLAY (SP-SC)
10YR5/3, medium dense, moist,
90% sand, 10% clay, trace brick fragments,
fill

DARK YELLOWISH BROWN SANDY LEAN CLAY (CL)
10YR4/4, medium dense, moist,
65% clay, 30% very fine to fine-grained
sand, 5% sandstone gravel, fill

Wet at 18 ft.

DARK OLIVE GRAY SANDY FAT CLAY (CH)
5Y3/2, soft, wet,
60% clay, 40% very fine to fine-grained
sand, trace fragments

DARK OLIVE GRAY FAT CLAY (CH)
5Y3/2, soft, wet,
90% clay, 10% fine-grained sand, trace
shell fragments, Bay Mud deposits

Bottom of boring at 31.5 ft.
Boring backfilled with bentonite cement
grout (8/13/91)

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Environmental Services

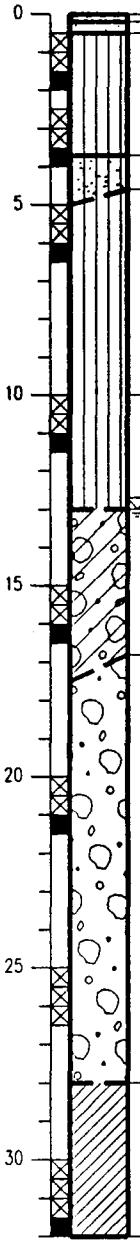
Log of Boring: IR07B004
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE
B5

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B005
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/06/1991
Elevation: GS 13.05 feet
Total Depth: 32.0 ft.

Blows / 6"	OVA (ppm)	Sample Number
12		
12		
12	0	9132H782
11		
12		
11	0	9132H783
8		
7		
20	0	9132H784
5		
5		
7	1	9132H785
4		
5		
5		9132H786
4		
5		
5	1	9132H787
11		
6		
5	1	
1		
2		
2		
2	2	9132H788



ASPHALT

DARK GRAYISH BROWN WELL-GRADED SAND WITH GRAVEL (SW)
2.5Y4/2, loose, moist,
70% fine to medium-grained sand, 30% well-graded subrounded to subangular serpentinite gravel, trace silt, fill

VERY DARK GRAYISH BROWN SANDY SILT WITH GRAVEL (ML)
2.5Y3/2, stiff, dry,
50% silt, 25-30% fine to medium-grained sand, 20-25% well-graded gravel, fill

OLIVE YELLOW SILTY SAND (SM)
2.5Y6/6, dense, dry,
50-70% fine-grained sand, 30-50% silt, trace to 10% poorly graded gravel, trace clay, trace slag-like material, fill

BLACK SILT (ML)
5Y2.5/2, medium stiff, moist to dry,
90% silt, 10% very fine-grained sand, fill

Increase sand to 25%, trace clay, little wood debris at 10 ft.

BLACK CLAYEY GRAVEL (GC)
5Y2.5/2, loose to dense, wet,
70% serpentinite gravel, 30% silty clay, fill

DARK GREENISH GRAY SERPENTINITE BOULDER FILL
5G4/1, moist,
intensely to occasionally fractured, fill

DARK GREENISH GRAY FAT CLAY (CH)
5GY4/1, stiff, moist,
95% clay, 5% silt, few shell fragments, Bay Mud deposits

Bottom of boring at 32 feet. Boring backfilled with bentonite cement grout (8/6/91)

Harding Lawson Associates
Engineering and Environmental Services

Log of Boring: IR07B005
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE
B6

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B006
Equipment: CME 750 (HSA), 8.0 in. diam.
Date: 12/07/1990
Elevation: GS 12.66 feet
Total Depth: 37.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
3 6 11	1	9049P106	0	OLIVE WELL-GRADED SAND WITH GRAVEL (SW) 5Y4/3, loose, dry, 60-80% fine to medium-grained sand, 20-40% angular gravel up to 2 inches in diameter, fill
11 20 17	1	9049P107		Color change to reddish gray (5YR5/2), trace bricks at 1.5 ft.
16 13 11	0	9049P108	5	OLIVE SERPENTINITE BOULDER FILL 5Y5/4, dry to moist, moderately to intensely fractured, weathered
				OLIVE WELL-GRADED SAND WITH SILT AND GRAVEL (SW-SM) 5Y5/3, loose, dry, 60% fine to medium-grained sand, 30% serpentinite gravel, 10% silt, fill
9 11 11	1	9049P109	10	DARK GRAYISH BROWN LEAN CLAY WITH GRAVEL (CL) 10YR4/2, medium stiff, moist, 60% clay, 20-30% gravel, 10-20% fine-grained sand, fill
2 6 9	0	9049P110	15	Wet at 15 ft.
3 6 9	0	9049P111	20	VERY DARK BROWN WELL-GRADED GRAVEL WITH CLAY (GW-GC) 10YR2/2, loose, wet, 85% chert gravel, 10% clay, 5% fine-grained sand, fill
				DARK OLIVE GRAY CLAYEY SAND (SC) 5Y3/2, loose, wet, 60% fine-grained sand, 40% clay, trace shell fragments
2 9 22	10		25	Abundant wood from 25 to 30 ft.
7 5 6	1	9049P112	30	OLIVE GRAY FAT CLAY (CH) 5Y4/2, soft, moist, trace shell fragments, Bay Mud deposits
3 4 4	0		35	Bottom of boring at 37 ft. Boring backfilled with bentonite cement grout (12/7/90)

Harding Lawson Associates
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Log of Boring: IR07B006
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B7**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		4/91	

Log of Boring: IR07B007
Equipment: CME 750 (HSA), 8.0 in. diam.
Date: 12/05/1990
Elevation: GS 15.58 feet
Total Depth: 26.5 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
			0	ASPHALT
2, 10, 11	0	9049H566		OLIVE BROWN WELL-GRADED GRAVEL WITH SAND (GW) 2.5Y4/4, loose, moist, 60% gravel, 40% sand, fill
9, 21, 23	1	9049H567		Color change to greenish gray (5GY5/1) at 0.5 ft.
9, 29, 34	1	9049H568	5	GRAYISH GREEN SERPENTINITE BOULDER FILL medium dense, dry
6, 9, 11	1	9049H569	10	OLIVE BROWN GRAVELLY SILT WITH SAND (ML) 2.5Y4/4, medium stiff, dry, 50% silt, 30% gravel, 20% fine to medium-grained sand, fill
2, 4, 8	0	9049H570	15	YELLOWISH BROWN SILTY SAND (SM) 10YR5/8, medium dense, moist to wet, 70% fine-grained sand, 30% silt, fill
				OLIVE CLAYEY SAND (SC) 5Y4/3, medium dense, moist, fine-grained sand, trace gravel, increasing clay with depth, fill
2, 4, 8	2	9049H571	20	BLACK LEAN CLAY (CL) medium stiff, moist, 60% clay, 40% silt, trace shell fragments
50			25	DARK GREENISH GRAY FAT CLAY (CH) 5GY4/1, soft, moist to wet, 90-95% clay, 5-10% silt, 10-15% shell fragments

Refusal at 26.5 ft (Bedrock?)
Boring backfilled with bentonite cement grout (12/6/90)

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Log of Boring: IR07B007
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B8**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		5/91	

Log of Boring: IR07B008
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/13/1991
Elevation: GS 21.08 feet
Total Depth: 20.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
			0	ASPHALT
8 10 14 18	0	9133M134		DARK YELLOWISH BROWN SANDY LEAN CLAY (CL) 10YR3/6, medium stiff, dry to moist, 60% clay, 40% very fine-grained sand, fill
8 12 13 20	0	9133M135		Color change to dark brown (10YR3/4) at 3 ft.
			5	DARK YELLOWISH BROWN CLAYEY SAND (SC) 10YR4/4, medium dense, dry to moist, 60% fine-grained sand, 40% clay, trace gravel, fill
4 11 8	0	9133M136		
			10	
4 10 20	0	9133M137		
			15	
4 12 22	0	9133M138		OLIVE YELLOW CLAYSTONE BEDROCK 2.5Y6/6, low hardness, crushed, friable, deeply weathered
			20	Bottom of boring at 20 ft. Boring backfilled with bentonite cement grout (8/13/91)

Harding Lawson Associates
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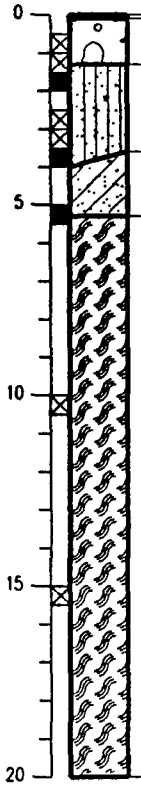
Log of Boring: IR07B008
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE
B9

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B009
Equipment: CME 750 (HSA), 8.0 in. diam.
Date: 12/04/1990
Elevation: GS 19.29 feet
Total Depth: 20.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)
3			0
12			
19	0	9049H551	
9			
16			
17	4	9049H552	
50	0	9049H553	5
50	0		10
50	2		15
			20



ASPHALT

OLIVE BROWN WELL-GRADED GRAVEL WITH SAND (GW)
2.5Y4/4, loose, moist,
70% angular to subangular mostly serpentinite gravel, 30% fine to coarse-grained sand, fill

VERY DARK GRAYISH BROWN SILTY SAND (SM)
medium dense, moist,
80% fine-grained sand, 15% silt,
5% subangular to subrounded serpentinite gravel, fill

VERY DARK GRAYISH BROWN CLAYEY SAND (SC)
10YR3/2, medium dense, moist,
80-90% fine-grained sand, 10-15% clay, trace fine gravel, fill

OLIVE SERPENTINITE

moderately fractured, deeply weathered

Bottom of boring at 20 ft.
Boring backfilled with bentonite cement grout (12/4/90)

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Log of Boring: IR07B009
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE
B10

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		5/91	

Log of Boring: IR07B010
Equipment: CME 750 (HSA), 8.0 in. diam.
Date: 12/04/1990
Elevation: GS 14.83 feet
Total Depth: 35.5 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
			0	ASPHALT
12, 16, 19	0	9049H545		DARK GRAYISH BROWN WELL-GRADED GRAVEL WITH SAND (GW) loose, moist, 70% subangular to subrounded serpentinite gravel, 30% fine to coarse-grained sand, fill
27, 15, 17	50			
50	30		5	STRONG BROWN CLAYEY SAND (SC) 7.5YR4/6, medium dense, moist, 50-70% fine to medium-grained sand, 30-50% clay, fill
10, 15, 18	1	9049H546		Wood debris from 2.5 to 7 ft.
				YELLOWISH BROWN CLAYEY SAND WITH GRAVEL (SC) 10YR5/6, medium dense, moist, 40-60% very fine to fine-grained sand, 20-30% subrounded gravel, 20-30% clay, fill
11, 12, 36	1	9049H547	10	Brick and wood debris at 10.5 ft.
				DARK BROWN POORLY GRADED SAND (SP) 10YR3/3, loose, moist, 90-95% fine-grained sand, 5-10% silt, brick debris, fill
2, 4, 6	4	9049H548	15	YELLOWISH BROWN CLAYEY SAND WITH GRAVEL (SC) 10YR5/6, medium dense, wet, 60% fine-grained sand, 20-25% gravel, 15-20% clay, fill
2, 4, 6	0	9049H549	20	Wood debris at 21 ft.
4, 4, 10	18		25	Color change to dark greenish gray
2, 3, 3	20	9049H550	30	VERY DARK GRAY CLAYEY SAND (SC) 5Y3/1, loose to medium dense, wet, 50-90% fine-grained sand, 10-50% fat clay, 5-10% shell fragments, increasing sand with depth
50			35	GREENISH GRAY SERPENTINITE

Bottom of boring at 35.5 ft.
Boring backfilled with bentonite cement grout (12/4/90)

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Log of Boring: IR07B010
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B11**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		5/91	

Log of Boring: IR07B011
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/07/1991
Elevation: GS 12.23 feet
Total Depth: 35.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
8, 5, 7		9132H796	0	LIGHT OLIVE GRAY SANDY SILT WITH GRAVEL (ML) 5Y6/2, loose, dry, 50% silt, 30% fine-grained sand, 20% well-graded subangular to subrounded gravel, fill
7, 12, 30	0	9132H797		VERY DARK GRAY GRAVELLY SILT WITH SAND (ML) 5Y3/1, medium stiff, moist, 60-70% silt, 20-30% poorly graded subangular to subrounded serpentinite gravel, 10% fine-grained sand, fill
7, 9, 9, 10		9132H798	5	Color change to dark brown (7.5YR3/2), increasing gravel to 45-50%, 50% silt at 2.5 ft.
				VERY DARK GRAYISH BROWN LEAN CLAY (CL) 2.5Y3/2, medium stiff, moist, 50% clay, 40% silt, 5-10% poorly graded serpentinite gravel, trace to 5% fine-grained sand, fill
5, 4, 5	0	9132H799	10	DARK BROWN SILT WITH GRAVEL (ML) 10YR3/3, medium stiff, dry, 70-80% silt, 10-20% fine gravel, 10% fine-grained sand, fill
				DARK OLIVE GRAY SANDY LEAN CLAY WITH GRAVEL (CL) 5Y3/2, soft to medium stiff, wet, 60% clay, 20-30% fine to medium-grained sand, 10-20% poorly graded subrounded serpentinite gravel, fill
56, 32, 17, 9	0	9132H800	15	DARK GREENISH GRAY SERPENTINITE BOULDER FILL 5GY4/1, wet, occasionally to intensely fractured, highly weathered, trace concrete debris
2, 3, 2	1	9132H801	20	
7, 10, 9, 12			25	
3, 5, 5			30	
			35	Drilling refusal at 35 ft. Boring backfilled with bentonite cement grout (8/7/91)

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Log of Boring: IR07B011
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B12**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B012
Equipment: CME 750 (HSA), 8.0 in. diam.
Date: 12/04/1990
Elevation: GS 13.92 feet
Total Depth: 34.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
			0	ASPHALT
8 12 23	0	9049H538		VERY DARK GRAYISH BROWN SILTY GRAVEL WITH SAND (GM) 2.5Y3/2, loose to medium dense, moist, 50-60% well-graded subangular gravel, 20% fine to medium-grained sand, 20-30% silt, trace brick fragments, fill
20 21 24	2	9049H539		
			5	DARK YELLOWISH BROWN SILTY SAND WITH GRAVEL (SM) 10YR3/6, loose, moist, 70-80% fine to medium-grained sand, 5-10% gravel, 20-25% silt, fill
16 17 13	0	9049H540		
				DARK BROWN GRAVELLY LEAN CLAY WITH SAND (CL) 10YR3/3, medium stiff to stiff, dry to moist, 50% clay, 30% fine-grained sand, 20% subangular to subrounded gravel, abundant wood debris, fill
			10	GREENISH GRAY SERPENTINITE BOULDER FILL
2 6 5	0	9049H541		abundant wood debris
				VERY DARK GRAYISH BROWN SANDY LEAN CLAY WITH GRAVEL (CL), 10YR3/2, soft, moist, 50-60% clay, 20-30% fine to medium-grained sand, 15-20% well-graded subangular serpentinite gravel, fill
			15	Increasing clay, decreasing sand
2 3 3	0	9049H542		
			20	Wet at 20.5 ft.
3 10 12				
2 6 12	0	9049H543		
			25	DARK GREENISH GRAY WELL-GRADED GRAVEL WITH SAND (GW) 5G4/1, loose, wet, 80% fine to coarse angular serpentinite gravel, 20% fine-grained sand, fill
2 4 8	0			
			30	DARK GREENISH GRAY POORLY GRADED SAND (SP) 5G4/1, loose, wet, fine-grained sand
31 13 23	0	9049H544		
				DARK GREENISH GRAY WELL-GRADED GRAVEL (GW) 5GY4/1, loose, wet, angular serpentinite gravel
				Drilling refusal at 34 ft. Boring backfilled with bentonite cement grout (12/4/90)

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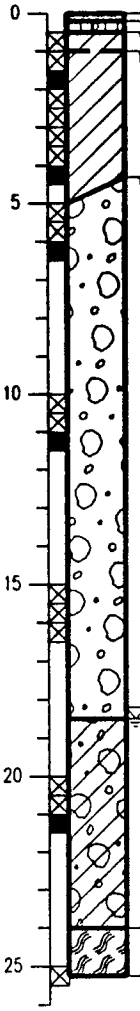
Log of Boring: IR07B012
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B13**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		4/91	

Log of Boring: IR07B013
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/13/1991
Elevation: GS 15.81 feet
Total Depth: 25.3 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)
4			0
8			
7	1	9133M139	
6			
4			
5			
21			
15	5	9133M140	
4			5
5			
6	4	9133M141	
4			10
4			
5	0	9133M142	
6			15
7			
9	0		
8			20
6			
4	0	9133M143	
50	0		25



ASPHALT

DARK GRAYISH BROWN SILTY GRAVEL WITH SAND (GM)
2.5Y4/2, medium dense, dry,
50% subrounded sandstone gravel, 30% fine-grained sand, 20% silt, fill

DARK YELLOWISH BROWN SANDY LEAN CLAY (CL)
10YR4/4, medium stiff, moist,
65% clay, 35% very fine to fine-grained sand, trace gravel, fill

DARK GRAY SANDY LEAN CLAY WITH GRAVEL (CL)
5Y4/1, medium stiff to stiff, moist,
45% clay, 35% fine-grained sand,
20% subangular serpentinite gravel, fill

Color mottled with yellowish brown (10YR4/4) at 1 ft.

BROWN SERPENTINITE BOULDER FILL
10YR4/4,
intensely fractured, low to moderate hardness, weak, deeply weathered, fill

DARK OLIVE GREEN CLAYEY GRAVEL WITH SAND (GC)
5Y3/2, medium dense, wet,
60% subangular serpentinite gravel,
30% fine-grained sand, 10% clay, fill

OLIVE SERPENTINITE BEDROCK
5Y4/4, wet,
intensely fractured, hard, moderate to deeply weathered

Bottom of boring at 25.25 ft.
Boring backfilled with bentonite cement grout (8/13/91)

Harding Lawson Associates
Engineering and Environmental Services

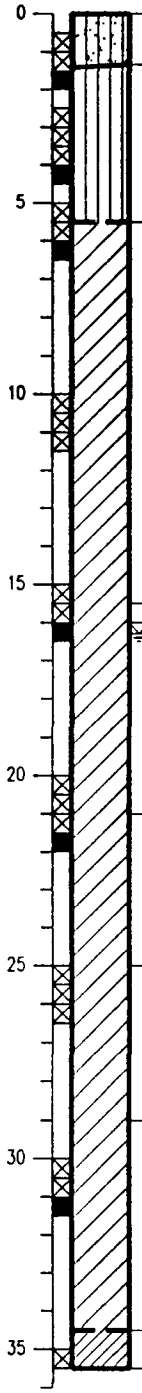
Log of Boring: IR07B013
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE
B14

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B014
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/12/1991
Elevation: GS 9.86 feet
Total Depth: 35.5 ft.

Blows / 6"	OVA (ppm)	Sample Number
24		
14		
18	0	9133H835
14		
18		
12		
16	0	9133H836
4		
5		
4		9133H837
3		
4		
3		
3		
4		
3	0	9133H838
3		
4		
6		
8	0	9133H839
3		
7		
8	1	
18		
10		
9	0	9133H840
81	50	



LIGHT OLIVE BROWN SILTY SAND WITH GRAVEL (SM)
2.5Y5/3, loose, dry,
50% well-graded sand, 30% well-graded angular to subangular gravel, 20% silt, fill

DARK BROWN GRAVELLY SILT WITH SAND (ML)
10YR3/3, medium stiff, moist,
50% silt, 30-35% well-graded angular to subangular gravel, 15-20% fine-grained sand, trace clay, fill

DARK GRAYISH BROWN GRAVELLY LEAN CLAY WITH SAND (CL)
2.5Y4/2, soft to medium stiff, moist,
60-70% clay, 20-30% poorly graded subangular to subrounded serpentinite gravel,
10-20% fine-grained sand, fill

Decreasing gravel to 10-15% at 15.5 ft.

30-40% chert gravel, color change to reddish brown (5YR4/4), becoming wet at 16.3 ft.

Color change to black (5Y2.5/2), decreasing gravel to trace at 21 ft.

Color change to dark gray (5Y4/1), increasing gravel to 20% at 25 ft.

Serpentinite boulder at 29 ft.

DARK GREENISH GRAY FAT CLAY (CH)
5GY4/1, soft to medium stiff, moist to wet,
95% clay, 5% silt, some shell fragments,
Bay Mud deposits

Bottom of boring at 35.5 ft.
Boring backfilled with bentonite cement grout (8/12/91)

Harding Lawson Associates
Engineering and Environmental Services

Log of Boring: IR07B014
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B15**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B015
Equipment: CME-55 (HSA), 8.0 in. diam.
Date: 08/08/1991
Elevation: GS 9.81 feet
Total Depth: 40.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
			0	ASPHALT
9, 7, 6	0	9132H807		DARK YELLOWISH BROWN GRAVEL WITH SILT AND SAND (GP-GM) 10YR3/4, dense, dry, 50-60% fine to medium subangular to subrounded gravel, 30-40% fine-grained sand, 10% silt, fill
5, 3, 5	0	9132H808		
			5	DARK BROWN GRAVELLY LEAN CLAY (CL) 7.5YR3/4, medium stiff, dry to moist, 60-80% clay, 20-40% poorly graded fine subangular to subrounded gravel, fill
5, 4, 3, 5		9132H809		DARK OLIVE GRAY SANDY LEAN CLAY (CL) 5Y3/2, soft, moist, 70% clay, 30% fine-grained sand, fill
			10	20% fine gravel, decreasing fine-grained sand to 10-20% at 10 ft.
2, 2, 3	0	9132H810		
			15	Color change to dark gray (5Y4/1) at 16 ft.
3, 5, 7, 8	0	9132H811		
			20	Serpentinite boulder from 21.5 to 22 ft.
4, 4, 11	0	9132H812		
			25	OLIVE BROWN LEAN CLAY WITH GRAVEL (CL) 2.5Y4/3, soft, moist to wet, 75% clay, 25% fine subangular to subrounded gravel, fill
5, 5, 4	0	9132H856-P		
			30	OLIVE GRAY GRAVELLY LEAN CLAY WITH SAND (CL) 5Y4/2, soft to medium stiff, moist to wet, 50-60% clay, 30-40% serpentinite gravel, 10-20% fine to medium-grained sand, trace black resinous liquid, fill
4, 4, 6, 10	0	9132H813		DARK GREENISH GRAY SERPENTINITE BOULDER FILL 5G4/1, wet, intensely to occasionally fractured, highly weathered, fill
			35	DARK GREENISH GRAY FAT CLAY (CH) 5GY4/1, stiff, moist, 90-95% clay, 5-10% silt, little shell fragments, Bay Mud deposits
5, 5, 7	250			
				BEDROCK
			40	Drilling refusal at 40 ft. Boring backfilled with bentonite cement grout (8/8/91)

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Log of Boring: IR07B015
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B16**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	8639,405.02		12/91	

Log of Boring: IR07B016
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/09/1991
Elevation: GS 10.04 feet
Total Depth: 36.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
			0	ASPHALT
8 10 12	0	9132H823		DARK REDDISH BROWN SILTY GRAVEL (GM) 5YR3/2, loose, moist, 60% poorly graded subrounded fine gravel, 30% silt, 10% fine-grained sand, fill
11 14 16	0	9132H824		DARK REDDISH BROWN GRAVELLY LEAN CLAY (CL) 2.5YR3/3, medium stiff, moist, 70% clay, 30% poorly graded angular to subrounded chert gravel, fill
11 14 16			5	Color change to dark olive gray (5Y3/2) at 1.3 ft.
4 6 6 7			10	
3 3 8				OLIVE BROWN FAT CLAY WITH SAND (CH) 2.5Y4/3, soft, moist, 70-80% clay, 20-30% very fine to fine-grained sand, few copper wire, fill
25 11 9	1	9132H825	15	DARK GRAY GRAVELLY LEAN CLAY (CL) 2.5Y4/0, medium dense, moist, 50-60% clay, 40-50% well-graded subrounded serpentinite gravel, trace sand, fill
4 5 8	1	9132H826	20	
				OLIVE GRAY CLAYEY GRAVEL WITH SAND (GC) 5Y4/2, medium dense, moist, 50-70% well-graded subangular to subrounded serpentinite gravel, 30-40% lean clay, 10% fine to coarse-grained sand, fill
4 4 7			25	
10			30	BEDROCK
			35	Drilling refusal at 36 feet. Boring backfilled with bentonite cement grout (8/9/91).

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Log of Boring: IR07B016
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B17**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B017
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/09/1991
Elevation: GS 10.43 feet
Total Depth: 41.5 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
			0	ASPHALT
9 10 14	0	9132H827		DARK REDDISH BROWN SILTY GRAVEL (GM) 5YR3/2, loose, moist, 60% poorly graded subrounded fine gravel, 30% silt, 10% fine-grained sand, fill
11 14 15	0	9132H828		YELLOWISH RED GRAVELLY LEAN CLAY (CL) 5YR4/6, stiff, moist, 50-60% clay, 40-50% poorly graded subangular gravel, trace fine-grained sand, fill
4 7 7 10	0	9132H829	5	Color change to olive (5Y4/4) at 1.5 ft. Color change to yellowish red (5YR4/6) at 2.5 ft. Color change to olive (5Y4/3), increasing clay to 70%, increasing silt to 20% at 5 ft.
3 2 5	0	9132H830	10	OLIVE GRAY GRAVELLY FAT CLAY (CH) 5Y4/2, soft, moist, 50-60% clay, 30% well-graded subangular to subrounded serpentinite gravel, 10-20% fine-grained sand, fill
3 3 5	0	9132H831	15	DARK GREENISH GRAY CLAYEY GRAVEL (GC) 5GY4/1, loose to medium dense, wet, 70% well-graded serpentinite gravel, 20% fat clay, 10% fine-grained sand, fill Color change to olive (5Y4/3), increasing sand to 20%, decreasing gravel to 50-60% at 15 ft.
3 5 6	0	9132H832	20	OLIVE GRAVELLY LEAN CLAY (CL) 5Y4/3, medium stiff, moist, 70-80% clay, 20-25% poorly graded coarse gravel, 5-10% fine-grained sand, fill
4 6 6	0		25	Color change to olive gray (5Y3/2), increasing sand to 10-25% at 25 ft.
5 6 10	2	9132H833	30	DARK GRAYISH BROWN CLAYEY GRAVEL WITH SAND (GC) 2.5Y4/2, medium dense, wet, 80% very well-graded gravel to cobbles, 10-20% clay, trace to 10% fine to coarse-grained sand, fill
6 10 9	0		35	
			40	GRAYISH GREEN SERPENTINITE BEDROCK dry, waxy to resinous luster

Harding Lawson Associates
Engineering and Environmental Services

Log of Boring: IR07B017
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B18a**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B017 (p. 2)
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/09/1991
Elevation: GS 10.43 feet
Total Depth: 41.5 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Sample
14			40	
30		9132H834		
50				

Bottom of boring at 41.5 ft.
Boring backfilled with bentonite cement grout (8/9/91)

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Log of Boring: IR07B017
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B18b**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B018
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 12/06/1990
Elevation: GS 9.97 feet
Total Depth: 51.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
14			0	ASPHALT
12				
15	1	9049G555		YELLOWISH RED GRAVELLY SILT WITH SAND (ML) 5YR4/6, medium dense, moist, 40-45% silt, 20-25% fine to coarse gravel, 15% sand, 10% clay, fill
18	1	9049G556		
14				
15				
6		9049G557	5	GREENISH GRAY SILTY GRAVEL WITH SAND (GM) 5G5/2, medium dense, moist, 60-70% fine to coarse angular serpentinite gravel, 15% silt, 15% sand, fill
6				
5				
10			10	OLIVE WELL-GRADED SAND (SW) 5Y4/3, medium dense, wet, 90-95% very fine to coarse-grained sand, trace silt and serpentinite gravel, fill
14	4	9049G558		
12				
				OLIVE WELL-GRADED GRAVEL (GW) 5Y4/3, medium dense, wet, 80-90% coarse serpentinite gravel, 5% silt, 5% sand, fill
6			15	DARK OLIVE GRAY SILTY GRAVEL WITH SAND (GM) 5Y3/2, loose to medium dense, wet, 45-55% fine to coarse gravel, 20-30% fine to coarse-grained sand, 15-20% silt, trace clay, trace wood fragments, fill
9	45	9049G559		
7				
6			20	DARK GRAYISH BROWN SANDY FAT CLAY WITH GRAVEL (CH) 2.5Y4/2, stiff, moist to wet, 40-50% clay, 30-40% fine to coarse gravel, 20-30% fine to medium-grained sand, fill
8	40	9049G560		
9				
6			25	Color change to olive gray (5Y4/2) at 24.5 ft.
8	2			
11				
7			30	DARK OLIVE GRAY SILTY GRAVEL WITH SAND (GM) 5Y3/2, medium dense, wet, 50-60% fine to coarse angular gravel, 25-30% fine to coarse-grained sand, 15% silt, 5% clay, fill
7		9049G561		
7				
				OLIVE CLAYEY SAND WITH GRAVEL (SC) 5Y4/3, medium dense, moist, 60-70% fine to medium-grained sand, 15-20% clay, 15% fine serpentinite gravel, trace plant debris, fill
5			35	
7	1			
8				
				DARK GREENISH GRAY WELL-GRADED GRAVEL (GW) 5G4/1, medium dense, wet, 85-90% fine to coarse angular gravel, 5% sand, 5% silt, fill
9	0	9049G562	40	

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Log of Boring: IR07B018
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B19a**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		4/91	

Log of Boring: IR07B018 (p. 2)
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 12/06/1990
Elevation: GS 9.97 feet
Total Depth: 51.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Sample	
19 21			40		OLIVE BROWN CLAYEY GRAVEL WITH SAND (GC) 2.5Y4/4, medium dense, moist, 45-50% fine to coarse angular gravel, 20-25% fine to medium-grained sand, 15-20% clay, 10% silt, fill
6 9 14	0		45		
50	0	9049G563	50		DARK GREENISH GRAY SERPENTINITE 5BG4/1, moderately hard, weak, closely fractured, little weathering, wet along fractures

Bottom of boring at 51 ft. (refusal)
Boring backfilled with bentonite cement grout (12/6/90)

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Log of Boring: IR07B018
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B19b**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		5/91	

Log of Boring: IR07B022
Equipment: CME 750 (HSA), 8.0 in. diam.
Date: 12/05/1990
Elevation: GS 20.83 feet
Total Depth: 14.5 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Sample	
			0		ASPHALT
3 8 12	0	9049H562			OLIVE BROWN WELL-GRADED GRAVEL WITH SAND (GW) 2.5Y4/4, loose, dry to moist, 70% angular to subangular serpentinite gravel, 30% fine to coarse-grained sand, fill
9 12 13	2	9049H563			
			5		DARK BROWN CLAYEY SAND (SC) medium dense, moist, 80% fine-grained sand, 20% clay, 10% fine subrounded gravel, fill
9 12 13	4	9049H564			
					VERY DARK GRAYISH BROWN GRAVELLY SILT WITH SAND (ML) 10YR3/2, medium stiff, moist, 50% silt, 30% subangular serpentinite gravel, 20% very fine to fine-grained sand, fill
			10		Color change to very dark gray (5Y3/1) at 5 ft.
5 10 8	0	9049H565			
					DARK OLIVE GRAY SERPENTINITE weak, dry, deeply weathered
			15		Drilling refusal at 14.5 ft. Boring backfilled with bentonite cement grout (12/5/90)

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Log of Boring: IR07B022
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B20**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		5/91	

Log of Boring: IR07B024
Equipment: CME 750 (HSA), 8.0 in. diam.
Date: 12/05/1990
Elevation: GS 17.85 feet
Total Depth: 17.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Sample
			0	
2				
4				
5	0	9049H554		
10				
12				
16	0	9049H555		
			5	
17				
19				
18	0	9049H556		
			10	
60				
			15	
29				
30	0	9049H557		
50				

ASPHALT

OLIVE BROWN WELL-GRADED GRAVEL WITH SAND (GW)
2.5Y4/4, loose, moist,
70% angular to subrounded mostly
serpentinite gravel, 30% fine to coarse-
grained sand, fill

YELLOWISH BROWN CLAYEY SAND (SC)
10YR5/8, medium dense, moist,
70-80% fine-grained sand, 20-30% clay,
fill

GREENISH GRAY SERPENTINITE BOULDER FILL
5GY5/1

DARK YELLOWISH BROWN CLAYEY SAND WITH GRAVEL (SC)
10YR4/6, medium dense, dry to moist,
50-70% fine-grained sand, 30% clay, 0-20%
subrounded serpentinite gravel, fill

Color change to dark brown (10YR3/3)
at 5 ft.

SERPENTINITE
dry,
deeply weathered

No sample recovery at 10 ft.

Bottom of boring at 17 ft.
Boring backfilled with bentonite cement
grout (12/5/90)

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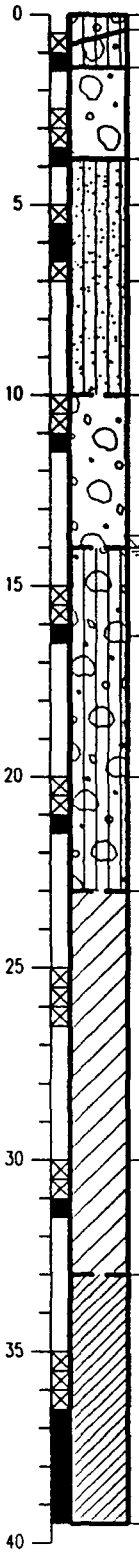
Log of Boring: IR07B024
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE
B21

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		5/91	

Log of Boring: IR07B025
Equipment: CME-55 (HSA), 8.0 in. diam.
Date: 08/07/1991
Elevation: GS 12.94 feet
Total Depth: 39.5 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)
42, 50	0	9132H789	0
11, 12, 10	0	9132H790	
10, 7, 7, 12	0	9132H791, 9132H854-P	5
6, 7, 8	0	9132H792	10
9, 5, 6	0	9132H793	15
8, 5, 8	0	9132H794	20
5, 7, 30			25
3, 3, 4	0	9132H795	30
2, 2, 2		9132H855-P	35
			40



LIGHT OLIVE GRAY WELL GRADED GRAVEL WITH SILT (GW-GM)
5Y6/2, loose, dry,
well-graded angular gravel, 20% well-graded sand, 10% silt, fill

OLIVE GRAY SILTY GRAVEL WITH SAND (GM)
5Y4/2, dense, dry,
70% well-graded angular to subangular gravel, 10-20% fine to medium-grained sand, 10-20% silt, fill

DARK GREENISH GRAY SERPENTINITE BOULDER FILL
5GY4/1, dense, dry,
intensely to occasionally fractured, fill

DARK YELLOWISH BROWN SILTY SAND WITH GRAVEL (SM)
10YR4/4, medium dense, moist,
50-60% fine-grained sand, 30% silt, 10-20% well-graded gravel, fill

Increase gravel to 25-30%, 30% silt, 40-45% sand at 5.0 ft.

Boulder or concrete from 7 to 8 ft.

DARK GREENISH GRAY SERPENTINITE BOULDER FILL
5GY4/1, moist,
intensely to occasionally fractured, highly weathered, fill

OLIVE GRAY SILTY GRAVEL (GM)
5Y4/2, loose, wet,
60-80% poorly graded fine to medium-grained subangular to subrounded gravel, 20-40% elastic silt, trace sand, fill

Increase silt to 30-40% at 16.3 ft.

Increase sand to 30%, trace brick debris at 21.0 ft.

YELLOWISH BROWN GRAVELLY LEAN CLAY WITH SAND (CL)
10YR5/4, stiff, moist,
50-60% clay, 30% poorly graded subangular gravel, 20% fine-grained sand, fill

Color change to olive brown (2.5Y4/3) at 30.0 ft.

DARK GREENISH GRAY FAT CLAY (CH)
5GY4/1, stiff, moist,
90-95% clay, 5-10% silt, Bay Mud deposits

Bottom of boring at 39.5 feet. Boring backfilled with bentonite cement grout (8/7/91)

Harding Lawson Associates
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Log of Boring: IR07B025
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B22**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B030
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/13/1991
Elevation: GS 18.21 feet
Total Depth: 46.5 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
			0	ASPHALT
7 7 8 10	0	9133M144 9133H862-P		DARK GRAYISH BROWN POORLY GRADED GRAVEL WITH SAND (GP) 2.5Y4/2, medium dense, dry, fill
5 11 15 12	0	9133M145		OLIVE GRAY CLAYEY GRAVEL WITH SAND (GC) medium dense, dry, 40% serpentinite gravel, 35% clay, 25% fine to medium-grained sand, fill
4 8 7	0	9133M146	5	VERY DARK GRAY LEAN CLAY WITH SAND (CL) 5Y3/1, medium stiff, dry to moist, 50% clay, 25% fine-grained sand, 25% silt, fill
				DARK OLIVE GRAY POORLY GRADED SAND (SP) 5Y3/2, loose, moist, 95% very fine to fine-grained sand, 5% silt, fill (possible sandblast material)
5 8 12	10	9133M147	10	VERY DARK GRAY LEAN CLAY (CL) 5Y3/1, soft to medium stiff, moist, 65% clay, 35% silt, fill
				DARK GRAYISH GREEN SERPENTINITE BOULDER FILL 5G4/1, crushed, low hardness, friable, deeply weathered
7 10 6	6	9133M148	15	DARK OLIVE GRAY SANDY LEAN CLAY WITH GRAVEL (CL) 5Y3/2, medium stiff, moist, 50% clay, 30% very fine to fine-grained sand, 20% angular serpentinite gravel, fill
				Wet at 18 ft.
				DARK GRAYISH GREEN SERPENTINITE BOULDER FILL 5GY4/1, crushed, hard, friable to weak, 70% serpentinite boulders, 30% chert boulders
7 9 19	8	9133M149	20	
				VERY DARK GRAY POORLY GRADED SAND WITH CLAY (SP-SC) 5Y3/1, loose, wet, 90% fine-grained sand, 10% clay, few shell fragments
1 2 1	0	9133H863-P	25	
				OLIVE BROWN SILTY SAND (SM) 2.5Y4/4, stiff, wet, 75% very fine to fine-grained sand, 25% silt
7 7 10	0	9133M150	30	
				OLIVE BROWN SANDY LEAN CLAY (CL) 2.5Y4/3, stiff, wet, 60% clay, 40% very fine to fine-grained sand
10 12 16	0		35	
			40	

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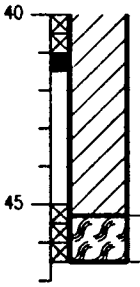
Log of Boring: IR07B030
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B23a**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B030 (p. 2)
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/13/1991
Elevation: GS 18.21 feet
Total Depth: 46.5 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Sample
5			40	
7				
10	0	9133M151		
			45	
10				
48				
50	0			



OLIVE SERPENTINITE
5Y4/3,
crushed, low hardness, friable, deeply weathered

Bottom of boring at 46.5 ft.
Boring backfilled with bentonite cement grout (8/13/91)

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Log of Boring: IR07B030
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE
B23b

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B031
Equipment: MOBILE B-53 (HSA), 8.0 in. diam.
Date: 10/12/1988
Elevation: GS ~13.0 feet
Total Depth: 63.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
26, 53	0		0	OLIVE GRAY WELL-GRADED GRAVEL WITH CLAY AND SAND (GW-GC), 5Y5/3, dense, dry, 60% subangular gravel to 1.5" in diameter, fine to coarse-grained sand, 10% clay, fill
14, 27, 19	0			YELLOWISH BROWN CLAYEY SAND WITH GRAVEL (SC) 10YR5/6, dense, moist, fill
			5	Moist at 4 ft.
19, 14, 18, 8, 14, 12	0			VERY DARK BROWN GRAVELLY SILTY CLAY WITH SAND (CL/ML) 10YR2/2, medium dense, moist, fill
				20% silt and clay at 6.5 ft.
			10	Water level, 10/11/88 (may not have stabilized)
9, 5, 4	1			Becoming saturated at 10 ft., increasing sand and decreasing clay content
0, 3, 2	0			DARK YELLOWISH BROWN SILTY SAND WITH GRAVEL (SM) 10YR3/4, loose, saturated, 20% silt, 15% angular to subangular gravel to 1.5" in diameter, fill
4, 5, 3	0		15	DARK OLIVE SILTY GRAVEL WITH SAND (GM) 5Y2.5/4, loose, saturated, 15% angular to subrounded sand, 65% subangular gravel, 20% silt, fill
1, 1, 1				
5, 8, 14	3		20	DARK OLIVE WELL-GRADED SAND WITH SILT (SW-SM) 5Y3/2, medium dense, saturated, 5% silt, fill
10, 15, 21	2			
			25	
			30	10% silt at 30 ft.
6, 8, 12	3, 10			DARK YELLOWISH BROWN CLAYEY SAND (SC) 10YR4/6, medium dense, saturated, 40% clay and silt, fill
				GRAY SANDY SILT (MH) 5Y5/1, soft, saturated, 10-15% fine-grained sand, traces shells, Bay Mud deposits
0, 0, 0	>1000		35	
			40	

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Log of Boring: IR07B031
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B24a**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		5/91	

Log of Boring: IR07B031 (p. 2)
Equipment: MOBILE B-53 (HSA), 8.0 in. diam.
Date: 10/12/1988
Elevation: GS ~13.0 feet
Total Depth: 63.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Sample	
0 4 5	>1000		40		Trace of black carbonized organic material at 40 ft.
1 3 4	>1000		45		
1 1 1	>1000		50		Sand in pockets up to 1.5" in diameter
0 3 15	250		55		DARK GRAY SILTY SAND (SM) 2.5Y4/4, loose, saturated, fine-grained sand, 15% silt
28	250		60		DARK GRAY SANDY GRAVEL (GW) 2.5Y4/0, medium dense, saturated, (weathered serpentinite bedrock)

Auger refusal at 63 ft.
Boring backfilled with bentonite cement grout (10/12/88)

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Log of Boring: IR07B031
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B24b**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		4/91	

Log of Boring: IR07B032
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/12/1991
Elevation: GS 14.78 feet
Total Depth: 30.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
			0	ASPHALT
4				OLIVE GRAY WELL-GRADED GRAVEL WITH SAND (GW) 5Y4/2, loose, moist, 70% subangular to subrounded gravel, 30% fine to coarse-grained sand, trace silt, fill
5				
7	10	9133H847		
9		9133H861-P		
8				
9				
8	10	9133H848		
7				OLIVE CLAYEY SAND (SC) 5Y4/3, medium dense, moist, 70% fine-grained sand, 30% clay, fill
8			5	
17				
25	12	9133H849		DARK GRAY SILTY GRAVEL (GM) 5Y4/1, dense, dry, 70% poorly graded serpentinite gravel, 30% silt, fill
17				
				BLACK SILTY SAND (SM) 5Y2.5/1, loose, dry, 60-70% well-graded sand, 30-40% silt, fill
			10	
5				
10	8	9133H850		DARK GRAY GRAVELLY LEAN CLAY (CL) 5Y4/1, stiff, dry, 70% clay, 30% poorly graded fine subrounded gravel, trace debris, fill
50				
				LIGHT OLIVE BROWN SANDY LEAN CLAY (CL) 2.5Y5/6, soft to medium stiff, moist, 60-80% clay, 20-40% fine-grained sand, fill
			15	Boulder from 6.8 to 7.5 ft.
2				
2				
4				Color change to dark gray and increasing gravel to 20-30% at 15 ft.
6	3	9133H851		
				BLACK CLAYEY SAND (SC) 5Y2.5/1, loose to medium dense, wet, 80% fine-grained sand, 20% clay, fill
			20	
2				Color change to olive (5Y5/3) and possible sandblast material at 20 ft.
2				
3		9133H852		
				DARK GREENISH GRAY CLAYEY SAND (SC) 5GY4/1, loose to medium dense, 70-90% fine-grained sand, 10-30% fat clay, little shell fragments, Bay Mud deposits
			25	
2				
2				
2				
				BEDROCK
			30	Drilling refusal at 30 ft. Boring backfilled with bentonite cement grout (8/12/91)

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Log of Boring: IR07B032
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B25**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B033
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/12/1991
Elevation: GS 14.18 feet
Total Depth: 31.5 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
			0	ASPHALT
6 7 18 14 12 18 16	0	9133H841 9133H859-P		OLIVE GRAY WELL-GRADED GRAVEL WITH SAND (GW) 5Y4/2, loose, moist, 70% subrounded to subangular gravel, 30% fine to coarse-grained sand, trace silt, fill
21	31	9133H842	5	DARK OLIVE GRAY SANDY LEAN CLAY WITH GRAVEL (CL) 5Y3/2, medium stiff, moist, 65-70% clay, 15-20% fine-grained sand, 10-15% gravel, fill
8 9 10 14	20	9133H843		Block, wet wood debris from 3.0 to 4.2 ft.
				DARK GRAY SILTY GRAVEL WITH SAND (GM) 5Y4/1, medium dense, moist, 60-70% well-graded serpentinite gravel, 20% fine to medium-grained sand, 10-20% silt, fill
3 4 3 4	20	9133H844	10	DARK GRAY GRAVELLY LEAN CLAY WITH SAND (CL) 5Y4/1, medium stiff, moist, 60% clay, 20-30% fine to medium subrounded to subangular gravel, 10-20% fine-grained sand, little wood debris, fill
3 4 3			15	DARK OLIVE BROWN CLAYEY SAND (SC) 2.5Y3/3, medium dense, wet, 60% fine to medium-grained sand, 30% clay, 10% fine gravel, few wood debris, fill
2 2 3	1	9133H860-P 9133H845	20	DARK GREENISH GRAY CLAYEY SAND WITH GRAVEL (SC) 5GY4/1, medium dense, wet to moist, 50-70% fine to medium-grained sand, 20-30% fine to medium subrounded to subangular serptentinite gravel, 20-30% clay, fill
2 4 8			25	
				DARK GREENISH GRAY SANDY FAT CLAY (CH) 5GY4/1, medium stiff, moist, 70% clay, 30% fine-grained sand, little shell fragments, Bay Mud deposits
2 2 3	20	9133H846	30	DARK GREENISH GRAY FAT CLAY (CH) 5GY4/1, medium stiff to stiff, moist, 90% clay, 10% fine-grained sand, little shell fragments, Bay Mud deposits

Bottom of boring at 31.5 feet. Boring backfilled with bentonite cement grout (8/12/91)

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Log of Boring: IR07B033
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B26**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B034
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/08/1991
Elevation: GS 9.94 feet
Total Depth: 47.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
			0	ASPHALT
10 14 25		9132H815		DARK BROWN SILTY SAND WITH GRAVEL (SM) 10YR3/3, medium dense, dry, 50% fine to medium-grained sand, 30% angular to subangular chert gravel, 20% silt, fill
10 14 12 15	0	9132H816		
4 3 5	0	9132H817	5	VERY DARK GRAYISH BROWN GRAVELLY SILT WITH SAND (ML) 2.5Y3/2, medium stiff, dry, 50-60% silt, 30-40% poorly graded fine to medium serpentinite gravel, 10-20% fine-grained sand, fill
				DARK GREENISH GRAY SERPENTINITE BOULDER FILL 5GY4/1, dry, highly weathered, crushed to closely fractured, little very dark silt/clay matrix, fill
3 5 4	0	9132H818	10	OLIVE GRAY SILTY SAND WITH GRAVEL (SM) 5Y4/2, medium dense, dry to moist, 60% well-graded fine to coarse-grained sand, 20-30% fine subangular to sub-rounded gravel, 10-20% silt, fill
				DARK REDDISH BROWN CLAYEY GRAVEL (GC) 5YR3/4, loose to medium dense, wet, 70% poorly graded subangular gravel, 30% lean clay, fill
20 8 4	0	9132H819	15	DARK GREENIGH GRAY SERPENTINITE BOULDER FILL wet, closely to occasionally fractured, fill
				DARK REDDISH BROWN CLAYEY GRAVEL (GC) 5YR3/4, loose, wet, 80-90% poorly graded angular to subangular gravel, 10-20% clay, fill
3 4 4 5	0	9132H820	20	
11 4 6	0	9132H857-P	25	
				VERY DARK GRAY SANDY FAT CLAY WITH GRAVEL (CH) 5Y3/1, soft to medium stiff, moist to wet, 60% clay, 30% fine-grained sand, 10% poorly graded fine gravel, fill
4 7 6 10	9	9132H821	30	
4 6 7	25	9132H858-P	35	
				DARK GREENISH GRAY CLAYEY SAND WITH GRAVEL (SC) 5GY4/1, soft, wet, 40% fine to coarse-grained serpentinite sand, 30% clay, 30% fine to medium serpentinite gravel, fill
			40	

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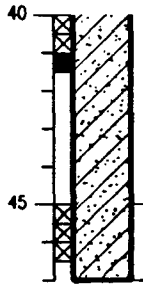
Log of Boring: IR07B034
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B27a**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07B034 (p. 2)
Equipment: CME 55 (HSA), 8.0 in. diam.
Date: 08/08/1991
Elevation: GS 9.94 feet
Total Depth: 47.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)
3			40
5			
6	10	9132H822	
			45
3			
6			
10			



Increase clay to 40% at 45 ft.

Drilling refusal at 47 ft.
Boring Backfilled with bentonite cement grout (8/8/91)

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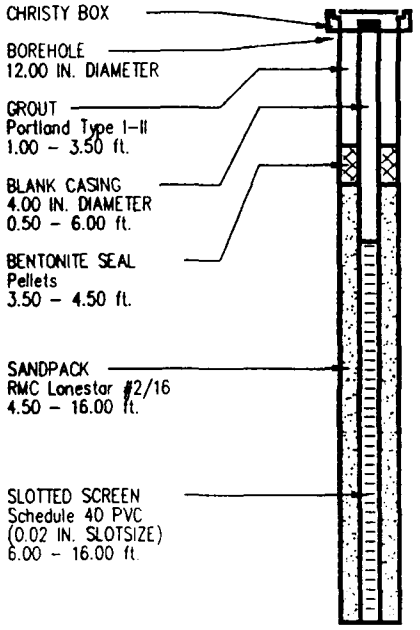
Log of Boring: IR07B034
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B27b**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		12/91	

Log of Boring: IR07MW19A
Equipment: CME 55 (HSA), 12.0 in. diam.
Date: 12/06/1990
Elevation: GS 10.13 feet
Total Depth: 50.0 ft.



Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
8, 9, 8	2	9049G564	0	ASPHALT
4, 3, 4	3	9049G565		GRAYISH BROWN GRAVELLY LEAN CLAY WITH SAND (CL) 2.5Y5/2, medium stiff, moist, 45-55% clay, 15-25% fine to coarse gravel, 15% sand, 15% silt, fill
				Mostly serpentinite gravel at 2 ft.
4, 6, 9	4	9049G566	5	Color change to Red (2.5YR4/6) at 4.5 ft.
8, 8, 8	1	9049G567	10	RED CLAYEY GRAVEL WITH SAND (GC) 2.5YR4/6, medium dense, wet, 50-60% fine to coarse angular gravel, 15-20% sand, 15-20% clay, 10% silt, fill
				DARK GRAYISH BROWN SILTY SAND WITH GRAVEL (SM) 2.5Y4/2, loose, wet, 60-65% fine to coarse-grained sand, 15% silt, 15-20% fine gravel, trace clay, fill
3, 3, 3	4	9049G568	15	
				STRONG BROWN POORLY GRADED SAND WITH CLAY (SP-SC) 7.5YR5/8, loose, moist to wet, 90% fine-grained sand, 10% clay, fill
				DARK GREENISH GRAY GRAVELLY FAT CLAY (CH) 5G4/1, soft, moist, 65-70% clay, 20-25% fine to coarse gravel, trace silt and sand, fill
5, 6, 7	2	9049G569	20	
				OLIVE GRAY POORLY GRADED SAND WITH CLAY (SP-SC) 5Y4/2, loose, moist, 90% fine to medium-grained sand, 10% clay, fill
				OLIVE CLAYEY GRAVEL (GC) 5Y5/4, medium dense, moist to wet, 70-75% fine to coarse serpentinite gravel, 15-20% clay, trace silt and sand, fill
7, 8, 10	3		25	
				OLIVE CLAYEY SAND WITH GRAVEL (SC) 5Y5/4, medium dense, wet, 60-70% fine to medium-grained sand, 15% clay, 15% gravel, trace silt, fill
11, 11, 12		9049G570	30	
				Decreasing sand to 55%
6, 6, 7	0		35	OLIVE SANDY FAT CLAY WITH GRAVEL (CH) 5Y5/4, soft, moist, 45-55% clay, 20-25% sand, 20% fine to coarse serpentinite gravel, trace silt, fill
				Color change to dark greenish gray (5G4/1) at 38.5 ft., increasing serpentinite gravel to 25-30%
3	2	9049G571	40	

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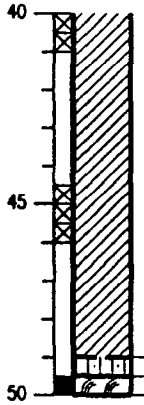
Boring Log and Well Completion Detail: IR07MW19A
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B28a**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		4/91	

Log of Boring: IR07MW19A (p. 2)
Equipment: CME 55 (HSA), 12.0 in. diam.
Date: 12/06/1990
Elevation: GS 10.13 feet
Total Depth: 50.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Sample
9 14			40	
3 6 6	8		45	
50	0	9049G572	50	



OLIVE POORLY GRADED SAND WITH SILT (SP-SM)
5Y4/3, loose, wet,
90% very fine-grained sand, 10% silt, trace shell fragments

SERPENTINITE

Drilling refusal at 50 ft.
Boring backfilled with bentonite chips from 16 to 50 ft.

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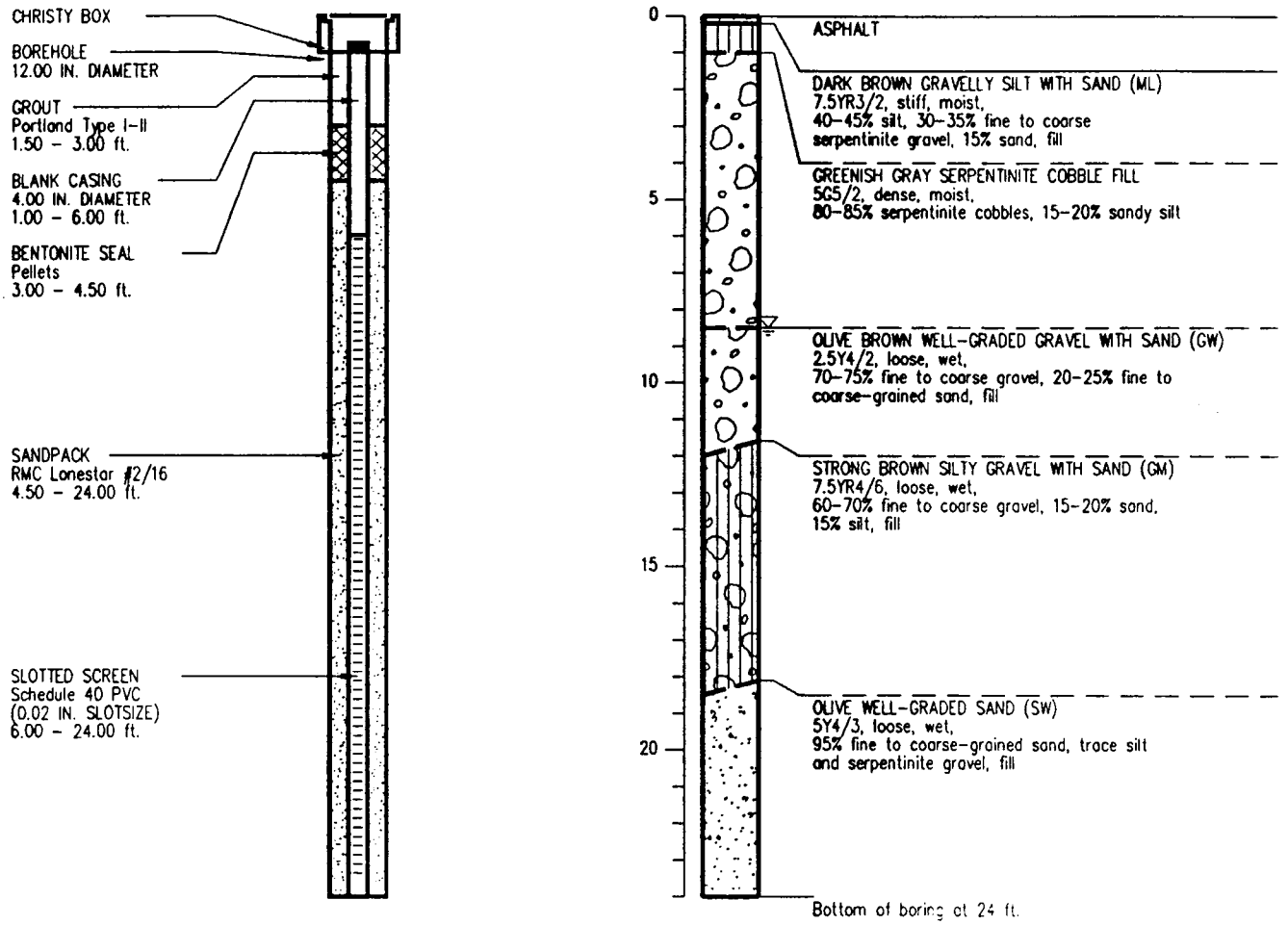
Boring Log and Well Completion Detail: IR07MW19A
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B28b**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		5/91	

Log of Boring: IR07MW20A1
Equipment: CME 55 (HSA), 12.0 in. diam.
Date: 12/10/1990
Elevation: GS 10.06 feet
Total Depth: 24.0 ft.



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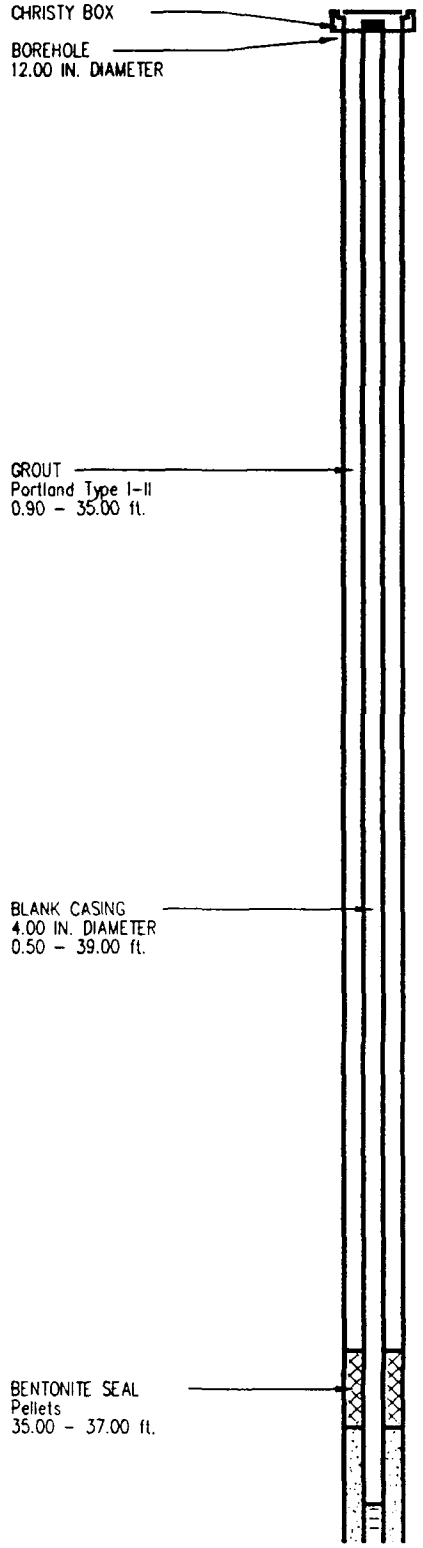
Boring Log and Well Completion Detail: IR07MW20A1
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE
B29

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		4/91	

Log of Boring: IR07MW20A2
Equipment: CME 55 (HSA), 12.0 in. diam.
Date: 12/07/1990
Elevation: GS 10.23 feet
Total Depth: 45.0 ft.



Blows / 6"	OVA (ppm)	Sample Number
16, 21, 22	1	9049G575
16, 21, 27	1	9049G576
7, 7, 6	0	9049G577
6, 5, 4	0	9049G578
6, 6, 8	0	9049G579
6, 8, 9	0	9049G580
11, 8, 11	1	
6, 8, 9	3	9049G581
11, 8, 12	3	
11		

Depth (ft): 0, 5, 10, 15, 20, 25, 30, 35, 40

Sample

ASPHALT

DARK BROWN GRAVELLY SILT WITH SAND (ML)
7.5YR3/2, stiff, moist,
40-45% silt, 30-35% fine to coarse serpentinite gravel, 15% sand, fill

GREENISH GRAY SERPENTINITE COBBLE FILL
5G5/2, dense, moist,
80-85% serpentinite cobbles, 15-20% sandy silt, fill

OLIVE BROWN WELL-GRADED GRAVEL WITH SAND (GW)
2.5Y4/2, loose, wet,
70-75% fine to coarse gravel, 20-25% fine to coarse-grained sand, trace silt, fill

STRONG BROWN SILTY GRAVEL WITH SAND (GM)
7.5YR4/6, loose, wet,
60-70% fine to coarse gravel, 15-20% sand, 15% silt, fill

OLIVE WELL-GRADED SAND (SW)
5Y4/3, loose, wet,
95% fine to coarse-grained sand, trace silt and serpentinite gravel, fill

RED SANDY SILT WITH GRAVEL (ML)
2.5YR4/8, medium stiff, wet,
50-55% silt, 20-25% sand, 20-25% fine gravel, fill

RED SILTY GRAVEL WITH SAND (GM)
2.5YR4/8, loose, wet,
40-50% fine gravel, 20-30% sand, 15-25% silt, trace clay, fill

DARK GREENISH GRAY GRAVELLY FAT CLAY WITH SAND (CH)
5G4/1, medium stiff, moist,
50-55% clay, 15-20% fine to coarse serpentinite gravel, 15% sand, 10% silt, fill

OLIVE GRAY CLAYEY SAND WITH GRAVEL (SC)
5Y4/2, loose, moist,
65-70% fine to coarse-grained sand, 15-20% fine serpentinite gravel, 15% clay, trace black woody fiberous material, fill

GREENISH GRAY GRAVELLY FAT CLAY WITH SAND (CH)
5G5/1, soft to medium stiff, moist,
40-45% clay, 20-25% gravel, 15-20% sand, 10-15% silt, fill

DARK GRAYISH BROWN SILTY SAND WITH GRAVEL (SM)
2.5Y4/2, medium dense, wet,
60-70% medium to coarse-grained sand, 15-20% silt, 15-20% fine gravel, fill

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Boring Log and Well Completion Detail: IR07MW20A2
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B30a**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		5/91	

Log of Boring: IR07MW20A2 (p. 2)
Equipment: CME 55 (HSA), 12.0 in. diam.
Date: 12/07/1990
Elevation: GS 10.23 feet
Total Depth: 45.0 ft.

Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Sample	Description
8			40		GREENISH GRAY CLAYEY GRAVEL WITH SAND (GC) 5G4/2, medium dense, wet, 60-70% fine to coarse serpentinite gravel, 15% sand, 15% clay, trace silt, fill
14	0	9049G582			
50			45		SERPENTINITE

Drilling refusal at 45 ft.
Boring backfilled with bentonite pellets from 44 to 45 ft.

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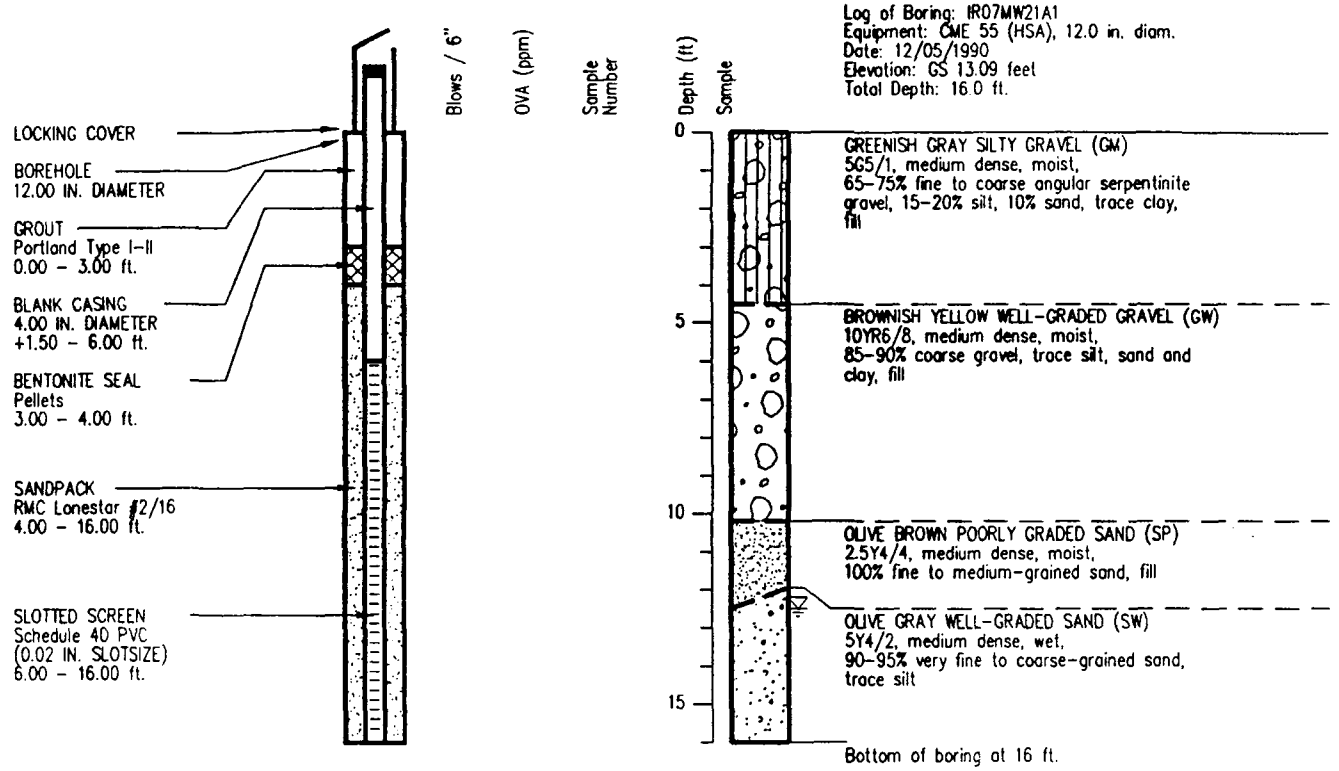
Boring Log and Well Completion Detail: IR07MW20A2
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B30b**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		5/91	

Log of Boring: IR07MW21A1
Equipment: CME 55 (HSA), 12.0 in. diam.
Date: 12/05/1990
Elevation: GS 13.09 feet
Total Depth: 16.0 ft.



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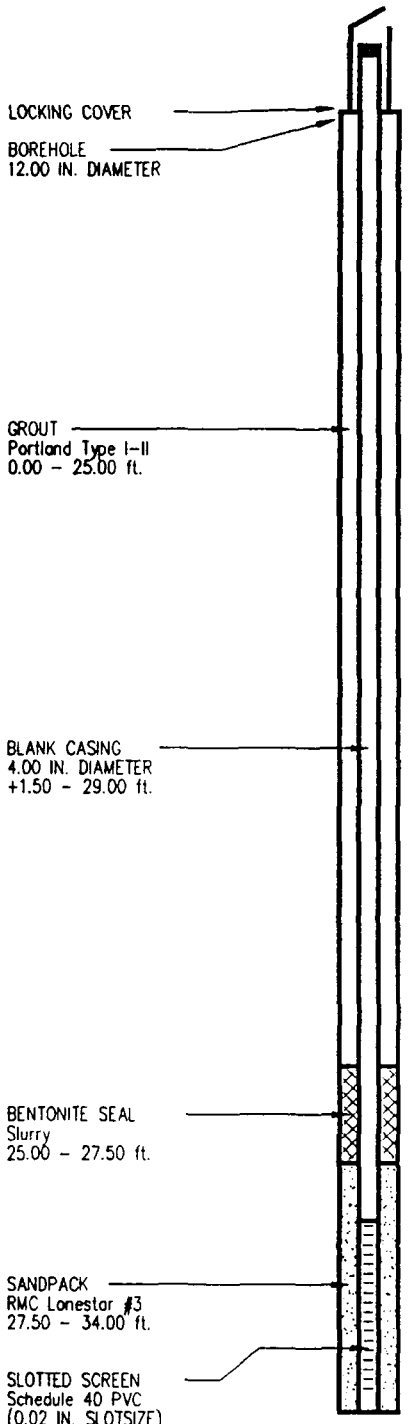
Boring Log and Well Completion Detail: IR07MW21A1
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B31**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		4/91	

Log of Boring: IR07MW21A2
Equipment: CME 55 (HSA), 12.0 in. diam.
Date: 12/04/1990
Elevation: GS 12.89 feet
Total Depth: 37.5 ft.



Blows / 6"	OVA (ppm)	Sample Number	Depth (ft)	Description
3, 8, 6	1	9049G547	0	GREENISH GRAY SILTY GRAVEL (GM) 5G5/1, medium dense, moist, 65-75% serpentinite gravel, 15-20% silt, 10% sand, trace clay, fill
13, 14, 14	10	9049G548		
8, 12, 14	0	9049G549	5	BROWNISH YELLOW WELL-GRADED GRAVEL (GW) 10YR6/8, medium dense, moist, 85-90% coarse gravel, trace silt, sand and clay, fill
15, 16, 9	1	9049G550	10	OLIVE BROWN POORLY GRADED SAND (SP) 2.5Y4/4, medium dense, moist, 100% fine to medium-grained sand, fill
				OLIVE GRAY WELL-GRADED SAND (SW) 5Y4/2, medium dense, wet, 90-95% very fine to coarse-grained sand, trace silt
7, 7, 8	3	9049G551	15	Trace gravel at 15 ft.
8, 6, 6	1	9049G552	20	
3, 7, 7			25	
2, 3, 5	40	9049G553	30	DARK BROWN POORLY GRADED SAND (SP) 10YR3/3, loose, wet, 95% very fine to fine-grained sand, trace silt and shell fragments
3, 3, 3, 2, 2, 2	400, 350	9049G554	35	DARK GREENISH GRAY FAT CLAY (CH) 5G5/1, soft, moist, 70-75% clay, 15-20% silt, trace shell fragments, Bay Mud deposits

Bottom of boring at 37.5 feet. Boring backfilled with bentonite pellets from 34 to 37.5 ft.

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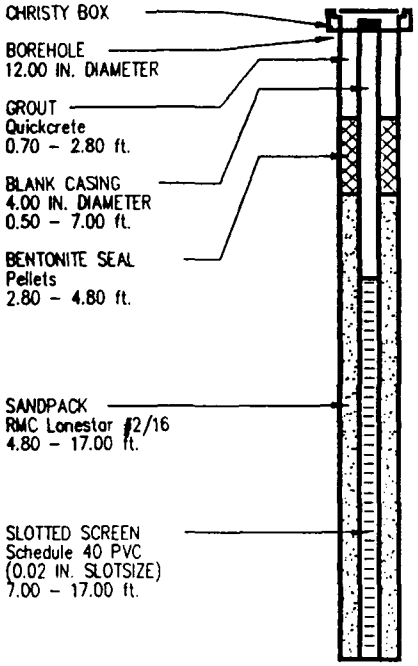
Boring Log and Well Completion Detail: IR07MW21A2
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B32**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CDT	18639,405.02		4/91	

Log of Boring: IR07MW23A
Equipment: CME 750 (HSA), 12.0 in. diam.
Date: 12/06/1990
Elevation: GS 16.40 feet
Total Depth: 18.0 ft.



Blows / 6"	OVA (ppm)	Sample Number
9 14 23	0	9049H572
8 22 14	0	9049H573
11 45 33	0	9049H574
6 12 17	0	9049H575
4 9 7		9049H576

Depth (ft): 0, 5, 10, 15

Sample

ASPHALT

DARK BROWN WELL-GRADED GRAVEL WITH SAND (GW)
loose, moist,
60% angular mostly serpentinite gravel,
40% fine to coarse-grained sand, fill

DARK YELLOWISH BROWN POORLY GRADED SAND WITH SILT (SP-SM), 10YR4/6, loose, moist,
90% fine-grained sand, 10% silt, fill

DARK BROWN CLAYEY SAND (SC)
10YR3/3, medium dense, moist,
70-90% fine-grained sand, 10-30% gray clay,
fill

DARK BROWN SANDY LEAN CLAY WITH GRAVEL (CL)
10YR3/3, medium stiff, moist,
40-50% clay, 30% fine-grained sand, 20-30% serpentinite gravel, fill

BLACK SILT (ML)
10YR2/1, soft, moist,
fill

VERY DARK GRAYISH BROWN SILTY GRAVEL (GM)
2.5Y3/0, medium dense,
60% subangular to subrounded serpentinite gravel, 40% silt, fill

VERY DARK GRAYISH BROWN GRAVELLY SILT (ML)
2.5Y3/0, medium stiff, dry,
50-80% silt, 20-50% serpentinite gravel,
fill

VERY DARK GRAYISH BROWN SILTY SAND WITH GRAVEL (SM)
loose, wet,
60-70% fine to medium-grained sand, 20-30% silt, 10% gravel, fill

Color change to dark greenish gray (5G4/1) at 15.5 ft.

BEDROCK

Drilling refusal at 18 ft.
Boring backfilled with bentonite chips from 17 to 18 ft.

Harding Lawson Associates
Engineering and Environmental Services

Boring Log and Well Completion Detail: IR07MW23A
Primary Phase Remedial Investigation
Naval Station, Treasure Island, Hunters Point Annex
San Francisco, California

PLATE **B33**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
GDT	18639,405.02		5/91	

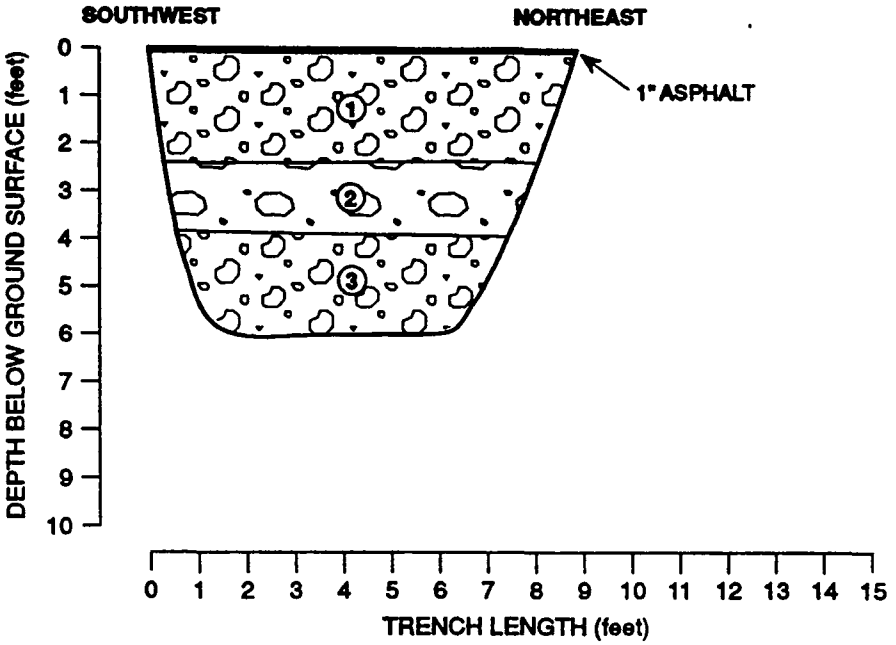
Appendix C

TEST PIT LITHOLOGIC LOGS

DRAFT

Trench #: IR07TA05A
Site #: IR07
Logged by: Rob Nelson
Started: 6-21-91
Completed: 6-21-91
Trench Orientation: N40E

TRENCH DIAGRAM



DESCRIPTION:

ASPHALT 0.1' thick

(1) DARK GRAY WELL-GRADED GRAVEL WITH SAND (GW)
5GY 4/1, 60% subangular serpentinite gravel, 40% fine- to coarse-grained sand, trace brick, fill

(2) DARK GREENISH GRAY SERPENTINITE BOULDER FILL
5GY 4/1, 50% serpentinite boulders to 8", 30% serpentinite gravel, 20% sand

(3) YELLOWISH BROWN WELL-GRADED GRAVEL WITH SAND (GW)
10YR 5/6, medium dense to dense, moist, 65% subangular sandstone gravel, 35% fine- to medium-grained sand, trace brick, fill

1204LZ

Harding Lawson Associates
Engineering and Environmental Services

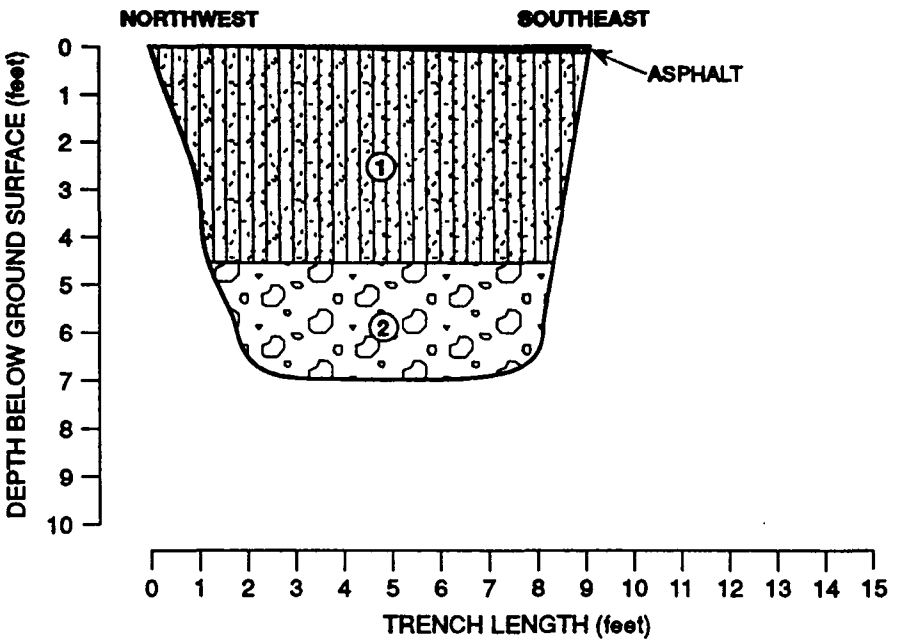
Log of Test Pit: IR07TA05A
Sub-Base Area, IR-7
Primary Phase Remedial Investigation
Hunters Point Annex
San Francisco, California

PLATE C1

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LZc	18639,490.02		11/91	

Trench #: IR07TA05B
Site #: IR07
Logged by: Gary Thomas
Started: 6-25-91
Completed: 6-25-91
Trench Orientation: N50W

TRENCH DIAGRAM



DESCRIPTION:

ASPHALT 0.0' to 0.2' thick

(1) OLIVE BROWN SILTY SAND WITH GRAVEL (SM)
2.5Y 4/4, medium dense, moist, 60-65% well-graded fine- to coarse-grained sand, 15-20% fine to coarse serpentinite gravel, 15-20% silt, trace wire and wood debris, fill

Color change to dark olive gray (5Y 3/2) at 2.5 ft

(2) OLIVE YELLOW WELL-GRADED GRAVEL WITH SAND (GW)
2.5Y 6/8, dense, moist, 60-70% fine to coarse mostly serpentinite gravel, 25-30% well-graded fine- to coarse-grained sand, 5% silt, fill

1204LZ

Harding Lawson Associates
Engineering and Environmental Services

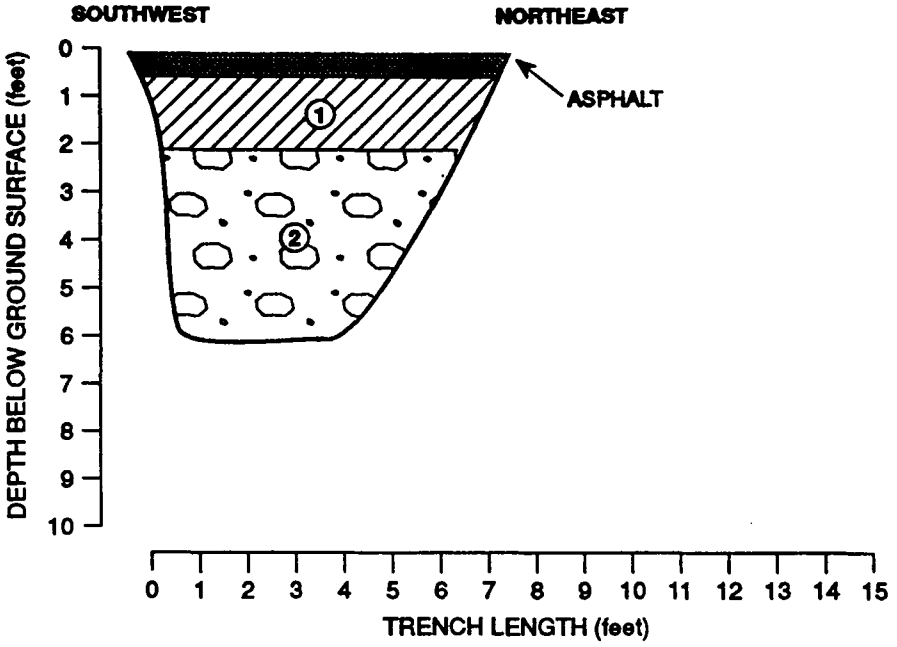
Log of Test Pit: IR07TA05B
Sub-Base Area, IR-7
Primary Phase Remedial Investigation
Hunters Point Annex
San Francisco, California

PLATE **C2**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LZc	18639,490.02		11/91	

Trench #: IR07TA06
Site #: IR07
Logged by: Rob Nelson
Started: 6-3-91
Completed: 6-3-91
Trench Orientation: N40E

TRENCH DIAGRAM



DESCRIPTION:

ASPHALT 0.5' thick

(1) DARK REDDISH BROWN LEAN CLAY WITH GRAVEL (CL)
5YR 3/2, stiff, moist, 75% clay, 20% subangular sandstone gravel, 5% fine-grained sand, fill

Color mottled with olive-brown (2.5Y 4/4) from 0.5 to 2.2 ft

(2) OLIVE SERPENTINITE BOULDER FILL
5Y 4/4, 50% subangular sandstone boulders, 40% subangular sandstone gravel, 10% medium- to coarse-grained sand, trace silt and clay

1204LZ

Harding Lawson Associates
Engineering and Environmental Services

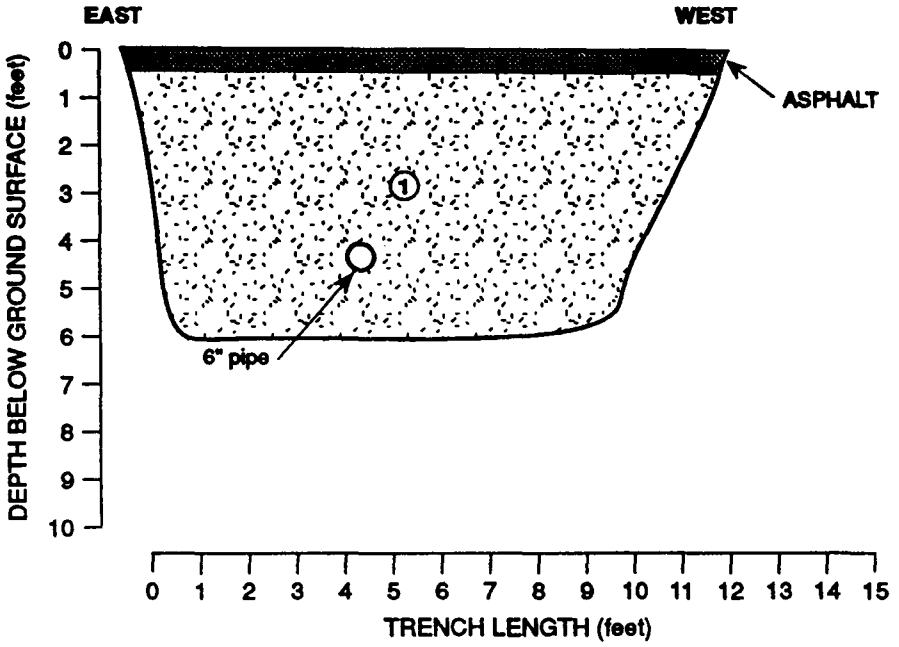
Log of Test Pit: IR07TA06
Sub-Base Area, IR-7
Primary Phase Remedial Investigation
Hunters Point Annex
San Francisco, California

PLATE **C3**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LZc	18639,490.02		11/91	

Trench #: IR07TA07
Site #: IR07
Logged by: Rob Nelson
Started: 6-4-91
Completed: 6-4-91
Trench Orientation: N70W

TRENCH DIAGRAM



DESCRIPTION:

ASPHALT 0.5 ' thick

1 DARK YELLOWISH BROWN WELL-GRADED SAND WITH GRAVEL (SW) 10YR 3/4, medium dense, moist, 50% fine- to coarse-grained sand, 40% subrounded sandstone gravel, 10% cobbles and boulders, fill

1204LZ

Harding Lawson Associates
Engineering and Environmental Services

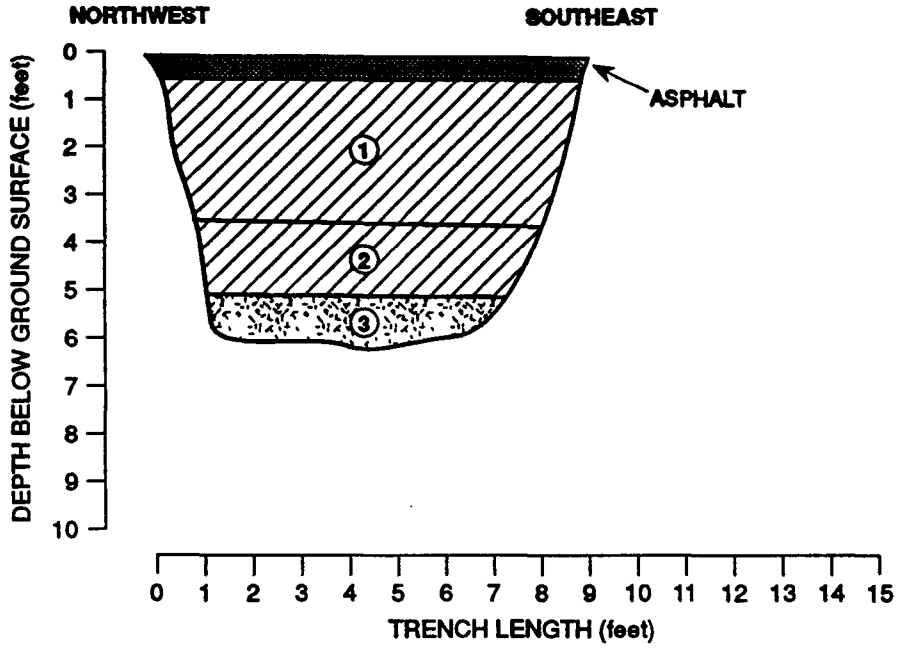
Log of Test Pit: IR07TA07
Sub-Base Area, IR-7
Primary Phase Remedial Investigation
Hunters Point Annex
San Francisco, California

PLATE **C4**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LZc	18639,490.02		11/91	

Trench #: IR07TA08A
Site #: IR07
Logged by: Rob Nelson
Started: 6-3-91
Completed: 6-3-91
Trench Orientation: N30E

TRENCH DIAGRAM



DESCRIPTION:

ASPHALT 0.6' thick

(1) DARK OLIVE GRAY GRAVELLY LEAN CLAY (CL)
5Y 3/2, medium stiff, moist, 60% clay, 35% sandstone gravel, 5% sand, fill

(2) DARK YELLOWISH BROWN GRAVELLY LEAN CLAY WITH SAND (CL)
10YR 4/4, medium stiff, moist, 50% clay, 30% sandstone gravel, 20% fine- to medium-grained sand, fill

(3) OLIVE-BROWN POORLY GRADED SAND (SP)
2.5Y 4/3, loose, moist, 95% fine- to medium-grained sand, 5% clay, fill

1204LZ

Harding Lawson Associates
Engineering and Environmental Services

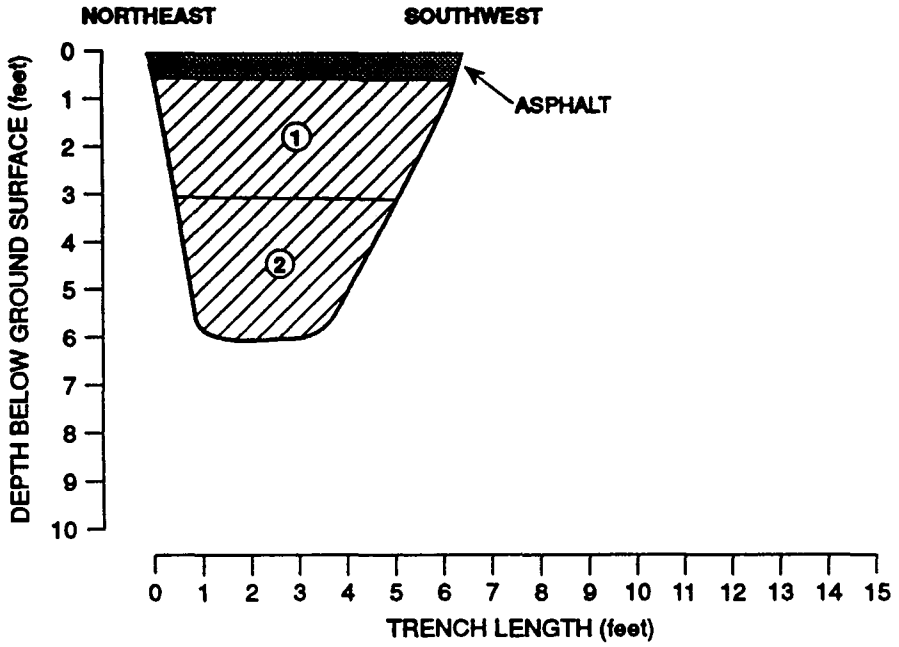
Log of Test Pit: IR07TA08A
Sub-Base Area, IR-7
Primary Phase Remedial Investigation
Hunters Point Annex
San Francisco, California

PLATE C5

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LZc	18639,490.02		11/91	

Trench #: IR07TA08B
Site #: IR07
Logged by: Rob Nelson
Started: 6-3-91
Completed: 6-3-91
Trench Orientation: N30E

TRENCH DIAGRAM



DESCRIPTION:

ASPHALT 0.5' thick

(1) DARK OLIVE GRAY GRAVELLY LEAN CLAY (CL)
5Y 3/2, medium stiff, moist, 60% clay, 35% sandstone and serpentinite gravel, 5% sand, fill

(2) DARK YELLOWISH BROWN GRAVELLY LEAN CLAY WITH SAND (CL)
10YR 4/4, medium stiff, moist, 50% clay, 30% sandstone gravel, 20% fine- to medium-grained sand, fill

1204LZ

Harding Lawson Associates
Engineering and Environmental Services

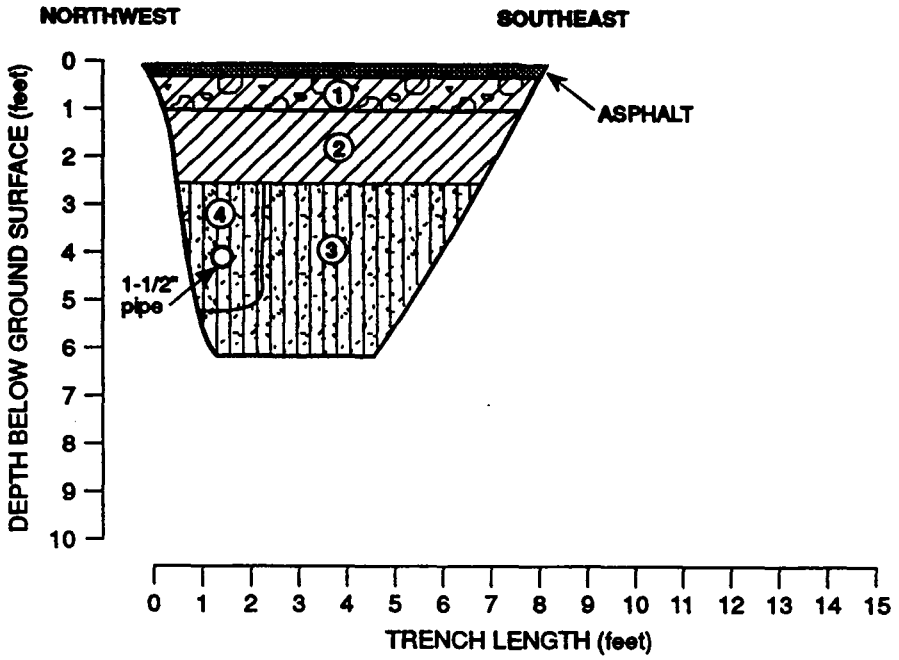
Log of Test Pit: IR07TA08B
Sub-Base Area, IR-7
Primary Phase Remedial Investigation
Hunters Point Annex
San Francisco, California

PLATE **C6**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LZc	18639,490.02		11/91	

Trench #: IR07TA09A
Site #: IR07
Logged by: Rob Nelson
Started: 6-3-91
Completed: 6-3-91
Trench Orientation: N50W

TRENCH DIAGRAM



DESCRIPTION:

ASPHALT 0.25' thick

(1) DARK GRAYISH BROWN CLAYEY GRAVEL WITH SAND (GC)
5YR 3/3, medium dense, moist to dry, 60% subangular sandstone gravel, 20% sand, 20% clay, fill

(2) DARK OLIVE GRAY LEAN CLAY WITH SAND (CL)
5Y 3/2, soft, moist, 75% clay, 25% fine-grained sand

(3) DARK YELLOWISH BROWN SILTY SAND (SM)
10YR 3/4, medium dense, moist, 80% sand, 20% silt, fill

(4) LIGHT OLIVE BROWN SILTY SAND (SM)
2.5Y 5/4, loose, moist, 85% sand, 15% silt, fill

1204LZ

Harding Lawson Associates
Engineering and Environmental Services

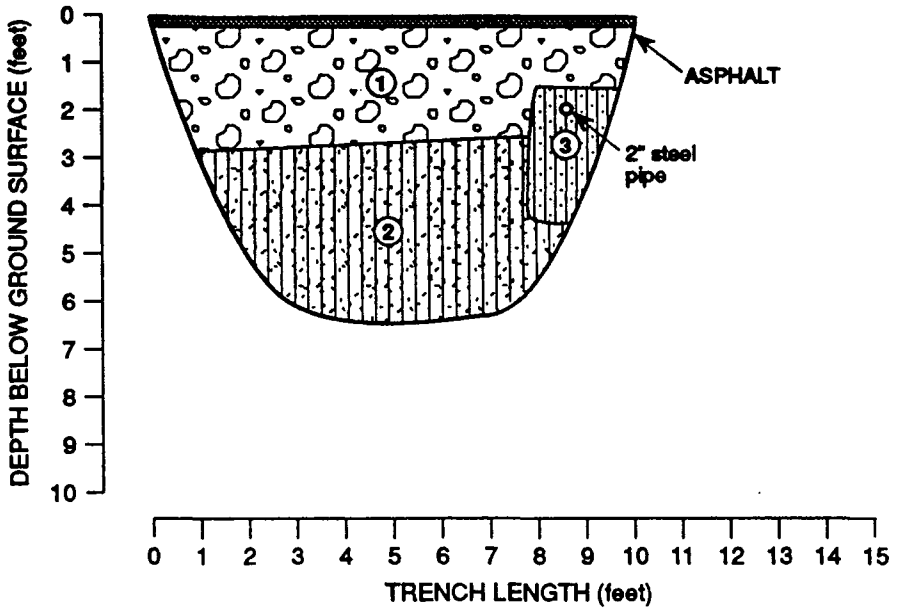
Log of Test Pit: IR07TA09A
Sub-Base Area, IR-7
Primary Phase Remedial Investigation
Hunters Point Annex
San Francisco, California

PLATE **C7**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LZc	18639,490.02		11/91	

Trench #: IR07TA09B
Site #: IR07
Logged by: Rob Nelson
Started: 6-3-91
Completed: 6-3-91
Trench Orientation: N50W

TRENCH DIAGRAM



DESCRIPTION:

ASPHALT 0.2' thick

(1) DARK REDDISH BROWN CLAYEY GRAVEL WITH SAND (GC)
5YR 3/3, medium dense, moist to dry, 60% subangular sandstone gravel, 20% medium- to fine-grained sand, 20% clay, fill

(2) DARK GREENISH GRAY SILTY SAND WITH GRAVEL (SM)
5G 4/1, medium dense, moist, 60% sand, 20% deeply weathered serpentinite gravel, 20% silt, fill

(3) LIGHT OLIVE BROWN POORLY GRADED SAND WITH SILT (SP-SM)
2.5Y 5/4, loose, moist, 85% sand, 15% silt, fill

1204LZ

Harding Lawson Associates
Engineering and Environmental Services

Log of Test Pit: IR07TA09B
Sub-Base Area, IR-7
Primary Phase Remedial Investigation
Hunters Point Annex
San Francisco, California

PLATE **C8**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LZc	18639,490.02		11/91	

Appendix D

ANALYTICAL METHODS

DRAFT

Appendix D

Analytical Methods (Soil and Sediment)

Parameter	Analytical Method	Reference
Chemical Testing		
Volatile Organic Compounds (VOCs)	CLP VOC	SOW 2/88[1]
Semivolatile Organic Compounds (SOCs)	CLP SOC	SOW 2/88[1]
Pesticides and Polychlorinated Biphenyls (PCBs)	CLP Pesticides/PCBs	SOW 2/88[1]
Total Petroleum Hydrocarbons as Diesel	EXTN/GC-FID	LUFT[2]
Total Petroleum Hydrocarbons as Gasoline	EPA 3550/GC-FID	SW-846[3]/LUFT[2]
Oil and Grease	EPA 9070	SW-846[3]
Metals (including Molybdenum)	CLP Metals	SOW 7/87[4]
Hexavalent Chromium	EPA 7196	SW-846[3]
pH	EPA 9045	SW-846[3]
Physical Testing		
Sieve Analyses	D-422	ASTM[5]
Moisture content	D-2216	ASTM[5]
Bulk Density (Wet/Dry)	App.II, Section 3	COE[6]
Specific Gravity	D-854	ASTM[5]
Porosity	App.II, Section 3	COE[6]
Organic Content	D-2974	ASTM[5]
Permeability	D-5084	ASTM[5]

DRAFT

1 U.S. EPA. *Contract Laboratory Program, Statement of Work (SOW) for Organics Analysis.* February 1988.

2 State of California Leaking Underground Fuel Tank Task Force. *Leaking Underground Fuel Tank Manual: Guidelines for Site Assessment, Cleanup and Underground Storage Tank Closure.* May 1988.

3 U.S. EPA. *Test Methods for Evaluating Solid Waste, SW-846, 3rd Edition.* November 1986.

4 U.S. EPA. *Contract Laboratory Program, Statement or Work (SOW) for Inorganics Analysis.* July 1987.

5 ASTM. *American Society for Testing and Material, Vol. 4.08.* 1991.

6 U.S. Army Corp of Engineers. *Lab Manual.* 1110-2-1906 (81 Rev.)

Appendix D

Analytical Methods (Groundwater)

Parameter	Analytical Method	Reference
Volatile Organic Compounds (VOCs)	CLP VOC	SOW 2/88[1]
Semivolatile Organic Compounds (SOCs)	CLP SOC	SOW 2/88[1]
Pesticides and Polychlorinated Biphenyls (PCBs)	CLP Pesticides/PCBs	SOW 2/88[1]
Total Petroleum Hydrocarbons as Diesel	EXTN/GC-FID	LUFT[2]
Total Petroleum Hydrocarbons as Gasoline	EPA 3510/GC-FID	SW-846[3]/LUFT[2]
Oil and Grease	EPA 9071	SW-846[3]
CLP Metals (including Molybdenum)	CLP Metals	SOW 7/87[4]
Hexavalent Chromium	EPA 7196	SW-846[3]
Total Dissolved Solids (third round only)	EPA 160.1	EPA 600/4-79-020[5]
Major Anions (Cl, NO_3-N, PO_4-P, SO_4; first round only)	EPA 300.0	EPA 600/4-84-017[6]

DRAFT

1 U.S. EPA. *Contract Laboratory Program, Statement of Work (SOW) for Organics Analysis.* February 1988.

2 State of California Leaking Underground Fuel Tank Task Force. *Leaking Underground Fuel Tank Manual: Guidelines for Site Assessment, Cleanup and Underground Storage Tank Closure.* May 1988.

3 U.S. EPA. *Test Methods for Evaluating Solid Waste*, SW-846, 3rd Edition. November 1986.

4 U.S. EPA. *Contract Laboratory Program, Statement of Work (SOW) for Inorganics Analysis.* July 1987.

5 U.S. EPA. *Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020.* March 1983.

6 U.S. EPA. Test Method, The Determination of Inorganics Anions in Water by Ion Chromatography-Method 300.0 EPA 600/4-84-017. March 1984.

Appendix E

CHEMICAL ANALYTICAL RESULTS

The tables contain only those compounds with values reported above the detection or reporting limit for at least one sample. Compounds not detected in a sample are noted ND, and the reporting limit for the specific sample appears in the tables. All analytical results for the soil samples are presented on a dry weight basis. Laboratory and cursory validation qualifiers of the laboratory results are presented in the tables to provide quality control screening of the analytical data.

DRAFT

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B001		IR07B001		IR07B001		IR07B001
Sample Depth(feet):		1.75		3.75		6.25		10.25
Sample Number:		9132H774		9132H775		9132H776		9132H777
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/06/91		08/06/91		08/06/91		08/06/91
Lab Sample Number:		0597210001SA		0597210002SA		0597210003SA		0597210004SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(5)	A	ND(5)	A	ND(5)	A	ND(5)	J3
1,1-Dichloroethene	ug/kg	ND(5)	A	ND(5)	A	ND(5)	A	ND(5)	J3
Chloroform	ug/kg	ND(5)	A	ND(5)	A	ND(5)	A	ND(5)	J3
Methyl ethyl ketone	ug/kg	ND(11)	A	ND(10)	A	ND(10)	A	ND(10)	J3
1,1,1-Trichloroethane	ug/kg	ND(5)	A	ND(5)	A	ND(5)	A	ND(5)	J3
Trichloroethene	ug/kg	ND(5)	A	ND(5)	A	ND(5)	A	ND(5)	J3
Benzene	ug/kg	ND(5)	A	ND(5)	A	ND(5)	A	ND(5)	J3
Bromoform	ug/kg	ND(5)	A	ND(5)	A	ND(5)	A	ND(5)	J3
Methyl isobutyl ketone	ug/kg	ND(11)	A	ND(10)	A	ND(10)	A	ND(10)	J3
2-Hexanone	ug/kg	ND(11)	A	ND(10)	A	ND(10)	A	ND(10)	J3
Toluene	ug/kg	ND(5)	A	ND(5)	A	ND(5)	A	ND(5)	J3
Chlorobenzene	ug/kg	ND(5)	A	ND(5)	A	ND(5)	A	ND(5)	J3
Xylenes	ug/kg	ND(5)	A	ND(5)	A	ND(5)	A	ND(5)	J3
CLP-SOC									
4-Methylphenol	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
n-Nitrosodipropylamine	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Benzoic acid	ug/kg	ND(3400)	A	ND(6500)	A	ND(3300)	A	ND(3300)	A
Naphthalene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
2-Methylnaphthalene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Dimethyl phthalate	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Acenaphthene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Dibenzofuran	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Diethyl phthalate	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Fluorene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
n-Nitrosodiphenylamine	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Phenanthrene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	290	A/J
Anthracene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Fluoranthene	ug/kg	71	A/J	ND(1300)	A	ND(690)	A	ND(690)	A
Pyrene	ug/kg	97	A/J	ND(1300)	A	120	A/J	ND(690)	A
Benzo(a)anthracene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Chrysene	ug/kg	ND(700)	A	150	A/J	ND(690)	A	400	A/J
Di-n-octylphthalate	ug/kg	ND(700)	A	ND(1300)	A	1000	A	ND(690)	A
Benzo(b)fluoranthene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Benzo(k)fluoranthene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B001		IR07B001		IR07B001		IR07B001
Sample Depth(feet):		1.75		3.75		6.25		10.25
Sample Number:		9132H774		9132H775		9132H776		9132H777
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/06/91		08/06/91		08/06/91		08/06/91
Lab Sample Number:		0597210001SA		0597210002SA		0597210003SA		0597210004SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Dibenzo(a,h)anthracene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
Benzo(ghi)perylene	ug/kg	ND(700)	A	ND(1300)	A	ND(690)	A	ND(690)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(43)	J5	ND(82)	R1	ND(83)	R1	ND(82)	J5
Dieldrin	ug/kg	ND(85)	J5	ND(160)	R1	ND(170)	R1	ND(160)	J5
4,4'-DDE	ug/kg	ND(85)	J5	ND(160)	R1	ND(170)	R1	ND(160)	J5
Endrin	ug/kg	ND(85)	J5	ND(160)	R1	ND(170)	R1	ND(160)	J5
4,4'-DDD	ug/kg	ND(85)	J5	ND(160)	R1	ND(170)	R1	ND(160)	J5
4,4'-DDT	ug/kg	ND(85)	J5	ND(160)	R1	ND(170)	R1	ND(160)	J5
Methoxychlor	ug/kg	ND(430)	J5	ND(820)	R1	ND(830)	R1	ND(820)	J5
Aroclor-1260	ug/kg	ND(850)	J5	ND(1600)	R1	ND(1700)	R1	ND(1600)	J5
TPH DIESEL									
TPH-Diesel	mg/kg	ND(11)	A	ND(100)	A	ND(10)	A	ND(100)	A
TPH-Extractable Unknown Hydrocarbon	mg/kg	36	A/d	ND(100)	A/R	80	A/d	470	A/Rd
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.1)	A	ND(1)	A	ND(1)	A	ND(1)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	1500	A	NA		5900	A	27000	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B001		IR07B001		IR07B001		IR07B001
Sample Depth(feet):		16.25		20.75		26.25		31.25
Sample Number:		9132H778		9132H779		9132H780		9132H781
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/06/91		08/06/91		08/06/91		08/06/91
Lab Sample Number:		0597210005SA		0597210006SA		0597210007SA		0597210015SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	4	A/J	2	A/J	9	A	8	A
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(12)	A	4	A/J	6	A/J	ND(13)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(12)	A	ND(13)	A	ND(13)	A	ND(13)	A
2-Hexanone	ug/kg	ND(12)	A	ND(13)	A	ND(13)	A	ND(13)	A
Toluene	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(780)	A	ND(870)	A	ND(420)	A	ND(420)	A
n-Nitrosodipropylamine	ug/kg	ND(780)	A	ND(870)	A	ND(420)	A	ND(420)	A
Benzoic acid	ug/kg	ND(3800)	A	ND(4200)	A	ND(2100)	A	ND(2100)	A
Naphthalene	ug/kg	ND(780)	A	ND(870)	A	ND(420)	A	ND(420)	A
2-Methylnaphthalene	ug/kg	ND(780)	A	ND(870)	A	ND(420)	A	ND(420)	A
Dimethyl phthalate	ug/kg	ND(780)	A	ND(870)	A	ND(420)	A	ND(420)	A
Acenaphthene	ug/kg	ND(780)	A	ND(870)	A	ND(420)	A	ND(420)	A
Dibenzofuran	ug/kg	ND(780)	A	ND(870)	A	ND(420)	A	ND(420)	A
Diethyl phthalate	ug/kg	ND(780)	A	ND(870)	A	ND(420)	A	ND(420)	A
Fluorene	ug/kg	ND(780)	A	ND(870)	A	ND(420)	A	ND(420)	A
n-Nitrosodiphenylamine	ug/kg	ND(780)	A	ND(870)	A	ND(420)	A	ND(420)	A
Phenanthrene	ug/kg	ND(780)	A	700	A/J	ND(420)	A	ND(420)	A
Anthracene	ug/kg	ND(780)	A	270	A/J	ND(420)	A	ND(420)	A
Fluoranthene	ug/kg	ND(780)	A	1500	A	ND(420)	A	ND(420)	A
Pyrene	ug/kg	130	A/J	2400	A	ND(420)	A	ND(420)	A
Benzo(a)anthracene	ug/kg	ND(780)	A	820	A/J	ND(420)	A	ND(420)	A
Chrysene	ug/kg	89	A/J	1100	A	ND(420)	A	ND(420)	A
Di-n-octylphthalate	ug/kg	ND(780)	A	ND(870)	A	ND(420)	A	ND(420)	A
Benzo(b)fluoranthene	ug/kg	ND(780)	A	1100	A	ND(420)	A	ND(420)	A
Benzo(k)fluoranthene	ug/kg	ND(780)	A	440	A/J	ND(420)	A	ND(420)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B001		IR07B001		IR07B001		IR07B001
Sample Depth(feet):		16.25		20.75		26.25		31.25
Sample Number:		9132H778		9132H779		9132H780		9132H781
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/06/91		08/06/91		08/06/91		08/06/91
Lab Sample Number:		0597210005SA		0597210006SA		0597210007SA		0597210015SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(780)	A	980	A	ND(420)	A	ND(420)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(780)	A	480	A/J	ND(420)	A	ND(420)	A
Dibenzo(a,h)anthracene	ug/kg	ND(780)	A	91	A/J	ND(420)	A	ND(420)	A
Benzo(ghi)perylene	ug/kg	ND(780)	A	570	A/J	ND(420)	A	ND(420)	A
CLP-PEST/PCB									
Aldrin	ug/kg	NA		NA		NA		NA	
Dieldrin	ug/kg	NA		NA		NA		NA	
4,4'-DDE	ug/kg	NA		NA		NA		NA	
Endrin	ug/kg	NA		NA		NA		NA	
4,4'-DDD	ug/kg	NA		NA		NA		NA	
4,4'-DDT	ug/kg	NA		NA		NA		NA	
Methoxychlor	ug/kg	NA		NA		NA		NA	
Aroclor-1260	ug/kg	NA		NA		NA		NA	
TPH DIESEL									
TPH-Diesel	mg/kg	NA		NA		NA		NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		NA		NA		NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		NA		NA		NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B002		IR07B002		IR07B002		IR07B002
Sample Depth(feet):		1.25		3.25		5.75		10.75
Sample Number:		9049P100		9049P101		9049P102		9049P103
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		12/07/90		12/07/90
Lab Sample Number:		9012069-06A		9012069-07A		9012069-08A		9012069-09A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Chloroform	ug/kg	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(11)	R1J3/U	ND(11)	R1/U	ND(11)	R1/U	ND(11)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Benzene	ug/kg	ND(2)	U1J35/B	ND(5)	U1J5/BJ	ND(2)	U1J5/J	ND(6)	R1/U
Bromoform	ug/kg	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(11)	R1J3/U	ND(11)	R1/U	ND(11)	R1/U	ND(11)	R1/U
2-Hexanone	ug/kg	ND(11)	R1J3/U	ND(11)	R1/U	ND(11)	R1/U	ND(11)	R1/U
Toluene	ug/kg	ND(9)	U1J35/B	ND(12)	U1J5/B	ND(20)	U1J5	ND(7)	U1J5/B
Chlorobenzene	ug/kg	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Xylenes	ug/kg	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
n-Nitrosodipropylamine	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Benzoic acid	ug/kg	ND(1900)	J5/U	ND(19000)	J5/U	ND(19000)	J5/U	ND(2000)	J5/U
Naphthalene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
2-Methylnaphthalene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Dimethyl phthalate	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Acenaphthene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Dibenzofuran	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Diethyl phthalate	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Fluorene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
n-Nitrosodiphenylamine	ug/kg	ND(400)	J5/U	2300	J5/J	ND(4000)	J5/U	ND(400)	J5/U
Phenanthrene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Anthracene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Fluoranthene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Pyrene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Benzo(a)anthracene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Chrysene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Di-n-octylphthalate	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Benzo(b)fluoranthene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Benzo(k)fluoranthene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B002		IR07B002		IR07B002		IR07B002
Sample Depth(feet):		1.25		3.25		5.75		10.75
Sample Number:		9049P100		9049P101		9049P102		9049P103
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		12/07/90		12/07/90
Lab Sample Number:		9012069-06A		9012069-07A		9012069-08A		9012069-09A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Dibenzo(a,h)anthracene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
Benzo(ghi)perylene	ug/kg	ND(400)	J5/U	ND(3800)	J5/U	ND(4000)	J5/U	ND(400)	J5/U
CLP-PEST/PCB									
Aldrin	ug/kg	ND(35)	R2J5/U	ND(34)	J5/U	ND(35)	J5/U	ND(36)	J5/U
Dieldrin	ug/kg	ND(70)	R2J5/U	ND(68)	J5/U	ND(71)	J5/U	ND(72)	J5/U
4,4'-DDE	ug/kg	ND(70)	R2J5/U	ND(68)	J5/U	ND(71)	J5/U	ND(72)	J5/U
Endrin	ug/kg	ND(70)	R2J5/U	ND(68)	J5/U	ND(71)	J5/U	ND(72)	J5/U
4,4'-DDD	ug/kg	ND(70)	R2J5/U	ND(68)	J5/U	ND(71)	J5/U	ND(72)	J5/U
4,4'-DDT	ug/kg	ND(70)	R2J5/U	ND(68)	J5/U	ND(71)	J5/U	ND(72)	J5/U
Methoxychlor	ug/kg	ND(350)	R2J5/U	ND(340)	J5/U	ND(350)	J5/U	ND(360)	J5/U
Aroclor-1260	ug/kg	ND(700)	R2J5/U	ND(680)	J5/U	ND(710)	J5/U	ND(720)	J5/U
TPH DIESEL									
TPH-Diesel	mg/kg	ND(26)	J5/U	ND(51)	J5/U	ND(55)	J5/U	ND(22)	J5/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(0.56)	J53/U	ND(0.53)	J53/U	ND(0.56)	J53/U	ND(0.55)	J53/U
OIL & GREASE									
Total Oil & Grease	mg/kg	2510	J5	5720	J5	1800	J5	ND(520)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:	IR07B002	IR07B002	IR07B003	IR07B003
Sample Depth(feet):	15.75	20.75	1.75	3.75
Sample Number:	9049P104	9049P105	9132H802	9132H803
Matrix:	SOIL	SOIL	SOIL	SOIL
Sample Date:	12/07/90	12/07/90	08/07/91	08/07/91
Lab Sample Number:	9012069-10A	9012070-01A	0597500009SA	0597500010SA

Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(5)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(5)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(5)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(11)	R1/U	ND(41)	U1J5/B	ND(11)	A	ND(11)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(5)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(5)	A	ND(6)	A
Benzene	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(5)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(5)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(11)	R1/U	ND(13)	R1/U	ND(11)	A	ND(11)	A
2-Hexanone	ug/kg	ND(11)	R1/U	ND(13)	R1/U	ND(11)	A	ND(11)	A
Toluene	ug/kg	ND(3)	U1J5/BJ	ND(7)	R1/U	ND(5)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(5)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(5)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
n-Nitrosodipropylamine	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
Benzoic acid	ug/kg	ND(1800)	J5/U	ND(21000)	R1/U	ND(3500)	A	ND(3500)	A
Naphthalene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
2-Methylnaphthalene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	140	A/J	250	A/J
Dimethyl phthalate	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
Acenaphthene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
Dibenzofuran	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
Diethyl phthalate	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(190)	U1/J	ND(150)	U1/J
Fluorene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
n-Nitrosodiphenylamine	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
Phenanthrene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	82	A/J
Anthracene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
Fluoranthene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	93	A/J
Pyrene	ug/kg	ND(380)	J5/U	2400	J5/DJ	ND(720)	A	110	A/J
Benzo(a)anthracene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
Chrysene	ug/kg	ND(380)	J5/U	1800	J5/DJ	ND(720)	A	90	A/J
Di-n-octylphthalate	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
Benzo(b)fluoranthene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	82	A/J
Benzo(k)fluoranthene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B002		IR07B002		IR07B003		IR07B003
Sample Depth(feet):		15.75		20.75		1.75		3.75
Sample Number:		9049P104		9049P105		9132H802		9132H803
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		08/07/91		08/07/91
Lab Sample Number:		9012069-10A		9012070-01A		0597500009SA		0597500010SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
Dibenzo(a,h)anthracene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
Benzo(ghi)perylene	ug/kg	ND(380)	J5/U	ND(4300)	R1/U	ND(720)	A	ND(730)	A
CLP-PEST/PCB									
Aldrin	ug/kg	NA		NA		ND(87)	J5	ND(8.9)	J5
Dieldrin	ug/kg	NA		NA		ND(870)	J5/D	ND(18)	J5
4,4'-DDE	ug/kg	NA		NA		540	J5/DJ	ND(18)	J5
Endrin	ug/kg	NA		NA		ND(870)	J5/D	ND(18)	J5
4,4'-DDD	ug/kg	NA		NA		ND(870)	J5/D	ND(18)	J5
4,4'-DDT	ug/kg	NA		NA		540	J5/DJ	ND(18)	J5
Methoxychlor	ug/kg	NA		NA		470	J5/DJ	ND(89)	J5
Aroclor-1260	ug/kg	NA		NA		ND(1700)	J5/D	ND(180)	J5
TPH DIESEL									
TPH-Diesel	mg/kg	NA		NA		ND(11)	A	ND(11)	A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		ND(11)	A	ND(11)	A
TPH GAS									
TPH-Gasoline	mg/kg	NA		NA		ND(1.1)	A	ND(1.1)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		NA		3200	A	400	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B003		IR07B003		IR07B003		IR07B004
Sample Depth(feet):		6.25		16.75		21.25		2.25
Sample Number:		9132H804		9132H805		9132H806		9133M152
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/07/91		08/07/91		08/08/91		08/13/91
Lab Sample Number:		0597500011SA		0597500012SA		0597500013SA		0598870009SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
Carbon disulfide	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(11)	A	ND(12)	A	ND(12)	A	ND(12)	A
1,1,1-Trichloroethane	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(11)	A	ND(12)	A	ND(12)	A	ND(12)	A
2-Hexanone	ug/kg	ND(11)	A	ND(12)	A	ND(12)	A	ND(12)	A
Toluene	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
n-Nitrosodipropylamine	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
Benzoic acid	ug/kg	ND(3500)	A	ND(1900)	A	ND(2000)	A	ND(2000)	A
Naphthalene	ug/kg	80	A/J	ND(390)	A	ND(410)	A	ND(420)	A
2-Methylnaphthalene	ug/kg	340	A/J	ND(390)	A	ND(410)	A	ND(420)	A
Dimethyl phthalate	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
Acenaphthene	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
Dibenzofuran	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
Diethyl phthalate	ug/kg	ND(190)	U1/J	ND(390)	A	ND(410)	A	ND(54)	U1/JB
Fluorene	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
n-Nitrosodiphenylamine	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
Phenanthrene	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
Anthracene	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
Fluoranthene	ug/kg	110	A/J	ND(390)	A	ND(410)	A	ND(420)	A
Pyrene	ug/kg	120	A/J	ND(390)	A	ND(410)	A	ND(420)	A
Benzo(a)anthracene	ug/kg	69	A/J	ND(390)	A	ND(410)	A	ND(420)	A
Chrysene	ug/kg	100	A/J	ND(390)	A	ND(410)	A	ND(420)	A
Di-n-octylphthalate	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
Benzo(b)fluoranthene	ug/kg	80	A/J	ND(390)	A	ND(410)	A	ND(420)	A
Benzo(k)fluoranthene	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B003		IR07B003		IR07B003		IR07B004
Sample Depth(feet):		6.25		16.75		21.25		2.25
Sample Number:		9132H804		9132H805		9132H806		9133M152
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/07/91		08/07/91		08/08/91		08/13/91
Lab Sample Number:		0597500011SA		0597500012SA		0597500013SA		0598870009SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	79	A/J	ND(390)	A	ND(410)	A	ND(420)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
Dibenzo(a,h)anthracene	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
Benzo(ghi)perylene	ug/kg	ND(720)	A	ND(390)	A	ND(410)	A	ND(420)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(43)	J5	NA		NA		ND(9.3)	J5
Dieldrin	ug/kg	ND(87)	J5	NA		NA		ND(19)	J5
4,4'-DDE	ug/kg	ND(87)	J5	NA		NA		ND(19)	J5
Endrin	ug/kg	ND(87)	J5	NA		NA		ND(19)	J5
4,4'-DDD	ug/kg	ND(87)	J5	NA		NA		ND(19)	J5
4,4'-DDT	ug/kg	ND(87)	J5	NA		NA		ND(19)	J5
Methoxychlor	ug/kg	ND(430)	J5	NA		NA		ND(93)	J5
Aroclor-1260	ug/kg	ND(870)	J5	NA		NA		ND(190)	J5
TPH DIESEL									
TPH-Diesel	mg/kg	ND(11)	A	NA		NA		ND(12)	J5
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(11)	A	NA		NA		ND(12)	J5
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.1)	A	NA		NA		ND(1.2)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	2800	A	NA		NA		ND(58)	J5

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B004		IR07B004		IR07B004		IR07B004
Sample Depth(feet):		4.25		6.25		11.25		22.75
Sample Number:		9133M153		9133M154		9133M155		9133M156
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/13/91		08/13/91		08/13/91		08/13/91
Lab Sample Number:		0598870010SA		0598870011SA		0598870012SA		0598870013SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	1	A/J	ND(6)	A	ND(6)	A	5	A/J
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(11)	A	13	A	ND(13)	A	ND(13)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	A	1	A/J	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(11)	A	ND(13)	A	ND(13)	A	ND(13)	A
2-Hexanone	ug/kg	ND(11)	A	ND(13)	A	ND(13)	A	ND(13)	A
Toluene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
n-Nitrosodipropylamine	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Benzoic acid	ug/kg	ND(3600)	A	ND(2000)	A	ND(2100)	A	ND(2000)	A
Naphthalene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
2-Methylnaphthalene	ug/kg	ND(170)	U1/JB	ND(420)	A	ND(430)	A	ND(420)	A
Dimethyl phthalate	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Acenaphthene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Dibenzofuran	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Diethyl phthalate	ug/kg	ND(160)	U1/JB	ND(420)	A	ND(430)	A	ND(420)	A
Fluorene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
n-Nitrosodiphenylamine	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Phenanthrene	ug/kg	92	A/J	ND(420)	A	ND(430)	A	ND(420)	A
Anthracene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Fluoranthene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Pyrene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Benzo(a)anthracene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Chrysene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Di-n-octylphthalate	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Benzo(b)fluoranthene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Benzo(k)fluoranthene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B004		IR07B004		IR07B004		IR07B004
Sample Depth(feet):		4.25		6.25		11.25		22.75
Sample Number:		9133M153		9133M154		9133M155		9133M156
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/13/91		08/13/91		08/13/91		08/13/91
Lab Sample Number:		0598870010SA		0598870011SA		0598870012SA		0598870013SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Dibenzo(a,h)anthracene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
Benzo(ghi)perylene	ug/kg	ND(750)	A	ND(420)	A	ND(430)	A	ND(420)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(9.1)	R1J3	ND(10)	J5	ND(10)	J5	NA	
Dieldrin	ug/kg	ND(18)	R1J3	ND(20)	J5	ND(20)	J5	NA	
4,4'-DDE	ug/kg	6.4	J35/J	ND(20)	J5	ND(20)	J5	NA	
Endrin	ug/kg	ND(18)	R1J3	ND(20)	J5	ND(20)	J5	NA	
4,4'-DDD	ug/kg	ND(18)	R1J3	ND(20)	J5	ND(20)	J5	NA	
4,4'-DDT	ug/kg	22	J35	ND(20)	J5	ND(20)	J5	NA	
Methoxychlor	ug/kg	ND(91)	R1J3	ND(100)	J5	ND(100)	J5	NA	
Aroclor-1260	ug/kg	ND(1800)	R1J3/D	ND(200)	J5	ND(200)	J5	NA	
TPH DIESEL									
TPH-Diesel	mg/kg	49	J5	ND(13)	A	ND(13)	J5	NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(11)	J5	ND(13)	A	ND(13)	J5	NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.1)	A	ND(1.3)	A	ND(1.3)	A	NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	ND(57)	J5	ND(63)	J5	ND(65)	J5	NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B005		IR07B005		IR07B005		IR07B005
Sample Depth(feet):		1.75		3.75		6.25		11.25
Sample Number:		9132H782		9132H783		9132H784		9132H785
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/06/91		08/06/91		08/06/91		08/06/91
Lab Sample Number:		0597210008SA		0597210009SA		0597210010SA		0597210011SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(11)	A	ND(11)	A	20	A	23	A
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(11)	A	ND(11)	A	ND(11)	A	ND(12)	A
2-Hexanone	ug/kg	ND(11)	A	ND(11)	A	ND(11)	A	ND(12)	A
Toluene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	1	A/J
Chlorobenzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	ND(380)	A
n-Nitrosodipropylamine	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	ND(380)	A
Benzoic acid	ug/kg	ND(3600)	A	ND(1800)	A	ND(1800)	A	ND(1900)	A
Naphthalene	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	84	A/J
2-Methylnaphthalene	ug/kg	ND(740)	A	36	A/J	ND(370)	A	38	A/J
Dimethyl phthalate	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	ND(380)	A
Acenaphthene	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	61	A/J
Dibenzofuran	ug/kg	ND(740)	A	53	A/J	ND(370)	A	ND(380)	A
Diethyl phthalate	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	ND(380)	A
Fluorene	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	72	A/J
n-Nitrosodiphenylamine	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	ND(380)	A
Phenanthrene	ug/kg	230	A/J	240	A/J	ND(370)	A	580	A
Anthracene	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	140	A/J
Fluoranthene	ug/kg	220	A/J	48	A/J	37	A/J	470	A
Pyrene	ug/kg	220	A/J	64	A/J	42	A/J	500	A
Benzo(a)anthracene	ug/kg	110	A/J	110	A/J	ND(370)	A	270	A/J
Chrysene	ug/kg	190	A/J	160	A/J	36	A/J	370	A/J
Di-n-octylphthalate	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	ND(380)	A
Benzo(b)fluoranthene	ug/kg	200	A/J	88	A/J	37	A/J	310	A/J
Benzo(k)fluoranthene	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	170	A/J

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B005		IR07B005		IR07B005		IR07B005
Sample Depth(feet):		1.75		3.75		6.25		11.25
Sample Number:		9132H782		9132H783		9132H784		9132H785
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/06/91		08/06/91		08/06/91		08/06/91
Lab Sample Number:		0597210008SA		0597210009SA		0597210010SA		0597210011SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	130	A/J	ND(370)	A	ND(370)	A	270	A/J
Indeno(1,2,3-cd)pyrene	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	110	A/J
Dibenzo(a,h)anthracene	ug/kg	ND(740)	A	ND(370)	A	ND(370)	A	37	A/J
Benzo(ghi)perylene	ug/kg	88	A/J	ND(370)	A	ND(370)	A	95	A/J
CLP-PEST/PCB									
Aldrin	ug/kg	ND(90)	J5	ND(89)	J5	ND(9.1)	J5	ND(9.3)	J5
Dieldrin	ug/kg	ND(180)	J5	ND(180)	J5	ND(18)	J5	ND(19)	J5
4,4'-DDE	ug/kg	ND(180)	J5	ND(180)	J5	4.4	J5/J	ND(19)	J5
Endrin	ug/kg	ND(180)	J5	ND(180)	J5	ND(18)	J5	ND(19)	J5
4,4'-DDD	ug/kg	ND(180)	J5	ND(180)	J5	ND(18)	J5	ND(19)	J5
4,4'-DDT	ug/kg	ND(180)	J5	ND(180)	J5	ND(18)	J5	ND(19)	J5
Methoxychlor	ug/kg	ND(900)	J5	ND(890)	J5	ND(91)	J5	ND(93)	J5
Aroclor-1260	ug/kg	ND(1800)	J5	ND(1800)	J5	ND(180)	J5	ND(190)	J5
TPH DIESEL									
TPH-Diesel	mg/kg	ND(11)	A	94	A/1	ND(11)	A	ND(12)	A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(11)	A	ND(11)	A	ND(11)	A	ND(12)	A
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.1)	A	ND(1.1)	A	ND(1.1)	A	ND(1.2)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	450	A	ND(56)	A	68	A	79	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B005		IR07B005		IR07B005		IR07B006
Sample Depth(feet):		16.25		21.25		31.75		1.25
Sample Number:		9132H786		9132H787		9132H788		9049P106
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/06/91		08/06/91		08/06/91		12/07/90
Lab Sample Number:		0597210012SA		0597210013SA		0597210014SA		9012070-02A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(7)	A	ND(6)	A	7	A/J	ND(5)	R1/U
1,1-Dichloroethene	ug/kg	ND(7)	A	ND(6)	A	ND(8)	A	ND(5)	R1/U
Chloroform	ug/kg	ND(7)	A	ND(6)	A	ND(8)	A	ND(5)	R1/U
Methyl ethyl ketone	ug/kg	11	A/J	ND(12)	A	5	A/J	ND(61)	U1J5/B
1,1,1-Trichloroethane	ug/kg	ND(7)	A	ND(6)	A	ND(8)	A	ND(5)	R1/U
Trichloroethene	ug/kg	ND(7)	A	ND(6)	A	ND(8)	A	ND(5)	R1/U
Benzene	ug/kg	ND(7)	A	ND(6)	A	ND(8)	A	ND(5)	R1/U
Bromoform	ug/kg	ND(7)	A	ND(6)	A	ND(8)	A	ND(5)	R1/U
Methyl isobutyl ketone	ug/kg	ND(14)	A	ND(12)	A	ND(16)	A	ND(11)	R1/U
2-Hexanone	ug/kg	ND(14)	A	ND(12)	A	ND(16)	A	ND(11)	R1/U
Toluene	ug/kg	ND(7)	A	ND(6)	A	ND(8)	A	13	J5F
Chlorobenzene	ug/kg	ND(7)	A	ND(6)	A	ND(8)	A	ND(5)	R1/U
Xylenes	ug/kg	ND(7)	A	ND(6)	A	ND(8)	A	ND(5)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Benzoic acid	ug/kg	ND(2300)	A	ND(2000)	A	ND(2600)	A	ND(18000)	R1/U
Naphthalene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
2-Methylnaphthalene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Dimethyl phthalate	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Acenaphthene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Dibenzofuran	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Diethyl phthalate	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Fluorene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Phenanthrene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Anthracene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Fluoranthene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Pyrene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Benzo(a)anthracene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Chrysene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Di-n-octylphthalate	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B005		IR07B005		IR07B005		IR07B006
Sample Depth(feet):		16.25		21.25		31.75		1.25
Sample Number:		9132H786		9132H787		9132H788		9049P106
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/06/91		08/06/91		08/06/91		12/07/90
Lab Sample Number:		0597210012SA		0597210013SA		0597210014SA		9012070-02A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
Benzo(ghi)perylene	ug/kg	ND(460)	A	ND(410)	A	ND(530)	A	ND(3700)	R1/U
CLP-PEST/PCB									
Aldrin	ug/kg	NA		NA		NA		ND(16)	R1/U
Dieldrin	ug/kg	NA		NA		NA		ND(33)	R1/U
4,4'-DDE	ug/kg	NA		NA		NA		ND(33)	R1/U
Endrin	ug/kg	NA		NA		NA		ND(33)	R1/U
4,4'-DDD	ug/kg	NA		NA		NA		ND(33)	R1/U
4,4'-DDT	ug/kg	NA		NA		NA		ND(33)	R1/U
Methoxychlor	ug/kg	NA		NA		NA		ND(160)	R1/U
Aroclor-1260	ug/kg	NA		NA		NA		ND(330)	R1/U
TPH DIESEL									
TPH-Diesel	mg/kg	NA		NA		NA		ND(21)	J35/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		NA		NA		ND(0.54)	J5/U
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		NA		NA		970	J5

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B006		IR07B006		IR07B006		IR07B006
Sample Depth(feet):		4.25		6.25		10.75		15.75
Sample Number:		9049P107		9049P108		9049P109		9049P110
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		12/07/90		12/07/90
Lab Sample Number:		9012070-03A		9012070-04A		9012070-05A		9012070-06A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1/U	ND(5)	R1/U	ND(7)	R1/U	ND(8)	R1/U
1,1-Dichloroethene	ug/kg	ND(6)	R1/U	ND(5)	R1/U	ND(7)	R1/U	ND(8)	R1/U
Chloroform	ug/kg	ND(6)	R1/U	ND(5)	R1/U	ND(7)	R1/U	ND(8)	R1/U
Methyl ethyl ketone	ug/kg	ND(11)	R1/U	ND(30)	U1J5/B	ND(13)	R1/U	ND(15)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(6)	R1/U	ND(5)	R1/U	ND(7)	R1/U	ND(8)	R1/U
Trichloroethene	ug/kg	ND(6)	R1/U	ND(5)	R1/U	ND(7)	R1/U	ND(8)	R1/U
Benzene	ug/kg	ND(6)	R1/U	ND(5)	R1/U	ND(7)	R1/U	ND(8)	R1/U
Bromoform	ug/kg	ND(6)	R1/U	ND(5)	R1/U	ND(7)	R1/U	ND(8)	R1/U
Methyl isobutyl ketone	ug/kg	ND(11)	R1/U	ND(11)	R1/U	ND(13)	R1/U	ND(15)	R1/U
2-Hexanone	ug/kg	ND(11)	R1/U	ND(11)	R1/U	ND(13)	R1/U	ND(15)	R1/U
Toluene	ug/kg	ND(6)	R1/U	ND(5)	R1/U	ND(7)	R1/U	ND(8)	R1/U
Chlorobenzene	ug/kg	ND(6)	R1/U	ND(5)	R1/U	ND(7)	R1/U	ND(8)	R1/U
Xylenes	ug/kg	ND(6)	R1/U	ND(5)	R1/U	ND(7)	R1/U	ND(8)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Benzoic acid	ug/kg	ND(1900)	R1/U	ND(1900)	R1/U	ND(2300)	R1/U	ND(2300)	R1/U
Naphthalene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
2-Methylnaphthalene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Dimethyl phthalate	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Acenaphthene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Dibenzofuran	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Diethyl phthalate	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Fluorene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Phenanthrene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Anthracene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Fluoranthene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Pyrene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Benzo(a)anthracene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Chrysene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Di-n-octylphthalate	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B006		IR07B006		IR07B006		IR07B006
Sample Depth(feet):		4.25		6.25		10.75		15.75
Sample Number:		9049P107		9049P108		9049P109		9049P110
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		12/07/90		12/07/90
Lab Sample Number:		9012070-03A		9012070-04A		9012070-05A		9012070-06A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
Benzo(ghi)perylene	ug/kg	ND(390)	R1/U	ND(400)	R1/U	ND(470)	R1/U	ND(480)	R1/U
CLP-PEST/PCB									
Aldrin	ug/kg	ND(17)	R1/U	ND(18)	R1/U	ND(21)	R1/U	NA	
Dieldrin	ug/kg	ND(35)	R1/U	ND(35)	R1/U	ND(41)	R1/U	NA	
4,4'-DDE	ug/kg	ND(35)	R1/U	ND(35)	R1/U	ND(41)	R1/U	NA	
Endrin	ug/kg	ND(35)	R1/U	ND(35)	R1/U	ND(41)	R1/U	NA	
4,4'-DDD	ug/kg	ND(35)	R1/U	ND(35)	R1/U	ND(41)	R1/U	NA	
4,4'-DDT	ug/kg	ND(35)	R1/U	ND(35)	R1/U	ND(41)	R1/U	NA	
Methoxychlor	ug/kg	ND(170)	R1/U	ND(180)	R1/U	ND(210)	R1/U	NA	
Aroclor-1260	ug/kg	ND(350)	R1/U	ND(350)	R1/U	ND(410)	R1/U	NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(22)	J35/U	ND(21)	J35/U	ND(25)	J35/U	NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(0.56)	J5/U	ND(0.55)	J5/U	ND(0.65)	J5/U	NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	ND(560)	J5/U	ND(520)	J5/U	ND(610)	J5/U	NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B006		IR07B006		IR07B007		IR07B007
Sample Depth(feet):		20.25		30.75		1.75		3.75
Sample Number:		9049P111		9049P112		9049H566		9049H567
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		12/06/90		12/06/90
Lab Sample Number:		9012070-07A		9012070-08A		9012059-09A		9012059-10A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
Carbon disulfide	ug/kg	ND(7)	R1/U	ND(8)	R1/U	ND(5.1)	R1/U	ND(5.3)	R1/U
1,1-Dichloroethene	ug/kg	ND(7)	R1/U	ND(8)	R1/U	ND(5.1)	R1/U	ND(5.3)	R1/U
Chloroform	ug/kg	ND(7)	R1/U	ND(8)	R1/U	ND(5.1)	R1/U	ND(5.3)	R1/U
Methyl ethyl ketone	ug/kg	ND(13)	R1/U	ND(17)	U1J5/B	ND(10)	R1/U	ND(11)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(7)	R1/U	ND(8)	R1/U	ND(5.1)	R1/U	ND(5.3)	R1/U
Trichloroethene	ug/kg	ND(7)	R1/U	ND(8)	R1/U	ND(5.1)	R1/U	ND(5.3)	R1/U
Benzene	ug/kg	ND(7)	R1/U	ND(8)	R1/U	ND(5.1)	R1/U	ND(5.3)	R1/U
Bromoform	ug/kg	ND(7)	R1/U	ND(8)	R1/U	ND(5.1)	R1/U	ND(5.3)	R1/U
Methyl isobutyl ketone	ug/kg	ND(13)	R1/U	ND(16)	R1/U	ND(10)	R1/U	ND(11)	R1/U
2-Hexanone	ug/kg	ND(13)	R1/U	ND(16)	R1/U	ND(10)	R1/U	ND(11)	R1/U
Toluene	ug/kg	ND(7)	R1/U	ND(8)	R1/U	ND(5.1)	R1/U	ND(5.3)	R1/U
Chlorobenzene	ug/kg	ND(7)	R1/U	ND(8)	R1/U	ND(5.1)	R1/U	ND(5.3)	R1/U
Xylenes	ug/kg	ND(7)	R1/U	ND(8)	R1/U	ND(5.1)	R1/U	ND(5.3)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(430)	R1/U	ND(540)	R1J3/U	ND(360)	R1/U	ND(750)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Benzoic acid	ug/kg	ND(2100)	R1/U	ND(2600)	R1/U	ND(1800)	R1/U	ND(3600)	R1/U
Naphthalene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
2-Methylnaphthalene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Dimethyl phthalate	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Acenaphthene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Dibenzofuran	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Diethyl phthalate	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Fluorene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Phenanthrene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Anthracene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Fluoranthene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Pyrene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Benzo(a)anthracene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Chrysene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Di-n-octylphthalate	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B006		IR07B006		IR07B007		IR07B007
Sample Depth(feet):		20.25		30.75		1.75		3.75
Sample Number:		9049P111		9049P112		9049H566		9049H567
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		12/06/90		12/06/90
Lab Sample Number:		9012070-07A		9012070-08A		9012059-09A		9012059-10A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
Benzo(ghi)perylene	ug/kg	ND(430)	R1/U	ND(540)	R1/U	ND(360)	R1/U	ND(750)	R1/U
CLP-PEST/PCB									
Aldrin	ug/kg	NA		NA		ND(31)	R2J5/U	ND(33)	R2J5/U
Dieldrin	ug/kg	NA		NA		ND(63)	R2J5/U	ND(65)	R2J5/U
4,4'-DDE	ug/kg	NA		NA		ND(63)	R2J5/U	ND(65)	R2J5/U
Endrin	ug/kg	NA		NA		ND(63)	R2J5/U	ND(65)	R2J5/U
4,4'-DDD	ug/kg	NA		NA		ND(63)	R2J5/U	ND(65)	R2J5/U
4,4'-DDT	ug/kg	NA		NA		ND(63)	R2J5/U	ND(65)	R2J5/U
Methoxychlor	ug/kg	NA		NA		ND(310)	R2J5/U	ND(330)	R2J5/U
Aroclor-1260	ug/kg	NA		NA		ND(630)	R2J5/U	ND(650)	R2J5/U
TPH DIESEL									
TPH-Diesel	mg/kg	NA		NA		ND(23)	J5/U	ND(22)	J5/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		NA		ND(0.58)	J53/U	ND(0.56)	J53/U
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		NA		ND(900)	U1J5	ND(540)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B007		IR07B007		IR07B007		IR07B007
Sample Depth(feet):		6.25		11.25		16.25		21.25
Sample Number:		9049H568		9049H569		9049H570		9049H571
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/06/90		12/06/90		12/06/90		12/06/90
Lab Sample Number:		9012059-11A		9012059-12A		9012059-13A		9012059-14A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
Carbon disulfide	ug/kg	ND(5)	R1/U	ND(5)	R1/U	ND(5)	R1/U	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(5)	R1/U	ND(5)	R1/U	ND(5)	R1/U	ND(6)	R1/U
Chloroform	ug/kg	ND(5)	R1/U	ND(5)	R1/U	ND(5)	R1/U	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(16)	U1J5	ND(10)	R1/U	ND(17)	U1J5	ND(18)	U1J5
1,1,1-Trichloroethane	ug/kg	ND(5)	R1/U	ND(5)	R1/U	ND(5)	R1/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(5)	R1/U	ND(5)	R1/U	ND(5)	R1/U	ND(6)	R1/U
Benzene	ug/kg	ND(5)	R1/U	ND(5)	R1/U	ND(5)	R1/U	ND(6)	R1/U
Bromoform	ug/kg	ND(5)	R1/U	ND(5)	R1/U	ND(5)	R1/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(10)	R1/U	ND(10)	R1/U	ND(11)	R1/U	ND(12)	R1/U
2-Hexanone	ug/kg	ND(10)	R1/U	ND(10)	R1/U	ND(11)	R1/U	ND(12)	R1/U
Toluene	ug/kg	5	J5F	4	J5F/J	3	J5F/J	ND(6)	R1/U
Chlorobenzene	ug/kg	ND(5)	R1/U	ND(5)	R1/U	ND(5)	R1/U	ND(6)	R1/U
Xylenes	ug/kg	ND(5)	R1/U	ND(5)	R1/U	ND(5)	R1/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Benzoic acid	ug/kg	ND(1800)	R1/U	ND(1800)	R1/U	ND(1700)	R1/U	ND(1900)	R1/U
Naphthalene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
2-Methylnaphthalene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Dimethyl phthalate	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Acenaphthene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Dibenzofuran	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Diethyl phthalate	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Fluorene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Phenanthrene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Anthracene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Fluoranthene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Pyrene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Benzo(a)anthracene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Chrysene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Di-n-octylphthalate	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B007		IR07B007		IR07B007		IR07B007
Sample Depth(feet):		6.25		11.25		16.25		21.25
Sample Number:		9049H568		9049H569		9049H570		9049H571
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/06/90		12/06/90		12/06/90		12/06/90
Lab Sample Number:		9012059-11A		9012059-12A		9012059-13A		9012059-14A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
Benzo(ghi)perylene	ug/kg	ND(360)	R1/U	ND(360)	R1/U	ND(350)	R1/U	ND(400)	R1/U
CLP-PEST/PCB									
Aldrin	ug/kg	ND(32)	R2J5/U	ND(32)	R2J5/U	NA		NA	
Dieldrin	ug/kg	ND(63)	R2J5/U	ND(64)	R2J5/U	NA		NA	
4,4'-DDE	ug/kg	ND(63)	R2J5/U	ND(64)	R2J5/U	NA		NA	
Endrin	ug/kg	ND(63)	R2J5/U	ND(64)	R2J5/U	NA		NA	
4,4'-DDD	ug/kg	ND(63)	R2J5/U	ND(64)	R2J5/U	NA		NA	
4,4'-DDT	ug/kg	ND(63)	R2J5/U	ND(64)	R2J5/U	NA		NA	
Methoxychlor	ug/kg	ND(320)	R2J5/U	ND(320)	R2J5/U	NA		NA	
Aroclor-1260	ug/kg	ND(630)	R2J5/U	ND(640)	R2J5/U	NA		NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(22)	J5/U	ND(20)	J5/U	NA		NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(0.55)	J53/U	ND(0.56)	J53/U	NA		NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	ND(1290)	U1J5	ND(1280)	U1J5	NA		NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B008		IR07B008		IR07B008		IR07B008
Sample Depth(feet):		2.25		3.75		6.25		11.25
Sample Number:		9133M134		9133M135		9133M136		9133M137
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/13/91		08/13/91		08/13/91		08/13/91
Lab Sample Number:		0598840019SA		0598840020SA		0598870001SA		0598870002SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(11)	A	ND(11)	A	ND(12)	A	ND(12)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(11)	A	ND(11)	A	ND(12)	A	ND(12)	A
2-Hexanone	ug/kg	ND(11)	A	ND(11)	A	ND(12)	A	ND(12)	A
Toluene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
n-Nitrosodipropylamine	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
Benzoic acid	ug/kg	ND(1800)	A	ND(1800)	A	ND(1900)	A	ND(1900)	A
Naphthalene	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
2-Methylnaphthalene	ug/kg	ND(370)	A	64	A/J	ND(130)	U1/J	ND(390)	A
Dimethyl phthalate	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
Acenaphthene	ug/kg	ND(370)	A	ND(370)	A	40	A/J	ND(390)	A
Dibenzofuran	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
Diethyl phthalate	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
Fluorene	ug/kg	ND(370)	A	ND(370)	A	59	A/J	ND(390)	A
n-Nitrosodiphenylamine	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
Phenanthrene	ug/kg	ND(370)	A	200	A/J	410	A	ND(390)	A
Anthracene	ug/kg	ND(370)	A	ND(370)	A	42	A/J	ND(390)	A
Fluoranthene	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
Pyrene	ug/kg	ND(370)	A	81	A/J	160	A/J	ND(390)	A
Benzo(a)anthracene	ug/kg	ND(370)	A	ND(370)	A	78	A/J	ND(390)	A
Chrysene	ug/kg	ND(370)	A	79	A/J	190	A/J	ND(390)	A
Di-n-octylphthalate	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
Benzo(b)fluoranthene	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
Benzo(k)fluoranthene	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B008		IR07B008		IR07B008		IR07B008
Sample Depth(feet):		2.25		3.75		6.25		11.25
Sample Number:		9133M134		9133M135		9133M136		9133M137
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/13/91		08/13/91		08/13/91		08/13/91
Lab Sample Number:		0598840019SA		0598840020SA		0598870001SA		0598870002SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(370)	A	ND(370)	A	41	A/J	ND(390)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
Dibenzo(a,h)anthracene	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
Benzo(ghi)perylene	ug/kg	ND(370)	A	ND(370)	A	ND(390)	A	ND(390)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(9)	J5	2.6	J5/J	ND(9.4)	J5	ND(9.5)	J5
Dieldrin	ug/kg	ND(18)	J5	ND(18)	J5	ND(19)	J5	ND(19)	J5
4,4'-DDE	ug/kg	ND(18)	J5	ND(18)	J5	ND(19)	J5	ND(19)	J5
Endrin	ug/kg	ND(18)	J5	ND(18)	J5	ND(19)	J5	ND(19)	J5
4,4'-DDD	ug/kg	ND(18)	J5	ND(18)	J5	ND(19)	J5	ND(19)	J5
4,4'-DDT	ug/kg	ND(18)	J5	ND(18)	J5	9.1	J5/J	ND(19)	J5
Methoxychlor	ug/kg	ND(90)	J5	ND(90)	J5	ND(94)	J5	ND(95)	J5
Aroclor-1260	ug/kg	ND(180)	J5	ND(180)	J5	ND(940)	J5/D	ND(190)	J5
TPH DIESEL									
TPH-Diesel	mg/kg	ND(11)	A	ND(11)	A	120	J5	ND(12)	A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(11)	A	ND(11)	A	ND(12)	J5	ND(12)	A
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.1)	A	ND(1.1)	A	ND(1.2)	A	ND(1.2)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	ND(56)	J5	ND(56)	J5	ND(59)	J5	ND(60)	J5

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B008		IR07B009		IR07B009		IR07B009
Sample Depth(feet):		16.25		1.75		3.75		5.25
Sample Number:		9133M138		9049H551		9049H552		9049H553
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/13/91		12/04/90		12/04/90		12/04/90
Lab Sample Number:		0598870003SA		9012040-08A		9012040-09A		9012041-01A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(7)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(7)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Chloroform	ug/kg	ND(7)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(15)	A	ND(11)	R1/U	ND(11)	R1/U	ND(12)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(7)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(7)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Benzene	ug/kg	ND(7)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Bromoform	ug/kg	ND(7)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(15)	A	ND(11)	R1/U	ND(11)	R1/U	ND(12)	R1/U
2-Hexanone	ug/kg	ND(15)	A	ND(11)	R1/U	ND(11)	R1/U	ND(12)	R1/U
Toluene	ug/kg	ND(7)	A	ND(7)	U1J5	ND(15)	U1J5	ND(4)	U1J5/J
Chlorobenzene	ug/kg	ND(7)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Xylenes	ug/kg	ND(7)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
n-Nitrosodipropylamine	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Benzoic acid	ug/kg	ND(2400)	A	ND(2000)	J5/U	ND(2000)	J5/U	ND(2100)	J5/U
Naphthalene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
2-Methylnaphthalene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Dimethyl phthalate	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Acenaphthene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Dibenzofuran	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Diethyl phthalate	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Fluorene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
n-Nitrosodiphenylamine	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Phenanthrene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	320	J5/J
Anthracene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Fluoranthene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Pyrene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	200	J5/J
Benzo(a)anthracene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Chrysene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	200	J5/J
Di-n-octylphthalate	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Benzo(b)fluoranthene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Benzo(k)fluoranthene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B008		IR07B009		IR07B009		IR07B009
Sample Depth(feet):		16.25		1.75		3.75		5.25
Sample Number:		9133M138		9049H551		9049H552		9049H553
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/13/91		12/04/90		12/04/90		12/04/90
Lab Sample Number:		0598870003SA		9012040-08A		9012040-09A		9012041-01A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Dibenzo(a,h)anthracene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
Benzo(ghi)perylene	ug/kg	ND(490)	A	ND(410)	J5/U	ND(410)	J5/U	ND(430)	J5/U
CLP-PEST/PCB									
Aldrin	ug/kg	NA		ND(35)	R12/U	ND(36)	J5/U	ND(38)	J5/U
Dieldrin	ug/kg	NA		ND(71)	R12/U	ND(71)	J5/U	ND(75)	J5/U
4,4'-DDE	ug/kg	NA		ND(71)	R12/U	ND(71)	J5/U	ND(75)	J5/U
Endrin	ug/kg	NA		ND(71)	R12/U	ND(71)	J5/U	ND(75)	J5/U
4,4'-DDD	ug/kg	NA		ND(71)	R12/U	ND(71)	J5/U	ND(75)	J5/U
4,4'-DDT	ug/kg	NA		ND(71)	R12/U	ND(71)	J5/U	ND(75)	J5/U
Methoxychlor	ug/kg	NA		ND(350)	R12/U	ND(360)	J5/U	ND(380)	J5/U
Aroclor-1260	ug/kg	NA		ND(710)	R12/U	ND(710)	J5/U	ND(750)	J5/U
TPH DIESEL									
TPH-Diesel	mg/kg	NA		ND(22)	J5/U	208	J5	154	J5
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		ND(0.56)	J5/U	ND(0.56)	J5/U	ND(0.55)	R1/U
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		1240	J5	ND(560)	J5/U	ND(560)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B010		IR07B010		IR07B010		IR07B010
Sample Depth(feet):		1.38		7.62		10.88		15.88
Sample Number:		9049H545		9049H546		9049H547		9049H548
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/04/90		12/04/90		12/04/90		12/04/90
Lab Sample Number:		9012040-02A		9012040-03A		9012040-04A		9012040-05A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Chloroform	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(12)	R1/U	ND(12)	R1J3/U	ND(11)	R1J3/U	ND(12)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Benzene	ug/kg	ND(4)	U1J5/BJ	ND(3)	U1J35/B	ND(3)	U1J35/B	ND(6)	R1/U
Bromoform	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(12)	R1/U	ND(12)	R1J3/U	ND(11)	R1J3/U	ND(12)	R1/U
2-Hexanone	ug/kg	ND(12)	R1/U	ND(12)	R1J3/U	ND(11)	R1J3/U	ND(12)	R1/U
Toluene	ug/kg	ND(7)	U1J5/B	ND(23)	U1J35/B	ND(8)	U1J35/B	ND(7)	U1J5/B
Chlorobenzene	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Xylenes	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
n-Nitrosodipropylamine	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Benzoic acid	ug/kg	ND(2000)	J5/U	ND(1900)	J5/U	ND(19000)	J5/U	ND(1800)	J5/U
Naphthalene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
2-Methylnaphthalene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Dimethyl phthalate	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Acenaphthene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Dibenzofuran	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Diethyl phthalate	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Fluorene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
n-Nitrosodiphenylamine	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Phenanthrene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Anthracene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Fluoranthene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Pyrene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Benzo(a)anthracene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Chrysene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Di-n-octylphthalate	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Benzo(b)fluoranthene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Benzo(k)fluoranthene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B010		IR07B010		IR07B010		IR07B010	
Sample Depth(feet):		1.38		7.62		10.88		15.88	
Sample Number:		9049H545		9049H546		9049H547		9049H548	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/04/90		12/04/90		12/04/90		12/04/90	
Lab Sample Number:		9012040-02A		9012040-03A		9012040-04A		9012040-05A	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Dibenzo(a,h)anthracene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
Benzo(ghi)perylene	ug/kg	ND(420)	J5/U	ND(400)	J5/U	ND(4000)	J5/U	ND(380)	J5/U
CLP-PEST/PCB									
Aldrin	ug/kg	ND(37)	R12/U	ND(37)	J5/U	ND(35)	J5/U	NA	
Dieldrin	ug/kg	ND(73)	R12/U	ND(74)	J5/U	ND(69)	J5/U	NA	
4,4'-DDE	ug/kg	ND(73)	R12/U	ND(74)	J5/U	ND(69)	J5/U	NA	
Endrin	ug/kg	ND(73)	R12/U	ND(74)	J5/U	ND(69)	J5/U	NA	
4,4'-DDD	ug/kg	ND(73)	R12/U	ND(74)	J5/U	ND(69)	J5/U	NA	
4,4'-DDT	ug/kg	ND(73)	R12/U	ND(74)	J5/U	ND(69)	J5/U	NA	
Methoxychlor	ug/kg	ND(370)	R12/U	ND(370)	J5/U	ND(350)	J5/U	NA	
Aroclor-1260	ug/kg	ND(730)	R12/U	ND(740)	J5/U	ND(690)	J5/U	NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(23)	J5/U	ND(23)	J5/U	ND(22)	J5/U	NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(0.55)	J5/U	ND(0.58)	J5/U	ND(0.56)	J5/U	NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	ND(560)	J5/U	970	J5	ND(540)	J5/U	NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B010		IR07B010		IR07B011		IR07B011
Sample Depth(feet):		20.88		30.62		1.75		3.75
Sample Number:		9049H549		9049H550		9132H796		9132H797
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/04/90		12/04/90		08/07/91		08/07/91
Lab Sample Number:		9012040-06A		9012040-07A		0597500003SA		0597500004SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(13)	R1/U	ND(13)	R1/U	ND(11)	A	ND(11)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5)	A	ND(6)	A
Benzene	ug/kg	ND(6)	R1/U	ND(4)	U1J5/J	ND(5)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(13)	R1/U	ND(13)	R1/U	ND(11)	A	ND(11)	A
2-Hexanone	ug/kg	ND(13)	R1/U	ND(13)	R1/U	ND(11)	A	ND(11)	A
Toluene	ug/kg	ND(5)	U1J5/J	ND(11)	U1J5	ND(5)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(400)	J5/U	ND(420)	J5/U	ND(360)	A	ND(730)	A
n-Nitrosodipropylamine	ug/kg	ND(400)	J5/U	ND(420)	J5/U	ND(360)	A	ND(730)	A
Benzoic acid	ug/kg	ND(1900)	J5/U	ND(2000)	J5/U	ND(1700)	A	ND(3500)	A
Naphthalene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	42	A/J	ND(730)	A
2-Methylnaphthalene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	64	A/J	ND(730)	A
Dimethyl phthalate	ug/kg	ND(400)	J5/U	ND(420)	J5/U	ND(360)	A	ND(730)	A
Acenaphthene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	ND(360)	A	ND(730)	A
Dibenzofuran	ug/kg	ND(400)	J5/U	ND(420)	J5/U	47	A/J	ND(730)	A
Diethyl phthalate	ug/kg	ND(400)	J5/U	ND(420)	J5/U	ND(360)	A	ND(150)	U1/JB
Fluorene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	ND(360)	A	ND(730)	A
n-Nitrosodiphenylamine	ug/kg	ND(400)	J5/U	ND(420)	J5/U	ND(360)	A	ND(730)	A
Phenanthrene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	160	A/J	170	A/J
Anthracene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	ND(360)	A	ND(730)	A
Fluoranthene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	130	A/J	270	A/J
Pyrene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	140	A/J	210	A/J
Benzo(a)anthracene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	68	A/J	120	A/J
Chrysene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	110	A/J	160	A/J
Di-n-octylphthalate	ug/kg	ND(400)	J5/U	ND(420)	J5/U	ND(360)	A	ND(730)	A
Benzo(b)fluoranthene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	97	A/J	140	A/J
Benzo(k)fluoranthene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	46	A/J	87	A/J

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B010		IR07B010		IR07B011		IR07B011
Sample Depth(feet):		20.88		30.62		1.75		3.75
Sample Number:		9049H549		9049H550		9132H796		9132H797
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/04/90		12/04/90		08/07/91		08/07/91
Lab Sample Number:		9012040-06A		9012040-07A		0597500003SA		0597500004SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	68	A/J	99	A/J
Indeno(1,2,3-cd)pyrene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	44	A/J	ND(730)	A
Dibenzo(a,h)anthracene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	ND(360)	A	ND(730)	A
Benzo(ghi)perylene	ug/kg	ND(400)	J5/U	ND(420)	J5/U	53	A/J	ND(730)	A
CLP-PEST/PCB									
Aldrin	ug/kg	NA		NA		ND(43)	J5	ND(8.9)	J5
Dieldrin	ug/kg	NA		NA		ND(87)	J5	ND(18)	J5
4,4'-DDE	ug/kg	NA		NA		ND(87)	J5	ND(18)	J5
Endrin	ug/kg	NA		NA		ND(87)	J5	ND(18)	J5
4,4'-DDD	ug/kg	NA		NA		ND(87)	J5	ND(18)	J5
4,4'-DDT	ug/kg	NA		NA		ND(87)	J5	20	J5
Methoxychlor	ug/kg	NA		NA		ND(430)	J5	ND(89)	J5
Aroclor-1260	ug/kg	NA		NA		340	J5/J	180	J5
TPH DIESEL									
TPH-Diesel	mg/kg	NA		NA		ND(33)	A	ND(11)	A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		49	A/1	ND(11)	A
TPH GAS									
TPH-Gasoline	mg/kg	NA		NA		ND(1.1)	A	ND(1.1)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		NA		ND(54)	A	330	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B011		IR07B011		IR07B011		IR07B011
Sample Depth(feet):		6.25		11.25		16.75		21.25
Sample Number:		9132H798		9132H799		9132H800		9132H801
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/07/91		08/07/91		08/07/91		08/07/91
Lab Sample Number:		0597500005SA		0597500006SA		0597500007SA		0597500008SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	J3	ND(7)	A	ND(7)	A	ND(7)	A
1,1-Dichloroethene	ug/kg	ND(6)	J3	ND(7)	A	ND(7)	A	ND(7)	A
Chloroform	ug/kg	ND(6)	J3	ND(7)	A	ND(7)	A	ND(7)	A
Methyl ethyl ketone	ug/kg	ND(11)	J3	ND(14)	A	ND(13)	A	ND(14)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	J3	ND(7)	A	ND(7)	A	ND(7)	A
Trichloroethene	ug/kg	ND(6)	J3	ND(7)	A	ND(7)	A	ND(7)	A
Benzene	ug/kg	ND(6)	J3	ND(7)	A	ND(7)	A	ND(7)	A
Bromoform	ug/kg	ND(6)	J3	ND(7)	A	ND(7)	A	ND(7)	A
Methyl isobutyl ketone	ug/kg	ND(11)	J3	ND(14)	A	ND(13)	A	ND(14)	A
2-Hexanone	ug/kg	ND(11)	J3	ND(14)	A	ND(13)	A	ND(14)	A
Toluene	ug/kg	ND(6)	J3	ND(7)	A	ND(7)	A	ND(7)	A
Chlorobenzene	ug/kg	ND(6)	J3	ND(7)	A	ND(7)	A	ND(7)	A
Xylenes	ug/kg	ND(6)	J3	ND(7)	A	ND(7)	A	ND(7)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
n-Nitrosodipropylamine	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
Benzoic acid	ug/kg	ND(3500)	A	ND(2200)	A	ND(4200)	A	ND(2200)	A
Naphthalene	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
2-Methylnaphthalene	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
Dimethyl phthalate	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
Acenaphthene	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
Dibenzofuran	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
Diethyl phthalate	ug/kg	ND(170)	U1/J	ND(450)	A	ND(160)	U1/J	ND(450)	A
Fluorene	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
n-Nitrosodiphenylamine	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
Phenanthrene	ug/kg	130	A/J	ND(450)	A	ND(870)	A	ND(450)	A
Anthracene	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
Fluoranthene	ug/kg	160	A/J	ND(450)	A	ND(870)	A	ND(450)	A
Pyrene	ug/kg	160	A/J	ND(450)	A	ND(870)	A	ND(450)	A
Benzo(a)anthracene	ug/kg	86	A/J	ND(450)	A	ND(870)	A	ND(450)	A
Chrysene	ug/kg	130	A/J	ND(450)	A	ND(870)	A	ND(450)	A
Di-n-octylphthalate	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
Benzo(b)fluoranthene	ug/kg	120	A/J	ND(450)	A	ND(870)	A	ND(450)	A
Benzo(k)fluoranthene	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B011		IR07B011		IR07B011		IR07B011
Sample Depth(feet):		6.25		11.25		16.75		21.25
Sample Number:		9132H798		9132H799		9132H800		9132H801
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/07/91		08/07/91		08/07/91		08/07/91
Lab Sample Number:		0597500005SA		0597500006SA		0597500007SA		0597500008SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	93	A/J	ND(450)	A	ND(870)	A	ND(450)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
Dibenzo(a,h)anthracene	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
Benzo(ghi)perylene	ug/kg	ND(730)	A	ND(450)	A	ND(870)	A	ND(450)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(8.9)	J5	ND(11)	J5	NA		NA	
Dieldrin	ug/kg	ND(18)	J5	ND(22)	J5	NA		NA	
4,4'-DDE	ug/kg	ND(18)	J5	ND(22)	J5	NA		NA	
Endrin	ug/kg	ND(18)	J5	ND(22)	J5	NA		NA	
4,4'-DDD	ug/kg	ND(18)	J5	ND(22)	J5	NA		NA	
4,4'-DDT	ug/kg	8.4	J5/J	ND(22)	J5	NA		NA	
Methoxychlor	ug/kg	ND(89)	J5	ND(110)	J5	NA		NA	
Aroclor-1260	ug/kg	ND(180)	J5	ND(220)	J5	NA		NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(11)	A	ND(14)	A	NA		NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(11)	A	ND(14)	A	NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.1)	A	ND(1.4)	A	NA		NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	400	A	ND(68)	A	NA		NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B012		IR07B012		IR07B012		IR07B012
Sample Depth(feet):		2.25		4.25		6.25		11.25
Sample Number:		9049H538		9049H539		9049H540		9049H541
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/03/90		12/03/90		12/03/90		12/03/90
Lab Sample Number:		69965		69966		69967		9012027-01A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(5.5)	A	ND(6.4)	A	ND(5.7)	A	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(5.5)	A	ND(6.4)	A	ND(5.7)	A	ND(6)	R1/U
Chloroform	ug/kg	ND(5.5)	A	ND(6.4)	A	ND(5.7)	A	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(11)	A	ND(13)	A	ND(11)	A	ND(12)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(5.5)	A	ND(6.4)	A	ND(5.7)	A	ND(6)	R1/U
Trichloroethene	ug/kg	ND(5.5)	A	ND(6.4)	A	ND(5.7)	A	ND(6)	R1/U
Benzene	ug/kg	ND(5.5)	A	ND(6.4)	A	ND(5.7)	A	ND(6)	R1/U
Bromoform	ug/kg	ND(5.5)	A	ND(6.4)	A	ND(5.7)	A	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(11)	A	ND(13)	A	ND(11)	A	ND(12)	R1/U
2-Hexanone	ug/kg	ND(11)	A	ND(13)	A	ND(11)	A	ND(12)	R1/U
Toluene	ug/kg	ND(5.5)	A	ND(6.4)	A	16	AF	ND(8)	U1J5
Chlorobenzene	ug/kg	ND(5.5)	A	ND(6.4)	A	ND(5.7)	A	ND(6)	R1/U
Xylenes	ug/kg	ND(5.5)	A	ND(6.4)	A	ND(5.7)	A	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
n-Nitrosodipropylamine	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Benzoic acid	ug/kg	ND(1700)	J5	ND(2000)	A	ND(1800)	A	ND(2400)	J5/U
Naphthalene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
2-Methylnaphthalene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Dimethyl phthalate	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Acenaphthene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Dibenzofuran	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Diethyl phthalate	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Fluorene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
n-Nitrosodiphenylamine	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	220	J5/J
Phenanthrene	ug/kg	210	J5/J	ND(420)	A	ND(380)	A	ND(500)	J5/U
Anthracene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Fluoranthene	ug/kg	300	J5/J	ND(420)	A	ND(380)	A	ND(500)	J5/U
Pyrene	ug/kg	190	J5/J	ND(420)	A	ND(380)	A	ND(500)	J5/U
Benzo(a)anthracene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Chrysene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Di-n-octylphthalate	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Benzo(b)fluoranthene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Benzo(k)fluoranthene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B012		IR07B012		IR07B012		IR07B012
Sample Depth(feet):		2.25		4.25		6.25		11.25
Sample Number:		9049H538		9049H539		9049H540		9049H541
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/03/90		12/03/90		12/03/90		12/03/90
Lab Sample Number:		69965		69966		69967		9012027-01A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Dibenzo(a,h)anthracene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
Benzo(ghi)perylene	ug/kg	ND(360)	J5	ND(420)	A	ND(380)	A	ND(500)	J5/U
CLP-PEST/PCB									
Aldrin	ug/kg	ND(8.7)	J5	ND(10)	A	ND(9.2)	A	ND(38)	R12/U
Dieldrin	ug/kg	ND(17)	J5	ND(20)	A	ND(18)	A	ND(77)	R12/U
4,4'-DDE	ug/kg	ND(17)	J5	ND(20)	A	ND(18)	A	ND(77)	R12/U
Endrin	ug/kg	ND(17)	J5	ND(20)	A	ND(18)	A	ND(77)	R12/U
4,4'-DDD	ug/kg	ND(17)	J5	ND(20)	A	ND(18)	A	ND(77)	R12/U
4,4'-DDT	ug/kg	ND(17)	J5	ND(20)	A	ND(18)	A	ND(77)	R12/U
Methoxychlor	ug/kg	ND(87)	J5	ND(100)	A	ND(92)	A	ND(380)	R12/U
Aroclor-1260	ug/kg	ND(170)	J5	ND(200)	A	ND(180)	A	ND(770)	R12/U
TPH DIESEL									
TPH-Diesel	mg/kg	150	A	2200	A	ND(11)	A	ND(23)	J5/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.1)	A	7.1	A	ND(1.1)	A	ND(0.59)	J5/U
OIL & GREASE									
Total Oil & Grease	mg/kg	233	A	8060	A	70.6	A	ND(570)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B012		IR07B012		IR07B012		IR07B013
Sample Depth(feet):		16.25		23.25		30.88		1.75
Sample Number:		9049H542		9049H543		9049H544		9133M139
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/03/90		12/03/90		12/04/90		08/13/91
Lab Sample Number:		9012027-02A		9012027-03A		9012040-01A		0598870004SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1/U	1	J5/J	ND(6)	R1/U	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	A
Chloroform	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(80)	U1J5/B	ND(44)	U1J5/B	ND(11)	R1/U	10	A/J
1,1,1-Trichloroethane	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	A
Trichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	A
Benzene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	A
Bromoform	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(12)	R1/U	ND(12)	R1/U	ND(11)	R1/U	ND(11)	A
2-Hexanone	ug/kg	ND(12)	R1/U	ND(12)	R1/U	ND(11)	R1/U	ND(11)	A
Toluene	ug/kg	ND(6)	R1/U	ND(2)	U1J5/J	ND(6)	R1/U	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	2	A/J
Xylenes	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
n-Nitrosodipropylamine	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
Benzoic acid	ug/kg	ND(2100)	J5/U	ND(2100)	J5/U	ND(1700)	J5/U	ND(3700)	A
Naphthalene	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
2-Methylnaphthalene	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
Dimethyl phthalate	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
Acenaphthene	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
Dibenzofuran	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
Diethyl phthalate	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
Fluorene	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
n-Nitrosodiphenylamine	ug/kg	200	J5/J	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
Phenanthrene	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
Anthracene	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
Fluoranthene	ug/kg	ND(430)	J5/U	310	J5/J	ND(360)	J5/U	ND(760)	A
Pyrene	ug/kg	ND(430)	J5/U	300	J5/J	ND(360)	J5/U	ND(760)	A
Benzo(a)anthracene	ug/kg	ND(430)	J5/U	300	J5/J	ND(360)	J5/U	ND(760)	A
Chrysene	ug/kg	ND(430)	J5/U	310	J5/J	ND(360)	J5/U	ND(760)	A
Di-n-octylphthalate	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
Benzo(b)fluoranthene	ug/kg	ND(430)	J5/U	200	J5/J	ND(360)	J5/U	ND(760)	A
Benzo(k)fluoranthene	ug/kg	ND(430)	J5/U	200	J5/J	ND(360)	J5/U	ND(760)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B012		IR07B012		IR07B012		IR07B013
Sample Depth(feet):		16.25		23.25		30.88		1.75
Sample Number:		9049H542		9049H543		9049H544		9133M139
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/03/90		12/03/90		12/04/90		08/13/91
Lab Sample Number:		9012027-02A		9012027-03A		9012040-01A		0598870004SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(430)	J5/U	250	J5/J	ND(360)	J5/U	ND(760)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
Dibenzo(a,h)anthracene	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
Benzo(ghi)perylene	ug/kg	ND(430)	J5/U	ND(430)	J5/U	ND(360)	J5/U	ND(760)	A
CLP-PEST/PCB									
Aldrin	ug/kg	NA		NA		NA		ND(9.2)	J5
Dieldrin	ug/kg	NA		NA		NA		ND(18)	J5
4,4'-DDE	ug/kg	NA		NA		NA		3.6	J5/J
Endrin	ug/kg	NA		NA		NA		ND(18)	J5
4,4'-DDD	ug/kg	NA		NA		NA		8.1	J5/J
4,4'-DDT	ug/kg	NA		NA		NA		5.4	J5/J
Methoxychlor	ug/kg	NA		NA		NA		ND(92)	J5
Aroclor-1260	ug/kg	NA		NA		NA		ND(180)	J5
TPH DIESEL									
TPH-Diesel	mg/kg	NA		NA		NA		170	J5/1
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		ND(11)	J5
TPH GAS									
TPH-Gasoline	mg/kg	NA		NA		NA		ND(1.1)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		NA		NA		110	J5

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B013		IR07B013		IR07B013		IR07B013
Sample Depth(feet):		3.75		6.25		11.25		21.25
Sample Number:		9133M140		9133M141		9133M142		9133M143
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/13/91		08/13/91		08/13/91		08/13/91
Lab Sample Number:		0598870005SA		0598870006SA		0598870007SA		0598870008SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	3	A/J	ND(6)	A	ND(6)	A	9	A
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(7)	A
Chloroform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(7)	A
Methyl ethyl ketone	ug/kg	11	A	ND(12)	A	ND(12)	A	ND(13)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(7)	A
Trichloroethene	ug/kg	ND(6)	A	2	A/J	ND(6)	A	ND(7)	A
Benzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(7)	A
Bromoform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(7)	A
Methyl isobutyl ketone	ug/kg	ND(11)	A	ND(12)	A	ND(12)	A	ND(13)	A
2-Hexanone	ug/kg	ND(11)	A	ND(12)	A	ND(12)	A	ND(13)	A
Toluene	ug/kg	1	A/J	1	A/J	ND(6)	A	ND(7)	A
Chlorobenzene	ug/kg	ND(6)	A	1	A/J	ND(6)	A	ND(7)	A
Xylenes	ug/kg	2	A/J	ND(6)	A	ND(6)	A	ND(7)	A
CLP-SOC									
4-Methylphenol	ug/kg	42	A/J	ND(400)	A	ND(420)	A	ND(430)	A
n-Nitrosodipropylamine	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Benzoic acid	ug/kg	ND(1800)	A	ND(2000)	A	ND(2000)	A	ND(2100)	A
Naphthalene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
2-Methylnaphthalene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Dimethyl phthalate	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Acenaphthene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Dibenzofuran	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Diethyl phthalate	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Fluorene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
n-Nitrosodiphenylamine	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Phenanthrene	ug/kg	57	A/J	ND(400)	A	ND(420)	A	ND(430)	A
Anthracene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Fluoranthene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Pyrene	ug/kg	40	A/J	ND(400)	A	ND(420)	A	ND(430)	A
Benzo(a)anthracene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Chrysene	ug/kg	49	A/J	ND(400)	A	ND(420)	A	ND(430)	A
Di-n-octylphthalate	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Benzo(b)fluoranthene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Benzo(k)fluoranthene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B013		IR07B013		IR07B013		IR07B013
Sample Depth(feet):		3.75		6.25		11.25		21.25
Sample Number:		9133M140		9133M141		9133M142		9133M143
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/13/91		08/13/91		08/13/91		08/13/91
Lab Sample Number:		0598870005SA		0598870006SA		0598870007SA		0598870008SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Dibenzo(a,h)anthracene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
Benzo(ghi)perylene	ug/kg	ND(380)	A	ND(400)	A	ND(420)	A	ND(430)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(9.2)	J5	ND(9.8)	J5	ND(10)	J5	NA	
Dieldrin	ug/kg	ND(18)	J5	ND(20)	J5	ND(20)	J5	NA	
4,4'-DDE	ug/kg	ND(18)	J5	ND(20)	J5	ND(20)	J5	NA	
Endrin	ug/kg	ND(18)	J5	ND(20)	J5	ND(20)	J5	NA	
4,4'-DDD	ug/kg	ND(18)	J5	ND(20)	J5	ND(20)	J5	NA	
4,4'-DDT	ug/kg	ND(18)	J5	4.5	J5/J	ND(20)	J5	NA	
Methoxychlor	ug/kg	ND(92)	J5	ND(98)	J5	ND(100)	J5	NA	
Aroclor-1260	ug/kg	ND(180)	J5	ND(200)	J5	ND(200)	J5	NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(12)	J5	ND(12)	A	ND(13)	J5	NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	14	J5/1	ND(12)	A	ND(13)	J5	NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.2)	A	ND(1.2)	A	ND(1.3)	A	NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	ND(58)	J5	ND(61)	J5	ND(63)	J5	NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B014		IR07B014		IR07B014		IR07B014
Sample Depth(feet):		1.75		4.25		6.25		16.25
Sample Number:		9133H835		9133H836		9133H837		9133H838
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/12/91		08/12/91		08/12/91		08/12/91
Lab Sample Number:		0598840001SA		0598840002SA		0598840003SA		0598840004SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	1	J3/J
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	J3
Chloroform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	J3
Methyl ethyl ketone	ug/kg	ND(11)	A	ND(11)	A	ND(12)	A	ND(12)	J3
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	J3
Trichloroethene	ug/kg	ND(6)	A	2	A/J	ND(6)	A	ND(6)	J3
Benzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	J3
Bromoform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	J3
Methyl isobutyl ketone	ug/kg	ND(11)	A	ND(11)	A	ND(12)	A	ND(12)	J3
2-Hexanone	ug/kg	ND(11)	A	ND(11)	A	ND(12)	A	ND(12)	J3
Toluene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	J3
Chlorobenzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	J3
Xylenes	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	J3
CLP-SOC									
4-Methylphenol	ug/kg	ND(370)	A	ND(370)	A	ND(400)	A	ND(390)	A
n-Nitrosodipropylamine	ug/kg	ND(370)	A	ND(370)	A	ND(400)	A	ND(390)	A
Benzoic acid	ug/kg	ND(1800)	A	ND(1800)	A	ND(1900)	A	ND(1900)	A
Naphthalene	ug/kg	ND(370)	A	ND(370)	A	ND(400)	A	ND(390)	A
2-Methylnaphthalene	ug/kg	90	A/J	90	A/J	ND(400)	A	ND(390)	A
Dimethyl phthalate	ug/kg	ND(370)	A	ND(370)	A	ND(400)	A	ND(390)	A
Acenaphthene	ug/kg	ND(370)	A	ND(370)	A	ND(400)	A	ND(390)	A
Dibenzofuran	ug/kg	ND(370)	A	ND(370)	A	ND(400)	A	ND(390)	A
Diethyl phthalate	ug/kg	ND(370)	A	ND(370)	A	ND(400)	A	ND(390)	A
Fluorene	ug/kg	ND(370)	A	ND(370)	A	ND(400)	A	ND(390)	A
n-Nitrosodiphenylamine	ug/kg	ND(370)	A	ND(370)	A	ND(400)	A	ND(390)	A
Phenanthrene	ug/kg	110	A/J	190	A/J	ND(400)	A	43	A/J
Anthracene	ug/kg	370	A	36	A/J	ND(400)	A	ND(390)	A
Fluoranthene	ug/kg	110	A/J	280	A/J	ND(400)	A	53	A/J
Pyrene	ug/kg	120	A/J	270	A/J	ND(400)	A	67	A/J
Benzo(a)anthracene	ug/kg	53	A/J	150	A/J	ND(400)	A	ND(390)	A
Chrysene	ug/kg	90	A/J	260	A/J	ND(400)	A	66	A/J
Di-n-octylphthalate	ug/kg	ND(370)	A	ND(370)	A	ND(400)	A	ND(390)	A
Benzo(b)fluoranthene	ug/kg	58	A/J	160	A/J	ND(400)	A	ND(390)	A
Benzo(k)fluoranthene	ug/kg	370	A	56	A/J	ND(400)	A	ND(390)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B014		IR07B014		IR07B014		IR07B014
Sample Depth(feet):		1.75		4.25		6.25		16.25
Sample Number:		9133H835		9133H836		9133H837		9133H838
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/12/91		08/12/91		08/12/91		08/12/91
Lab Sample Number:		0598840001SA		0598840002SA		0598840003SA		0598840004SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	41	A/J	100	A/J	ND(400)	A	ND(390)	A
Indeno(1,2,3-cd)pyrene	ug/kg	50	A/J	50	A/J	ND(400)	A	ND(390)	A
Dibenzo(a,h)anthracene	ug/kg	ND(370)	A	ND(370)	A	ND(400)	A	ND(390)	A
Benzo(ghi)perylene	ug/kg	370	A	52	A/J	ND(400)	A	ND(390)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(8.9)	J5	ND(9)	J5	ND(9.6)	J5	NA	
Dieldrin	ug/kg	ND(18)	J5	ND(18)	J5	ND(19)	J5	NA	
4,4'-DDE	ug/kg	2.9	J5/J	ND(18)	J5	ND(19)	J5	NA	
Endrin	ug/kg	ND(18)	J5	ND(18)	J5	ND(19)	J5	NA	
4,4'-DDD	ug/kg	3.6	J5/J	ND(18)	J5	ND(19)	J5	NA	
4,4'-DDT	ug/kg	22	J5	ND(18)	J5	ND(19)	J5	NA	
Methoxychlor	ug/kg	ND(89)	J5	ND(90)	J5	ND(96)	J5	NA	
Aroclor-1260	ug/kg	ND(180)	J5	ND(180)	J5	ND(190)	J5	NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(11)	A	ND(11)	A	ND(12)	A	NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(11)	A	ND(11)	A	ND(12)	A	NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.1)	A	ND(1.1)	A	ND(1.2)	A	NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	ND(56)	J5	71	J5	ND(60)	J5	NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B014		IR07B014		IR07B015		IR07B015
Sample Depth(feet):		21.75		31.25		1.75		3.75
Sample Number:		9133H839		9133H840		9132H807		9132H808
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/12/91		08/12/91		08/08/91		08/08/91
Lab Sample Number:		0598840005SA		0598840006SA		0597500014SA		0597500015SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	1	J3/J	ND(6)	J3	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	J3	ND(6)	J3	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	J3	ND(6)	J3	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(12)	J3	ND(12)	J3	ND(11)	A	ND(11)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	J3	ND(6)	J3	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	J3	ND(6)	J3	ND(6)	A	ND(6)	A
Benzene	ug/kg	3	J3/J	ND(6)	J3	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	J3	ND(6)	J3	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(12)	J3	ND(12)	J3	ND(11)	A	ND(11)	A
2-Hexanone	ug/kg	ND(12)	J3	ND(12)	J3	ND(11)	A	ND(11)	A
Toluene	ug/kg	2	J3/J	ND(6)	J3	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	J3	ND(6)	J3	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	J3	ND(6)	J3	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(390)	A	ND(380)	A	ND(370)	A	ND(370)	A
n-Nitrosodipropylamine	ug/kg	ND(390)	A	ND(380)	A	ND(370)	A	ND(370)	A
Benzoic acid	ug/kg	ND(1900)	A	ND(1900)	A	ND(1800)	A	ND(1800)	A
Naphthalene	ug/kg	ND(390)	A	ND(380)	A	81	A/J	43	A/J
2-Methylnaphthalene	ug/kg	ND(390)	A	ND(380)	A	ND(370)	A	ND(370)	A
Dimethyl phthalate	ug/kg	ND(390)	A	ND(380)	A	ND(370)	A	ND(370)	A
Acenaphthene	ug/kg	ND(390)	A	ND(380)	A	ND(370)	A	ND(370)	A
Dibenzofuran	ug/kg	ND(390)	A	ND(380)	A	68	A/J	ND(370)	A
Diethyl phthalate	ug/kg	ND(390)	A	ND(380)	A	ND(370)	A	ND(370)	A
Fluorene	ug/kg	ND(390)	A	ND(380)	A	ND(370)	A	ND(370)	A
n-Nitrosodiphenylamine	ug/kg	ND(390)	A	ND(380)	A	ND(370)	A	ND(370)	A
Phenanthrene	ug/kg	ND(390)	A	ND(380)	A	250	A/J	81	A/J
Anthracene	ug/kg	ND(390)	A	ND(380)	A	39	A/J	ND(370)	A
Fluoranthene	ug/kg	ND(390)	A	ND(380)	A	180	A/J	ND(370)	A
Pyrene	ug/kg	ND(390)	A	ND(380)	A	120	A/J	ND(370)	A
Benzo(a)anthracene	ug/kg	ND(390)	A	ND(380)	A	71	A/J	ND(370)	A
Chrysene	ug/kg	ND(390)	A	ND(380)	A	130	A/J	37	A/J
Di-n-octylphthalate	ug/kg	ND(390)	A	ND(380)	A	ND(370)	A	ND(370)	A
Benzo(b)fluoranthene	ug/kg	ND(390)	A	ND(380)	A	94	A/J	ND(370)	A
Benzo(k)fluoranthene	ug/kg	ND(390)	A	ND(380)	A	45	A/J	ND(370)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B014		IR07B014		IR07B015		IR07B015
Sample Depth(feet):		21.75		31.25		1.75		3.75
Sample Number:		9133H839		9133H840		9132H807		9132H808
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/12/91		08/12/91		08/08/91		08/08/91
Lab Sample Number:		0598840005SA		0598840006SA		0597500014SA		0597500015SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(390)	A	ND(380)	A	54	A/J	ND(370)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(390)	A	ND(380)	A	ND(370)	A	ND(370)	A
Dibenzo(a,h)anthracene	ug/kg	ND(390)	A	ND(380)	A	ND(370)	A	ND(370)	A
Benzo(ghi)perylene	ug/kg	ND(390)	A	ND(380)	A	ND(370)	A	ND(370)	A
CLP-PEST/PCB									
Aldrin	ug/kg	NA		NA		ND(90)	J5	ND(9)	J5
Dieldrin	ug/kg	NA		NA		ND(180)	J5	ND(18)	J5
4,4'-DDE	ug/kg	NA		NA		ND(180)	J5	ND(18)	J5
Endrin	ug/kg	NA		NA		ND(180)	J5	ND(18)	J5
4,4'-DDD	ug/kg	NA		NA		ND(180)	J5	ND(18)	J5
4,4'-DDT	ug/kg	NA		NA		ND(180)	J5	ND(18)	J5
Methoxychlor	ug/kg	NA		NA		ND(900)	J5	ND(90)	J5
Aroclor-1260	ug/kg	NA		NA		ND(1800)	J5	ND(180)	J5
TPH DIESEL									
TPH-Diesel	mg/kg	NA		NA		ND(11)	A	ND(11)	A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		19	A/1	ND(11)	A
TPH GAS									
TPH-Gasoline	mg/kg	NA		NA		ND(1.1)	A	ND(1.1)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		NA		ND(56)	A	850	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B015		IR07B015		IR07B015		IR07B015
Sample Depth(feet):		6.75		11.25		16.75		21.25
Sample Number:		9132H809		9132H810		9132H811		9132H812
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/08/91		08/08/91		08/08/91		08/08/91
Lab Sample Number:		0597500016SA		0597500017SA		0597500018SA		0597500019SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	J5	ND(6)	J3	ND(6)	J3	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	J5	ND(6)	J3	ND(6)	J3	ND(6)	A
Chloroform	ug/kg	ND(6)	J5	ND(6)	J3	ND(6)	J3	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(11)	J5	ND(12)	J3	ND(11)	J3	ND(12)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	J5	ND(6)	J3	ND(6)	J3	ND(6)	A
Trichloroethene	ug/kg	ND(6)	J5	ND(6)	J3	ND(6)	J3	ND(6)	A
Benzene	ug/kg	ND(6)	J5	ND(6)	J3	2	J3/J	ND(6)	A
Bromoform	ug/kg	ND(6)	J5	ND(6)	J3	ND(6)	J3	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(11)	J5	ND(12)	J3	ND(11)	J3	ND(12)	A
2-Hexanone	ug/kg	ND(11)	J5	ND(12)	J3	ND(11)	J3	ND(12)	A
Toluene	ug/kg	ND(6)	J5	ND(6)	J3	ND(6)	J3	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	J5	ND(6)	J3	ND(6)	J3	ND(6)	A
Xylenes	ug/kg	ND(6)	J5	ND(6)	J3	ND(6)	J3	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(370)	A	ND(390)	A	ND(380)	A	ND(390)	A
n-Nitrosodipropylamine	ug/kg	ND(370)	A	ND(390)	A	ND(380)	A	ND(390)	A
Benzoic acid	ug/kg	ND(1800)	A	ND(1900)	A	ND(1800)	A	ND(1900)	A
Naphthalene	ug/kg	40	A/J	67	A/J	ND(380)	A	120	A/J
2-Methylnaphthalene	ug/kg	ND(370)	A	240	A/J	ND(380)	A	820	A
Dimethyl phthalate	ug/kg	ND(370)	A	ND(390)	A	ND(380)	A	ND(390)	A
Acenaphthene	ug/kg	ND(370)	A	ND(390)	A	ND(380)	A	ND(390)	A
Dibenzofuran	ug/kg	ND(370)	A	ND(390)	A	ND(380)	A	ND(390)	A
Diethyl phthalate	ug/kg	ND(370)	A	ND(390)	A	ND(380)	A	ND(390)	A
Fluorene	ug/kg	ND(370)	A	ND(390)	A	ND(380)	A	ND(390)	A
n-Nitrosodiphenylamine	ug/kg	ND(370)	A	ND(390)	A	ND(380)	A	ND(390)	A
Phenanthrene	ug/kg	160	A/J	49	A/J	ND(380)	A	ND(390)	A
Anthracene	ug/kg	ND(370)	A	ND(390)	A	ND(380)	A	ND(390)	A
Fluoranthene	ug/kg	240	A/J	38	A/J	ND(380)	A	ND(390)	A
Pyrene	ug/kg	170	A/J	69	A/J	ND(380)	A	ND(390)	A
Benzo(a)anthracene	ug/kg	140	A/J	ND(390)	A	ND(380)	A	ND(390)	A
Chrysene	ug/kg	220	A/J	ND(390)	A	ND(380)	A	ND(390)	A
Di-n-octylphthalate	ug/kg	ND(370)	A	ND(390)	A	ND(380)	A	ND(390)	A
Benzo(b)fluoranthene	ug/kg	150	A/J	46	A/J	ND(380)	A	ND(390)	A
Benzo(k)fluoranthene	ug/kg	76	A/J	ND(390)	A	ND(380)	A	ND(390)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B015		IR07B015		IR07B015		IR07B015
Sample Depth(feet):		6.75		11.25		16.75		21.25
Sample Number:		9132H809		9132H810		9132H811		9132H812
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/08/91		08/08/91		08/08/91		08/08/91
Lab Sample Number:		0597500016SA		0597500017SA		0597500018SA		0597500019SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	92	A/J	ND(390)	A	ND(380)	A	ND(390)	A
Indeno(1,2,3-cd)pyrene	ug/kg	48	A/J	ND(390)	A	ND(380)	A	ND(390)	A
Dibenzo(a,h)anthracene	ug/kg	ND(370)	A	ND(390)	A	ND(380)	A	ND(390)	A
Benzo(ghi)perylene	ug/kg	50	A/J	ND(390)	A	ND(380)	A	ND(390)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(9)	J5	ND(9.5)	J5	NA		NA	
Dieldrin	ug/kg	ND(18)	J5	ND(19)	J5	NA		NA	
4,4'-DDE	ug/kg	ND(18)	J5	ND(19)	J5	NA		NA	
Endrin	ug/kg	ND(18)	J5	ND(19)	J5	NA		NA	
4,4'-DDD	ug/kg	ND(18)	J5	ND(19)	J5	NA		NA	
4,4'-DDT	ug/kg	ND(18)	J5	ND(19)	J5	NA		NA	
Methoxychlor	ug/kg	ND(90)	J5	ND(95)	J5	NA		NA	
Aroclor-1260	ug/kg	ND(180)	J5	ND(190)	J5	NA		NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(11)	A	ND(12)	A	NA		NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	12	A/1	18	A/1	NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.1)	A	ND(1.2)	A	NA		NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	1800	A	180	A	NA		NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B015		IR07B016		IR07B016		IR07B016
Sample Depth(feet):		31.75		1.75		3.75		16.25
Sample Number:		9132H813		9132H823		9132H824		9132H825
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/08/91		08/09/91		08/09/91		08/09/91
Lab Sample Number:		0597500020SA		9108094-09		9108094-10		9108094-11
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	3.76	A/J
Chloroform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(12)	A	ND(12)	A	ND(11)	A	20.97	A
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(12)	A	ND(12)	A	ND(11)	A	ND(11)	A
2-Hexanone	ug/kg	ND(12)	A	ND(12)	A	6.12	A/J	13.18	A
Toluene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
n-Nitrosodipropylamine	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Benzoic acid	ug/kg	ND(2000)	A	ND(1961)	A	ND(1916)	A	ND(1812)	A
Naphthalene	ug/kg	160	A/J	ND(392)	A	ND(383)	A	ND(362)	A
2-Methylnaphthalene	ug/kg	1000	A	ND(392)	A	ND(383)	A	ND(362)	A
Dimethyl phthalate	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Acenaphthene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Dibenzofuran	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Diethyl phthalate	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Fluorene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
n-Nitrosodiphenylamine	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Phenanthrene	ug/kg	82	A/J	ND(392)	A	ND(383)	A	ND(362)	A
Anthracene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Fluoranthene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Pyrene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Benzo(a)anthracene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Chrysene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Di-n-octylphthalate	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Benzo(b)fluoranthene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Benzo(k)fluoranthene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B015		IR07B016		IR07B016		IR07B016	
Sample Depth(feet):		31.75		1.75		3.75		16.25	
Sample Number:		9132H813		9132H823		9132H824		9132H825	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/08/91		08/09/91		08/09/91		08/09/91	
Lab Sample Number:		0597500020SA		9108094-09		9108094-10		9108094-11	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Dibenzo(a,h)anthracene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
Benzo(ghi)perylene	ug/kg	ND(410)	A	ND(392)	A	ND(383)	A	ND(362)	A
CLP-PEST/PCB									
Aldrin	ug/kg	NA		ND(9)	A	ND(9)	A	NA	
Dieldrin	ug/kg	NA		ND(19)	A	ND(18)	A	NA	
4,4'-DDE	ug/kg	NA		ND(19)	A	ND(18)	A	NA	
Endrin	ug/kg	NA		ND(19)	A	ND(18)	A	NA	
4,4'-DDD	ug/kg	NA		ND(19)	A	ND(18)	A	NA	
4,4'-DDT	ug/kg	NA		ND(19)	A	ND(18)	A	NA	
Methoxychlor	ug/kg	NA		ND(94)	A	ND(92)	A	NA	
Aroclor-1260	ug/kg	NA		ND(188)	A	ND(184)	A	NA	
TPH DIESEL									
TPH-Diesel	mg/kg	NA		ND(11.8)	A	ND(11.5)	A	NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		ND(5)	A	ND(5)	A	NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		180	A	140	A	NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B016		IR07B017		IR07B017		IR07B017
Sample Depth(feet):		21.25		1.75		3.75		6.75
Sample Number:		9132H826		9132H827		9132H828		9132H829
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/09/91		08/09/91		08/09/91		08/09/91
Lab Sample Number:		9108094-12		9108094-13		9108094-14		9108094-15
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(12)	A	ND(12)	A	ND(11)	A	ND(12)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(12)	A	ND(12)	A	ND(11)	A	ND(12)	A
2-Hexanone	ug/kg	ND(12)	A	ND(12)	A	ND(11)	A	ND(12)	A
Toluene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
n-Nitrosodipropylamine	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Benzoic acid	ug/kg	ND(2058)	A	ND(19380)	A	ND(19157)	A	ND(2058)	A
Naphthalene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
2-Methylnaphthalene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Dimethyl phthalate	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Acenaphthene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Dibenzofuran	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Diethyl phthalate	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Fluorene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
n-Nitrosodiphenylamine	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Phenanthrene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Anthracene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Fluoranthene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Pyrene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Benzo(a)anthracene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Chrysene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Di-n-octylphthalate	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Benzo(b)fluoranthene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Benzo(k)fluoranthene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B016		IR07B017		IR07B017		IR07B017
Sample Depth(feet):		21.25		1.75		3.75		6.75
Sample Number:		9132H826		9132H827		9132H828		9132H829
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/09/91		08/09/91		08/09/91		08/09/91
Lab Sample Number:		9108094-12		9108094-13		9108094-14		9108094-15
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Dibenzo(a,h)anthracene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
Benzo(ghi)perylene	ug/kg	ND(412)	A	ND(3876)	A	ND(3831)	A	ND(412)	A
CLP-PEST/PCB									
Aldrin	ug/kg	NA		ND(9)	A	ND(9)	A	ND(10)	A
Dieldrin	ug/kg	NA		ND(19)	A	ND(18)	A	ND(20)	A
4,4'-DDE	ug/kg	NA		ND(19)	A	ND(18)	A	ND(20)	A
Endrin	ug/kg	NA		ND(19)	A	ND(18)	A	ND(20)	A
4,4'-DDD	ug/kg	NA		ND(19)	A	ND(18)	A	ND(20)	A
4,4'-DDT	ug/kg	NA		ND(19)	A	ND(18)	A	ND(20)	A
Methoxychlor	ug/kg	NA		ND(93)	A	ND(92)	A	ND(99)	A
Aroclor-1260	ug/kg	NA		ND(186)	A	ND(184)	A	ND(198)	A
TPH DIESEL									
TPH-Diesel	mg/kg	NA		ND(11.6)	A	ND(11.5)	A	ND(12.3)	A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		ND(5)	A	ND(5)	A	ND(5)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		240	A	140	A	33	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B017		IR07B017		IR07B017		IR07B017
Sample Depth(feet):		11.25		16.25		21.25		31.25
Sample Number:		9132H830		9132H831		9132H832		9132H833
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/09/91		08/09/91		08/09/91		08/09/91
Lab Sample Number:		9108094-16		9108095-01		9108095-02		9108095-03
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(12)	A	ND(12)	A	ND(12)	A	ND(13)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(12)	A	ND(12)	A	ND(12)	A	ND(13)	A
2-Hexanone	ug/kg	ND(12)	A	ND(12)	A	ND(12)	A	ND(13)	A
Toluene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
n-Nitrosodipropylamine	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Benzoic acid	ug/kg	ND(1938)	A	ND(2033)	A	ND(2033)	A	ND(2083)	A
Naphthalene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
2-Methylnaphthalene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Dimethyl phthalate	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Acenaphthene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Dibenzofuran	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Diethyl phthalate	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Fluorene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
n-Nitrosodiphenylamine	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Phenanthrene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Anthracene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Fluoranthene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Pyrene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Benzo(a)anthracene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Chrysene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Di-n-octylphthalate	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Benzo(b)fluoranthene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Benzo(k)fluoranthene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B017		IR07B017		IR07B017		IR07B017
Sample Depth(feet):		11.25		16.25		21.25		31.25
Sample Number:		9132H830		9132H831		9132H832		9132H833
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/09/91		08/09/91		08/09/91		08/09/91
Lab Sample Number:		9108094-16		9108095-01		9108095-02		9108095-03
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Dibenzo(a,h)anthracene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
Benzo(ghi)perylene	ug/kg	ND(388)	A	ND(407)	A	ND(407)	A	ND(417)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(9)	A	NA		NA		NA	
Dieldrin	ug/kg	ND(19)	A	NA		NA		NA	
4,4'-DDE	ug/kg	ND(19)	A	NA		NA		NA	
Endrin	ug/kg	ND(19)	A	NA		NA		NA	
4,4'-DDD	ug/kg	ND(19)	A	NA		NA		NA	
4,4'-DDT	ug/kg	ND(19)	A	NA		NA		NA	
Methoxychlor	ug/kg	ND(93)	A	NA		NA		NA	
Aroclor-1260	ug/kg	ND(186)	A	NA		NA		NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(11.6)	A	NA		NA		NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(5)	A	NA		NA		NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	43	A	NA		NA		NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B017		IR07B018		IR07B018		IR07B018
Sample Depth(feet):		40.75		1.25		2.75		5.25
Sample Number:		9132H834		9049G555		9049G556		9049G557
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/09/91		12/05/90		12/05/90		12/05/90
Lab Sample Number:		9108095-04		9012058-01A		9012058-02A		9012058-03A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	8.62	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Chloroform	ug/kg	ND(6)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(13)	A	ND(12)	R1/U	ND(2)	U1J5/BJ	ND(12)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(6)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Benzene	ug/kg	ND(6)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Bromoform	ug/kg	ND(6)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(13)	A	ND(12)	R1/U	ND(11)	R1/U	ND(12)	R1/U
2-Hexanone	ug/kg	ND(13)	A	ND(12)	R1/U	ND(11)	R1/U	ND(12)	R1/U
Toluene	ug/kg	ND(6)	A	17	J5F	ND(6)	R1/U	ND(6)	R1/U
Chlorobenzene	ug/kg	ND(6)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Xylenes	ug/kg	ND(6)	A	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Benzoic acid	ug/kg	ND(2083)	A	ND(2100)	R1/U	ND(19000)	R1/U	ND(2000)	R1/U
Naphthalene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
2-Methylnaphthalene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Dimethyl phthalate	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Acenaphthene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Dibenzofuran	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Diethyl phthalate	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Fluorene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Phenanthrene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Anthracene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Fluoranthene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Pyrene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Benzo(a)anthracene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Chrysene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Di-n-octylphthalate	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B017		IR07B018		IR07B018		IR07B018	
Sample Depth(feet):		40.75		1.25		2.75		5.25	
Sample Number:		9132H834		9049G555		9049G556		9049G557	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/09/91		12/05/90		12/05/90		12/05/90	
Lab Sample Number:		9108095-04		9012058-01A		9012058-02A		9012058-03A	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
Benzo(ghi)perylene	ug/kg	ND(417)	A	ND(430)	R1/U	ND(3900)	R1/U	ND(420)	R1/U
CLP-PEST/PCB									
Aldrin	ug/kg	NA		ND(36)	J35/U	ND(34)	J5/U	ND(35)	J5/U
Dieldrin	ug/kg	NA		ND(72)	J35/U	ND(67)	J5/U	ND(71)	J5/U
4,4'-DDE	ug/kg	NA		ND(72)	J35/U	ND(67)	J5/U	ND(71)	J5/U
Endrin	ug/kg	NA		ND(72)	J35/U	ND(67)	J5/U	ND(71)	J5/U
4,4'-DDD	ug/kg	NA		ND(72)	J35/U	ND(67)	J5/U	ND(71)	J5/U
4,4'-DDT	ug/kg	NA		ND(72)	J35/U	ND(67)	J5/U	ND(71)	J5/U
Methoxychlor	ug/kg	NA		ND(360)	J35/U	ND(340)	J5/U	ND(350)	J5/U
Aroclor-1260	ug/kg	NA		ND(720)	J35/U	ND(670)	J5/U	ND(710)	J5/U
TPH DIESEL									
TPH-Diesel	mg/kg	NA		ND(22)	J5/U	ND(22)	J5/U	ND(23)	J5/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		ND(0.5)	R1/U	ND(0.53)	R1/U	ND(0.55)	R1/U
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		ND(540)	J5/U	1090	J5	ND(560)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B018		IR07B018		IR07B018		IR07B018
Sample Depth(feet):		10.75		15.75		20.75		30.25
Sample Number:		9049G558		9049G559		9049G560		9049G561
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/05/90		12/05/90		12/05/90		12/05/90
Lab Sample Number:		9012058-04A		9012058-05A		9012058-06A		9012058-07A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Chloroform	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(12)	R1/U	ND(12)	R1/U	ND(12)	R1/U	ND(12)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Benzene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Bromoform	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(12)	R1/U	ND(12)	R1/U	ND(12)	R1/U	ND(12)	R1/U
2-Hexanone	ug/kg	ND(12)	R1/U	ND(12)	R1/U	ND(12)	R1/U	ND(12)	R1/U
Toluene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	4	J5F/J
Chlorobenzene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Xylenes	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Benzoic acid	ug/kg	ND(2000)	R1/U	ND(2000)	R1/U	ND(2000)	R1/U	ND(2000)	R1/U
Naphthalene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
2-Methylnaphthalene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Dimethyl phthalate	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Acenaphthene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Dibenzofuran	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Diethyl phthalate	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Fluorene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(420)	R1/U	170	J5/J	ND(410)	R1/U	ND(410)	R1/U
Phenanthrene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Anthracene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Fluoranthene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Pyrene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Benzo(a)anthracene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Chrysene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Di-n-octylphthalate	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B018		IR07B018		IR07B018		IR07B018	
Sample Depth(feet):		10.75		15.75		20.75		30.25	
Sample Number:		9049G558		9049G559		9049G560		9049G561	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/05/90		12/05/90		12/05/90		12/05/90	
Lab Sample Number:		9012058-04A		9012058-05A		9012058-06A		9012058-07A	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
Benzo(ghi)perylene	ug/kg	ND(420)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(410)	R1/U
CLP-PEST/PCB									
Aldrin	ug/kg	ND(37)	J5/U	NA		NA		NA	
Dieldrin	ug/kg	ND(74)	J5/U	NA		NA		NA	
4,4'-DDE	ug/kg	ND(74)	J5/U	NA		NA		NA	
Endrin	ug/kg	ND(74)	J5/U	NA		NA		NA	
4,4'-DDD	ug/kg	ND(74)	J5/U	NA		NA		NA	
4,4'-DDT	ug/kg	ND(74)	J5/U	NA		NA		NA	
Methoxychlor	ug/kg	ND(370)	J5/U	NA		NA		NA	
Aroclor-1260	ug/kg	ND(740)	J5/U	NA		NA		NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(21)	J5/U	NA		NA		NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(0.58)	R1/U	NA		NA		NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	550	J5	NA		NA		NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B018		IR07B018		IR07B022		IR07B022
Sample Depth(feet):		40.25		49.75		1.75		3.75
Sample Number:		9049G562		9049G563		9049H562		9049H563
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/05/90		12/05/90		12/05/90		12/05/90
Lab Sample Number:		9012058-08A		9012058-09A		9012059-05A		9012059-06A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5.1)	R1/U	ND(5.2)	R1/U
1,1-Dichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5.1)	R1/U	ND(5.2)	R1/U
Chloroform	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5.1)	R1/U	ND(5.2)	R1/U
Methyl ethyl ketone	ug/kg	ND(13)	R1/U	ND(12)	R1/U	ND(22)	U1J5	ND(30)	U1J5
1,1,1-Trichloroethane	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5.1)	R1/U	ND(5.2)	R1/U
Trichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5.1)	R1/U	ND(5.2)	R1/U
Benzene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5.1)	R1/U	ND(5.2)	R1/U
Bromoform	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5.1)	R1/U	ND(5.2)	R1/U
Methyl isobutyl ketone	ug/kg	ND(13)	R1/U	ND(12)	R1/U	ND(10)	R1/U	ND(10)	R1/U
2-Hexanone	ug/kg	ND(13)	R1/U	ND(12)	R1/U	ND(10)	R1/U	ND(10)	R1/U
Toluene	ug/kg	6	J5F	ND(6)	R1/U	ND(5.1)	R1/U	ND(5.2)	R1/U
Chlorobenzene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5.1)	R1/U	ND(5.2)	R1/U
Xylenes	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(5.1)	R1/U	ND(5.2)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Benzoic acid	ug/kg	ND(2000)	R1/U	ND(1900)	R1/U	ND(1800)	R1/U	ND(2500)	R1/U
Naphthalene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
2-Methylnaphthalene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Dimethyl phthalate	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Acenaphthene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Dibenzofuran	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Diethyl phthalate	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Fluorene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Phenanthrene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Anthracene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Fluoranthene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Pyrene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	270	J5/J
Benzo(a)anthracene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	240	J5/J
Chrysene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Di-n-octylphthalate	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B018		IR07B018		IR07B022		IR07B022
Sample Depth(feet):		40.25		49.75		1.75		3.75
Sample Number:		9049G562		9049G563		9049H562		9049H563
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/05/90		12/05/90		12/05/90		12/05/90
Lab Sample Number:		9012058-08A		9012058-09A		9012059-05A		9012059-06A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
Benzo(ghi)perylene	ug/kg	ND(410)	R1/U	ND(400)	R1/U	ND(370)	R1/U	ND(520)	R1/U
CLP-PEST/PCB									
Aldrin	ug/kg	NA		NA		ND(32)	R2J5/U	ND(33)	R2J5/U
Dieldrin	ug/kg	NA		NA		ND(64)	R2J5/U	ND(67)	R2J5/U
4,4'-DDE	ug/kg	NA		NA		ND(64)	R2J5/U	ND(67)	R2J5/U
Endrin	ug/kg	NA		NA		ND(64)	R2J5/U	ND(67)	R2J5/U
4,4'-DDD	ug/kg	NA		NA		ND(64)	R2J5/U	ND(67)	R2J5/U
4,4'-DDT	ug/kg	NA		NA		ND(64)	R2J5/U	ND(67)	R2J5/U
Methoxychlor	ug/kg	NA		NA		ND(320)	R2J5/U	ND(330)	R2J5/U
Aroclor-1260	ug/kg	NA		NA		ND(640)	R2J5/U	ND(670)	R2J5/U
TPH DIESEL									
TPH-Diesel	mg/kg	NA		NA		204	J5	ND(23)	J5/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		NA		ND(0.57)	J53/U	ND(0.59)	J53/U
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		NA		ND(2770)	U1J5	ND(1120)	U1J5

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B022		IR07B022		IR07B024		IR07B024
Sample Depth(feet):		6.75		11.25		2.25		3.75
Sample Number:		9049H564		9049H565		9049H554		9049H555
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/05/90		12/05/90		12/05/90		12/05/90
Lab Sample Number:		9012059-07A		9012059-08A		9012059-01A		9012059-02A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	2	J5/J	ND(5.3)	R1/U	ND(5)	R1/U	ND(5)	R1/U
1,1-Dichloroethene	ug/kg	ND(5.1)	R1/U	ND(5.3)	R1/U	ND(5)	R1/U	ND(5)	R1/U
Chloroform	ug/kg	ND(5.1)	R1/U	ND(5.3)	R1/U	ND(5)	R1/U	ND(5)	R1/U
Methyl ethyl ketone	ug/kg	ND(22)	U1J5	ND(11)	R1/U	ND(33)	U1J5/B	ND(10)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(5.1)	R1/U	ND(5.3)	R1/U	ND(5)	R1/U	ND(5)	R1/U
Trichloroethene	ug/kg	ND(5.1)	R1/U	ND(5.3)	R1/U	ND(5)	R1/U	ND(5)	R1/U
Benzene	ug/kg	ND(5.1)	R1/U	ND(5.3)	R1/U	ND(5)	R1/U	ND(5)	R1/U
Bromoform	ug/kg	ND(5.1)	R1/U	ND(5.3)	R1/U	ND(5)	R1/U	ND(5)	R1/U
Methyl isobutyl ketone	ug/kg	ND(10)	R1/U	ND(11)	R1/U	ND(10)	R1/U	ND(10)	R1/U
2-Hexanone	ug/kg	ND(10)	R1/U	ND(11)	R1/U	ND(10)	R1/U	ND(10)	R1/U
Toluene	ug/kg	6	J5F	7	J5F	ND(5)	R1/U	1	J5F/J
Chlorobenzene	ug/kg	ND(5.1)	R1/U	ND(5.3)	R1/U	ND(5)	R1/U	ND(5)	R1/U
Xylenes	ug/kg	ND(5.1)	R1/U	ND(5.3)	R1/U	ND(5)	R1/U	ND(5)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Benzoic acid	ug/kg	ND(45000)	R1/U	ND(1800)	R1/U	ND(17000)	R1/U	ND(1800)	R1/U
Naphthalene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
2-Methylnaphthalene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Dimethyl phthalate	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Acenaphthene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Dibenzofuran	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Diethyl phthalate	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Fluorene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Phenanthrene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Anthracene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Fluoranthene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Pyrene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Benzo(a)anthracene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Chrysene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Di-n-octylphthalate	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B022		IR07B022		IR07B024		IR07B024	
Sample Depth(feet):		6.75		11.25		2.25		3.75	
Sample Number:		9049H564		9049H565		9049H554		9049H555	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/05/90		12/05/90		12/05/90		12/05/90	
Lab Sample Number:		9012059-07A		9012059-08A		9012059-01A		9012059-02A	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
Benzo(ghi)perylene	ug/kg	ND(9300)	R1/U	ND(380)	R1/U	ND(3600)	R1/U	ND(360)	R1/U
CLP-PEST/PCB									
Aldrin	ug/kg	9	J35/J	ND(33)	R2J5/U	ND(32)	R2J5/U	ND(32)	R2J5/U
Dieldrin	ug/kg	34.6	J35/J	ND(66)	R2J5/U	ND(63)	R2J5/U	ND(64)	R2J5/U
4,4'-DDE	ug/kg	111	J35	ND(66)	R2J5/U	ND(63)	R2J5/U	ND(64)	R2J5/U
Endrin	ug/kg	6.6	J35/J	ND(66)	R2J5/U	ND(63)	R2J5/U	ND(64)	R2J5/U
4,4'-DDD	ug/kg	245	J35	ND(66)	R2J5/U	ND(63)	R2J5/U	ND(64)	R2J5/U
4,4'-DDT	ug/kg	70.6	J35	ND(66)	R2J5/U	ND(63)	R2J5/U	ND(64)	R2J5/U
Methoxychlor	ug/kg	ND(330)	R2J5/U	ND(330)	R2J5/U	ND(320)	R2J5/U	ND(320)	R2J5/U
Aroclor-1260	ug/kg	ND(650)	R2J5/U	ND(660)	R2J5/U	ND(630)	R2J5/U	ND(640)	R2J5/U
TPH DIESEL									
TPH-Diesel	mg/kg	ND(110)	J5/U	ND(20)	J5/U	ND(110)	J5/U	ND(33)	J5/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(0.57)	J53/U	ND(0.56)	J53/U	ND(0.57)	J53/U	ND(0.56)	J53/U
OIL & GREASE									
Total Oil & Grease	mg/kg	ND(2370)	U1J5	ND(640)	J5/U	ND(540)	J5/U	ND(540)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B024		IR07B024		IR07B025		IR07B025
Sample Depth(feet):		6.25		16.25		1.25		3.75
Sample Number:		9049H556		9049H557		9132H789		9132H790
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/05/90		12/05/90		08/07/91		08/07/91
Lab Sample Number:		9012059-03A		9012059-04A		0597210016SA		0597210017SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(5)	R1/U	ND(8)	R1/U	ND(5)	A	ND(5)	A
1,1-Dichloroethene	ug/kg	ND(5)	R1/U	ND(8)	R1/U	ND(5)	A	ND(5)	A
Chloroform	ug/kg	ND(5)	R1/U	ND(8)	R1/U	ND(5)	A	ND(5)	A
Methyl ethyl ketone	ug/kg	ND(27)	U1J5	ND(16)	R1/U	ND(11)	A	ND(10)	A
1,1,1-Trichloroethane	ug/kg	ND(5)	R1/U	ND(8)	R1/U	ND(5)	A	ND(5)	A
Trichloroethene	ug/kg	ND(5)	R1/U	ND(8)	R1/U	ND(5)	A	ND(5)	A
Benzene	ug/kg	ND(5)	R1/U	ND(8)	R1/U	ND(5)	A	ND(5)	A
Bromoform	ug/kg	ND(5)	R1/U	ND(8)	R1/U	ND(5)	A	ND(5)	A
Methyl isobutyl ketone	ug/kg	ND(10)	R1/U	ND(16)	R1/U	ND(11)	A	ND(10)	A
2-Hexanone	ug/kg	ND(10)	R1/U	ND(16)	R1/U	ND(11)	A	ND(10)	A
Toluene	ug/kg	ND(5)	R1/U	ND(8)	R1/U	ND(5)	A	ND(5)	A
Chlorobenzene	ug/kg	ND(5)	R1/U	ND(8)	R1/U	ND(5)	A	ND(5)	A
Xylenes	ug/kg	ND(5)	R1/U	ND(8)	R1/U	ND(5)	A	ND(5)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
n-Nitrosodipropylamine	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Benzoic acid	ug/kg	ND(1800)	R1/U	ND(2500)	R1/U	ND(1700)	A	ND(1900)	A
Naphthalene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
2-Methylnaphthalene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Dimethyl phthalate	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Acenaphthene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Dibenzofuran	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Diethyl phthalate	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Fluorene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
n-Nitrosodiphenylamine	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Phenanthrene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Anthracene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Fluoranthene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Pyrene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Benzo(a)anthracene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Chrysene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Di-n-octylphthalate	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Benzo(b)fluoranthene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Benzo(k)fluoranthene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B024		IR07B024		IR07B025		IR07B025	
Sample Depth(feet):		6.25		16.25		1.25		3.75	
Sample Number:		9049H556		9049H557		9132H789		9132H790	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/05/90		12/05/90		08/07/91		08/07/91	
Lab Sample Number:		9012059-03A		9012059-04A		0597210016SA		0597210017SA	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Dibenzo(a,h)anthracene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
Benzo(ghi)perylene	ug/kg	ND(360)	R1/U	ND(510)	R1/U	ND(360)	A	ND(380)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(32)	R2J5/U	NA		ND(8.7)	J5	ND(9.3)	J5
Dieldrin	ug/kg	ND(64)	R2J5/U	NA		ND(17)	J5	ND(19)	J5
4,4'-DDE	ug/kg	ND(64)	R2J5/U	NA		ND(17)	J5	ND(19)	J5
Endrin	ug/kg	ND(64)	R2J5/U	NA		ND(17)	J5	ND(19)	J5
4,4'-DDD	ug/kg	ND(64)	R2J5/U	NA		ND(17)	J5	ND(19)	J5
4,4'-DDT	ug/kg	ND(64)	R2J5/U	NA		ND(17)	J5	ND(19)	J5
Methoxychlor	ug/kg	ND(320)	R2J5/U	NA		ND(87)	J5	ND(93)	J5
Aroclor-1260	ug/kg	ND(640)	R2J5/U	NA		62	J5/J	ND(190)	J5
TPH DIESEL									
TPH-Diesel	mg/kg	ND(22)	J5/U	NA		ND(11)	A	ND(12)	A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		ND(11)	A	ND(12)	A
TPH GAS									
TPH-Gasoline	mg/kg	ND(0.54)	J53/U	NA		ND(1.1)	A	ND(1.2)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	ND(550)	J5/U	NA		150	A	ND(58)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B025		IR07B025		IR07B025		IR07B025
Sample Depth(feet):		6.25		11.25		16.25		21.25
Sample Number:		9132H791		9132H792		9132H793		9132H794
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/07/91		08/07/91		08/07/91		08/07/91
Lab Sample Number:		0597210018SA		0597210019SA		0597210020SA		0597500001SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(5)	A	ND(8)	A	ND(8)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(5)	A	ND(8)	A	ND(8)	A	ND(6)	A
Chloroform	ug/kg	ND(5)	A	ND(8)	A	ND(8)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(11)	A	ND(16)	A	ND(16)	A	ND(12)	A
1,1,1-Trichloroethane	ug/kg	ND(5)	A	ND(8)	A	ND(8)	A	ND(6)	A
Trichloroethene	ug/kg	ND(5)	A	ND(8)	A	ND(8)	A	ND(6)	A
Benzene	ug/kg	ND(5)	A	ND(8)	A	ND(8)	A	ND(6)	A
Bromoform	ug/kg	ND(5)	A	ND(8)	A	ND(8)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(11)	A	ND(16)	A	ND(16)	A	ND(12)	A
2-Hexanone	ug/kg	ND(11)	A	ND(16)	A	ND(16)	A	ND(12)	A
Toluene	ug/kg	ND(5)	A	ND(8)	A	ND(8)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(5)	A	ND(8)	A	ND(8)	A	ND(6)	A
Xylenes	ug/kg	ND(5)	A	ND(8)	A	ND(8)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
n-Nitrosodipropylamine	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Benzoic acid	ug/kg	ND(3500)	J5	ND(1900)	A	ND(2500)	A	ND(2000)	A
Naphthalene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
2-Methylnaphthalene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Dimethyl phthalate	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Acenaphthene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Dibenzofuran	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Diethyl phthalate	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Fluorene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
n-Nitrosodiphenylamine	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Phenanthrene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Anthracene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Fluoranthene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Pyrene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Benzo(a)anthracene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Chrysene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Di-n-octylphthalate	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Benzo(b)fluoranthene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Benzo(k)fluoranthene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B025		IR07B025		IR07B025		IR07B025
Sample Depth(feet):		6.25		11.25		16.25		21.25
Sample Number:		9132H791		9132H792		9132H793		9132H794
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/07/91		08/07/91		08/07/91		08/07/91
Lab Sample Number:		0597210018SA		0597210019SA		0597210020SA		0597500001SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Dibenzo(a,h)anthracene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
Benzo(ghi)perylene	ug/kg	ND(720)	J5	ND(390)	A	ND(520)	A	ND(410)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(8.7)	J5	ND(9.5)	J5	NA		NA	
Dieldrin	ug/kg	ND(17)	J5	ND(19)	J5	NA		NA	
4,4'-DDE	ug/kg	ND(17)	J5	ND(19)	J5	NA		NA	
Endrin	ug/kg	ND(17)	J5	ND(19)	J5	NA		NA	
4,4'-DDD	ug/kg	ND(17)	J5	ND(19)	J5	NA		NA	
4,4'-DDT	ug/kg	ND(17)	J5	ND(19)	J5	NA		NA	
Methoxychlor	ug/kg	ND(87)	J5	ND(95)	J5	NA		NA	
Aroclor-1260	ug/kg	ND(170)	J5	ND(190)	J5	NA		NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(11)	A	ND(12)	A	NA		NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(11)	A	ND(12)	A	NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.1)	A	ND(1.2)	A	NA		NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	93	A	NA		NA		NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B025		IR07B030		IR07B030		IR07B030
Sample Depth(feet):		31.25		2.25		4.25		6.25
Sample Number:		9132H795		9133M144		9133M145		9133M146
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/07/91		08/13/91		08/13/91		08/13/91
Lab Sample Number:		0597500002SA		9108095-05		9108095-06		9108095-07
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(12)	A	11.09	A/J	35.36	A	ND(11)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(12)	A	ND(12)	A	ND(12)	A	7.18	A/J
2-Hexanone	ug/kg	ND(12)	A	ND(12)	A	ND(12)	A	ND(11)	A
Toluene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
n-Nitrosodipropylamine	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Benzoic acid	ug/kg	ND(3900)	A	ND(1938)	A	ND(1938)	A	ND(1873)	A
Naphthalene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
2-Methylnaphthalene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Dimethyl phthalate	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Acenaphthene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Dibenzofuran	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Diethyl phthalate	ug/kg	ND(180)	U1/J	ND(388)	A	ND(388)	A	ND(375)	A
Fluorene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
n-Nitrosodiphenylamine	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Phenanthrene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Anthracene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Fluoranthene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Pyrene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Benzo(a)anthracene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Chrysene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Di-n-octylphthalate	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Benzo(b)fluoranthene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Benzo(k)fluoranthene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B025		IR07B030		IR07B030		IR07B030
Sample Depth(feet):		31.25		2.25		4.25		6.25
Sample Number:		9132H795		9133M144		9133M145		9133M146
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/07/91		08/13/91		08/13/91		08/13/91
Lab Sample Number:		0597500002SA		9108095-05		9108095-06		9108095-07
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Dibenzo(a,h)anthracene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
Benzo(ghi)perylene	ug/kg	ND(810)	A	ND(388)	A	ND(388)	A	ND(375)	A
CLP-PEST/PCB									
Aldrin	ug/kg	NA		ND(9)	A	ND(9)	A	ND(9)	A
Dieldrin	ug/kg	NA		ND(19)	A	ND(19)	A	ND(18)	A
4,4'-DDE	ug/kg	NA		ND(19)	A	ND(19)	A	ND(18)	A
Endrin	ug/kg	NA		ND(19)	A	ND(19)	A	ND(18)	A
4,4'-DDD	ug/kg	NA		59.25	A	ND(19)	A	ND(18)	A
4,4'-DDT	ug/kg	NA		21.09	A	37.04	A	ND(18)	A
Methoxychlor	ug/kg	NA		ND(93)	A	ND(93)	A	ND(90)	A
Aroclor-1260	ug/kg	NA		ND(186)	A	ND(186)	A	ND(180)	A
TPH DIESEL									
TPH-Diesel	mg/kg	NA		60	A	65	A	ND(11.2)	A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		27	A	23	A	6.6	A
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		280	A	290	A	98	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B030		IR07B030		IR07B030		IR07B030	
Sample Depth(feet):		11.25		16.25		21.25		31.25	
Sample Number:		9133M147		9133M148		9133M149		9133M150	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/13/91		08/13/91		08/13/91		08/13/91	
Lab Sample Number:		9108095-08		9108095-09		9108095-10		9108095-11	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	33.69	A	22.5	A	ND(12)	A	ND(12)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(12)	A	ND(13)	A	ND(12)	A	ND(12)	A
2-Hexanone	ug/kg	ND(12)	A	ND(13)	A	ND(12)	A	ND(12)	A
Toluene	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	A	ND(7)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
n-Nitrosodipropylamine	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Benzoic acid	ug/kg	ND(1984)	A	ND(2222)	A	ND(1984)	A	ND(2008)	A
Naphthalene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
2-Methylnaphthalene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Dimethyl phthalate	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Acenaphthene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Dibenzofuran	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Diethyl phthalate	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Fluorene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
n-Nitrosodiphenylamine	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Phenanthrene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Anthracene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Fluoranthene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Pyrene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Benzo(a)anthracene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Chrysene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Di-n-octylphthalate	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Benzo(b)fluoranthene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Benzo(k)fluoranthene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B030		IR07B030		IR07B030		IR07B030
Sample Depth(feet):		11.25		16.25		21.25		31.25
Sample Number:		9133M147		9133M148		9133M149		9133M150
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/13/91		08/13/91		08/13/91		08/13/91
Lab Sample Number:		9108095-08		9108095-09		9108095-10		9108095-11
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Dibenzo(a,h)anthracene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
Benzo(ghi)perylene	ug/kg	ND(397)	A	ND(444)	A	ND(397)	A	ND(402)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(9)	A	NA		NA		NA	
Dieldrin	ug/kg	ND(19)	A	NA		NA		NA	
4,4'-DDE	ug/kg	ND(19)	A	NA		NA		NA	
Endrin	ug/kg	ND(19)	A	NA		NA		NA	
4,4'-DDD	ug/kg	ND(19)	A	NA		NA		NA	
4,4'-DDT	ug/kg	ND(19)	A	NA		NA		NA	
Methoxychlor	ug/kg	ND(95)	A	NA		NA		NA	
Aroclor-1260	ug/kg	ND(191)	A	NA		NA		NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(11.9)	A	NA		NA		NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(5)	A	NA		NA		NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	60	A	NA		NA		NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B030		IR07B032		IR07B032		IR07B032
Sample Depth(feet):		41.25		1.75		3.75		6.25
Sample Number:		9133M151		9133H847		9133H848		9133H849
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/13/91		08/12/91		08/12/91		08/12/91
Lab Sample Number:		9108095-12		0598840013SA		0598840014SA		0598840015SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(13)	A	ND(11)	A	3	A/J	ND(12)	A
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(13)	A	ND(11)	A	ND(11)	A	ND(12)	A
2-Hexanone	ug/kg	ND(13)	A	ND(11)	A	ND(11)	A	ND(12)	A
Toluene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
n-Nitrosodipropylamine	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
Benzoic acid	ug/kg	294.83	A/J	ND(1800)	A	ND(3600)	A	ND(1900)	A
Naphthalene	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
2-Methylnaphthalene	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
Dimethyl phthalate	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
Acenaphthene	ug/kg	ND(417)	A	ND(380)	A	73	A/J	ND(380)	A
Dibenzofuran	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
Diethyl phthalate	ug/kg	ND(417)	A	ND(380)	A	320	A/J	ND(380)	A
Fluorene	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
n-Nitrosodiphenylamine	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
Phenanthrene	ug/kg	ND(417)	A	53	A/J	420	A/J	ND(380)	A
Anthracene	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
Fluoranthene	ug/kg	ND(417)	A	77	A/J	74	A/J	ND(380)	A
Pyrene	ug/kg	ND(417)	A	63	A/J	320	A/J	ND(380)	A
Benzo(a)anthracene	ug/kg	ND(417)	A	37	A/J	190	A/J	ND(380)	A
Chrysene	ug/kg	ND(417)	A	59	A/J	400	A/J	ND(380)	A
Di-n-octylphthalate	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
Benzo(b)fluoranthene	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
Benzo(k)fluoranthene	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B030		IR07B032		IR07B032		IR07B032
Sample Depth(feet):		41.25		1.75		3.75		6.25
Sample Number:		9133M151		9133H847		9133H848		9133H849
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/13/91		08/12/91		08/12/91		08/12/91
Lab Sample Number:		9108095-12		0598840013SA		0598840014SA		0598840015SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
Dibenzo(a,h)anthracene	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
Benzo(ghi)perylene	ug/kg	ND(417)	A	ND(380)	A	ND(750)	A	ND(380)	A
CLP-PEST/PCB									
Aldrin	ug/kg	NA		ND(46)	J5	14	J5/J	ND(9.3)	J5
Dieldrin	ug/kg	NA		ND(92)	J5	ND(91)	J5	ND(19)	J5
4,4'-DDE	ug/kg	NA		73	J5/J	ND(91)	J5	ND(19)	J5
Endrin	ug/kg	NA		ND(92)	J5	ND(91)	J5	ND(19)	J5
4,4'-DDD	ug/kg	NA		150	J5	ND(91)	J5	ND(19)	J5
4,4'-DDT	ug/kg	NA		25	J5/J	ND(91)	J5	ND(19)	J5
Methoxychlor	ug/kg	NA		ND(460)	J5	ND(450)	J5	ND(93)	J5
Aroclor-1260	ug/kg	NA		ND(920)	J5	ND(910)	J5	ND(190)	J5
TPH DIESEL									
TPH-Diesel	mg/kg	NA		ND(12)	A	ND(11)	A	ND(12)	A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		ND(12)	A	74	A/d	ND(12)	A
TPH GAS									
TPH-Gasoline	mg/kg	NA		ND(1.2)	A	ND(1.1)	A	ND(1.2)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		ND(58)	J5	3500	J5	ND(58)	J5

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B032		IR07B032		IR07B032		IR07B033
Sample Depth(feet):		11.25		16.75		21.25		1.75
Sample Number:		9133H850		9133H851		9133H852		9133H841
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/12/91		08/12/91		08/12/91		08/12/91
Lab Sample Number:		0598840016SA		0598840017SA		0598840018SA		0598840007SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(5)	A
1,1-Dichloroethene	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(5)	A
Chloroform	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(5)	A
Methyl ethyl ketone	ug/kg	ND(11)	A	ND(12)	A	ND(12)	A	ND(11)	A
1,1,1-Trichloroethane	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(5)	A
Trichloroethene	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(5)	A
Benzene	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(5)	A
Bromoform	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(5)	A
Methyl isobutyl ketone	ug/kg	ND(11)	A	ND(12)	A	ND(12)	A	ND(11)	A
2-Hexanone	ug/kg	ND(11)	A	ND(12)	A	ND(12)	A	ND(11)	A
Toluene	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	7	A
Chlorobenzene	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	ND(5)	A
Xylenes	ug/kg	ND(5)	A	ND(6)	A	ND(6)	A	4	A/J
CLP-SOC									
4-Methylphenol	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	ND(730)	A
n-Nitrosodipropylamine	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	ND(730)	A
Benzoic acid	ug/kg	ND(1700)	A	ND(3700)	A	ND(2000)	A	ND(3500)	A
Naphthalene	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	3500	A
2-Methylnaphthalene	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	8600	A
Dimethyl phthalate	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	ND(730)	A
Acenaphthene	ug/kg	ND(350)	A	ND(770)	A	45	A/J	1000	A
Dibenzofuran	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	ND(730)	A
Diethyl phthalate	ug/kg	ND(350)	A	290	A/J	ND(400)	A	ND(730)	A
Fluorene	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	1900	A
n-Nitrosodiphenylamine	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	ND(730)	A
Phenanthrene	ug/kg	ND(350)	A	75	A/J	ND(400)	A	8900	A
Anthracene	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	580	A/J
Fluoranthene	ug/kg	ND(350)	A	94	A/J	ND(400)	A	410	A/J
Pyrene	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	2600	A
Benzo(a)anthracene	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	1500	A
Chrysene	ug/kg	ND(350)	A	84	A/J	ND(400)	A	2700	A
Di-n-octylphthalate	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	ND(730)	A
Benzo(b)fluoranthene	ug/kg	ND(350)	A	88	A/J	ND(400)	A	370	A/J
Benzo(k)fluoranthene	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	ND(730)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B032		IR07B032		IR07B032		IR07B033
Sample Depth(feet):		11.25		16.75		21.25		1.75
Sample Number:		9133H850		9133H851		9133H852		9133H841
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/12/91		08/12/91		08/12/91		08/12/91
Lab Sample Number:		0598840016SA		0598840017SA		0598840018SA		0598840007SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	500	A/J
Indeno(1,2,3-cd)pyrene	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	ND(730)	A
Dibenzo(a,h)anthracene	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	ND(730)	A
Benzo(ghi)perylene	ug/kg	ND(350)	A	ND(770)	A	ND(400)	A	110	A/J
CLP-PEST/PCB									
Aldrin	ug/kg	ND(8.5)	J5	NA		NA		ND(88)	J5
Dieldrin	ug/kg	ND(17)	J5	NA		NA		ND(180)	J5
4,4'-DDE	ug/kg	ND(17)	J5	NA		NA		ND(180)	J5
Endrin	ug/kg	ND(17)	J5	NA		NA		ND(180)	J5
4,4'-DDD	ug/kg	ND(17)	J5	NA		NA		ND(180)	J5
4,4'-DDT	ug/kg	ND(17)	J5	NA		NA		ND(180)	J5
Methoxychlor	ug/kg	ND(85)	J5	NA		NA		ND(880)	J5
Aroclor-1260	ug/kg	ND(170)	J5	NA		NA		ND(1800)	J5
TPH DIESEL									
TPH-Diesel	mg/kg	ND(11)	A	NA		NA		1300	A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(11)	A	NA		NA		ND(11)	A
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.1)	A	NA		NA		ND(1.1)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	320	J5	NA		NA		4200	A/h

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B033		IR07B033		IR07B033		IR07B033
Sample Depth(feet):		4.25		6.75		11.75		21.25
Sample Number:		9133H842		9133H843		9133H844		9133H845
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/12/91		08/12/91		08/12/91		08/12/91
Lab Sample Number:		0598840008SA		0598840009SA		0598840010SA		0598840011SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(29)	A	ND(6)	A	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(29)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(29)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	19	A/J	ND(11)	A	ND(12)	A	ND(13)	A
1,1,1-Trichloroethane	ug/kg	ND(29)	A	ND(6)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(29)	A	ND(6)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(29)	A	ND(6)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(29)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(57)	A	ND(11)	A	ND(12)	A	ND(13)	A
2-Hexanone	ug/kg	ND(57)	A	ND(11)	A	ND(12)	A	ND(13)	A
Toluene	ug/kg	ND(29)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(29)	A	ND(6)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(29)	A	ND(6)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
n-Nitrosodipropylamine	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Benzoic acid	ug/kg	ND(3700)	A	ND(1800)	A	ND(1900)	A	ND(2000)	A
Naphthalene	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
2-Methylnaphthalene	ug/kg	250	A/J	ND(370)	A	ND(380)	A	ND(420)	A
Dimethyl phthalate	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Acenaphthene	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Dibenzofuran	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Diethyl phthalate	ug/kg	260	A/J	ND(370)	A	ND(380)	A	ND(420)	A
Fluorene	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
n-Nitrosodiphenylamine	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Phenanthrene	ug/kg	92	A/J	47	A/J	ND(380)	A	ND(420)	A
Anthracene	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Fluoranthene	ug/kg	ND(760)	A	41	A/J	ND(380)	A	ND(420)	A
Pyrene	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Benzo(a)anthracene	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Chrysene	ug/kg	ND(760)	A	48	A/J	ND(380)	A	ND(420)	A
Di-n-octylphthalate	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Benzo(b)fluoranthene	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Benzo(k)fluoranthene	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B033		IR07B033		IR07B033		IR07B033	
Sample Depth(feet):		4.25		6.75		11.75		21.25	
Sample Number:		9133H842		9133H843		9133H844		9133H845	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/12/91		08/12/91		08/12/91		08/12/91	
Lab Sample Number:		0598840008SA		0598840009SA		0598840010SA		0598840011SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Dibenzo(a,h)anthracene	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
Benzo(ghi)perylene	ug/kg	ND(760)	A	ND(370)	A	ND(380)	A	ND(420)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(9.2)	J5	ND(9.1)	J5	ND(9.3)	J5	NA	
Dieldrin	ug/kg	ND(18)	J5	ND(18)	J5	ND(19)	J5	NA	
4,4'-DDE	ug/kg	ND(18)	J5	ND(18)	J5	ND(19)	J5	NA	
Endrin	ug/kg	ND(18)	J5	ND(18)	J5	ND(19)	J5	NA	
4,4'-DDD	ug/kg	6.6	J5/J	ND(18)	J5	ND(19)	J5	NA	
4,4'-DDT	ug/kg	ND(18)	J5	ND(18)	J5	ND(19)	J5	NA	
Methoxychlor	ug/kg	ND(92)	J5	ND(91)	J5	ND(93)	J5	NA	
Aroclor-1260	ug/kg	ND(180)	J5	ND(180)	J5	ND(190)	J5	NA	
TPH DIESEL									
TPH-Diesel	mg/kg	47	A	ND(11)	A	ND(12)	A	NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(11)	A	ND(11)	A	ND(12)	A	NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(1.1)	A	ND(1.1)	A	ND(1.2)	A	NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	6000	J5	81	J5	300	J5	NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B033		IR07B034		IR07B034		IR07B034
Sample Depth(feet):		31.25		1.75		3.75		6.25
Sample Number:		9133H846		9132H815		9132H816		9132H817
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/12/91		08/08/91		08/08/91		08/08/91
Lab Sample Number:		0598840012SA		9108094-01		9108094-02		9108094-03
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
Carbon disulfide	ug/kg	4	A/J	ND(6)	A	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(7)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(7)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(13)	A	ND(12)	A	ND(12)	A	ND(12)	A
1,1,1-Trichloroethane	ug/kg	ND(7)	A	ND(6)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(7)	A	ND(6)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(7)	A	ND(6)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(7)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(13)	A	ND(12)	A	ND(12)	A	10.69	A/J
2-Hexanone	ug/kg	ND(13)	A	ND(12)	A	ND(12)	A	ND(12)	A
Toluene	ug/kg	ND(7)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(7)	A	ND(6)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(7)	A	ND(6)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
n-Nitrosodipropylamine	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Benzoic acid	ug/kg	ND(2100)	A	ND(19608)	A	ND(1938)	A	ND(19841)	A
Naphthalene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
2-Methylnaphthalene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Dimethyl phthalate	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Acenaphthene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Dibenzofuran	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Diethyl phthalate	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Fluorene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
n-Nitrosodiphenylamine	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Phenanthrene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Anthracene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Fluoranthene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Pyrene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Benzo(a)anthracene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Chrysene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Di-n-octylphthalate	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Benzo(b)fluoranthene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Benzo(k)fluoranthene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B033		IR07B034		IR07B034		IR07B034
Sample Depth(feet):		31.25		1.75		3.75		6.25
Sample Number:		9133H846		9132H815		9132H816		9132H817
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/12/91		08/08/91		08/08/91		08/08/91
Lab Sample Number:		0598840012SA		9108094-01		9108094-02		9108094-03
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Dibenzo(a,h)anthracene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
Benzo(ghi)perylene	ug/kg	ND(440)	A	ND(3922)	A	ND(388)	A	ND(3968)	A
CLP-PEST/PCB									
Aldrin	ug/kg	NA		ND(9)	A	ND(9)	A	ND(9)	A
Dieldrin	ug/kg	NA		ND(19)	A	ND(19)	A	ND(19)	A
4,4'-DDE	ug/kg	NA		ND(19)	A	ND(19)	A	ND(19)	A
Endrin	ug/kg	NA		ND(19)	A	ND(19)	A	ND(19)	A
4,4'-DDD	ug/kg	NA		ND(19)	A	ND(19)	A	ND(19)	A
4,4'-DDT	ug/kg	NA		ND(19)	A	ND(19)	A	ND(19)	A
Methoxychlor	ug/kg	NA		ND(94)	A	ND(93)	A	ND(95)	A
Aroclor-1260	ug/kg	NA		ND(188)	A	ND(186)	A	ND(190)	A
TPH DIESEL									
TPH-Diesel	mg/kg	NA		44	A	ND(11.6)	A	ND(11.9)	A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		ND(5)	A	ND(5)	A	ND(5)	A
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		110	A	81	A	3900	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B034		IR07B034		IR07B034		IR07B034
Sample Depth(feet):		11.25		16.25		20.75		31.75
Sample Number:		9132H818		9132H819		9132H820		9132H821
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/08/91		08/08/91		08/08/91		08/08/91
Lab Sample Number:		9108094-04		9108094-05		9108094-06		9108094-07
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
1,1-Dichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chloroform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl ethyl ketone	ug/kg	ND(13)	A	ND(13)	A	ND(12)	A	12.22	A/J
1,1,1-Trichloroethane	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Trichloroethene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Benzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Bromoform	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Methyl isobutyl ketone	ug/kg	ND(13)	A	ND(13)	A	ND(12)	A	ND(12)	A
2-Hexanone	ug/kg	ND(13)	A	ND(13)	A	ND(12)	A	ND(12)	A
Toluene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Chlorobenzene	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
Xylenes	ug/kg	ND(6)	A	ND(6)	A	ND(6)	A	ND(6)	A
CLP-SOC									
4-Methylphenol	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
n-Nitrosodipropylamine	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Benzoic acid	ug/kg	ND(2110)	A	ND(2137)	A	ND(2033)	A	ND(2058)	A
Naphthalene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
2-Methylnaphthalene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Dimethyl phthalate	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Acenaphthene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Dibenzofuran	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Diethyl phthalate	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Fluorene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
n-Nitrosodiphenylamine	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Phenanthrene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Anthracene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Fluoranthene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Pyrene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Benzo(a)anthracene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Chrysene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Di-n-octylphthalate	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Benzo(b)fluoranthene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Benzo(k)fluoranthene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B034		IR07B034		IR07B034		IR07B034
Sample Depth(feet):		11.25		16.25		20.75		31.75
Sample Number:		9132H818		9132H819		9132H820		9132H821
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/08/91		08/08/91		08/08/91		08/08/91
Lab Sample Number:		9108094-04		9108094-05		9108094-06		9108094-07
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Indeno(1,2,3-cd)pyrene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Dibenzo(a,h)anthracene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
Benzo(ghi)perylene	ug/kg	ND(422)	A	ND(427)	A	ND(407)	A	ND(412)	A
CLP-PEST/PCB									
Aldrin	ug/kg	ND(10)	A	NA		NA		NA	
Dieldrin	ug/kg	ND(20)	A	NA		NA		NA	
4,4'-DDE	ug/kg	ND(20)	A	NA		NA		NA	
Endrin	ug/kg	ND(20)	A	NA		NA		NA	
4,4'-DDD	ug/kg	ND(20)	A	NA		NA		NA	
4,4'-DDT	ug/kg	ND(20)	A	NA		NA		NA	
Methoxychlor	ug/kg	ND(101)	A	NA		NA		NA	
Aroclor-1260	ug/kg	ND(203)	A	NA		NA		NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(12.7)	A	NA		NA		NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(5)	A	NA		NA		NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	80	A	NA		NA		NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B034		IR07MW19A		IR07MW19A		IR07MW19A
Sample Depth(feet):		41.25		0.75		2.75		5.25
Sample Number:		9132H822		9049G564		9049G565		9049G566
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/08/91		12/06/90		12/06/90		12/06/90
Lab Sample Number:		9108094-08		9012066-01A		9012066-02A		9012066-03A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
Carbon disulfide	ug/kg	ND(7)	A	3	J35/J	2	J35/J	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(7)	A	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Chloroform	ug/kg	ND(7)	A	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(13)	A	ND(12)	R1J3/U	ND(13)	R1J3/U	ND(12)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(7)	A	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(7)	A	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Benzene	ug/kg	ND(7)	A	ND(2)	U1J35/B	ND(3)	U1J35/B	ND(4)	U1J5/BJ
Bromoform	ug/kg	ND(7)	A	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(13)	A	ND(12)	R1J3/U	ND(13)	R1J3/U	ND(12)	R1/U
2-Hexanone	ug/kg	ND(13)	A	ND(12)	R1J3/U	ND(13)	R1J3/U	ND(12)	R1/U
Toluene	ug/kg	ND(7)	A	ND(7)	U1J35/B	ND(5)	U1J35/B	ND(8)	U1J5/B
Chlorobenzene	ug/kg	ND(7)	A	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Xylenes	ug/kg	ND(7)	A	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Benzoic acid	ug/kg	ND(2222)	A	ND(2000)	R1/U	ND(2200)	R12/U	ND(2100)	R1/U
Naphthalene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
2-Methylnaphthalene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Dimethyl phthalate	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Acenaphthene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Dibenzofuran	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Diethyl phthalate	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Fluorene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Phenanthrene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Anthracene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Fluoranthene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Pyrene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Benzo(a)anthracene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Chrysene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Di-n-octylphthalate	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B034		IR07MW19A		IR07MW19A		IR07MW19A	
Sample Depth(feet):		41.25		0.75		2.75		5.25	
Sample Number:		9132H822		9049G564		9049G565		9049G566	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/08/91		12/06/90		12/06/90		12/06/90	
Lab Sample Number:		9108094-08		9012066-01A		9012066-02A		9012066-03A	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
Benzo(ghi)perylene	ug/kg	ND(444)	A	ND(420)	R1/U	ND(450)	R12/U	ND(430)	R1/U
CLP-PEST/PCB									
Aldrin	ug/kg	NA		ND(19)	R1/U	ND(20)	R1/U	ND(19)	R1/U
Dieldrin	ug/kg	NA		ND(37)	R1/U	ND(40)	R1/U	ND(37)	R1/U
4,4'-DDE	ug/kg	NA		ND(37)	R1/U	ND(40)	R1/U	ND(37)	R1/U
Endrin	ug/kg	NA		ND(37)	R1/U	ND(40)	R1/U	ND(37)	R1/U
4,4'-DDD	ug/kg	NA		ND(37)	R1/U	ND(40)	R1/U	ND(37)	R1/U
4,4'-DDT	ug/kg	NA		ND(37)	R1/U	ND(40)	R1/U	ND(37)	R1/U
Methoxychlor	ug/kg	NA		ND(190)	R1/U	ND(200)	R1/U	ND(190)	R1/U
Aroclor-1260	ug/kg	NA		ND(370)	R1/U	ND(400)	R1/U	ND(370)	R1/U
TPH DIESEL									
TPH-Diesel	mg/kg	NA		ND(23)	J5/U	ND(25)	J5/U	ND(23)	J5/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		ND(0.59)	J53/U	ND(0.68)	J53/U	ND(0.54)	J53/U
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		830	J5	730	J5	ND(580)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW19A		IR07MW19A		IR07MW19A		IR07MW19A
Sample Depth(feet):		10.25		15.25		20.25		29.75
Sample Number:		9049G567		9049G568		9049G569		9049G570
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/06/90		12/06/90		12/06/90		12/06/90
Lab Sample Number:		9012066-04A		9012066-05A		9012066-06A		9012066-07A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Chloroform	ug/kg	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(13)	R1J3/U	ND(13)	R1/U	ND(12)	R1/U	ND(12)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Benzene	ug/kg	ND(7)	U1J35/B	ND(7)	U1J5/B	ND(4)	U1J5/BJ	ND(6)	R1/U
Bromoform	ug/kg	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(13)	R1J3/U	ND(13)	R1/U	ND(12)	R1/U	ND(12)	R1/U
2-Hexanone	ug/kg	ND(13)	R1J3/U	ND(13)	R1/U	ND(12)	R1/U	ND(12)	R1/U
Toluene	ug/kg	ND(6)	U1J35/B	ND(6)	U1J5/BJ	ND(6)	U1J5/BJ	ND(6)	R1/U
Chlorobenzene	ug/kg	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Xylenes	ug/kg	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Benzoic acid	ug/kg	ND(2200)	R1/U	ND(2000)	R1/U	ND(1900)	R1/U	ND(1900)	R1/U
Naphthalene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
2-Methylnaphthalene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Dimethyl phthalate	ug/kg	870	J5	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Acenaphthene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Dibenzofuran	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Diethyl phthalate	ug/kg	750	J5	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Fluorene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	210	J5/J
Phenanthrene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Anthracene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Fluoranthene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Pyrene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Benzo(a)anthracene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Chrysene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Di-n-octylphthalate	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW19A		IR07MW19A		IR07MW19A		IR07MW19A	
Sample Depth(feet):		10.25		15.25		20.25		29.75	
Sample Number:		9049G567		9049G568		9049G569		9049G570	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/06/90		12/06/90		12/06/90		12/06/90	
Lab Sample Number:		9012066-04A		9012066-05A		9012066-06A		9012066-07A	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
Benzo(ghi)perylene	ug/kg	ND(460)	R1/U	ND(410)	R1/U	ND(380)	R1/U	ND(400)	R1/U
CLP-PEST/PCB									
Aldrin	ug/kg	ND(20)	R1/U	NA		NA		NA	
Dieldrin	ug/kg	ND(41)	R1/U	NA		NA		NA	
4,4'-DDE	ug/kg	ND(41)	R1/U	NA		NA		NA	
Endrin	ug/kg	ND(41)	R1/U	NA		NA		NA	
4,4'-DDD	ug/kg	ND(41)	R1/U	NA		NA		NA	
4,4'-DDT	ug/kg	ND(41)	R1/U	NA		NA		NA	
Methoxychlor	ug/kg	ND(200)	R1/U	NA		NA		NA	
Aroclor-1260	ug/kg	ND(400)	R1/U	NA		NA		NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(25)	J5/U	NA		NA		NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(0.7)	J53/U	NA		NA		NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	ND(640)	J5/U	NA		NA		NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:	IR07MW19A		IR07MW19A		IR07MW20A2		IR07MW20A2	
Sample Depth(feet):	40.25		49.75		1.25		2.75	
Sample Number:	9049G571		9049G572		9049G575		9049G576	
Matrix:	SOIL		SOIL		SOIL		SOIL	
Sample Date:	12/06/90		12/06/90		12/07/90		12/07/90	
Lab Sample Number:	9012066-08A		9012066-09A		9012068-01A		9012068-02A	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U
Chloroform	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(12)	R1/U	ND(12)	R1J3/U	ND(12)	R1/U	ND(11)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U
Benzene	ug/kg	ND(4)	U1J5/BJ	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U
Bromoform	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(12)	R1/U	ND(12)	R1J3/U	ND(12)	R1/U	ND(11)	R1/U
2-Hexanone	ug/kg	ND(12)	R1/U	ND(12)	R1J3/U	ND(12)	R1/U	ND(11)	R1/U
Toluene	ug/kg	ND(10)	U1J5/B	ND(5)	U1J35/B	ND(7)	U1J5	ND(9)	U1J5
Chlorobenzene	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U
Xylenes	ug/kg	ND(6)	R1/U	ND(6)	R1J3/U	ND(6)	R1/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Benzoic acid	ug/kg	ND(1900)	R1/U	ND(1900)	R1/U	ND(2000)	R1/U	ND(1900)	R1/U
Naphthalene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
2-Methylnaphthalene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Dimethyl phthalate	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Acenaphthene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Dibenzofuran	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Diethyl phthalate	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Fluorene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	180	J5/J
Phenanthrene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Anthracene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Fluoranthene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Pyrene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Benzo(a)anthracene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Chrysene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Di-n-octylphthalate	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW19A		IR07MW19A		IR07MW20A2		IR07MW20A2
Sample Depth(feet):		40.25		49.75		1.25		2.75
Sample Number:		9049G571		9049G572		9049G575		9049G576
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/06/90		12/06/90		12/07/90		12/07/90
Lab Sample Number:		9012066-08A		9012066-09A		9012068-01A		9012068-02A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
Benzo(ghi)perylene	ug/kg	ND(400)	R1/U	ND(400)	R1/U	ND(410)	R1/U	ND(390)	R1/U
CLP-PEST/PCB									
Aldrin	ug/kg	NA		NA		ND(18)	R1/U	ND(17)	R1/U
Dieldrin	ug/kg	NA		NA		ND(37)	R1/U	ND(34)	R1/U
4,4'-DDE	ug/kg	NA		NA		ND(37)	R1/U	ND(34)	R1/U
Endrin	ug/kg	NA		NA		ND(37)	R1/U	ND(34)	R1/U
4,4'-DDD	ug/kg	NA		NA		ND(37)	R1/U	ND(34)	R1/U
4,4'-DDT	ug/kg	NA		NA		ND(37)	R1/U	ND(34)	R1/U
Methoxychlor	ug/kg	NA		NA		ND(180)	R1/U	ND(170)	R1/U
Aroclor-1260	ug/kg	NA		NA		ND(370)	R1/U	ND(340)	R1/U
TPH DIESEL									
TPH-Diesel	mg/kg	NA		NA		ND(23)	J5/U	ND(22)	J5/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		NA		ND(0.6)	J53/U	ND(0.59)	J53/U
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		NA		ND(580)	J5/U	ND(560)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW20A2		IR07MW20A2		IR07MW20A2		IR07MW20A2
Sample Depth(feet):		5.25		10.25		15.25		20.25
Sample Number:		9049G577		9049G578		9049G579		9049G580
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		12/07/90		12/07/90
Lab Sample Number:		9012068-03A		9012068-04A		9012068-05A		9012068-06A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(6)	R1/U	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Chloroform	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(12)	R1/U	ND(14)	R1/U	ND(12)	R1/U	ND(12)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Benzene	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Bromoform	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(12)	R1/U	ND(14)	R1/U	ND(12)	R1/U	ND(12)	R1/U
2-Hexanone	ug/kg	ND(12)	R1/U	ND(14)	R1/U	ND(12)	R1/U	ND(12)	R1/U
Toluene	ug/kg	ND(10)	U1J5	ND(3)	U1J5/J	ND(2)	U1J5/J	ND(3)	U1J5/J
Chlorobenzene	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Xylenes	ug/kg	ND(6)	R1/U	ND(7)	R1/U	ND(6)	R1/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
n-Nitrosodipropylamine	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Benzoic acid	ug/kg	ND(2100)	R1/U	ND(2400)	R12/U	ND(1900)	R1/U	ND(1900)	R12/U
Naphthalene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
2-Methylnaphthalene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Dimethyl phthalate	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Acenaphthene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Dibenzofuran	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Diethyl phthalate	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Fluorene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
n-Nitrosodiphenylamine	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Phenanthrene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Anthracene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Fluoranthene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Pyrene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Benzo(a)anthracene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Chrysene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Di-n-octylphthalate	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Benzo(b)fluoranthene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Benzo(k)fluoranthene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW20A2		IR07MW20A2		IR07MW20A2		IR07MW20A2
Sample Depth(feet):		5.25		10.25		15.25		20.25
Sample Number:		9049G577		9049G578		9049G579		9049G580
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		12/07/90		12/07/90
Lab Sample Number:		9012068-03A		9012068-04A		9012068-05A		9012068-06A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Dibenzo(a,h)anthracene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
Benzo(ghi)perylene	ug/kg	ND(420)	R1/U	ND(490)	R12/U	ND(390)	R1/U	ND(390)	R12/U
CLP-PEST/PCB									
Aldrin	ug/kg	ND(19)	R1/U	ND(22)	R1/U	NA		NA	
Dieldrin	ug/kg	ND(37)	R1/U	ND(44)	R1/U	NA		NA	
4,4'-DDE	ug/kg	ND(37)	R1/U	ND(44)	R1/U	NA		NA	
Endrin	ug/kg	ND(37)	R1/U	ND(44)	R1/U	NA		NA	
4,4'-DDD	ug/kg	ND(37)	R1/U	ND(44)	R1/U	NA		NA	
4,4'-DDT	ug/kg	ND(37)	R1/U	ND(44)	R1/U	NA		NA	
Methoxychlor	ug/kg	ND(190)	R1/U	ND(220)	R1/U	NA		NA	
Aroclor-1260	ug/kg	ND(370)	R1/U	ND(440)	R1/U	NA		NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(24)	J5/U	ND(27)	J5/U	NA		NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(0.58)	J53/U	ND(0.61)	J53/U	NA		NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	ND(590)	J5/U	ND(670)	J5/U	NA		NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW20A2		IR07MW20A2		IR07MW21A2		IR07MW21A2	
Sample Depth(feet):		30.75		40.75		0.62		2.62	
Sample Number:		9049G581		9049G582		9049G547		9049G548	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/07/90		12/07/90		12/04/90		12/04/90	
Lab Sample Number:		9012068-07A		9012068-08A		9012041-02A		9012041-03A	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Chloroform	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1J3/U	36	J5
Methyl ethyl ketone	ug/kg	ND(12)	R1J3/U	ND(12)	R1J3/U	ND(12)	R1J3/U	ND(12)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Benzene	ug/kg	ND(2)	U1J35/J	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Bromoform	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(12)	R1J3/U	ND(12)	R1J3/U	ND(12)	R1J3/U	ND(12)	R1/U
2-Hexanone	ug/kg	ND(12)	R1J3/U	ND(12)	R1J3/U	ND(12)	R1J3/U	ND(12)	R1/U
Toluene	ug/kg	ND(5)	U1J35/J	ND(4)	U1J35/J	ND(6)	R1J3/U	ND(6)	R1/U
Chlorobenzene	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
Xylenes	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
n-Nitrosodipropylamine	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Benzoic acid	ug/kg	ND(1800)	R1/U	ND(2000)	R1/U	ND(2000)	J5/U	ND(2000)	J5/U
Naphthalene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
2-Methylnaphthalene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Dimethyl phthalate	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Acenaphthene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Dibenzofuran	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Diethyl phthalate	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Fluorene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
n-Nitrosodiphenylamine	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Phenanthrene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Anthracene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Fluoranthene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Pyrene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Benzo(a)anthracene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Chrysene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Di-n-octylphthalate	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Benzo(b)fluoranthene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Benzo(k)fluoranthene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW20A2		IR07MW20A2		IR07MW21A2		IR07MW21A2	
Sample Depth(feet):		30.75		40.75		0.62		2.62	
Sample Number:		9049G581		9049G582		9049G547		9049G548	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/07/90		12/07/90		12/04/90		12/04/90	
Lab Sample Number:		9012068-07A		9012068-08A		9012041-02A		9012041-03A	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Dibenzo(a,h)anthracene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
Benzo(ghi)perylene	ug/kg	ND(380)	R1/U	ND(400)	R1/U	ND(400)	J5/U	ND(420)	J5/U
CLP-PEST/PCB									
Aldrin	ug/kg	NA		NA		ND(36)	J5/U	ND(36)	J35/U
Dieldrin	ug/kg	NA		NA		ND(71)	J5/U	ND(73)	J35/U
4,4'-DDE	ug/kg	NA		NA		ND(71)	J5/U	ND(73)	J35/U
Endrin	ug/kg	NA		NA		ND(71)	J5/U	ND(73)	J35/U
4,4'-DDD	ug/kg	NA		NA		ND(71)	J5/U	ND(73)	J35/U
4,4'-DDT	ug/kg	NA		NA		ND(71)	J5/U	ND(73)	J35/U
Methoxychlor	ug/kg	NA		NA		ND(360)	J5/U	ND(360)	J35/U
Aroclor-1260	ug/kg	NA		NA		ND(710)	J5/U	ND(730)	J35/U
TPH DIESEL									
TPH-Diesel	mg/kg	NA		NA		ND(21)	J5/U	ND(22)	J5/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		NA		ND(0.59)	R1/U	ND(0.56)	R1/U
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		NA		ND(580)	J5/U	ND(560)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW21A2		IR07MW21A2		IR07MW21A2		IR07MW21A2
Sample Depth(feet):		5.62		10.12		15.12		19.62
Sample Number:		9049G549		9049G550		9049G551		9049G552
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/04/90		12/04/90		12/04/90		12/04/90
Lab Sample Number:		9012041-04A		9012041-05A		9012041-06A		9012041-07A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	5	J5/J
1,1-Dichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Chloroform	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(11)	R1/U	ND(12)	R1/U	ND(13)	R1/U	ND(12)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Benzene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Bromoform	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(11)	R1/U	ND(12)	R1/U	ND(13)	R1/U	ND(12)	R1/U
2-Hexanone	ug/kg	ND(11)	R1/U	ND(12)	R1/U	ND(13)	R1/U	ND(12)	R1/U
Toluene	ug/kg	ND(6)	R1/U	ND(3)	U1J5/J	ND(2)	U1J5/J	13	J5F
Chlorobenzene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
Xylenes	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
n-Nitrosodipropylamine	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
Benzoic acid	ug/kg	ND(16000)	J5/U	ND(2000)	J5/U	ND(2000)	J5/U	ND(2200)	J5/U
Naphthalene	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
2-Methylnaphthalene	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
Dimethyl phthalate	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
Acenaphthene	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
Dibenzofuran	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
Diethyl phthalate	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
Fluorene	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
n-Nitrosodiphenylamine	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
Phenanthrene	ug/kg	3800	J5/D	490	J5	ND(420)	J5/U	ND(450)	J5/U
Anthracene	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
Fluoranthene	ug/kg	3200	J5/DJ	450	J5	ND(420)	J5/U	ND(450)	J5/U
Pyrene	ug/kg	5200	J5/D	620	J5	ND(420)	J5/U	ND(450)	J5/U
Benzo(a)anthracene	ug/kg	1900	J5/DJ	280	J5/J	ND(420)	J5/U	ND(450)	J5/U
Chrysene	ug/kg	ND(3400)	J5/U	370	J5/J	ND(420)	J5/U	ND(450)	J5/U
Di-n-octylphthalate	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
Benzo(b)fluoranthene	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
Benzo(k)fluoranthene	ug/kg	1500	J5/DJ	340	J5/J	ND(420)	J5/U	ND(450)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW21A2		IR07MW21A2		IR07MW21A2		IR07MW21A2	
Sample Depth(feet):		5.62		10.12		15.12		19.62	
Sample Number:		9049G549		9049G550		9049G551		9049G552	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/04/90		12/04/90		12/04/90		12/04/90	
Lab Sample Number:		9012041-04A		9012041-05A		9012041-06A		9012041-07A	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	1900	J5/DJ	300	J5/J	ND(420)	J5/U	ND(450)	J5/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
Dibenzo(a,h)anthracene	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
Benzo(ghi)perylene	ug/kg	ND(3400)	J5/U	ND(410)	J5/U	ND(420)	J5/U	ND(450)	J5/U
CLP-PEST/PCB									
Aldrin	ug/kg	ND(36)	J5/U	ND(37)	J5/U	NA		NA	
Dieldrin	ug/kg	ND(72)	J5/U	ND(73)	J5/U	NA		NA	
4,4'-DDE	ug/kg	ND(72)	J5/U	ND(73)	J5/U	NA		NA	
Endrin	ug/kg	ND(72)	J5/U	ND(73)	J5/U	NA		NA	
4,4'-DDD	ug/kg	ND(72)	J5/U	ND(73)	J5/U	NA		NA	
4,4'-DDT	ug/kg	ND(72)	J5/U	ND(73)	J5/U	NA		NA	
Methoxychlor	ug/kg	ND(360)	J5/U	ND(370)	J5/U	NA		NA	
Aroclor-1260	ug/kg	ND(720)	J5/U	ND(730)	J5/U	NA		NA	
TPH DIESEL									
TPH-Diesel	mg/kg	ND(22)	J5/U	ND(24)	J5/U	NA		NA	
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(0.56)	R1/U	ND(0.58)	R1/U	NA		NA	
OIL & GREASE									
Total Oil & Grease	mg/kg	ND(560)	J5/U	640	J5	NA		NA	

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW21A2		IR07MW21A2		IR07MW23A		IR07MW23A
Sample Depth(feet):		30.62		35.62		1.75		3.75
Sample Number:		9049G553		9049G554		9049H572		9049H573
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/04/90		12/04/90		12/06/90		12/06/90
Lab Sample Number:		9012041-08A		9012041-09A		9012069-01A		9012069-02A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(6)	R1J3/U	14	J35	ND(5)	R1/U	ND(6)	R1/U
1,1-Dichloroethene	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U
Chloroform	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U
Methyl ethyl ketone	ug/kg	ND(11)	R1J3/U	ND(11)	R1J3/U	ND(11)	R1/U	ND(12)	R1/U
1,1,1-Trichloroethane	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U
Trichloroethene	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U
Benzene	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(5)	R1/U	ND(7)	U1J5
Bromoform	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U
Methyl isobutyl ketone	ug/kg	ND(11)	R1J3/U	ND(11)	R1J3/U	ND(11)	R1/U	ND(12)	R1/U
2-Hexanone	ug/kg	ND(11)	R1J3/U	ND(11)	R1J3/U	ND(11)	R1/U	ND(12)	R1/U
Toluene	ug/kg	ND(5)	U1J35/J	52	J35F	ND(1)	U1J5/BJ	ND(10)	U1J5
Chlorobenzene	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U
Xylenes	ug/kg	ND(6)	R1J3/U	ND(6)	R1J3/U	ND(5)	R1/U	ND(6)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
n-Nitrosodipropylamine	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	790	J5
Benzoic acid	ug/kg	ND(18000)	J5/U	ND(1800)	J5/U	ND(1900)	J5/U	ND(2100)	J5/U
Naphthalene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
2-Methylnaphthalene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Dimethyl phthalate	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Acenaphthene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Dibenzofuran	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Diethyl phthalate	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Fluorene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
n-Nitrosodiphenylamine	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Phenanthrene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Anthracene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Fluoranthene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Pyrene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Benzo(a)anthracene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Chrysene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Di-n-octylphthalate	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Benzo(b)fluoranthene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Benzo(k)fluoranthene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW21A2		IR07MW21A2		IR07MW23A		IR07MW23A
Sample Depth(feet):		30.62		35.62		1.75		3.75
Sample Number:		9049G553		9049G554		9049H572		9049H573
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/04/90		12/04/90		12/06/90		12/06/90
Lab Sample Number:		9012041-08A		9012041-09A		9012069-01A		9012069-02A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Dibenzo(a,h)anthracene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
Benzo(ghi)perylene	ug/kg	ND(3600)	J5/U	ND(370)	J5/U	ND(400)	J5/U	ND(420)	J5/U
CLP-PEST/PCB									
Aldrin	ug/kg	NA		NA		ND(35)	J35/U	ND(38)	J5/U
Dieldrin	ug/kg	NA		NA		ND(70)	J35/U	ND(75)	J5/U
4,4'-DDE	ug/kg	NA		NA		ND(70)	J35/U	ND(75)	J5/U
Endrin	ug/kg	NA		NA		ND(70)	J35/U	ND(75)	J5/U
4,4'-DDD	ug/kg	NA		NA		ND(70)	J35/U	ND(75)	J5/U
4,4'-DDT	ug/kg	NA		NA		ND(70)	J35/U	ND(75)	J5/U
Methoxychlor	ug/kg	NA		NA		ND(350)	J35/U	ND(380)	J5/U
Aroclor-1260	ug/kg	NA		NA		ND(700)	J35/U	ND(750)	J5/U
TPH DIESEL									
TPH-Diesel	mg/kg	NA		NA		ND(22)	J5/U	ND(23)	J5/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	NA		NA		ND(0.55)	J53/U	ND(0.59)	J53/U
OIL & GREASE									
Total Oil & Grease	mg/kg	NA		NA		700	J5	2920	J5

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW23A		IR07MW23A		IR07MW23A		IR07SS26
Sample Depth(feet):		6.25		11.25		15.25		0.00
Sample Number:		9049H574		9049H575		9049H576		9049N240
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/06/90		12/06/90		12/06/90		12/07/90
Lab Sample Number:		9012069-03A		9012069-04A		9012069-05A		9012072-04A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
Carbon disulfide	ug/kg	ND(5)	R1/U	ND(6)	R1/U	ND(7)	R1J3/U	ND(5)	R1/U
1,1-Dichloroethene	ug/kg	ND(5)	R1/U	ND(6)	R1/U	ND(7)	R1J3/U	ND(5)	R1/U
Chloroform	ug/kg	ND(5)	R1/U	ND(6)	R1/U	ND(7)	R1J3/U	ND(5)	R1/U
Methyl ethyl ketone	ug/kg	ND(11)	R1/U	ND(12)	R1/U	ND(14)	R1J3/U	ND(6)	U1J5/BJ
1,1,1-Trichloroethane	ug/kg	ND(5)	R1/U	ND(6)	R1/U	ND(7)	R1J3/U	ND(5)	R1/U
Trichloroethene	ug/kg	ND(5)	R1/U	ND(6)	R1/U	ND(7)	R1J3/U	ND(5)	R1/U
Benzene	ug/kg	ND(5)	R1/U	ND(6)	R1/U	ND(7)	R1J3/U	ND(5)	R1/U
Bromoform	ug/kg	ND(5)	R1/U	ND(6)	R1/U	ND(7)	R1J3/U	ND(5)	R1/U
Methyl isobutyl ketone	ug/kg	ND(11)	R1/U	11	J5/J	ND(14)	R1J3/U	ND(11)	R1/U
2-Hexanone	ug/kg	ND(11)	R1/U	ND(12)	R1/U	ND(14)	R1J3/U	ND(11)	R1/U
Toluene	ug/kg	ND(2)	U1J5/BJ	ND(16)	U1J5/B	ND(21)	U1J35/B	ND(5)	R1/U
Chlorobenzene	ug/kg	ND(5)	R1/U	ND(6)	R1/U	ND(7)	R1J3/U	ND(5)	R1/U
Xylenes	ug/kg	ND(5)	R1/U	ND(6)	R1/U	ND(7)	R1J3/U	ND(5)	R1/U
CLP-SOC									
4-Methylphenol	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Benzoic acid	ug/kg	ND(3700)	J5/U	ND(20000)	J35/U	ND(2200)	R1J3/U	ND(1800)	R1/U
Naphthalene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
2-Methylnaphthalene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Dimethyl phthalate	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Acenaphthene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Dibenzofuran	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Diethyl phthalate	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Fluorene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Phenanthrene	ug/kg	340	J5/DJ	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Anthracene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Fluoranthene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Pyrene	ug/kg	330	J5/DJ	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Benzo(a)anthracene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Chrysene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Di-n-octylphthalate	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW23A		IR07MW23A		IR07MW23A		IR07SS26	
Sample Depth(feet):		6.25		11.25		15.25		0.00	
Sample Number:		9049H574		9049H575		9049H576		9049N240	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/06/90		12/06/90		12/06/90		12/07/90	
Lab Sample Number:		9012069-03A		9012069-04A		9012069-05A		9012072-04A	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-SOC (cont.)									
Benzo(a)pyrene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
Benzo(ghi)perylene	ug/kg	ND(770)	J5/U	ND(4200)	J35/U	ND(460)	R1J3/U	ND(380)	R1/U
CLP-PEST/PCB									
Aldrin	ug/kg	ND(34)	J5/U	ND(37)	J5/U	NA		ND(33)	R1/U
Dieldrin	ug/kg	ND(68)	J5/U	ND(73)	J5/U	NA		ND(67)	R1/U
4,4'-DDE	ug/kg	ND(68)	J5/U	ND(73)	J5/U	NA		ND(67)	R1/U
Endrin	ug/kg	ND(68)	J5/U	ND(73)	J5/U	NA		ND(67)	R1/U
4,4'-DDD	ug/kg	ND(68)	J5/U	ND(73)	J5/U	NA		ND(67)	R1/U
4,4'-DDT	ug/kg	ND(68)	J5/U	ND(73)	J5/U	NA		ND(67)	R1/U
Methoxychlor	ug/kg	ND(340)	J5/U	ND(370)	J5/U	NA		ND(330)	R1/U
Aroclor-1260	ug/kg	ND(680)	J5/U	ND(730)	J5/U	NA		210	J5/J
TPH DIESEL									
TPH-Diesel	mg/kg	ND(21)	J5/U	ND(23)	J5/U	NA		ND(20)	J5/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA		NA	
TPH GAS									
TPH-Gasoline	mg/kg	ND(0.54)	J53/U	ND(0.58)	J53/U	NA		ND(0.53)	R1/U
OIL & GREASE									
Total Oil & Grease	mg/kg	2170	J5	ND(580)	J5/U	NA		ND(520)	J5/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07SS27		IR07SS28		IR07SS29	
Sample Depth(feet):		0.00		0.00		0.00	
Sample Number:		9049N239		9049N238		9049N237	
Matrix:		SOIL		SOIL		SOIL	
Sample Date:		12/07/90		12/07/90		12/07/90	
Lab Sample Number:		9012072-03A		9012072-02A		9012072-01A	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC							
Carbon disulfide	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(7)	R1/U
1,1-Dichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(7)	R1/U
Chloroform	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(7)	R1/U
Methyl ethyl ketone	ug/kg	ND(4)	U1J5/BJ	ND(12)	R1/U	ND(8)	U1J5/BJ
1,1,1-Trichloroethane	ug/kg	3	J5/J	ND(6)	R1/U	ND(7)	R1/U
Trichloroethene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(7)	R1/U
Benzene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(7)	R1/U
Bromoform	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(7)	R1/U
Methyl isobutyl ketone	ug/kg	ND(12)	R1/U	ND(12)	R1/U	ND(13)	R1/U
2-Hexanone	ug/kg	ND(12)	R1/U	ND(12)	R1/U	ND(13)	R1/U
Toluene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(7)	R1/U
Chlorobenzene	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(7)	R1/U
Xylenes	ug/kg	ND(6)	R1/U	ND(6)	R1/U	ND(7)	R1/U
CLP-SOC							
4-Methylphenol	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
n-Nitrosodipropylamine	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Benzoic acid	ug/kg	ND(2000)	R1/U	ND(2100)	R1/U	ND(2300)	R1/U
Naphthalene	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
2-Methylnaphthalene	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Dimethyl phthalate	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Acenaphthene	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Dibenzofuran	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Diethyl phthalate	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Fluorene	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
n-Nitrosodiphenylamine	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Phenanthrene	ug/kg	ND(410)	R1/U	180	J5/J	ND(470)	R1/U
Anthracene	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Fluoranthene	ug/kg	ND(410)	R1/U	260	J5/J	ND(470)	R1/U
Pyrene	ug/kg	ND(410)	R1/U	250	J5/J	ND(470)	R1/U
Benzo(a)anthracene	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Chrysene	ug/kg	ND(410)	R1/U	170	J5/J	ND(470)	R1/U
Di-n-octylphthalate	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Benzo(b)fluoranthene	ug/kg	ND(410)	R1/U	170	J5/J	ND(470)	R1/U
Benzo(k)fluoranthene	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-1
Analytical Results for Organic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07SS27		IR07SS28		IR07SS29	
Sample Depth(feet):		0.00		0.00		0.00	
Sample Number:		9049N239		9049N238		9049N237	
Matrix:		SOIL		SOIL		SOIL	
Sample Date:		12/07/90		12/07/90		12/07/90	
Lab Sample Number:		9012072-03A		9012072-02A		9012072-01A	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-SOC (cont.)							
Benzo(a)pyrene	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Indeno(1,2,3-cd)pyrene	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Dibenzo(a,h)anthracene	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
Benzo(ghi)perylene	ug/kg	ND(410)	R1/U	ND(430)	R1/U	ND(470)	R1/U
CLP-PEST/PCB							
Aldrin	ug/kg	ND(37)	R1/U	ND(37)	R12/U	ND(41)	R1/U
Dieldrin	ug/kg	ND(73)	R1/U	ND(73)	R12/U	ND(82)	R1/U
4,4'-DDE	ug/kg	ND(73)	R1/U	ND(73)	R12/U	ND(82)	R1/U
Endrin	ug/kg	ND(73)	R1/U	ND(73)	R12/U	ND(82)	R1/U
4,4'-DDD	ug/kg	ND(73)	R1/U	ND(73)	R12/U	ND(82)	R1/U
4,4'-DDT	ug/kg	ND(73)	R1/U	ND(73)	R12/U	ND(82)	R1/U
Methoxychlor	ug/kg	ND(370)	R1/U	ND(370)	R12/U	ND(410)	R1/U
Aroclor-1260	ug/kg	ND(730)	R1/U	ND(730)	R12/U	ND(820)	R1/U
TPH DIESEL							
TPH-Diesel	mg/kg	ND(23)	J5/U	ND(22)	J5/U	ND(26)	J5/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA		NA		NA	
TPH GAS							
TPH-Gasoline	mg/kg	ND(0.58)	R1/U	ND(0.59)	R1/U	ND(0.65)	R1/U
OIL & GREASE							
Total Oil & Grease	mg/kg	13200	J5	750	J5	18900	J5

Notes: Units expressed as micrograms (ug) or milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Validation Assigned Qualifiers

A: Data is acceptable based on a review of laboratory and field QC samples and holding times as discussed in the text.

F: The presence of this compound is due to suspected field contamination.

J3: Analytical results for this compound are qualified as estimated due to poor spike recoveries.

J5: Analytical results for this compound are qualified as estimated due to holding time exceedances.

J7: Analytical results for this compound are qualified as estimated due to linearity problems in the initial calibration.

J8: Analytical results for this compound are qualified as estimated due to detection of the compound above the instrument calibration range.

R1: Analytical results for this compound are qualified as rejected due to holding time exceedances.

R2: Analytical results for this compound are qualified as rejected due to poor spike recoveries.

U1: Compound is qualified as non-detected due to its occurrence in the laboratory blanks.

U2: Compound is qualified as non-detected due to its occurrence in the field blanks.

V: Sample has undergone full CLP validation.

Laboratory Assigned Qualifiers

B: Compound is also detected in the laboratory method blank.

#,b: Analytical results should not be considered reliable for this common lab contaminant.

D: Compound is identified in an analysis at a secondary dilution factor.

E: Concentration exceeds the calibration range of the GC/MS instrument for the specific analysis.

G: Reporting limit raised due to matrix interference.

J: Result is detected below the reporting limit or is an estimated concentration.

j: All reporting limits for this sample raised due to matrix interferences.

l: If 'l' is attached to a diesel result, then either the hydrocarbons present in this sample represent an unknown mixture at a concentrtion of less than 45 mg/kg, or the hydrocarbons present in this sample do not fit the diesel pattern, but are found in the diesel range. (Quantification was based upon diesel references.) If 'l' is attached to a gasoline result, then this sample contains late eluting hydrocarbons. Early gasoline peaks are below reporting limits.

o: Reporting limit raised due to high level of analyte present in sample.

Laboratory Assigned Qualifiers (Continued...)

r: Reporting limit changed due to sample volume limitations.

U: Compound was analyzed but not detected.

X,Y: Specific flag used to properly define the results. Qualifier is fully described in the Sample Data Summary Package and the Case Narrative.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B001		IR07B001		IR07B001		IR07B001
Sample Depth(feet):		1.75		3.75		6.25		10.25
Sample Number:		9132H774		9132H775		9132H776		9132H777
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/06/91		08/06/91		08/06/91		08/06/91
Lab Sample Number:		0597210001SA		0597210002SA		0597210003SA		0597210004SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.21	A	ND(0.1)	A	ND(0.1)	A	0.31	A
CLP-FUAA									
Arsenic	mg/kg	3.9	A	1.4	A/B	3.7	A/B	2.6	A
Lead	mg/kg	37.3	A	6.3	A	NA		NA	
Selenium	mg/kg	ND(0.62)	J3	ND(0.59)	J3	ND(0.6)	J3	ND(0.6)	J3/W
CLP-ICP									
Aluminum	mg/kg	12200	A	4520	A	11000	A	7790	A
Antimony	mg/kg	ND(3.4)	U1J3/BN	ND(2.9)	J3/N	ND(4.2)	U1J3/BN	ND(3.7)	U1J3/BN
Barium	mg/kg	128	A	51.2	A	71.9	A	61.9	A
Beryllium	mg/kg	0.68	A	0.13	A/B	0.41	A/B	0.4	A/B
Cadmium	mg/kg	ND(0.73)	A	ND(0.7)	A	ND(0.71)	A	ND(0.71)	A
Calcium	mg/kg	10700	J2/*E	1670	J2/*E	13100	J2/*E	5190	J2/*E
Chromium	mg/kg	80.3	J3/N	18	J3/N	78.7	J3/N	31.4	J3/N
Cobalt	mg/kg	14.3	A	6.8	A	18.6	A	7.5	A/B
Copper	mg/kg	30.3	A	13.2	A	20.8	A	20	A
Iron	mg/kg	23600	A	9410	A	20900	A	15600	A
Lead	mg/kg	NA		NA		43.4	A	93.1	A
Magnesium	mg/kg	10200	A	4700	A	15000	A	5700	A
Manganese	mg/kg	494	A	287	A	298	A	266	A
Nickel	mg/kg	93.6	J3/N	36.9	J3/N	199	J3/N	52	J3/N
Potassium	mg/kg	1330	A	541	A/B	1160	A	993	A/B
Silver	mg/kg	0.44	A/B	ND(0.35)	A	0.39	A/B	0.62	A/B
Sodium	mg/kg	260	J3/B	67.2	J3/B	179	J3/B	137	J3/B
Vanadium	mg/kg	52	A/E	16.3	A/E	47.2	A/E	45.1	A/E
Zinc	mg/kg	47.4	A/E	20.7	A/E	57.8	A/E	68.9	A/E
Molybdenum	mg/kg	ND(1.6)	U1/B	ND(0.67)	U1/B	ND(1.1)	U1/B	ND(1.4)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.7	A	8.1	A	8.1	A	7.9	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B001		IR07B001		IR07B001		IR07B001
Sample Depth(feet):		16.25		20.75		26.25		31.25
Sample Number:		9132H778		9132H779		9132H780		9132H781
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/06/91		08/06/91		08/06/91		08/06/91
Lab Sample Number:		0597210005SA		0597210006SA		0597210007SA		0597210015SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	ND(0.12)	A	0.39	A	ND(0.13)	A	ND(0.13)	A
CLP-FUAA									
Arsenic	mg/kg	2.8	A	12.4	A/B	13.4	A	8.1	A/+
Lead	mg/kg	NA		NA		3.9	A	4.6	A
Selenium	mg/kg	ND(0.68)	J3	ND(0.77)	J3	ND(0.75)	J3	ND(0.75)	J3
CLP-ICP									
Aluminum	mg/kg	11700	A	13300	A	13400	A	11400	A
Antimony	mg/kg	ND(8.8)	U1J3/BN	ND(3.8)	J3/N	ND(4.5)	U1J3/BN	ND(3.7)	J3/N
Barium	mg/kg	244	A	49.9	A/B	23.8	A/B	20.9	A/B
Beryllium	mg/kg	0.75	A/B	0.51	A/B	0.5	A/B	0.5	A/B
Cadmium	mg/kg	ND(0.81)	A	ND(0.9)	A	ND(0.88)	A	ND(0.88)	A
Calcium	mg/kg	24000	J2/*E	16700	J2/*E	4770	J2/*E	3700	J2/*E
Chromium	mg/kg	126	J3/N	109	J3/N	84	J3/N	83.6	J3/N
Cobalt	mg/kg	19.5	A	15	A	13.1	A	9.8	A/B
Copper	mg/kg	86.4	A	40.5	A	14.3	A	14.6	A
Iron	mg/kg	26800	A	23300	A	20700	A	19500	A
Lead	mg/kg	2480	A	45.8	A	NA		NA	
Magnesium	mg/kg	16400	A	13800	A	10500	A	11100	A
Manganese	mg/kg	1400	A	193	A	175	A	167	A
Nickel	mg/kg	179	J3/N	165	J3/N	94.9	J3/N	89.1	J3/N
Potassium	mg/kg	2320	A	1890	A	2210	A	1950	A
Silver	mg/kg	0.61	A/B	ND(0.45)	A	ND(0.44)	A	0.44	A/B
Sodium	mg/kg	452	J3/B	1760	J3	471	J3/B	241	J3/B
Vanadium	mg/kg	46.5	A/E	52.6	A/E	45.7	A/E	40.3	A/E
Zinc	mg/kg	118	A/E	65.4	A/E	35.3	A/E	34.2	A/E
Molybdenum	mg/kg	ND(2.5)	U1/B	ND(2.2)	U1/B	ND(3)	U1/B	ND(2.2)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.9	A	8.6	A	8.7	A	8.6	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B002		IR07B002		IR07B002		IR07B002
Sample Depth(feet):		1.25		3.25		5.75		10.75
Sample Number:		9049P100		9049P101		9049P102		9049P103
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		12/07/90		12/07/90
Lab Sample Number:		9012069-06B		9012069-07B		9012069-08B		9012069-09B
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.26	J5	0.26	J5	0.29	J5	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	2.2	A/W	2.9	A/W	1.9	A	2.9	A
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	A/WU
CLP-ICP									
Aluminum	mg/kg	8751	A	5269	A	8910	A	9199	A
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	51.4	A	57.5	A	107	A	191	A
Beryllium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U
Cadmium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U
Calcium	mg/kg	4200	J2/*	9184	J2/*	3034	J2/*	4245	J2/*
Chromium	mg/kg	48.1	J2/*	26.8	J2/*	23.2	J2/*	32.7	J2/*
Cobalt	mg/kg	5.9	A/*	6.4	A/*	10.9	A/*	8.8	A/*
Copper	mg/kg	11	A	18	A	50.7	A	16.1	A
Iron	mg/kg	16000	A	10600	A	15400	A	17200	A
Lead	mg/kg	18.6	A/*	53.5	A/*	43.8	A/*	73.5	A/*
Magnesium	mg/kg	2886	J2/*	6566	J2/*	4314	J2/*	4210	J2/*
Manganese	mg/kg	206	A/*	218	A/*	532	A/*	438	A/*
Nickel	mg/kg	30.2	J23/N*	45.4	J23/N*	39.2	J23/N*	40.1	J23/N*
Potassium	mg/kg	665	A	826	A	1480	A	2431	A
Silver	mg/kg	ND(1)	J3/*U	ND(1)	J3/*U	ND(1)	J3/*U	ND(1)	J3/*U
Sodium	mg/kg	ND(500)	A/U	ND(500)	A/U	ND(500)	A/U	ND(500)	A/U
Vanadium	mg/kg	42.9	A	20.9	A	25.6	A	29.7	A
Zinc	mg/kg	36.3	A	55.1	A	59.6	A	85.5	A
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	140	A	ND(50)	A
EPA-9045									
pH	pH	7.2	J5	7.95	J5	8.15	J5	7.9	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B002		IR07B002		IR07B003		IR07B003
Sample Depth(feet):		15.75		20.75		1.75		3.75
Sample Number:		9049P104		9049P105		9132H802		9132H803
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		08/07/91		08/07/91
Lab Sample Number:		9012069-10B		9012070-01B		0597500009SA		0597500010SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	ND(0.1)	J5/U	ND(0.1)	J5/U	0.42	A/N	0.57	A/N
CLP-FUAA									
Arsenic	mg/kg	1.3	A/W	2	A	3.3	J3/N	5.2	J3/N
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/WU	ND(0.5)	A/U	ND(0.63)	A	ND(0.64)	A
CLP-ICP									
Aluminum	mg/kg	13200	A	7260	J2/*	9280	A	14200	A
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(3.1)	U1J3/NB	ND(5.5)	U1J3/NB
Barium	mg/kg	81.8	A	27.6	A/*	304	A	486	A
Beryllium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	0.74	A/B	1	A/B
Cadmium	mg/kg	5.2	A	ND(0.5)	A/U	ND(0.74)	A	1.9	A
Calcium	mg/kg	9497	J2/*	9520	J2/*	7890	A/E	4910	A/E
Chromium	mg/kg	15.6	J2/*	176	A/*	49.9	A/*	36.8	A/*
Cobalt	mg/kg	14.1	A/*	71.5	A	9.6	A/B	19	A
Copper	mg/kg	14.5	A	15.5	A/*	15.1	A	68.6	A
Iron	mg/kg	18000	A	27600	A/*	17700	A	39200	A
Lead	mg/kg	19.6	A/*	10.4	J2/*	194	A	379	A
Magnesium	mg/kg	5652	J2/*	80900	A/*	3610	A	4740	A
Manganese	mg/kg	271	A/*	528	J2/*	314	A	982	A
Nickel	mg/kg	45.9	J23/N*	1230	J3	29.3	A	44	A
Potassium	mg/kg	2687	A	ND(500)	A/U	784	A/B	3550	A
Silver	mg/kg	ND(1)	J3/*U	ND(1)	J3/U	ND(0.37)	A	0.88	A/B
Sodium	mg/kg	ND(500)	A/U	ND(500)	A/U	212	A/B	218	A/B
Vanadium	mg/kg	30.3	A	38.5	A/*	49.6	A/E	40	A/E
Zinc	mg/kg	65.4	A	51.7	A	348	A/E	660	A/E
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(0.71)	A	ND(3.1)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.9	J5	7.2	J5	7.6	J5	7	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B003		IR07B003		IR07B003		IR07B004	
Sample Depth(feet):		6.25		16.75		21.25		2.25	
Sample Number:		9132H804		9132H805		9132H806		9133M152	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/07/91		08/07/91		08/08/91		08/13/91	
Lab Sample Number:		0597500011SA		0597500012SA		0597500013SA		0598870009SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.35	A/N	0.13	A/N	0.19	A/N	ND(0.12)	J3/N
CLP-FUAA									
Arsenic	mg/kg	4.2	J3/N	5.5	J3/NS	0.96	J3/N	2.1	A/B
Lead	mg/kg	NA		NA		6.7	A/S	3.9	A
Selenium	mg/kg	ND(0.63)	A/W	ND(0.69)	A/W	ND(0.71)	A	ND(0.67)	A/W
CLP-ICP									
Aluminum	mg/kg	12100	A	12900	A	5040	A	17800	A
Antimony	mg/kg	ND(5.3)	U1J3/NB	ND(5.8)	U1J3/NB	ND(3.5)	J3/N	ND(4.6)	U1J3/NB
Barium	mg/kg	228	A	87	A	35.4	A/B	100	A
Beryllium	mg/kg	0.79	A/B	0.81	A/B	0.35	A/B	0.98	A/B
Cadmium	mg/kg	ND(0.74)	A	ND(0.81)	A	ND(0.84)	A	ND(0.79)	A
Calcium	mg/kg	16200	A/E	13100	A/E	4410	A/E	5010	A/E
Chromium	mg/kg	61.9	A/*	56.3	A/*	370	A/*	185	A
Cobalt	mg/kg	13.1	A	16.6	A	85.3	A	26	A/E
Copper	mg/kg	258	A	34.2	A	11.7	A	14.9	A
Iron	mg/kg	22700	A	26700	A	43300	A	38400	A
Lead	mg/kg	363	A	51.1	A	NA		NA	
Magnesium	mg/kg	9570	A	11400	A	149000	A	7630	A
Manganese	mg/kg	560	A	482	A	644	A	821	A
Nickel	mg/kg	68.7	A	78	A	2020	A	221	A
Potassium	mg/kg	1670	A	2260	A/B	912	A/B	1120	A/B
Silver	mg/kg	0.45	A/B	ND(0.4)	A	ND(0.42)	A	ND(0.39)	A
Sodium	mg/kg	226	A/B	168	A/B	291	A/B	330	A/B
Vanadium	mg/kg	46.1	A/E	35.8	A/E	25.1	A/E	104	A/E
Zinc	mg/kg	247	A/E	101	A/E	51.1	A/E	39.8	A
Molybdenum	mg/kg	ND(0.71)	A	ND(0.77)	A	ND(0.9)	U1/B	ND(3)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8.2	J5	8.4	J5	8.5	J5	8.1	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B004		IR07B004		IR07B004		IR07B004	
Sample Depth(feet):		4.25		6.25		11.25		22.75	
Sample Number:		9133M153		9133M154		9133M155		9133M156	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/13/91		08/13/91		08/13/91		08/13/91	
Lab Sample Number:		0598870010SA		0598870011SA		0598870012SA		0598870013SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.11)	J3/N	ND(0.13)	J3/N	ND(0.13)	J3/N	ND(0.13)	J3/N
CLP-FUAA									
Arsenic	mg/kg	5.8	A	1.2	A/B	0.73	A/WB	7.7	A/S
Lead	mg/kg	5.7	A/S	8.2	A	2.5	A	10.7	A
Selenium	mg/kg	ND(0.66)	A	ND(0.73)	A/W	ND(0.75)	A/W	ND(0.74)	A/W
CLP-ICP									
Aluminum	mg/kg	18700	A	12500	A	2920	A	13700	A
Antimony	mg/kg	ND(7.6)	U1J3/NB	ND(3.6)	R2/N	ND(3.7)	R2/N	ND(7.5)	U1J3/NB
Barium	mg/kg	119	A	36.1	A/B	283	A	29.9	A/B
Beryllium	mg/kg	0.79	A/B	ND(0.53)	U1/B	ND(0.54)	U1/B	ND(0.53)	U1/B
Cadmium	mg/kg	ND(0.77)	A	ND(0.86)	A	ND(0.89)	A	ND(0.87)	A
Calcium	mg/kg	6310	A/E	6500	A/E	837	A/EB	14100	A/E
Chromium	mg/kg	63.6	A	533	A	98.6	A	75	A
Cobalt	mg/kg	18.3	A/E	107	A/E	87.8	A/E	14.5	A/E
Copper	mg/kg	43	A	11.6	A	40.1	A	16.6	A
Iron	mg/kg	33100	A	49900	A	37700	A	24000	A
Lead	mg/kg	NA		NA		NA		NA	
Magnesium	mg/kg	13100	A	112000	A	92900	A	11500	A
Manganese	mg/kg	503	A	896	A	1770	A	228	A
Nickel	mg/kg	85.5	A	2340	A	1760	A	102	A
Potassium	mg/kg	3510	A	354	A/B	545	A/B	2380	A
Silver	mg/kg	ND(0.38)	A	ND(0.43)	A	0.47	A/B	ND(0.43)	A
Sodium	mg/kg	916	A/B	2140	A	900	A/B	1780	A
Vanadium	mg/kg	52.1	A/E	48.6	A/E	20	A/E	45.8	A/E
Zinc	mg/kg	77	A	39.8	A	42	A	45.8	A
Molybdenum	mg/kg	ND(3.2)	U1/B	ND(2)	U1/B	ND(2.6)	U1/B	ND(2.6)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	9.1	J5	8.4	J5	8.4	J5	8.9	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B005		IR07B005		IR07B005		IR07B005	
Sample Depth(feet):		1.75		3.75		6.25		11.25	
Sample Number:		9132H782		9132H783		9132H784		9132H785	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/06/91		08/06/91		08/06/91		08/06/91	
Lab Sample Number:		0597210008SA		0597210009SA		0597210010SA		0597210011SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.24	A	ND(0.11)	A	0.38	A	1.9	A
CLP-FUAA									
Arsenic	mg/kg	ND(5.6)	A/W	20.7	A	20.9	A	5.1	A/B
Lead	mg/kg	48.6	A	19.6	A	NA		NA	
Selenium	mg/kg	ND(0.65)	J3	0.65	J3/BW	ND(0.66)	J3	ND(0.68)	J3
CLP-ICP									
Aluminum	mg/kg	16200	A	18700	A	14600	A	11200	A
Antimony	mg/kg	ND(3.2)	J3/N	ND(6.4)	U1J3/BN	ND(3.3)	J3/N	ND(4.7)	U1J3/BN
Barium	mg/kg	118	A	94.3	A	383	A	241	A
Beryllium	mg/kg	0.72	A/B	0.71	A/B	0.73	A/B	0.75	A/B
Cadmium	mg/kg	ND(0.77)	A	ND(0.76)	A	ND(0.78)	A	0.95	A/B
Calcium	mg/kg	15100	J2/*E	5580	J2/*E	6120	J2/*E	13100	J2/*E
Chromium	mg/kg	360	J3/N	39.2	J3/N	54.4	J3/N	69.7	J3/N
Cobalt	mg/kg	62.8	A	25	A	12.7	A	11.7	A
Copper	mg/kg	66.4	A	60.5	A	62	A	174	A
Iron	mg/kg	41900	A	39800	A	22100	A	22400	A
Lead	mg/kg	NA		NA		885	A	857	A
Magnesium	mg/kg	99900	A	13500	A	4430	A	3760	A
Manganese	mg/kg	1010	A	573	A	457	A	512	A
Nickel	mg/kg	958	J3/N	65.9	J3/N	53.5	J3/N	39.8	J3/N
Potassium	mg/kg	1540	A	2630	A	3260	A	1420	A
Silver	mg/kg	0.53	A/B	0.49	A/B	0.55	A/B	2.1	A/B
Sodium	mg/kg	908	J3/B	395	J3/B	286	J3/B	342	J3/B
Vanadium	mg/kg	59.1	A/E	50.7	A/E	49.3	A/E	49.8	A/E
Zinc	mg/kg	89.1	A/E	88.2	A/E	281	A/E	436	A/E
Molybdenum	mg/kg	ND(2.4)	U1/B	ND(3.5)	U1/B	ND(2.1)	U1/B	ND(2.1)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.8	A	7.2	A	7.8	A	8.1	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B005		IR07B005		IR07B005		IR07B006	
Sample Depth(feet):		16.25		21.25		31.75		1.25	
Sample Number:		9132H786		9132H787		9132H788		9049P106	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/06/91		08/06/91		08/06/91		12/07/90	
Lab Sample Number:		0597210012SA		0597210013SA		0597210014SA		9012070-02B	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	0.22	A	ND(0.12)	A	ND(0.16)	A	0.11	J5
CLP-FUAA									
Arsenic	mg/kg	2.9	A	ND(0.62)	A	8.2	A/+	2	A/W
Lead	mg/kg	NA		4.8	A	10.1	A	NA	
Selenium	mg/kg	ND(0.81)	J3	ND(0.72)	J3	ND(0.93)	J3/W	ND(0.5)	A/WU
CLP-ICP									
Aluminum	mg/kg	13100	A	3770	A	28200	A	11600	J2/*
Antimony	mg/kg	ND(4)	J3/N	ND(3.6)	J3/N	ND(4.6)	J3/N	ND(6)	A/U
Barium	mg/kg	120	A	8.8	A/B	44.2	A/B	63.7	A/*
Beryllium	mg/kg	0.54	A/B	0.32	A/B	1	A/B	ND(0.5)	A/U
Cadmium	mg/kg	ND(0.95)	A	ND(0.85)	A	ND(1.1)	A	ND(0.5)	A/U
Calcium	mg/kg	7150	J2/*E	3650	J2/*E	5460	J2/*E	7580	J2/*
Chromium	mg/kg	652	J3/N	699	J3/N	102	J3/N	230	A/*
Cobalt	mg/kg	150	A	94.7	A	22.9	A	36.1	A
Copper	mg/kg	30.3	A	14.2	A	38.3	A	43.9	A/*
Iron	mg/kg	72700	A	51400	A	42000	A	33800	A/*
Lead	mg/kg	208	A	NA		NA		37.5	J2/*
Magnesium	mg/kg	54300	A	210000	A	20200	A	107100	A/*
Manganese	mg/kg	831	A	888	A	414	A	739	J2/*
Nickel	mg/kg	2570	J3/N	2050	J3/N	149	J3/N	627	J3
Potassium	mg/kg	1700	A	ND(151)	U1/B	4920	A	979	A
Silver	mg/kg	0.8	A/B	ND(0.42)	A	ND(0.54)	A	ND(1)	J3/U
Sodium	mg/kg	595	J3/B	276	J3/B	6110	J3	ND(500)	A/U
Vanadium	mg/kg	53.9	A/E	27.1	A/E	73.8	A/E	44.3	A/*
Zinc	mg/kg	193	A/E	37.4	A/E	86.6	A/E	99.8	A
Molybdenum	mg/kg	ND(1.8)	U1/B	ND(1.9)	U1/B	ND(5)	U1/B	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	J3
EPA-9045									
pH	pH	8.1	A	8	A	8.4	A	8.1	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B006		IR07B006		IR07B006		IR07B006
Sample Depth(feet):		4.25		6.25		10.75		15.75
Sample Number:		9049P107		9049P108		9049P109		9049P110
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		12/07/90		12/07/90
Lab Sample Number:		9012070-03B		9012070-04B		9012070-05B		9012070-06B
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	ND(1)	A/U	ND(1)	A/U	ND(1)	A/U	ND(1)	A/U
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	A/U	ND(0.5)	A/U
CLP-ICP									
Aluminum	mg/kg	2680	J2/*	269	J2/O*	3250	J2/*	3400	J2/*
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	135	A/*	153	A/*	34.3	A/*	14.1	A/*
Beryllium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U
Cadmium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U
Calcium	mg/kg	3300	J2/*	3190	J2/*	2720	J2/*	1610	J2/*
Chromium	mg/kg	575	A/*	643	A/*	602	A/*	774	A/*
Cobalt	mg/kg	64.2	A	70.2	A	98.3	A	95.1	A
Copper	mg/kg	14.5	A/*	14.6	A/*	35.6	A/*	14.4	A/*
Iron	mg/kg	32900	A/*	33600	A/*	56300	A/*	56100	A/*
Lead	mg/kg	365	J2/*	370	J2/*	77	J2/*	28	J2/*
Magnesium	mg/kg	204800	A/*	211200	A/*	175700	A/*	190700	A/*
Manganese	mg/kg	609	J2/*	570	J2/*	925	J2/*	644	J2/*
Nickel	mg/kg	1230	J3	1340	J3	2100	J3	2170	J3
Potassium	mg/kg	ND(500)	A/U	ND(500)	A/U	519	A	739	A
Silver	mg/kg	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U
Sodium	mg/kg	ND(500)	A/U	ND(500)	A/U	627	A	3800	A
Vanadium	mg/kg	20.6	A/*	20.9	A/*	28.4	A/*	30.2	A/*
Zinc	mg/kg	210	A	206	A	73.6	A	55.2	A
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	140	A	410	A	ND(50)	A
EPA-9045									
pH	pH	8.4	J5	8.5	J5	8.3	J5	7.8	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B006		IR07B006		IR07B007		IR07B007	
Sample Depth(feet):		20.25		30.75		1.75		3.75	
Sample Number:		9049P111		9049P112		9049H566		9049H567	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/07/90		12/07/90		12/06/90		12/06/90	
Lab Sample Number:		9012070-07B		9012070-08B		9012059-09B		9012059-10B	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	3.9	A	6.6	A	1.5	A/+	ND(1)	A/WU
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	A/WU
CLP-ICP									
Aluminum	mg/kg	14200	J2/*	16800	J2/*	4420	J2/*	915	J2/*
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	283	A/*	32	A/*	36.1	A/*	ND(20)	A/*U
Beryllium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	J3/NU	ND(0.5)	J3/NU
Cadmium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	3.6	A/*	3.1	A/*
Calcium	mg/kg	2300	J2/*	4110	J2/*	1880	A/*	564	A/*
Chromium	mg/kg	121	A/*	66.8	A/*	143	A/*	182	A/*
Cobalt	mg/kg	25.5	A	13.2	A	36.9	A/*	67.5	A/*
Copper	mg/kg	27.8	A/*	29.2	A/*	10.8	A/*	ND(2.5)	A/*U
Iron	mg/kg	32800	A/*	33300	A/*	23500	J2/*	18100	J2/*
Lead	mg/kg	31.1	J2/*	12.5	J2/*	11.8	J2/*	ND(10)	J2/U
Magnesium	mg/kg	36200	A/*	13000	A/*	84400	J2/*	111000	J2/*
Manganese	mg/kg	370	J2/*	299	J2/*	363	J2/*	314	J2/*
Nickel	mg/kg	422	J3	74.2	J3	637	J2/*	1420	J2/*
Potassium	mg/kg	1930	A	3960	A	ND(500)	A/U	ND(500)	A/U
Silver	mg/kg	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U
Sodium	mg/kg	3460	A	6730	A	ND(500)	A/U	ND(500)	A/U
Vanadium	mg/kg	36.5	A/*	55.2	A/*	24	A/*	11.1	A/*
Zinc	mg/kg	77.1	A	83.8	A	31.7	J2/*	19.6	J2/*
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	NA		ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8	J5	8.6	J5	7.8	J5	8.8	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B007		IR07B007		IR07B007		IR07B007
Sample Depth(feet):		6.25		11.25		16.25		21.25
Sample Number:		9049H568		9049H569		9049H570		9049H571
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/06/90		12/06/90		12/06/90		12/06/90
Lab Sample Number:		9012059-11B		9012059-12B		9012059-13B		9012059-14B
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	0.15	J5	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	ND(1)	A/WU	2.8	A/+	1.1	A/W	ND(1)	A/WU
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	A/WU
CLP-ICP									
Aluminum	mg/kg	2470	J2/*	10700	J2/*	4120	J2/*	5880	J2/*
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	21.2	A/*	280	A/*	51.3	A/*	79.3	A/*
Beryllium	mg/kg	ND(0.5)	J3/NU	ND(0.5)	J3/NU	ND(0.5)	J3/NU	ND(0.5)	J3/NU
Cadmium	mg/kg	4.2	A/*	4	A/*	1.8	A/*	1.7	A/*
Calcium	mg/kg	2310	A/*	2500	A/*	1260	A/*	1000	A/*
Chromium	mg/kg	457	A/*	42.5	A/*	189	A/*	41.4	A/*
Cobalt	mg/kg	55.6	A/*	16.7	A/*	16.6	A/*	5.8	A/*
Copper	mg/kg	8.8	A/*	22.9	A/*	7.9	A/*	5.1	A/*
Iron	mg/kg	23800	J2/*	24200	J2/*	10600	J2/*	8910	J2/*
Lead	mg/kg	23.4	J2/*	15.7	J2/*	35.2	J2/*	15	J2/*
Magnesium	mg/kg	122000	J2/*	12600	J2/*	37900	J2/*	2260	J2/*
Manganese	mg/kg	433	J2/*	470	J2/*	257	J2/*	202	J2/*
Nickel	mg/kg	1040	J2/*	126	J2/*	400	J2/*	31	J2/*
Potassium	mg/kg	ND(500)	A/U	1010	A	ND(500)	A/U	ND(500)	A/U
Silver	mg/kg	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U
Sodium	mg/kg	ND(500)	A/U	ND(500)	A/U	ND(500)	A/U	842	A
Vanadium	mg/kg	17.8	A/*	21.9	A/*	19.1	A/*	26.2	A/*
Zinc	mg/kg	33.8	J2/*	62.2	J2/*	29.4	J2/*	21.6	J2/*
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	R2
EPA-9045									
pH	pH	7.25	J5	7.5	J5	7.8	J5	8.4	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B008		IR07B008		IR07B008		IR07B008	
Sample Depth(feet):		2.25		3.75		6.25		11.25	
Sample Number:		9133M134		9133M135		9133M136		9133M137	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/13/91		08/13/91		08/13/91		08/13/91	
Lab Sample Number:		0598840019SA		0598840020SA		0598870001SA		0598870002SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.11)	A	ND(0.11)	A	ND(0.12)	J3/N	ND(0.12)	J3/N
CLP-FUAA									
Arsenic	mg/kg	3.7	J3/N	5	J3/NS	3.7	A	2	A/B
Lead	mg/kg	4.8	A	4.4	A	5.8	A	2.7	A
Selenium	mg/kg	ND(0.65)	J3/N	ND(0.65)	J3/N	ND(0.68)	A	ND(0.69)	A
CLP-ICP									
Aluminum	mg/kg	17200	A	17400	A	22300	A	15100	A
Antimony	mg/kg	ND(7)	U1/B	ND(4.1)	U1	ND(8.5)	U1J3/NB	ND(5.1)	U1J3/NB
Barium	mg/kg	90.4	A	84.6	A	105	A	61.5	A
Beryllium	mg/kg	0.79	A/B	0.79	A	0.83	A/B	0.84	A/B
Cadmium	mg/kg	ND(0.76)	A	0.78	A	1.2	A/B	ND(0.82)	A
Calcium	mg/kg	4110	A/E	3940	A/E	6800	A/E	5370	A/E
Chromium	mg/kg	107	A	117	A	135	A	144	A
Cobalt	mg/kg	22.7	A	18.3	A	24	A/E	22	A/E
Copper	mg/kg	12.4	A/E	15.5	A/E	20.8	A	15.4	A
Iron	mg/kg	27400	A	30900	A	35500	A	32800	A
Lead	mg/kg	NA		NA		NA		NA	
Magnesium	mg/kg	4060	A	5880	A	13800	A	8180	A
Manganese	mg/kg	715	A	517	A	604	A	446	A
Nickel	mg/kg	90.5	A	118	A	168	A	499	A
Potassium	mg/kg	928	J3/B	1030	J3	1490	A	1020	A/B
Silver	mg/kg	ND(0.38)	A	ND(0.38)	A	0.51	A/B	ND(0.4)	A
Sodium	mg/kg	194	A/B	278	A	340	A/B	399	A/B
Vanadium	mg/kg	72.6	A/E	75.7	A/E	89	A/E	71.9	A/E
Zinc	mg/kg	33.6	A	38.4	A	42.4	A	37.4	A
Molybdenum	mg/kg	ND(2.7)	U1/B	ND(2.3)	U1	ND(3.7)	U1/B	ND(2.3)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	6.4	A	7.1	A	8.3	A	7.8	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B008		IR07B009		IR07B009		IR07B009
Sample Depth(feet):		16.25		1.75		3.75		5.25
Sample Number:		9133M138		9049H551		9049H552		9049H553
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/13/91		12/04/90		12/04/90		12/04/90
Lab Sample Number:		0598870003SA		9012040-08B		9012040-09B		9012041-01C
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	ND(0.15)	J3/N	0.39	J5	0.19	J5	0.12	J5
CLP-FUAA									
Arsenic	mg/kg	ND(0.74)	A/W	3	A	3.2	A	ND(1)	A/WU
Lead	mg/kg	5.7	A	NA		NA		NA	
Selenium	mg/kg	ND(0.86)	A/W	ND(0.5)	J3/WU	ND(0.5)	J3/NWU	ND(0.5)	A/WU
CLP-ICP									
Aluminum	mg/kg	49200	A	6500	A	7300	A	10900	A/*
Antimony	mg/kg	ND(11.3)	U1J3/NB	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	57.6	A/B	74.7	A	56.1	A	87.3	A
Beryllium	mg/kg	1	A/B	ND(0.5)	J3/U	ND(0.5)	J3/NU	ND(0.5)	A/U
Cadmium	mg/kg	ND(1)	A	3.1	J3	2.7	J3/N	3.6	J3
Calcium	mg/kg	11300	A/E	1900	A	2200	A	4200	A
Chromium	mg/kg	433	A	164	J3	72.6	J3/N	115	A
Cobalt	mg/kg	39	A/E	20.6	A	11.2	A/*	20.2	J3/N
Copper	mg/kg	45	A	17.8	J3	18.4	J3	39.1	A/N*
Iron	mg/kg	53300	A	17100	A	16800	A	23400	A
Lead	mg/kg	NA		ND(10)	J23/U	23.8	J23/N*	20.9	J3
Magnesium	mg/kg	139000	A	24800	A	3000	A/*	12800	A
Manganese	mg/kg	693	A	369	J3	264	J3	355	A/N
Nickel	mg/kg	897	A	381	J23	67.7	J23/N*	206	A/N
Potassium	mg/kg	488	A/B	ND(500)	A/U	604	A	630	A
Silver	mg/kg	ND(0.5)	A	ND(1)	J53/U	ND(5.3)	U1J35/*	ND(1)	A/U
Sodium	mg/kg	950	A/B	ND(500)	A/U	ND(500)	A/U	ND(500)	A/U
Vanadium	mg/kg	79.1	A/E	35.3	J3	38.9	J3/N	41.1	A
Zinc	mg/kg	75.3	A	49	J3	514	J3	100	A/W
Molybdenum	mg/kg	ND(4.6)	U1/B	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	NA	
EPA-9045									
pH	pH	8	A	7.95	J5	7.7	J5	7.05	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B010		IR07B010		IR07B010		IR07B010	
Sample Depth(feet):		1.38		7.62		10.88		15.88	
Sample Number:		9049H545		9049H546		9049H547		9049H548	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/04/90		12/04/90		12/04/90		12/04/90	
Lab Sample Number:		9012040-02B		9012040-03B		9012040-04B		9012040-05B	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.1)	J5/U	1.8	J5	0.78	J5	0.2	J5
CLP-FUAA									
Arsenic	mg/kg	2.6	A	6.6	A	5.5	A	8	A
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	J3/WU	ND(0.5)	J3/WU	ND(0.5)	J3/WU	ND(0.5)	J3/WU
CLP-ICP									
Aluminum	mg/kg	11500	A	8900	A	5400	A	13500	A
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	70.1	A	453	A	280	A	223	A
Beryllium	mg/kg	ND(0.5)	J3/U	ND(0.5)	J3/U	ND(0.5)	J3/U	ND(0.5)	J3/U
Cadmium	mg/kg	4.9	J3	5.8	J3	4.4	J3	4.3	J3
Calcium	mg/kg	2500	A	26900	A	17000	A	6300	A
Chromium	mg/kg	145	J3	35.9	J3	30	J3	26.7	J3
Cobalt	mg/kg	16.6	A	7.8	A	6.9	A	13.7	A
Copper	mg/kg	13.8	J3	208	J3	31.1	J3	26.3	J3
Iron	mg/kg	29900	A	32300	A	23800	A	23800	A
Lead	mg/kg	ND(10)	J23/U	601	J23	459	J23	21.1	J23
Magnesium	mg/kg	8700	A	3400	A	2300	A	6000	A
Manganese	mg/kg	344	J3	308	J3	240	J3	441	J3
Nickel	mg/kg	184	J23	30.6	J23	24.4	J23	41.3	J23
Potassium	mg/kg	ND(500)	A/U	965	A	1100	A	1300	A
Silver	mg/kg	ND(1.3)	U1J35	ND(1)	J53/U	ND(1)	J53/U	ND(1)	J53/U
Sodium	mg/kg	681	A	605	A	ND(500)	A/U	767	A
Vanadium	mg/kg	66.4	J3	35.8	J3	24.3	J3	26.7	J3
Zinc	mg/kg	33.1	J3	736	J3	247	J3	74.7	J3
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.35	J5	8.2	J5	8.7	J5	9.25	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B010		IR07B010		IR07B011		IR07B011	
Sample Depth(feet):		20.88		30.62		1.75		3.75	
Sample Number:		9049H549		9049H550		9132H796		9132H797	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/04/90		12/04/90		08/07/91		08/07/91	
Lab Sample Number:		9012040-06B		9012040-07B		0597500003SA		0597500004SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.33	J5	0.12	J5	0.22	A/N	0.23	A/N
CLP-FUAA									
Arsenic	mg/kg	8.1	A	3.9	A	4.8	J3/NB	3.8	J3/NS
Lead	mg/kg	NA		NA		47.6	A	NA	
Selenium	mg/kg	ND(0.5)	J3/WU	ND(0.5)	J3/WU	ND(0.63)	A	ND(0.65)	A
CLP-ICP									
Aluminum	mg/kg	12100	A	5800	A	22200	A	11700	A
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(3.4)	U1J3/N	ND(3.2)	J3/N
Barium	mg/kg	166	A	ND(20)	A/U	351	A	89.7	A
Beryllium	mg/kg	ND(0.5)	J3/U	ND(0.5)	J3/U	1.1	A	0.66	A/B
Cadmium	mg/kg	3.1	J3	2.2	J3	ND(0.74)	A	ND(0.76)	A
Calcium	mg/kg	2900	A	2300	A	9970	A/E	7230	A/E
Chromium	mg/kg	26.4	J3	111	J3	288	A/*	455	A/*
Cobalt	mg/kg	10.8	A	7.5	A	39.3	A	50.3	A
Copper	mg/kg	28.5	J3	8	J3	106	A	243	A
Iron	mg/kg	19300	A	15100	A	38100	A	39300	A
Lead	mg/kg	71.2	J23	ND(10)	J23/U	NA		122	A
Magnesium	mg/kg	5500	A	10400	A	68100	A	104000	A
Manganese	mg/kg	435	J3	109	J3	623	A	679	A
Nickel	mg/kg	41	J23	85.6	J23	567	A	1030	A
Potassium	mg/kg	773	A	1200	A	2980	A	767	A/B
Silver	mg/kg	ND(1)	J53/U	ND(1)	J53/U	0.76	A/B	0.52	A/B
Sodium	mg/kg	1100	A	1600	A	248	A/B	974	A/B
Vanadium	mg/kg	26.1	J3	22.2	J3	60.8	A/E	43.2	A/E
Zinc	mg/kg	84.5	J3	27.3	J3	140	A/E	169	A/E
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(1.4)	U1/B	ND(2.6)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	R2	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8.75	J5	8.8	J5	8.6	J5	8.3	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B011		IR07B011		IR07B011		IR07B011
Sample Depth(feet):		6.25		11.25		16.75		21.25
Sample Number:		9132H798		9132H799		9132H800		9132H801
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/07/91		08/07/91		08/07/91		08/07/91
Lab Sample Number:		0597500005SA		0597500006SA		0597500007SA		0597500008SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.23	A/N	ND(0.14)	A/N	0.14	A/N	ND(0.13)	A/N
CLP-FUAA									
Arsenic	mg/kg	2.3	J3/NS	6.2	J3/N+	0.92	J3/NB	1.6	J3/NB
Lead	mg/kg	63.9	A/S	4.9	A	18.4	A	NA	
Selenium	mg/kg	ND(0.65)	A	ND(0.79)	A	ND(0.76)	A	ND(0.78)	A
CLP-ICP									
Aluminum	mg/kg	12500	A	23500	A	15400	A	13400	A
Antimony	mg/kg	ND(3.5)	U1J3/NB	ND(5.5)	U1J3/NB	ND(3.7)	J3/N	ND(10.5)	U1J3/NB
Barium	mg/kg	195	A	86	A	89.3	A	82.2	A
Beryllium	mg/kg	0.86	A/B	1.1	A/B	0.75	A/B	0.7	A/B
Cadmium	mg/kg	ND(0.76)	A	ND(0.92)	A	ND(0.89)	A	ND(0.92)	A
Calcium	mg/kg	5820	A/E	10900	A/E	11500	A/E	12500	A/E
Chromium	mg/kg	564	A/*	480	A/*	519	A/*	502	A/*
Cobalt	mg/kg	72.7	A	66.7	A	83.9	A	95.4	A
Copper	mg/kg	121	A	25.5	A	25.5	A	39.4	A
Iron	mg/kg	43700	A	45700	A	48100	A	48700	A
Lead	mg/kg	NA		NA		NA		2480	A
Magnesium	mg/kg	111000	A	115000	A	133000	A	137000	A
Manganese	mg/kg	1180	A	775	A	853	A	815	A
Nickel	mg/kg	1230	A	1310	A	1560	A	1570	A
Potassium	mg/kg	876	A/B	875	A/B	604	A/B	949	A/B
Silver	mg/kg	0.59	A/B	0.79	A/B	0.45	A/B	1.1	A/B
Sodium	mg/kg	526	A/B	800	A/B	917	A/B	4470	A
Vanadium	mg/kg	51.1	A/E	68.2	A/E	56.4	A/E	50.5	A/E
Zinc	mg/kg	124	A/E	53.8	A/E	68.8	A/E	66.8	A/E
Molybdenum	mg/kg	ND(1.9)	U1/B	ND(1.1)	U1/B	ND(1.5)	U1/B	ND(1.2)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	NA		ND(50)	A
EPA-9045									
pH	pH	8.2	J5	8.1	J5	8.5	J5	8.5	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B012		IR07B012		IR07B012		IR07B012
Sample Depth(feet):		2.25		4.25		6.25		11.25
Sample Number:		9049H538		9049H539		9049H540		9049H541
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/03/90		12/03/90		12/03/90		12/03/90
Lab Sample Number:		69965		69966		69967		9012027-01C
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	0.26	J23/N*	0.8	J23/N*	0.1	J23/N*	0.19	J5
CLP-FUAA									
Arsenic	mg/kg	3.8	A/*	6.3	J5/*	ND(1.1)	A/S*	2.9	A
Lead	mg/kg	112	J23/N*	1520	J23/N*	12.3	J23/N*	NA	
Selenium	mg/kg	ND(1.1)	J3/NW	ND(1.3)	J3/NW	ND(1.1)	J3/NW	ND(0.5)	J3/WU
CLP-ICP									
Aluminum	mg/kg	10100	A/*	13200	A/*	11800	A/*	16600	A
Antimony	mg/kg	48	J3/N	72.1	J3/N	77.2	J3/N	ND(6)	A/U
Barium	mg/kg	85.6	A/*	216	A/*	111	A	89.5	A
Beryllium	mg/kg	0.48	A/B	0.68	A/B	0.21	A/B	ND(0.5)	J3/U
Cadmium	mg/kg	2.6	A	4.8	A	6.7	A	5	J3
Calcium	mg/kg	9010	J2/*	10300	J2/*	3060	J2/*	7660	A
Chromium	mg/kg	87.2	A/*	233	A/*	903	A/*	396	J3
Cobalt	mg/kg	16.8	A	43.5	A	85.2	A	37	A
Copper	mg/kg	31.7	A	74.3	A	80.9	A	29.1	J3
Iron	mg/kg	21400	A	35400	A	41100	A	35100	A
Lead	mg/kg	NA		NA		NA		ND(10)	J23/U
Magnesium	mg/kg	12700	J2/*	59300	J2/*	167000	J2/*	101000	A
Manganese	mg/kg	495	J2/*	614	J2/*	910	J2/*	620	J3
Nickel	mg/kg	140	J23/N*	694	J23/N*	1630	J23/N*	679	J23
Potassium	mg/kg	790	A/B	1080	A/B	152	A/B	637	A
Silver	mg/kg	1.2	A/B	2.4	A/B	2.9	A	ND(1.2)	U1J35
Sodium	mg/kg	434	A/B	548	A/B	897	A/B	1250	A
Vanadium	mg/kg	43.8	A	55	A	42.4	A	43.8	J3
Zinc	mg/kg	71.1	A	178	A	62.7	A	58	J3
Molybdenum	mg/kg	2.2	A	3.3	A	2.9	A	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8.1	A	7.6	A	8.5	A	7	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B012		IR07B012		IR07B012		IR07B013	
Sample Depth(feet):		16.25		23.25		30.88		1.75	
Sample Number:		9049H542		9049H543		9049H544		9133M139	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/03/90		12/03/90		12/04/90		08/13/91	
Lab Sample Number:		9012027-02B		9012027-03B		9012040-01B		0598870004SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U	0.14	J3/N
CLP-FUAA									
Arsenic	mg/kg	2.6	A	2.5	A/S	1.2	A	1.7	A/B
Lead	mg/kg	NA		NA		NA		5.7	A
Selenium	mg/kg	ND(0.5)	J3/NU	ND(0.5)	J3/WU	ND(0.5)	J3/WU	ND(0.67)	A
CLP-ICP									
Aluminum	mg/kg	16800	A	10100	A	29800	A	20000	A
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(3.3)	R2/N
Barium	mg/kg	122	A	59.7	A	149	A	123	A
Beryllium	mg/kg	ND(0.5)	J3/U	ND(0.5)	J3/U	ND(0.5)	J3/U	0.8	A/B
Cadmium	mg/kg	4.5	J3	4.1	J3	7.3	J3	ND(0.78)	A
Calcium	mg/kg	9280	A	3810	A	13300	A	2890	A/E
Chromium	mg/kg	262	J3	395	J3	99.6	J3	209	A
Cobalt	mg/kg	36.8	A	44.4	A	37.4	A	42	A/E
Copper	mg/kg	50.9	J3	20.2	J3	47.2	J3	25	A
Iron	mg/kg	42900	A	29300	A	47800	A	35500	A
Lead	mg/kg	ND(10)	J23/U	ND(10)	J23/U	ND(10)	J23/U	NA	
Magnesium	mg/kg	101000	A	155000	A	41000	A	20500	A
Manganese	mg/kg	1210	J3	610	J3	1800	J3	489	A
Nickel	mg/kg	546	J23	854	J23	102	J23	849	A
Potassium	mg/kg	682	A	ND(500)	A/U	578	A	327	A/B
Silver	mg/kg	ND(1)	J53/U	ND(1)	J53/U	ND(1)	J53/U	ND(0.39)	A
Sodium	mg/kg	610	A	598	A	902	A	390	A/B
Vanadium	mg/kg	51.5	J3	32	J3	79.1	J3	56.3	A/E
Zinc	mg/kg	67.8	J3	31	J3	60.3	J3	53.1	A
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(2.6)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.7	J5	8.2	J5	7	J5	8.4	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B013		IR07B013		IR07B013		IR07B013	
Sample Depth(feet):		3.75		6.25		11.25		21.25	
Sample Number:		9133M140		9133M141		9133M142		9133M143	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/13/91		08/13/91		08/13/91		08/13/91	
Lab Sample Number:		0598870005SA		0598870006SA		0598870007SA		0598870008SA	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	0.15	J3/N	ND(0.12)	J3/N	ND(0.13)	J3/N	ND(0.13)	J3/N
CLP-FUAA									
Arsenic	mg/kg	17.9	A/S	0.73	A/B	1.1	A/B	1.3	A/WB
Lead	mg/kg	NA		6.4	A/S	8.1	A	9.4	A
Selenium	mg/kg	ND(0.67)	A/W	ND(0.71)	A/W	ND(0.73)	A/W	ND(0.77)	A
CLP-ICP									
Aluminum	mg/kg	16000	A	3670	A	5750	A	7090	A
Antimony	mg/kg	ND(7.1)	U1J3/NB	ND(3.5)	R2/N	ND(3.6)	R2/N	ND(3.8)	R2/N
Barium	mg/kg	150	A	21.6	A/B	43.3	A/B	42.5	A/B
Beryllium	mg/kg	0.81	A/B	ND(0.34)	U1/B	ND(0.36)	U1/B	ND(0.37)	U1/B
Cadmium	mg/kg	ND(0.79)	A	ND(0.83)	A	ND(0.86)	A	ND(0.9)	A
Calcium	mg/kg	5170	A/E	1790	A/E	2560	A/E	12300	A/E
Chromium	mg/kg	265	A	370	A	445	A	375	A
Cobalt	mg/kg	33.2	A/E	124	A/E	129	A/E	94.8	A/E
Copper	mg/kg	90	A	7	A	18	A	15.9	A
Iron	mg/kg	34700	A	59300	A	58600	A	43500	A
Lead	mg/kg	72.6	A	NA		NA		NA	
Magnesium	mg/kg	38100	A	183000	A	115000	A	63800	A
Manganese	mg/kg	522	A	930	A	1110	A	647	A
Nickel	mg/kg	533	A	2660	A	2400	A	1500	A
Potassium	mg/kg	1940	A	ND(75.1)	A	396	A/B	560	A
Silver	mg/kg	0.51	A/B	ND(0.41)	A	0.63	A/B	ND(0.45)	A
Sodium	mg/kg	800	A/B	1270	A	569	A/B	638	A/B
Vanadium	mg/kg	62.2	A/E	25.1	A/E	35.1	A/E	36.9	A/E
Zinc	mg/kg	163	A	43.9	A	49.3	A	40.8	A
Molybdenum	mg/kg	ND(5.5)	U1	ND(1.1)	U1/B	ND(0.86)	U1/B	ND(1.1)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	NA	
EPA-9045									
pH	pH	8.1	A	8.2	A	8.1	A	9.8	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B014		IR07B014		IR07B014		IR07B014
Sample Depth(feet):		1.75		4.25		6.25		16.25
Sample Number:		9133H835		9133H836		9133H837		9133H838
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/12/91		08/12/91		08/12/91		08/12/91
Lab Sample Number:		0598840001SA		0598840002SA		0598840003SA		0598840004SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	0.39	A	0.34	A	0.13	A	0.22	A
CLP-FUAA									
Arsenic	mg/kg	3.5	J3/N	3.2	J3/N	2	J3/BN	9.3	J3/N
Lead	mg/kg	NA		NA		9.8	A/S	8.1	A
Selenium	mg/kg	ND(0.65)	J3/N	ND(0.65)	J3/NW	ND(0.7)	J3/N	ND(0.69)	J3/N
CLP-ICP									
Aluminum	mg/kg	10600	A	11900	A	11100	A	21200	A
Antimony	mg/kg	ND(3.2)	A	ND(5.1)	U1/B	ND(3.4)	A	ND(6.4)	U1/B
Barium	mg/kg	95.6	A	122	A	88.3	A	1490	A
Beryllium	mg/kg	ND(0.47)	U1/B	0.78	A/B	ND(0.51)	U1/B	1.7	A
Cadmium	mg/kg	0.8	A/B	ND(0.76)	A	ND(0.82)	A	ND(0.81)	A
Calcium	mg/kg	9620	A/E	13900	A/E	4030	A/E	10800	A/E
Chromium	mg/kg	319	A	269	A	560	A	283	A
Cobalt	mg/kg	33.7	A	43.9	A	76.2	A	45.8	A
Copper	mg/kg	50.7	A/E	209	A/E	54.1	A/E	182	A/E
Iron	mg/kg	30900	A	36000	A	43000	A	55300	A
Lead	mg/kg	901	A	102	A	NA		NA	
Magnesium	mg/kg	68000	A	80800	A	146000	A	55900	A
Manganese	mg/kg	572	A	685	A	1020	A	8490	A
Nickel	mg/kg	765	A	802	A	1450	A	536	A
Potassium	mg/kg	1010	J3/B	1090	J3/B	767	J3/B	3170	J3
Silver	mg/kg	0.61	A/B	0.31	A/B	0.26	A/B	1.5	A/B
Sodium	mg/kg	613	A/B	1170	A	2610	A	797	A/B
Vanadium	mg/kg	45.7	A/E	48.2	A/E	44.9	A/E	113	A/E
Zinc	mg/kg	156	A	139	A	45	A	121	A
Molybdenum	mg/kg	ND(2.4)	U1/B	ND(2.1)	U1	ND(2.1)	U1	ND(3.7)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8.2	A	9.9	A	8	A	8.3	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B014		IR07B014		IR07B015		IR07B015	
Sample Depth(feet):		21.75		31.25		1.75		3.75	
Sample Number:		9133H839		9133H840		9132H807		9132H808	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/12/91		08/12/91		08/08/91		08/08/91	
Lab Sample Number:		0598840005SA		0598840006SA		0597500014SA		0597500015SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.16	A	ND(0.12)	A	0.12	A/N	ND(0.11)	A/N
CLP-FUAA									
Arsenic	mg/kg	4.1	J3/N	2.8	J3/N	3.1	J3/N	3.9	J3/NS
Lead	mg/kg	9.3	A/S	4	A	92	A/S	17.1	A
Selenium	mg/kg	ND(0.68)	J3/N	ND(0.67)	J3/N	ND(0.65)	A	ND(0.65)	A/W
CLP-ICP									
Aluminum	mg/kg	19500	A	17000	A	13400	A	17400	A
Antimony	mg/kg	ND(7.5)	U1/B	ND(3.3)	A	ND(3.2)	J3/N	ND(5)	U1J3/NB
Barium	mg/kg	192	A	144	A	132	A	220	A
Beryllium	mg/kg	0.83	A/B	0.81	A/B	0.91	A/B	1.1	A/B
Cadmium	mg/kg	ND(0.8)	A	ND(0.79)	A	ND(0.77)	A	ND(0.76)	A
Calcium	mg/kg	9990	A/E	10900	A/E	11700	A/E	13000	A/E
Chromium	mg/kg	350	A	599	A	271	A/*	325	A/*
Cobalt	mg/kg	45.4	A	66.6	A	41	A	49.6	A
Copper	mg/kg	39.2	A/E	34.1	A/E	34.6	A	56.2	A
Iron	mg/kg	42400	A	43500	A	35600	A	51100	A
Lead	mg/kg	NA		NA		NA		NA	
Magnesium	mg/kg	74400	A	134000	A	74600	A	71300	A
Manganese	mg/kg	1030	A	1060	A	646	A	913	A
Nickel	mg/kg	747	A	1180	A	608	A	602	A
Potassium	mg/kg	971	J3/B	892	J3/B	1380	A	1820	A
Silver	mg/kg	0.21	A/B	0.42	A/B	0.43	A/B	0.55	A/B
Sodium	mg/kg	693	A/B	1610	A	977	A/B	1050	A/B
Vanadium	mg/kg	73.3	A/E	56.5	A/E	55.2	A/E	67.3	A/E
Zinc	mg/kg	61	A	47.9	A	72.2	A/E	64.2	A/E
Molybdenum	mg/kg	ND(3.7)	U1/B	ND(2.5)	U1/B	ND(1.4)	U1/B	ND(1.4)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.9	A	8	A	8.5	J5	8.4	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B015		IR07B015		IR07B015		IR07B015	
Sample Depth(feet):		6.75		11.25		16.75		21.25	
Sample Number:		9132H809		9132H810		9132H811		9132H812	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/08/91		08/08/91		08/08/91		08/08/91	
Lab Sample Number:		0597500016SA		0597500017SA		0597500018SA		0597500019SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.11)	A/N	ND(0.12)	A/N	ND(0.11)	A/N	0.2	A/N
CLP-FUAA									
Arsenic	mg/kg	2.7	J3/N	5.4	J3/NS	5.3	J3/NS	5.1	J3/NS
Lead	mg/kg	17.6	A	16.7	A/2	6.6	A	6.5	A
Selenium	mg/kg	ND(0.65)	A/W	ND(0.69)	A/W	ND(0.66)	A/W	ND(0.68)	A
CLP-ICP									
Aluminum	mg/kg	17500	A	17800	A	29900	A	21100	A
Antimony	mg/kg	ND(4.9)	U1J3/NB	ND(4.7)	U1J3/NB	ND(5.5)	U1J3/NB	ND(4.3)	U1J3/NB
Barium	mg/kg	163	A	119	A	223	A	147	A
Beryllium	mg/kg	1.1	A/B	0.92	A/B	1.5	A	1.1	A/B
Cadmium	mg/kg	ND(0.77)	A	ND(0.81)	A	ND(0.78)	A	ND(0.8)	A
Calcium	mg/kg	11100	A/E	7680	A/E	12600	A/E	7130	A/E
Chromium	mg/kg	357	A/*	359	A/*	312	A/*	361	A/*
Cobalt	mg/kg	49.4	A	48.8	A	44.8	A	46.4	A
Copper	mg/kg	76.4	A	43.4	A	46.2	A	40.5	A
Iron	mg/kg	44000	A	39700	A	42600	A	40200	A
Lead	mg/kg	NA		NA		NA		NA	
Magnesium	mg/kg	84600	A	93600	A	74700	A	71900	A
Manganese	mg/kg	940	A	670	A	993	A	658	A
Nickel	mg/kg	731	A	648	A	586	A	713	A
Potassium	mg/kg	1740	A	1370	A	3120	A	1150	A/B
Silver	mg/kg	0.66	A/B	0.59	A/B	0.99	A/B	0.59	A/B
Sodium	mg/kg	1650	A	2990	A	1890	A	2250	A
Vanadium	mg/kg	63.2	A/E	55.6	A/E	73.9	A/E	63.6	A/E
Zinc	mg/kg	66.6	A/E	60.4	A/E	87.3	A/E	62	A/E
Molybdenum	mg/kg	ND(2.5)	U1/B	ND(1.7)	U1/B	ND(1.7)	U1/B	ND(1.5)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8.6	J5	8.5	J5	8.3	J5	8.3	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B015		IR07B016		IR07B016		IR07B016	
Sample Depth(feet):		31.75		1.75		3.75		16.25	
Sample Number:		9132H813		9132H823		9132H824		9132H825	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/08/91		08/09/91		08/09/91		08/09/91	
Lab Sample Number:		0597500020SA		08094-09		08094-10		08094-11	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.12)	A/N	ND(0.16)	A/U	0.36	A	ND(0.15)	A/U
CLP-FUAA									
Arsenic	mg/kg	9.4	J3/NS	4.73	A	4.5	A	3.97	A
Lead	mg/kg	10.8	A	238.2	A	NA		NA	
Selenium	mg/kg	0.71	A/B	ND(0.61)	A/UN	ND(0.6)	A/UNW	ND(0.58)	A/UNW
CLP-ICP									
Aluminum	mg/kg	22700	A	21200.9	A	14323.1	A	17163.2	A
Antimony	mg/kg	ND(4.4)	U1J3/NB	ND(8.01)	U1/BN	ND(3.39)	U1/BN	ND(3.96)	U1/BN
Barium	mg/kg	186	A	219.01	A	278.47	A	281.96	A
Beryllium	mg/kg	1.3	A	1.08	A/B	0.85	A/B	0.82	A/B
Cadmium	mg/kg	ND(0.84)	A	ND(0.35)	A/U	ND(0.35)	A/U	ND(0.34)	A/U
Calcium	mg/kg	9420	A/E	5671.72	A	4664.6	A	6312.54	A
Chromium	mg/kg	501	A/*	297.02	A	163.28	A	267.18	A
Cobalt	mg/kg	73.7	A	38.59	A	24.87	A	38.32	A
Copper	mg/kg	113	A	32.42	A	50.63	A	226.14	A
Iron	mg/kg	48300	A	39939	A	28056.2	A	33027.8	A
Lead	mg/kg	NA		NA		467.97	A	4544.38	A
Magnesium	mg/kg	117000	A	40525.5	A	25082.4	A	54443.9	A
Manganese	mg/kg	1320	A	1066.47	A	650.93	A	579.09	A
Nickel	mg/kg	1100	A	471.1	A	295.15	A	530.26	A
Potassium	mg/kg	1570	A	937.71	A/B	788.39	A/B	823.22	A/B
Silver	mg/kg	0.87	A/B	ND(0.78)	A/UN	ND(0.77)	A/UN	ND(0.74)	A/UN
Sodium	mg/kg	907	A/B	271.42	A/B	374.11	A/B	208.1	A/B
Vanadium	mg/kg	75.4	A/E	70.8	A	60.53	A	58.09	A
Zinc	mg/kg	72.7	A/E	65.39	A	151.02	A	52.48	A
Molybdenum	mg/kg	ND(1.4)	U1/B	ND(0.82)	A/U	ND(0.81)	A/U	ND(0.79)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.6	J5	7.9	A	7.8	A	8	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B016		IR07B017		IR07B017		IR07B017
Sample Depth(feet):		21.25		1.75		3.75		6.75
Sample Number:		9132H826		9132H827		9132H828		9132H829
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/09/91		08/09/91		08/09/91		08/09/91
Lab Sample Number:		08094-12		08094-13		08094-14		08094-15
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	ND(0.17)	A/U	ND(0.16)	A/U	ND(0.16)	A/U	ND(0.17)	A/U
CLP-FUAA									
Arsenic	mg/kg	2.93	A	1.73	A/B	10.07	A/+	2.68	A/+
Lead	mg/kg	9.61	A/S	8.91	A/S	10.92	A	7.78	A/S
Selenium	mg/kg	ND(0.64)	A/UNW	ND(0.6)	A/UN	ND(0.6)	A/UNW	ND(0.64)	A/UNW
CLP-ICP									
Aluminum	mg/kg	22195.9	A	7539.81	A	19268	A	37298.1	A
Antimony	mg/kg	ND(4.35)	U1/BN	ND(3.96)	U1/BN	ND(4.33)	U1/BN	ND(7.35)	U1/BN
Barium	mg/kg	98.86	A	852.28	A	226.6	A	124.31	A
Beryllium	mg/kg	0.78	A/B	1.51	A	0.96	A/B	1.23	A
Cadmium	mg/kg	ND(0.37)	A/U	ND(0.35)	A/U	ND(0.34)	A/U	ND(0.37)	A/U
Calcium	mg/kg	5360.41	A	1198.76	A	5487.03	A	7268.29	A
Chromium	mg/kg	351.63	A	36.6	A	169.58	A	319.58	A
Cobalt	mg/kg	38.07	A	53.99	A	29.88	A	60.39	A
Copper	mg/kg	24.28	A	113.39	A	32.56	A	51.47	A
Iron	mg/kg	34977.6	A	39522	A	32383.8	A	46611.2	A
Lead	mg/kg	NA		NA		NA		NA	
Magnesium	mg/kg	60230.9	A	4641.03	A	36219.3	A	67067.4	A
Manganese	mg/kg	523.08	A	5057.04	A	674.39	A	1216.23	A
Nickel	mg/kg	654.71	A	65.83	A	332	A	585.47	A
Potassium	mg/kg	619.94	A/B	1182.89	A	1624.58	A	863.11	A/B
Silver	mg/kg	ND(0.81)	A/UN	ND(0.77)	U1/BN	ND(0.76)	A/UN	ND(0.81)	A/UN
Sodium	mg/kg	311.25	A/B	195.12	A/B	166.3	A/B	176.61	A/B
Vanadium	mg/kg	48.48	A	89.98	A	47.79	A	72.78	A
Zinc	mg/kg	50.5	A	38.01	A	62.58	A	73.31	A
Molybdenum	mg/kg	ND(0.86)	A/U	ND(0.81)	A/U	ND(0.8)	A/U	ND(0.86)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8	A	7.7	A	8	A	7.7	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B017		IR07B017		IR07B017		IR07B017
Sample Depth(feet):		11.25		16.25		21.25		31.25
Sample Number:		9132H830		9132H831		9132H832		9132H833
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/09/91		08/09/91		08/09/91		08/09/91
Lab Sample Number:		08094-16		08095-01		08095-02		08095-03
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.16)	A/U	ND(0.17)	J5/U	ND(0.17)	J5/U	0.47	J5
CLP-FUAA									
Arsenic	mg/kg	3.2	A	7.98	A/N	6.06	A/N	929.06	A/N
Lead	mg/kg	7.48	A/S	11.73	A	12.47	A	NA	
Selenium	mg/kg	ND(0.6)	A/UN	ND(0.63)	A/UNW	ND(0.63)	A/UNW	11.46	A/N
CLP-ICP									
Aluminum	mg/kg	13924.4	A	17884.8	A	25070.3	A	20604.8	A
Antimony	mg/kg	ND(6.5)	U1/BN	ND(3.2)	A/UN	ND(3.2)	A/UN	10.98	A/BN
Barium	mg/kg	95.63	A	178.47	A	80.92	A	701.63	A
Beryllium	mg/kg	0.82	A/B	0.99	A/B	0.85	A/B	1.03	A
Cadmium	mg/kg	ND(0.35)	A/U	ND(0.37)	A/U	ND(0.37)	A/U	0.75	A
Calcium	mg/kg	3444.9	A	3680.38	A	7105.4	A	4318.09	A
Chromium	mg/kg	308.28	A	198.86	A	253.22	A	218.89	A
Cobalt	mg/kg	41.45	A	26.72	A	34.4	A	45.09	A
Copper	mg/kg	16.21	A	42.9	A	33.6	A	2025.63	A
Iron	mg/kg	30873.2	A	37697.7	A	34862.5	A	44311.7	A
Lead	mg/kg	NA		NA		NA		217.03	A
Magnesium	mg/kg	19733.1	A	21933.7	A	47373.4	A	43032.6	A
Manganese	mg/kg	484.26	A	1217.05	A	758.46	A	560.69	A
Nickel	mg/kg	477.25	A	318.39	A	426.75	A	741.77	A
Potassium	mg/kg	606.55	A/B	721.2	A/B	702.02	A/B	690.08	A/B
Silver	mg/kg	ND(0.77)	A/UN	ND(0.8)	A/UN	ND(0.8)	A/UN	ND(2.09)	U1/BN
Sodium	mg/kg	138.68	A/B	219.67	A/B	161.84	A/B	841.07	A/B
Vanadium	mg/kg	56.57	A	73.94	A	61.82	A	67.06	A
Zinc	mg/kg	35.85	A	57.26	A	60.85	A	140.27	A
Molybdenum	mg/kg	ND(0.81)	A/U	ND(0.85)	A/UN	ND(0.85)	A/UN	ND(0.88)	A/UN
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.8	A	7.4	A	7.9	A	7.6	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B017		IR07B018		IR07B018		IR07B018
Sample Depth(feet):		40.75		1.25		2.75		5.25
Sample Number:		9132H834		9049G555		9049G556		9049G557
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/09/91		12/05/90		12/05/90		12/05/90
Lab Sample Number:		08095-04		9012058-01B		9012058-02B		9012058-03B
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	ND(0.17)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	11.96	A/N	ND(1)	A/U	2.1	A	1	A
Lead	mg/kg	4.85	A/S	NA		NA		NA	
Selenium	mg/kg	ND(0.65)	A/UNW	ND(0.5)	J3/NWU	ND(0.5)	J3/WU	ND(0.5)	J3/WU
CLP-ICP									
Aluminum	mg/kg	10048.4	A	550	A/*	2600	A/*	1700	A/*
Antimony	mg/kg	ND(3.3)	A/UN	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	19.22	A/B	ND(20)	A/U	92.1	A	ND(20)	A/U
Beryllium	mg/kg	0.4	A	ND(0.5)	J3/NU	ND(0.5)	J3/U	ND(0.5)	J3/U
Cadmium	mg/kg	ND(0.38)	A/U	4.5	A	2.6	A	4.8	A
Calcium	mg/kg	8099.17	A	ND(500)	A/U	1800	A	701	A
Chromium	mg/kg	815.27	A	88.1	A	33.4	A	78.7	A
Cobalt	mg/kg	82.21	A	76.4	J3/N	57.8	J3	77.1	J3
Copper	mg/kg	71.25	A	ND(2.5)	A/U	25.8	A	3.8	A
Iron	mg/kg	46016.3	A	33300	A	21200	A	35700	A
Lead	mg/kg	NA		ND(10)	J3/NU	ND(10)	J3/U	ND(10)	J3/U
Magnesium	mg/kg	115711	A	206000	A	121000	A	199000	A
Manganese	mg/kg	570	A	566	A	710	A	624	A
Nickel	mg/kg	2405.14	A	1800	A	1100	A	1900	A
Potassium	mg/kg	756.27	A/B	ND(500)	A/U	ND(500)	A/U	ND(500)	A/U
Silver	mg/kg	ND(0.82)	A/UN	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U
Sodium	mg/kg	1466.8	A	ND(500)	A/U	ND(500)	A/U	ND(500)	A/U
Vanadium	mg/kg	45.68	A	11.3	A	11.4	A	12.4	A
Zinc	mg/kg	37.69	A	24.9	A/*	26.7	A/*	34.4	A/*
Molybdenum	mg/kg	ND(0.88)	A/UN	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	J3	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8.6	A	7.4	J5	8.2	J5	8.8	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B018		IR07B018		IR07B018		IR07B018
Sample Depth(feet):		10.75		15.75		20.75		30.25
Sample Number:		9049G558		9049G559		9049G560		9049G561
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/05/90		12/05/90		12/05/90		12/05/90
Lab Sample Number:		9012058-04B		9012058-05B		9012058-06B		9012058-07B
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U	0.19	J5
CLP-FUAA									
Arsenic	mg/kg	ND(1)	A/WU	3.8	A/S	1.5	A	1.5	A/W
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	J3/WU	ND(0.5)	J3/WU	ND(0.5)	J3/WU	ND(0.5)	J3/WU
CLP-ICP									
Aluminum	mg/kg	1800	A/*	15100	A/*	15900	A/*	8300	A/*
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	ND(20)	A/U	71.7	A	128	A	47.6	A
Beryllium	mg/kg	ND(0.5)	J3/U	ND(0.5)	J3/U	ND(0.5)	J3/U	ND(0.5)	J3/U
Cadmium	mg/kg	2.4	A	5.6	A	5.5	A	4.9	A
Calcium	mg/kg	ND(500)	A/U	12200	A	4300	A	3400	A
Chromium	mg/kg	72.8	A	353	A	340	A	425	A
Cobalt	mg/kg	41	J3	37.4	J3	49.4	J3	47.3	J3
Copper	mg/kg	16.6	A	21	A	24.4	A	18.9	A
Iron	mg/kg	16800	A	38500	A	39800	A	34700	A
Lead	mg/kg	11	J3	ND(10)	J3/U	ND(10)	J3/U	ND(10)	J3/U
Magnesium	mg/kg	140000	A	103000	A	62800	A	157000	A
Manganese	mg/kg	284	A	864	A	1200	A	587	A
Nickel	mg/kg	1200	A	764	A	639	A	1200	A
Potassium	mg/kg	ND(500)	A/U	963	A	558	A	ND(500)	A/U
Silver	mg/kg	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U
Sodium	mg/kg	2100	A	3400	A	1300	A	697	A
Vanadium	mg/kg	11	A	43.3	A	56.7	A	31	A
Zinc	mg/kg	27.8	A/*	51.2	A/*	51.8	A/*	35	A/*
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.5	J5	7.1	J5	7.5	J5	8	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B018		IR07B018		IR07B022		IR07B022
Sample Depth(feet):		40.25		49.75		1.75		3.75
Sample Number:		9049G562		9049G563		9049H562		9049H563
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/05/90		12/05/90		12/05/90		12/05/90
Lab Sample Number:		9012058-08B		9012058-09B		9012059-05B		9012059-06B
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.63	J5	0.14	J5	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	55.8	A	ND(1)	A/WU	2.2	A/+	2.1	A/+
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	J3/WU	ND(0.5)	J3/WU	ND(0.5)	A/WU	ND(0.5)	A/WU
CLP-ICP									
Aluminum	mg/kg	8900	A/*	3000	A/*	5600	J2/*	7700	J2/*
Antimony	mg/kg	6.3	A	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	106	A	ND(20)	A/U	66.5	A/*	77.5	A/*
Beryllium	mg/kg	ND(0.5)	J3/U	ND(0.5)	J3/U	ND(0.5)	J3/NU	ND(0.5)	J3/NU
Cadmium	mg/kg	6.5	A	3.6	A	2.9	A/*	3.6	A/*
Calcium	mg/kg	2400	A	628	A	1100	A/*	2000	A/*
Chromium	mg/kg	777	A	379	A	85.6	A/*	165	A/*
Cobalt	mg/kg	57.1	J3	64.6	J3	19.4	A/*	31.4	A/*
Copper	mg/kg	897	A	25.4	A	118	A/*	16.3	A/*
Iron	mg/kg	41400	A	23300	A	15800	J2/*	23100	J2/*
Lead	mg/kg	37.8	J3	ND(10)	J3/U	11	J2/*	16.3	J2/*
Magnesium	mg/kg	116000	A	80000	A	5700	J2/*	25800	J2/*
Manganese	mg/kg	652	A	797	A	221	J2/*	312	J2/*
Nickel	mg/kg	1200	A	1200	A	129	J2/*	416	J2/*
Potassium	mg/kg	ND(500)	A/U	ND(500)	A/U	ND(500)	A/U	ND(500)	A/U
Silver	mg/kg	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U
Sodium	mg/kg	1700	A	4100	A	ND(500)	A/U	ND(500)	A/U
Vanadium	mg/kg	44.4	A	18.5	A	35.6	A/*	36.9	A/*
Zinc	mg/kg	55	A/*	21.3	A/*	50	J2/*	39.6	J2/*
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.8	J5	8.4	J5	7.25	J5	7.3	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B022		IR07B022		IR07B024		IR07B024
Sample Depth(feet):		6.75		11.25		2.25		3.75
Sample Number:		9049H564		9049H565		9049H554		9049H555
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/05/90		12/05/90		12/05/90		12/05/90
Lab Sample Number:		9012059-07B		9012059-08B		9012059-01B		9012059-02B
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.21	J5	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	2	A/+	ND(1)	A/WU	2.1	A/S	5.4	A/S
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/WU	ND(0.5)	A/U	ND(0.5)	A/U
CLP-ICP									
Aluminum	mg/kg	6500	J2/*	8700	J2/*	3900	J2/*	7400	J2/*
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	78.6	A/*	44.6	A/*	48.1	A/*	72.3	A/**
Beryllium	mg/kg	ND(0.5)	J3/NU	ND(0.5)	J3/NU	ND(0.5)	J3/NU	ND(0.5)	J3/NU
Cadmium	mg/kg	3.7	A/*	6.4	A/*	2.2	A/*	1.9	A/*
Calcium	mg/kg	8600	A/*	3600	A/*	1400	A/*	2600	A/*
Chromium	mg/kg	95.5	A/*	456	A/*	68.6	A/*	49	A/*
Cobalt	mg/kg	21.5	A/*	80.9	A/*	20.2	A/*	7.3	A/*
Copper	mg/kg	15.9	A/*	26.7	A/*	7.5	A/*	10.2	A/*
Iron	mg/kg	17800	J2/*	42500	J2/*	14200	J2/*	12800	J2/*
Lead	mg/kg	129	J2/*	11.1	J2/*	ND(10)	J2/U	19.3	J2/*
Magnesium	mg/kg	11500	J2/*	97500	J2/*	37200	J2/*	6300	J2/*
Manganese	mg/kg	518	J2/*	612	J2/*	306	J2/*	223	J2/*
Nickel	mg/kg	263	J2/*	1500	J2/*	228	J2/*	45.8	J2/*
Potassium	mg/kg	585	A	535	A	ND(500)	A/U	ND(500)	A/U
Silver	mg/kg	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U
Sodium	mg/kg	ND(500)	A/U	1400	A	ND(500)	A/U	591	A
Vanadium	mg/kg	29.9	A/*	37.6	A/*	25.1	A/*	26.9	A/*
Zinc	mg/kg	131	J2/*	48.3	J2/*	27	J2/*	28.5	J2/*
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	6.8	J5	7.65	J5	7.1	J5	6.8	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B024		IR07B024		IR07B025		IR07B025
Sample Depth(feet):		6.25		16.25		1.25		3.75
Sample Number:		9049H556		9049H557		9132H789		9132H790
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/05/90		12/05/90		08/07/91		08/07/91
Lab Sample Number:		9012059-03B		9012059-04B		0597210016SA		0597210017SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	ND(0.1)	J5/U	0.25	J5	ND(0.11)	A	ND(0.12)	A
CLP-FUAA									
Arsenic	mg/kg	2.8	A/S	1.6	A/W	ND(0.54)	A/W	6.7	A
Lead	mg/kg	NA		NA		5.2	A	41.2	A/S
Selenium	mg/kg	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.63)	J3	ND(0.67)	J3
CLP-ICP									
Aluminum	mg/kg	4100	J2/*	4100	J2/*	4140	A	21700	A
Antimony	mg/kg	ND(6)	A/U	6.8	A	ND(3.1)	J3/N	ND(3.3)	J3/N
Barium	mg/kg	51.3	A/*	31.2	A/*	14.7	A/B	243	A
Beryllium	mg/kg	ND(0.5)	J3/NU	ND(0.5)	J3/NU	0.28	A/B	1	A/B
Cadmium	mg/kg	2	A/*	8	A/*	ND(0.74)	A	ND(0.79)	A
Calcium	mg/kg	1900	A/*	2200	A/*	5810	J2/*E	3230	J2/*E
Chromium	mg/kg	52.3	A/*	154	A/*	460	J3/N	83.8	J3/N
Cobalt	mg/kg	8.6	A/*	197	A/*	101	A	20.5	A
Copper	mg/kg	8.9	A/*	27.9	A/*	10.5	A	34.6	A
Iron	mg/kg	10800	J2/*	55500	J2/*	48400	A	34200	A
Lead	mg/kg	ND(10)	J2/U	ND(10)	J2/U	NA		NA	
Magnesium	mg/kg	1600	J2/*	150000	J2/*	172000	A	9230	A
Manganese	mg/kg	217	J2/*	548	J2/*	967	A	560	A
Nickel	mg/kg	44.6	J2/*	3100	J2/*	1240	J3/N	99	J3/N
Potassium	mg/kg	518	A	ND(500)	A/U	ND(138)	U1/B	2030	A
Silver	mg/kg	ND(1)	J3/U	ND(1)	J3/U	0.65	A/B	0.4	A/B
Sodium	mg/kg	ND(500)	A/U	700	A	76.7	J3/B	493	J3/B
Vanadium	mg/kg	25.7	A/*	32.1	A/*	22.7	A/E	62.2	A/E
Zinc	mg/kg	19.1	J2/*	52.7	J2/*	37.8	A/E	84.8	A/E
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(0.91)	U1/B	ND(2.7)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	J3
EPA-9045									
pH	pH	6.8	J5	8.1	J5	8.3	A	7.5	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B025		IR07B025		IR07B025		IR07B025	
Sample Depth(feet):		6.25		11.25		16.25		21.25	
Sample Number:		9132H791		9132H792		9132H793		9132H794	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/07/91		08/07/91		08/07/91		08/07/91	
Lab Sample Number:		0597210018SA		0597210019SA		0597210020SA		0597500001SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.21	A	ND(0.12)	A	ND(0.16)	A	ND(0.12)	A/N
CLP-FUAA									
Arsenic	mg/kg	6.1	A	ND(0.6)	A	0.91	A/B	2.4	J3/NB
Lead	mg/kg	NA		0.72	A	NA		41.2	A
Selenium	mg/kg	ND(0.63)	J3	ND(0.69)	J3	ND(0.91)	J3/W	ND(0.72)	A
CLP-ICP									
Aluminum	mg/kg	15200	A	2020	A	5690	A	7900	A
Antimony	mg/kg	ND(3.1)	J3/N	ND(3.4)	J3/N	ND(4.5)	J3/N	ND(3.5)	J3/N
Barium	mg/kg	159	A	2.8	A/B	43.3	A/B	70.6	A
Beryllium	mg/kg	0.7	A/B	0.31	A/B	0.41	A/B	0.52	A/B
Cadmium	mg/kg	ND(0.74)	A	ND(0.82)	A	ND(1.1)	A	ND(0.85)	A
Calcium	mg/kg	8260	J2/*E	1020	J2/B*E	3260	J2/*E	28400	A/E
Chromium	mg/kg	68.8	J3/N	628	J3/N	653	J3/N	217	A/*
Cobalt	mg/kg	14	A	123	A	137	A	36.1	A
Copper	mg/kg	44.2	A	12.9	A	22	A	19.8	A
Iron	mg/kg	24500	A	53800	A	73400	A	26800	A
Lead	mg/kg	199	A	NA		132	A	NA	
Magnesium	mg/kg	7820	A	197000	A	131000	A	49700	A
Manganese	mg/kg	363	A	1010	A	986	A	585	A
Nickel	mg/kg	63.5	J3/N	2300	J3/N	2800	J3/N	640	A
Potassium	mg/kg	1980	A	ND(73.7)	A	1080	A/B	980	A/B
Silver	mg/kg	ND(0.37)	A	0.55	A/B	0.66	A/B	ND(0.42)	A
Sodium	mg/kg	242	J3/B	509	J3/B	1790	J3	1020	A/B
Vanadium	mg/kg	53.5	A/E	23.7	A/E	34.9	A/E	33	A/E
Zinc	mg/kg	113	A/E	33.8	A/E	106	A/E	62.7	A/E
Molybdenum	mg/kg	ND(1.8)	U1/B	ND(0.78)	A	ND(1.5)	U1/B	ND(0.89)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.5	A	8.1	A	8	A	11.4	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B025		IR07B030		IR07B030		IR07B030	
Sample Depth(feet):		31.25		2.25		4.25		6.25	
Sample Number:		9132H795		9133M144		9133M145		9133M146	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/07/91		08/13/91		08/13/91		08/13/91	
Lab Sample Number:		0597500002SA		08095-05		08095-06		08095-07	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.29	A/N	ND(0.16)	A/U	ND(0.16)	A/U	ND(0.15)	A/U
CLP-FUAA									
Arsenic	mg/kg	1.9	J3/NB	3.22	A/N	2.75	A/N	5.72	A/N
Lead	mg/kg	24.5	A	38.3	A/S	41.1	A/S	6.58	A
Selenium	mg/kg	ND(0.71)	A	ND(0.6)	A/UNW	ND(0.6)	A/UNW	ND(0.58)	A/UN
CLP-ICP									
Aluminum	mg/kg	7710	A	9299.26	A	12788.8	A	20702.4	A
Antimony	mg/kg	ND(3.5)	J3/N	ND(3)	A/UN	ND(3)	A/UN	3.8	A/BN
Barium	mg/kg	59.7	A	102.75	A	112.2	A	173.34	A
Beryllium	mg/kg	0.57	A/B	0.72	A/B	0.9	A/B	1.39	A
Cadmium	mg/kg	ND(0.84)	A	ND(0.35)	A/U	ND(0.35)	A/U	0.51	A/B
Calcium	mg/kg	5930	A/E	1893.05	A	2925.76	A	2847.37	A
Chromium	mg/kg	230	A/*	114.31	A	133.96	A	60.3	A
Cobalt	mg/kg	34.9	A	26.67	A	32.73	A	22.33	A
Copper	mg/kg	22.1	A	18.4	A	17.74	A	30.46	A
Iron	mg/kg	28600	A	21849.3	A	28030.4	A	30829.2	A
Lead	mg/kg	NA		NA		NA		NA	
Magnesium	mg/kg	58200	A	9025.31	A	6028.9	A	5552.83	A
Manganese	mg/kg	414	A	313.96	A	706.56	A	935.87	A
Nickel	mg/kg	632	A	237.47	A	242.94	A	63.4	A
Potassium	mg/kg	858	A/B	579.75	A/B	649.25	A/B	1647.63	A
Silver	mg/kg	ND(0.42)	A	ND(0.77)	A/UN	ND(0.77)	A/UN	ND(0.74)	A/UN
Sodium	mg/kg	763	A/B	124.44	A/B	274.32	A/B	1069.68	A/B
Vanadium	mg/kg	30.3	A/E	50.59	A	65.66	A	63.22	A
Zinc	mg/kg	58.3	A/E	64.06	A	61.52	A	55.65	A
Molybdenum	mg/kg	ND(0.86)	U1/B	ND(0.81)	A/UN	ND(0.81)	A/UN	ND(0.79)	A/UN
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	9.1	J5	7.2	A	8	A	8.6	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B030		IR07B030		IR07B030		IR07B030	
Sample Depth(feet):		11.25		16.25		21.25		31.25	
Sample Number:		9133M147		9133M148		9133M149		9133M150	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/13/91		08/13/91		08/13/91		08/13/91	
Lab Sample Number:		08095-08		08095-09		08095-10		08095-11	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.16)	A/U	ND(0.18)	A/U	ND(0.16)	A/U	ND(0.16)	A/U
CLP-FUAA									
Arsenic	mg/kg	1.14	A/BN	0.97	A/BN	ND(0.57)	A/UNW	4.6	A/N
Lead	mg/kg	10.65	A	26.28	A/S	8.19	A/S	5.85	A
Selenium	mg/kg	ND(0.62)	A/UN	ND(0.69)	A/UN	ND(0.62)	A/UNW	ND(0.63)	A/UNW
CLP-ICP									
Aluminum	mg/kg	11599.8	A	7071.48	A	5385.78	A	12588.8	A
Antimony	mg/kg	ND(3.1)	A/UN	ND(3.5)	A/UN	ND(3.1)	A/UN	ND(3.2)	A/UN
Barium	mg/kg	38.53	A/B	110.7	A	104.13	A	145.86	A
Beryllium	mg/kg	0.4	A/B	0.38	A/B	0.42	A/B	0.69	A/B
Cadmium	mg/kg	ND(0.36)	A/U	ND(0.4)	A/U	ND(0.36)	A/U	ND(0.36)	A/U
Calcium	mg/kg	3370.9	A	3292.81	A	3548.86	A	2696.72	A
Chromium	mg/kg	324.97	A	345.75	A	317.71	A	113.9	A
Cobalt	mg/kg	132.62	A	137.19	A	84.75	A	95.7	A
Copper	mg/kg	12.69	A	23.2	A	22.29	A	10.18	A
Iron	mg/kg	60281	A	57709.4	A	35678.5	A	24589.4	A
Lead	mg/kg	NA		NA		NA		NA	
Magnesium	mg/kg	127515	A	114811	A	67509.1	A	5371.94	A
Manganese	mg/kg	1142.86	A	1225.8	A	887.55	A	1408.45	A
Nickel	mg/kg	2629.46	A	3550.63	A	1524.18	A	245.23	A
Potassium	mg/kg	485.58	A/B	599.77	A/B	452.5	A/B	1139.51	A/B
Silver	mg/kg	ND(0.79)	A/UN	ND(0.88)	A/UN	ND(0.79)	A/UN	ND(0.8)	A/UN
Sodium	mg/kg	996.83	A/B	562.96	A/B	817.11	A/B	1308.97	A
Vanadium	mg/kg	42.44	A	36.39	A	29.94	A	54.64	A
Zinc	mg/kg	57.84	A	71.8	A	45.34	A	35.12	A
Molybdenum	mg/kg	ND(0.83)	A/UN	ND(0.93)	A/UN	ND(0.83)	A/UN	ND(0.84)	A/UN
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8.6	A	8.2	A	8.4	A	8.3	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B030		IR07B032		IR07B032		IR07B032	
Sample Depth(feet):		41.25		1.75		3.75		6.25	
Sample Number:		9133M151		9133H847		9133H848		9133H849	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/13/91		08/12/91		08/12/91		08/12/91	
Lab Sample Number:		08095-12		0598840013SA		0598840014SA		0598840015SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.17)	A/U	0.12	A	ND(0.11)	A	0.18	A
CLP-FUAA									
Arsenic	mg/kg	1.51	A/BN	3.3	J3/N	4.8	J3/N	7.3	J3/N+
Lead	mg/kg	6.76	A/S	14.2	A/S	115	A	30.5	A
Selenium	mg/kg	ND(0.65)	A/UNW	ND(0.67)	J3/N	ND(0.66)	J3/N	ND(3.4)	J3/NW
CLP-ICP									
Aluminum	mg/kg	18484.5	A	16800	A	14000	A	18900	A
Antimony	mg/kg	ND(3.3)	A/UN	ND(3.3)	A	44.1	A	ND(10.6)	U1/B
Barium	mg/kg	75.91	A	96.1	A	99.5	A	144	A
Beryllium	mg/kg	0.69	A	0.81	A/B	0.8	A/B	1.1	A/B
Cadmium	mg/kg	ND(0.38)	A/U	ND(0.79)	A	ND(0.78)	A	ND(0.79)	A
Calcium	mg/kg	3825.25	A	4500	A/E	8050	A/E	6750	A/E
Chromium	mg/kg	288.25	A	210	A	213	A	54	A
Cobalt	mg/kg	71.1	A	25.4	A	42.2	A	10.7	A
Copper	mg/kg	15.53	A	19.4	A/E	93	A/E	24.6	A/E
Iron	mg/kg	35437	A	36500	A	40500	A	26500	A
Lead	mg/kg	NA		NA		NA		NA	
Magnesium	mg/kg	16646.9	A	18600	A	45300	A	7560	A
Manganese	mg/kg	961.48	A	358	A	590	A	385	A
Nickel	mg/kg	792.91	A	299	A	446	A	48.4	A
Potassium	mg/kg	856.53	A/B	938	J3/B	771	J3/B	2400	J3
Silver	mg/kg	ND(0.82)	A/UN	0.14	A/B	0.14	A/B	ND(0.39)	A
Sodium	mg/kg	2083.7	A	740	A/B	771	A/B	324	A/B
Vanadium	mg/kg	39.6	A	80.6	A/E	70.5	A/E	56.3	A/E
Zinc	mg/kg	42.1	A	57.4	A	206	A	66.2	A
Molybdenum	mg/kg	ND(0.88)	A/UN	ND(3.4)	U1/B	ND(3.2)	U1/B	ND(2.5)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8	A	7.8	A	8.1	A	7.7	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B032		IR07B032		IR07B032		IR07B033	
Sample Depth(feet):		11.25		16.75		21.25		1.75	
Sample Number:		9133H850		9133H851		9133H852		9133H841	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/12/91		08/12/91		08/12/91		08/12/91	
Lab Sample Number:		0598840016SA		0598840017SA		0598840018SA		0598840007SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.38	A	0.46	A	0.23	A	ND(0.11)	A
CLP-FUAA									
Arsenic	mg/kg	5.1	J3/N	4.9	J3/NS	4.4	J3/N	0.59	J3/BN
Lead	mg/kg	NA		NA		NA		2.4	A/S
Selenium	mg/kg	ND(0.62)	J3/NW	ND(0.67)	J3/N	ND(0.71)	J3/NW	ND(0.63)	J3/N
CLP-ICP									
Aluminum	mg/kg	12500	A	11000	A	18800	A	2800	A
Antimony	mg/kg	ND(6)	U1	ND(4.7)	U1/B	ND(7.3)	U1/B	ND(3.1)	A
Barium	mg/kg	164	A	303	A	214	A	10.5	A/B
Beryllium	mg/kg	0.74	A/B	ND(0.49)	U1/B	0.85	A/B	ND(0.46)	U1/B
Cadmium	mg/kg	0.8	A/B	0.98	A/B	ND(0.83)	A	ND(0.75)	A
Calcium	mg/kg	9490	A/E	10700	A/E	4980	A/E	4090	A/E
Chromium	mg/kg	47.9	A	52.1	A	61.9	A	277	A
Cobalt	mg/kg	13.2	A	10.9	A/B	11.7	A/B	90.2	A
Copper	mg/kg	26.5	A/E	38	A/E	23.2	A/E	8.9	A/E
Iron	mg/kg	21000	A	16700	A	23000	A	44300	A
Lead	mg/kg	92	A	273	A	167	A	NA	
Magnesium	mg/kg	5320	A	3910	A	4400	A	162000	A
Manganese	mg/kg	475	A	291	A	284	A	974	A
Nickel	mg/kg	40.3	A	49	A	46.9	A	1250	A
Potassium	mg/kg	1780	J3	1180	J3	2920	J3	284	J3/B
Silver	mg/kg	ND(0.36)	A	ND(0.39)	A	ND(0.41)	A	0.18	A/B
Sodium	mg/kg	363	A/B	622	A/B	1570	A	1120	A
Vanadium	mg/kg	41.7	A/E	44.6	A/E	54.6	A/E	17.9	A/E
Zinc	mg/kg	88.6	A	216	A	131	A	36.8	A
Molybdenum	mg/kg	ND(2.4)	U1/B	ND(2.7)	U1/B	ND(2.2)	U1/B	ND(2.1)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8.2	A	8.3	A	8.3	A	8.1	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B033		IR07B033		IR07B033		IR07B033	
Sample Depth(feet):		4.25		6.75		11.75		21.25	
Sample Number:		9133H842		9133H843		9133H844		9133H845	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		08/12/91		08/12/91		08/12/91		08/12/91	
Lab Sample Number:		0598840008SA		0598840009SA		0598840010SA		0598840011SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.11)	A	ND(0.11)	A	0.13	A	ND(0.13)	A
CLP-FUAA									
Arsenic	mg/kg	5.9	J3/N	6.2	J3/NS	6.8	J3/N	2.8	J3/N
Lead	mg/kg	14.9	A/S	146	A	77.4	A	7.1	A
Selenium	mg/kg	ND(0.67)	J3/N	ND(0.66)	J3/N	ND(0.68)	J3/N	ND(0.73)	J3/N
CLP-ICP									
Aluminum	mg/kg	20200	A	17200	A	23500	A	9240	A
Antimony	mg/kg	ND(18.1)	U1	ND(3.3)	A	ND(3.3)	A	ND(3.6)	U1/B
Barium	mg/kg	89.3	A	139	A	648	A	72.8	A
Beryllium	mg/kg	1.2	A	0.79	A/B	1.2	A/B	ND(0.53)	U1/B
Cadmium	mg/kg	ND(0.78)	A	ND(0.78)	A	ND(0.8)	A	ND(0.86)	A
Calcium	mg/kg	11500	A/E	11900	A/E	11400	A/E	4860	A/E
Chromium	mg/kg	61.3	A	450	A	259	A	631	A
Cobalt	mg/kg	13.8	A	46.5	A	49.5	A	80.6	A
Copper	mg/kg	39.1	A/E	38	A/E	155	A/E	21.4	A/E
Iron	mg/kg	43600	A	40800	A	50100	A	46900	A
Lead	mg/kg	NA		NA		NA		NA	
Magnesium	mg/kg	17100	A	97200	A	53300	A	159000	A
Manganese	mg/kg	1010	A	709	A	5800	A	720	A
Nickel	mg/kg	84.5	A	837	A	565	A	1550	A
Potassium	mg/kg	1370	J3	977	J3	2200	J3	472	J3/B
Silver	mg/kg	0.53	A/B	0.07	A/B	1.2	A/B	0.13	A/B
Sodium	mg/kg	291	A/B	841	A/B	1370	A	543	A/B
Vanadium	mg/kg	49.7	A/E	55.1	A/E	97.4	A/E	45.2	A/E
Zinc	mg/kg	146	A	56.8	A	102	A	43.8	A
Molybdenum	mg/kg	ND(3.5)	U1/B	ND(2.9)	U1/B	ND(5.1)	U1	ND(1.8)	U1/B
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8.7	A	8.8	A	8.1	A	8	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B033		IR07B034		IR07B034		IR07B034
Sample Depth(feet):		31.25		1.75		3.75		6.25
Sample Number:		9133H846		9132H815		9132H816		9132H817
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/12/91		08/08/91		08/08/91		08/08/91
Lab Sample Number:		0598840012SA		08094-01		08094-02		08094-03
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.13)	A	ND(0.16)	A/U	ND(0.16)	A/U	ND(0.16)	A/U
CLP-FUAA									
Arsenic	mg/kg	9.1	J3/N	5.34	A	1.29	A/B	ND(0.57)	A/U
Lead	mg/kg	7.9	A	42.65	A	20.33	A	20.38	A/S
Selenium	mg/kg	ND(0.77)	J3/NW	ND(0.61)	A/UNW	ND(0.6)	A/UNW	ND(0.61)	A/UNW
CLP-ICP									
Aluminum	mg/kg	19300	A	10046	A	4860.42	A	2767.82	A
Antimony	mg/kg	ND(4.4)	U1/B	ND(3.29)	U1/BN	ND(3)	A/UN	ND(3.1)	A/UN
Barium	mg/kg	32.6	A/B	154.47	A	25.26	A/B	11.99	A/B
Beryllium	mg/kg	0.93	A/B	1.04	A/B	0.45	A/B	0.2	A/B
Cadmium	mg/kg	1	A/B	ND(0.35)	A/U	ND(0.35)	A/U	ND(0.35)	A/U
Calcium	mg/kg	11100	A/E	4345.05	A	2514.88	A	1692.1	A
Chromium	mg/kg	112	A	381.84	A	640.54	A	480.44	A
Cobalt	mg/kg	17.9	A	67.13	A	97.45	A	100.46	A
Copper	mg/kg	27.1	A/E	34.3	A	45.59	A	12.1	A
Iron	mg/kg	36900	A	38490.2	A	46493.1	A	45265.9	A
Lead	mg/kg	NA		NA		NA		NA	
Magnesium	mg/kg	18700	A	95849.3	A	156537	A	188075	A
Manganese	mg/kg	357	A	1040.25	A	851.52	A	984.96	A
Nickel	mg/kg	159	A	1072.8	A	2043.59	A	2173.37	A
Potassium	mg/kg	3550	J3	823.13	A/B	281.25	A/B	ND(173)	A/U
Silver	mg/kg	0.29	A/B	ND(0.78)	A/UN	ND(0.81)	U1/BN	ND(0.84)	U1/BN
Sodium	mg/kg	4680	A	255.09	A/B	164.24	A/B	1359.53	A
Vanadium	mg/kg	63.6	A/E	42.66	A	31.02	A	20.71	A
Zinc	mg/kg	65.1	A	73.72	A	49.54	A	38.18	A
Molybdenum	mg/kg	ND(4.3)	U1/B	ND(0.82)	A/U	ND(0.81)	A/U	ND(0.83)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8.6	A	7.6	A	7.5	A	7.5	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07B034		IR07B034		IR07B034		IR07B034
Sample Depth(feet):		11.25		16.25		20.75		31.75
Sample Number:		9132H818		9132H819		9132H820		9132H821
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		08/08/91		08/08/91		08/08/91		08/08/91
Lab Sample Number:		08094-04		08094-05		08094-06		08094-07
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.17)	A/U	ND(0.18)	A/U	ND(0.17)	A/U	ND(0.17)	A/U
CLP-FUAA									
Arsenic	mg/kg	1.11	A/B	0.97	A/B	1.44	A/B	3.39	A
Lead	mg/kg	23.9	A/S	2.9	A/S	6.36	A	18.31	A
Selenium	mg/kg	ND(0.66)	A/UNW	ND(0.67)	A/UN	ND(0.63)	A/UN	ND(0.64)	A/UNW
CLP-ICP									
Aluminum	mg/kg	3538.97	A	1375.35	A	4892.81	A	14817.9	A
Antimony	mg/kg	ND(3.3)	A/UN	ND(3.4)	A/UN	ND(5.04)	U1/BN	ND(3.45)	U1/BN
Barium	mg/kg	472.4	A	8.47	A/B	275.85	A	151.07	A
Beryllium	mg/kg	0.27	A/B	0.26	A/B	0.75	A/B	0.86	A/B
Cadmium	mg/kg	ND(0.38)	A/U	ND(0.38)	A/U	ND(0.37)	A/U	ND(0.37)	A/U
Calcium	mg/kg	503.97	A/B	372.04	A/B	316.01	A/B	3922.31	A
Chromium	mg/kg	105.1	A	83.43	A	41.86	A	185.28	A
Cobalt	mg/kg	72.06	A	102.46	A	18.1	A	33.06	A
Copper	mg/kg	23.37	A	2.69	A/B	52.94	A	37.72	A
Iron	mg/kg	37395.3	A	32301.5	A	31964.2	A	29499.3	A
Lead	mg/kg	NA		NA		NA		NA	
Magnesium	mg/kg	138656	A	110464	A	17960.5	A	30342.8	A
Manganese	mg/kg	1115.47	A	1456.4	A	865.64	A	400.51	A
Nickel	mg/kg	1711.95	A	1914.2	A	208.33	A	310.86	A
Potassium	mg/kg	980.16	A/B	441.21	A/B	1731.55	A	1203.14	A/B
Silver	mg/kg	ND(0.84)	A/UN	ND(0.85)	A/UN	ND(0.8)	A/UN	ND(0.81)	A/UN
Sodium	mg/kg	3191.7	A	3657.46	A	3341.74	A	1011.53	A/B
Vanadium	mg/kg	20.04	A	24.14	A	54.8	A	61.54	A
Zinc	mg/kg	105.18	A	23	A	13.87	A	54.96	A
Molybdenum	mg/kg	ND(0.89)	A/U	ND(0.9)	A/U	ND(0.85)	A/U	ND(0.86)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7	A	7.4	A	6.7	A	7.3	A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:	IR07B034		IR07MW19A		IR07MW19A		IR07MW19A	
Sample Depth(feet):	41.25		0.75		2.75		5.25	
Sample Number:	9132H822		9049G564		9049G565		9049G566	
Matrix:	SOIL		SOIL		SOIL		SOIL	
Sample Date:	08/08/91		12/06/90		12/06/90		12/06/90	
Lab Sample Number:	08094-08		9012066-01B		9012066-02B		9012066-03B	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	ND(0.18)	A/U	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	1.93	A/B	2.1	J3/W	2.1	J3/NW	1.7	J3/W
Lead	mg/kg	16.73	A/+	NA		NA		NA	
Selenium	mg/kg	ND(0.69)	A/UNW	ND(0.5)	A/WU	ND(0.5)	A/U	ND(0.5)	A/WU
CLP-ICP									
Aluminum	mg/kg	28419.5	A	12000	A/*	14000	A/*	16700	A/*
Antimony	mg/kg	ND(7.13)	U1/BN	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	261.04	A	103	A/*	116	A/*	162	A/*
Beryllium	mg/kg	0.89	A/B	0.6	A	ND(0.5)	A/U	ND(0.5)	A/U
Cadmium	mg/kg	ND(0.4)	A/U	5.2	A	4.5	A	4.8	A
Calcium	mg/kg	9519.52	A	5250	A	4770	A	7570	A
Chromium	mg/kg	440.92	A	391	J3	187	J3	286	J3
Cobalt	mg/kg	80.14	A	57.3	J2/*	35.9	J2/*	41.3	J2/*
Copper	mg/kg	37.26	A	50.8	A	24.2	A	74.9	A
Iron	mg/kg	39605.2	A	39200	A	29600	A	36200	A
Lead	mg/kg	NA		25.8	A	18.3	A	22.1	A
Magnesium	mg/kg	121429	A	76600	A/*	64900	A/*	75400	A/*
Manganese	mg/kg	1172.5	A	661	A	494	A	833	A
Nickel	mg/kg	984.02	A	1058	J2/*	562	J2/*	651	J2/*
Potassium	mg/kg	336.93	A/B	797	A/*	975	A/*	1270	A/*
Silver	mg/kg	ND(0.88)	A/UN	2.3	A	ND(1)	A/U	ND(1)	A/U
Sodium	mg/kg	1285.23	A/B	ND(500)	A/U	897	A	ND(500)	A/U
Vanadium	mg/kg	59.2	A	45.6	A	33.7	A	45.9	A
Zinc	mg/kg	65.76	A	50	A	47.5	A	62	A
Molybdenum	mg/kg	ND(0.93)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.6	A	7.3	J5	7.35	J5	7.1	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW19A		IR07MW19A		IR07MW19A		IR07MW19A
Sample Depth(feet):		10.25		15.25		20.25		29.75
Sample Number:		9049G567		9049G568		9049G569		9049G570
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/06/90		12/06/90		12/06/90		12/06/90
Lab Sample Number:		9012066-04B		9012066-05B		9012066-06B		9012066-07B
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	ND(1)	J3/WU	2.5	J3	8	J3	15.6	J3
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	A/WU
CLP-ICP									
Aluminum	mg/kg	2840	A/*	7890	A/*	36700	A/*	15900	A/*
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	111	A/*	45.7	A/*	99	A/*	145	A/*
Beryllium	mg/kg	0.5	A	0.5	A	ND(0.5)	A/U	ND(0.5)	A/U
Cadmium	mg/kg	5.5	A	4.7	A	6.7	A	4.5	A
Calcium	mg/kg	ND(500)	A/U	1920	A	8280	A	3510	A
Chromium	mg/kg	51.4	J3	508	J3	305	J3	90.8	J3
Cobalt	mg/kg	84.4	J2/*	48.3	J2/*	35.5	J2/*	18.6	J2/*
Copper	mg/kg	28.3	A	20.6	A	42.7	A	27.5	A
Iron	mg/kg	37100	A	36900	A	51600	A	32900	A
Lead	mg/kg	11.2	A	16.2	A	33.4	A	23.7	A
Magnesium	mg/kg	83700	A/*	79100	A/*	70200	A/*	13200	A/*
Manganese	mg/kg	1090	A	557	A	783	A	473	A
Nickel	mg/kg	1200	J2/*	1090	J2/*	482	J2/*	152	J2/*
Potassium	mg/kg	899	A/*	667	A/*	1570	A/*	1820	A/*
Silver	mg/kg	1.4	A	ND(1)	A/U	ND(1)	A/U	ND(1)	A/U
Sodium	mg/kg	2820	A	824	A	ND(500)	A/U	1080	A
Vanadium	mg/kg	41.7	A	50.9	A	80.5	A	45.4	A
Zinc	mg/kg	40.5	A	38.1	A	75.9	A	66	A
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	R2	NA	
EPA-9045									
pH	pH	7.15	J5	7.35	J5	7.05	J5	7	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW19A		IR07MW19A		IR07MW20A2		IR07MW20A2	
Sample Depth(feet):		40.25		49.75		1.25		2.75	
Sample Number:		9049G571		9049G572		9049G575		9049G576	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/06/90		12/06/90		12/07/90		12/07/90	
Lab Sample Number:		9012066-08B		9012066-09B		9012068-01C		9012068-02C	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	1.5	J3	5.4	J3	ND(1)	J3/U	ND(1)	J3/U
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/WU	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U
CLP-ICP									
Aluminum	mg/kg	10800	A/*	6580	A/*	6900	A	2640	A
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	66.9	A/*	65.8	A/*	75.9	A/*	ND(20)	A/U
Beryllium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U
Cadmium	mg/kg	4.3	A	2.4	A	7	A	4.3	A
Calcium	mg/kg	2770	A	3320	A	2420	J2/*	727	J2/*
Chromium	mg/kg	491	J3	207	J3	613	J23/*	161	J23/*
Cobalt	mg/kg	58	J2/*	27.3	J2/*	89.2	A	88.6	A
Copper	mg/kg	116	A	29	A	21.3	A	6	A
Iron	mg/kg	35400	A	18900	A	48900	A	29900	A
Lead	mg/kg	19	A	10.7	A	43.6	A	11.5	A
Magnesium	mg/kg	82600	A/*	50300	A/*	136000	A	165000	A
Manganese	mg/kg	525	A	380	A	1110	J2/*	583	J2/*
Nickel	mg/kg	1120	J2/*	460	J2/*	1640	A/*	1770	A/*
Potassium	mg/kg	761	A/*	956	A/*	703	A	ND(500)	A/U
Silver	mg/kg	ND(1)	A/U	ND(1)	A/U	ND(1)	A/U	ND(1.1)	U1
Sodium	mg/kg	996	A	1420	A	ND(500)	A/U	ND(500)	A/U
Vanadium	mg/kg	39.3	A	28.6	A	33.9	A	24.2	A
Zinc	mg/kg	45.1	A	27.1	A	67.7	A	31.5	A
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	NA		ND(50)	A	ND(50)	J3
EPA-9045									
pH	pH	7.75	J5	7.95	J5	8.15	J5	7.35	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW20A2		IR07MW20A2		IR07MW20A2		IR07MW20A2	
Sample Depth(feet):		5.25		10.25		15.25		20.25	
Sample Number:		9049G577		9049G578		9049G579		9049G580	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/07/90		12/07/90		12/07/90		12/07/90	
Lab Sample Number:		9012068-03C		9012068-04C		9012068-05B		9012068-06B	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.1)	J5/U	ND(0.1)	J5/U	0.17	J5	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	ND(1)	J3/U	ND(1)	J3/U	1.6	J3/W	ND(1)	J3/U
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/WU	ND(0.5)	A/WU	0.5	A/W
CLP-ICP									
Aluminum	mg/kg	7910	A	4860	A	3670	A	508	A
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	44.6	A/*	34.3	A/*	194	A/*	ND(20)	A/U
Beryllium	mg/kg	0.5	A	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U
Cadmium	mg/kg	7.8	A	6.4	A	2.3	A	4.2	A
Calcium	mg/kg	2300	J2/*	1750	J2/*	1280	J2/*	ND(500)	J2/U
Chromium	mg/kg	723	J23/*	182	J23/*	70.6	J23/*	131	J23/*
Cobalt	mg/kg	93.5	A	116	A	36.3	A	53.8	A
Copper	mg/kg	18.2	A	10.5	A	25	A	3	A
Iron	mg/kg	49800	A	42600	A	16000	A	29600	A
Lead	mg/kg	84.5	A	26	A	12.7	A	10.1	A
Magnesium	mg/kg	157000	A	129000	A	38700	A	183000	A
Manganese	mg/kg	733	J2/*	757	J2/*	847	J2/*	345	J2/*
Nickel	mg/kg	1770	A/*	2030	A/*	553	A/*	1710	A/*
Potassium	mg/kg	857	A	1480	A	1240	A	596	A
Silver	mg/kg	ND(1)	A/U	ND(1)	A/U	ND(1)	A/U	ND(1)	A/U
Sodium	mg/kg	ND(500)	A/U	6060	A	2760	A	3510	A
Vanadium	mg/kg	39.6	A	26	A	21.1	A	11.1	A
Zinc	mg/kg	67.3	A	62.1	A	23.6	A	31.1	A
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.2	J5	7.3	J5	8.05	J5	7	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW20A2		IR07MW20A2		IR07MW21A2		IR07MW21A2
Sample Depth(feet):		30.75		40.75		0.62		2.62
Sample Number:		9049G581		9049G582		9049G547		9049G548
Matrix:		SOIL		SOIL		SOIL		SOIL
Sample Date:		12/07/90		12/07/90		12/04/90		12/04/90
Lab Sample Number:		9012068-07B		9012068-08B		9012041-02C		9012041-03C
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	0.2	J5	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	1.7	J3	ND(1)	J3/U	ND(1)	A/U	ND(1)	A/WU
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	A/WU
CLP-ICP									
Aluminum	mg/kg	15100	A	5860	A	1500	A/*	3600	A/*
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	131	A/*	44	A/*	ND(20)	A/U	25.6	A
Beryllium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U
Cadmium	mg/kg	4.5	A	5.5	A	3.7	J3	5.8	J3
Calcium	mg/kg	8340	J2/*	1420	J2/*	4200	A	6400	A
Chromium	mg/kg	477	J23/*	535	J23/*	210	A	1300	A
Cobalt	mg/kg	54.1	A	77.5	A	80.2	J3/N	84	J3/N
Copper	mg/kg	24.4	A	25.4	A	14.8	J3/N*	16.4	J3/N*
Iron	mg/kg	34200	A	42100	A	28200	A	46000	A
Lead	mg/kg	21.5	A	18.5	A	ND(6)	J3/U	83	J3
Magnesium	mg/kg	126000	A	153000	A	189100	A	228500	A
Manganese	mg/kg	579	J2/*	931	J2/*	873	A/N	753	A
Nickel	mg/kg	917	A/*	1440	A/*	1300	A/N	2000	A
Potassium	mg/kg	994	A	548	A	ND(500)	A/U	ND(500)	A/U
Silver	mg/kg	ND(1)	A/U	ND(1)	A/U	ND(1)	A/U	ND(1)	A/U
Sodium	mg/kg	2450	A	902	A	ND(500)	A/U	ND(500)	A/U
Vanadium	mg/kg	41.5	A	22.7	A	13.5	A	26.3	A
Zinc	mg/kg	44.7	A	41.4	A	26.6	A	68.7	A
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	J3	ND(50)	A
EPA-9045									
pH	pH	7.4	A	7.95	J5	8	J5	8.55	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW21A2		IR07MW21A2		IR07MW21A2		IR07MW21A2	
Sample Depth(feet):		5.62		10.12		15.12		19.62	
Sample Number:		9049G549		9049G550		9049G551		9049G552	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/04/90		12/04/90		12/04/90		12/04/90	
Lab Sample Number:		9012041-04C		9012041-05C		9012041-06B		9012041-07B	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	0.63	J5	0.16	J5	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	7.1	A	3.3	A	ND(1)	A/WU	ND(1)	A/WU
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/WU	ND(0.5)	A/WU	0.7	A	ND(0.5)	A/U
CLP-ICP									
Aluminum	mg/kg	10400	A/*	5200	A/*	2400	A/*	1800	A/*
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	177	A	30.1	A	ND(20)	A/U	ND(20)	A/U
Beryllium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U
Cadmium	mg/kg	5	J3	5.4	J3	7.4	J3	5.8	J3
Calcium	mg/kg	6300	A	3000	A	1900	A	1500	A
Chromium	mg/kg	59.9	A	302	A	529	A	617	A
Cobalt	mg/kg	17.2	J3/N	53.6	J3/N	73.8	J3/N	56.3	J3/N
Copper	mg/kg	28.6	J3/N*	13.3	J3/N*	10.4	J3/N*	8.8	J3/N*
Iron	mg/kg	22100	A	30200	A	50000	A	41600	A
Lead	mg/kg	122	J3	21.7	J3	ND(6)	J3/U	ND(6)	J3/U
Magnesium	mg/kg	11100	A	109100	A	158000	A	162000	A
Manganese	mg/kg	406	A	517	A	573	A	516	A
Nickel	mg/kg	170	A	1200	A	2100	A	1800	A
Potassium	mg/kg	900	A	ND(500)	A/U	ND(500)	A/U	ND(500)	A/U
Silver	mg/kg	ND(1)	A/U	ND(1)	A/U	ND(1)	A/U	ND(1)	A/U
Sodium	mg/kg	ND(500)	A/U	ND(500)	A/U	ND(500)	A/U	1200	A
Vanadium	mg/kg	28.3	A	23.3	A	21	A	19.2	A
Zinc	mg/kg	126	A	42.1	A	35.4	A	25.9	A
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	7.95	J5	8.5	J5	8.7	J5	7.95	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW21A2		IR07MW21A2		IR07MW23A		IR07MW23A	
Sample Depth(feet):		30.62		35.62		1.75		3.75	
Sample Number:		9049G553		9049G554		9049H572		9049H573	
Matrix:		SOIL		SOIL		SOIL		SOIL	
Sample Date:		12/04/90		12/04/90		12/06/90		12/06/90	
Lab Sample Number:		9012041-08B		9012041-09B		9012069-01B		9012069-02B	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-CVAA									
Mercury	mg/kg	ND(0.1)	J5/U	ND(0.1)	J5/U	0.23	J5	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	1.4	A/W	7.4	A	3.5	A	ND(1)	A/U
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/WU
CLP-ICP									
Aluminum	mg/kg	5700	A/*	11900	A/*	8750	A	12000	A
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U
Barium	mg/kg	65	A	20	A	91.8	A	89.9	A
Beryllium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U
Cadmium	mg/kg	2.3	J3	3.8	J3	ND(0.5)	A/U	ND(0.5)	A/U
Calcium	mg/kg	6900	A	2000	A	20400	J2/*	5146	J2/*
Chromium	mg/kg	52.8	A	60.4	A	230	J2/*	381	J2/*
Cobalt	mg/kg	13.1	J3/N	10.5	J3/N	22.8	A/*	53.3	A/*
Copper	mg/kg	27.1	J3/N*	23.9	J3/N*	18.5	A	24.9	A
Iron	mg/kg	13700	A	24100	A	20700	A	35800	A
Lead	mg/kg	109	J3	ND(6)	J3/U	45.5	A/*	15.1	A/*
Magnesium	mg/kg	12600	A	9500	A	49400	J2/*	119100	J2/*
Manganese	mg/kg	289	A	190	A	528	A/*	653	A/*
Nickel	mg/kg	131	A	50.8	A	398	J23/N*	1180	J23/N*
Potassium	mg/kg	575	A	2500	A	998	A	670	A
Silver	mg/kg	ND(1)	A/U	ND(1)	A/U	1.6	J3/*	ND(1)	J3/*U
Sodium	mg/kg	1100	A	3400	A	ND(500)	A/U	738	A
Vanadium	mg/kg	26.2	A	37.4	A	32.7	A	53.1	A
Zinc	mg/kg	93.7	A	50.4	A	73.6	A	57.1	A
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045									
pH	pH	8.45	J5	8.75	J5	7.7	J5	7.5	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:	IR07MW23A		IR07MW23A		IR07MW23A		IR07SS26	
Sample Depth(feet):	6.25		11.25		15.25		0.00	
Sample Number:	9049H574		9049H575		9049H576		9049N240	
Matrix:	SOIL		SOIL		SOIL		SOIL	
Sample Date:	12/06/90		12/06/90		12/06/90		12/07/90	
Lab Sample Number:	9012069-03B		9012069-04B		9012069-05B		9012072-04B	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA									
Mercury	mg/kg	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA									
Arsenic	mg/kg	2.9	A	ND(1)	A/U	ND(1)	A/U	4.5	J3/N*
Lead	mg/kg	NA		NA		NA		NA	
Selenium	mg/kg	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	A/WU	ND(0.5)	J3/NU
CLP-ICP									
Aluminum	mg/kg	12600	A	1354	A	5134	A	3000	A/*
Antimony	mg/kg	ND(6)	A/U	ND(6)	A/U	ND(6)	A/U	ND(6)	J3/U
Barium	mg/kg	211	A	ND(20)	A/U	24.9	A	ND(20)	A/U
Beryllium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U
Cadmium	mg/kg	ND(0.5)	A/U	0.5	A	ND(0.5)	A/U	ND(0.5)	A/U
Calcium	mg/kg	13600	J2/*	797	J2/*	2386	J2/*	17400	J2/*
Chromium	mg/kg	39.1	J2/*	115	J2/*	286	J2/*	143	J23/*
Cobalt	mg/kg	9.6	A/*	85.4	A/*	106	A/*	11	A/*
Copper	mg/kg	22	A	ND(2.5)	A/U	11.8	A	66.8	J2/N*
Iron	mg/kg	22300	A	31400	A	45800	A	12900	A
Lead	mg/kg	120	A/*	ND(10)	A/*U	18.5	A/*	120	J3/N*
Magnesium	mg/kg	5944	J2/*	195700	J2/*	143600	J2/*	30300	J2/*
Manganese	mg/kg	375	A/*	566	A/*	783	A/*	192	J23/N
Nickel	mg/kg	45	J23/N*	1456	J23/N*	1994	J23/*	254	J23/N*
Potassium	mg/kg	1797	A	ND(500)	A/U	530	A	ND(500)	A/U
Silver	mg/kg	ND(1)	J3/*U	ND(1)	J3/*U	ND(1)	J3/*U	ND(1)	J3/U
Sodium	mg/kg	627	A	ND(500)	A/U	ND(500)	A/U	1240	A
Vanadium	mg/kg	35.7	A	12.8	A	30.5	A	16.5	A
Zinc	mg/kg	90.9	A	30.4	A	62	A	148	A
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196									
Chromium VI	ug/kg	ND(50)	A	ND(50)	R2	NA		ND(50)	A
EPA-9045									
pH	pH	8.8	J5	8.2	J5	8	J5	8.45	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-2
Analytical Results for Inorganic Compounds Detected in Soil Samples
and Intertidal Sediment Samples, Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07SS27		IR07SS28		IR07SS29	
Sample Depth(feet):		0.00		0.00		0.00	
Sample Number:		9049N239		9049N238		9049N237	
Matrix:		SOIL		SOIL		SOIL	
Sample Date:		12/07/90		12/07/90		12/07/90	
Lab Sample Number:		9012072-03B		9012072-02B		9012072-01B	
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-CVAA							
Mercury	mg/kg	0.33	J5	ND(0.1)	J5/U	ND(0.1)	J5/U
CLP-FUAA							
Arsenic	mg/kg	8.6	J3/N*	3	J3/N*	1.1	J3/NW*
Lead	mg/kg	NA		NA		NA	
Selenium	mg/kg	ND(0.5)	J3/NU	1	J3/NW*	ND(0.5)	J3/NW*U
CLP-ICP							
Aluminum	mg/kg	7650	A/*	3970	A/*	5490	A/*
Antimony	mg/kg	10.4	J3	ND(6)	J3/U	ND(6)	J3/U
Barium	mg/kg	548	A/*	43.7	A/*	ND(20)	A/U
Beryllium	mg/kg	ND(0.5)	A/U	ND(0.5)	A/U	ND(0.5)	A/U
Cadmium	mg/kg	1	A	ND(0.5)	A/U	ND(0.5)	A/U
Calcium	mg/kg	5650	J2/*	14300	J2/*	1870	J2/*
Chromium	mg/kg	282	J23/*	44.7	J23/*	1190	J23/*
Cobalt	mg/kg	36	A/*	5.1	A/*	94.5	A/*
Copper	mg/kg	363	J2/N*	192	J2/N*	35.6	J2/N*
Iron	mg/kg	75300	A	13100	A	39800	A
Lead	mg/kg	1300	J3/N*	44.1	J3/N*	22.3	J3/N*
Magnesium	mg/kg	83300	J2/*	7200	J2/*	185000	J2/*
Manganese	mg/kg	699	J23/N	261	J23/N	765	J23/N
Nickel	mg/kg	733	J23/N*	51	J23/N*	1830	J23/N*
Potassium	mg/kg	1200	A	617	A	716	A
Silver	mg/kg	ND(1)	J3/U	ND(1)	J3/U	ND(1)	J3/U
Sodium	mg/kg	3510	A	1970	A	3940	A
Vanadium	mg/kg	35.4	A	14.9	A	37.3	A
Zinc	mg/kg	1560	A	98.7	A	70.5	A
Molybdenum	mg/kg	ND(10)	A/U	ND(10)	A/U	ND(10)	A/U
EPA-7196							
Chromium VI	ug/kg	ND(50)	A	ND(50)	A	ND(50)	A
EPA-9045							
pH	pH	7.1	J5	7.8	J5	7.1	J5

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Validation Assigned Qualifiers

A: Data is acceptable based on a review of laboratory and field QC samples and holding times as discussed in the text.

J2: Analytical results for this compound are qualified as estimated due to laboratory matrix duplicate quality control criteria exceedances.

J3: Analytical results for this compound are qualified as estimated due to poor spike recoveries.

J4: Analytical results for this compound are qualified as estimated due to ICP-serial dilution relative percent difference quality control criteria exceedances.

J5: Analytical results for this compound are qualified as estimated due to holding time exceedances.

J6: Analytical results for this compound are qualified as estimated due to field duplicate quality control criteria exceedances.

R1: Analytical results for this compound are qualified as rejected due to holding time exceedances.

R2: Analytical results for this compound are qualified as rejected due to poor spike recoveries.

U1: Compound is qualified as non-detected due to its occurrence in the laboratory blanks.

U2: Compound is qualified as non-detected due to its occurrence in the field blanks.

V: Sample has undergone full CLP validation.

Laboratory Assigned Qualifiers

B: Reported value is less than the CRDL and greater than or equal to the instrument detection limit.

E: The serial dilution analysis did not meet the contractual requirement of +/- 10% (SOW 7/87 E-12)

G: Reporting limit raised due to matrix interference.

N: Spiked sample recovery not within control limits.

O,R: Reporting limit raised due to high level of analyte present in sample.

S: The reported value was determined by the Method of Standard Additions (MSA).

U: Compound was analyzed but not detected.

W: Post-digestion spike for furnace AA analysis is outside of control limits.

*: Duplicate analysis not within control limits.

+: Correlation coefficient for the MSA is less than 0.995.

Table E-3
Analytical Results for Organic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW19A		IR07MW19A		IR07MW19A		IR07MW20A1
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9050X005		9131X173		9131X174		9050X007
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		12/12/90		07/30/91		07/30/91		12/13/90
Lab Sample Number:		9012113-04A		0595990007SA		0595990008SA		9012124-01A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
1,1,1-Trichloroethane	ug/l	ND(5)	R1/U	ND(5)	A	ND(5)	A	ND(5)	R1/U
Vinyl acetate	ug/l	ND(10)	R1/U	ND(10)	A	ND(10)	A	ND(10)	R1/U
2-Hexanone	ug/l	ND(10)	R1/U	ND(10)	A	ND(10)	A	ND(10)	R1/U
Toluene	ug/l	ND(5)	R1/U	ND(5)	A	ND(5)	A	ND(5)	R1/U
1,1,2,2-Tetrachloroethane	ug/l	ND(5)	R1/U	ND(5)	A	ND(5)	A	ND(5)	R1/U

Notes: Units expressed as nanograms (ng), micrograms (ug), or milligrams (mg) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-3
Analytical Results for Organic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW20A1		IR07MW20A1		IR07MW20A2		IR07MW20A2
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9130X156		9130X157		9050X008		9050X009
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		07/25/91		07/25/91		12/13/90		12/13/90
Lab Sample Number:		0595330002SA		0595330003SA		9012124-04A		9012124-05A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
1,1,1-Trichloroethane	ug/l	ND(5)	A	ND(5)	A	ND(5)	R1/U	ND(5)	R1/U
Vinyl acetate	ug/l	ND(10)	A	ND(10)	A	ND(10)	R1/U	ND(10)	R1/U
2-Hexanone	ug/l	ND(10)	A	ND(10)	A	ND(10)	R1/U	ND(10)	R1/U
Toluene	ug/l	ND(5)	A	ND(5)	A	ND(5)	R1/U	ND(5)	R1/U
1,1,2,2-Tetrachloroethane	ug/l	ND(5)	A	ND(5)	A	ND(5)	R1/U	ND(5)	R1/U

Notes: Units expressed as nanograms (ng), micrograms (ug), or milligrams (mg) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-3
Analytical Results for Organic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW20A2		IR07MW20A2		IR07MW21A1		IR07MW21A1
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9131X168		9131X169		9050X004		9131X167
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		07/29/91		07/29/91		12/12/90		07/29/91
Lab Sample Number:		0595990002SA		0595990003SA		9012113-03A		0595990001SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
1,1,1-Trichloroethane	ug/l	ND(5)	A	ND(5)	A	ND(5)	R1/U	ND(5)	A
Vinyl acetate	ug/l	ND(10)	A	ND(10)	A	ND(10)	R1/U	2	A/J
2-Hexanone	ug/l	ND(10)	A	ND(10)	A	ND(10)	R1/U	4	A/J
Toluene	ug/l	ND(5)	A	ND(5)	A	ND(5)	R1/U	ND(5)	A
1,1,2,2-Tetrachloroethane	ug/l	ND(5)	A	ND(5)	A	ND(5)	R1/U	1	A/J

Notes: Units expressed as nanograms (ng), micrograms (ug), or milligrams (mg) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-3
Analytical Results for Organic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW21A2		IR07MW21A2		IR07MW23A		IR07MW23A
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9050X006		9130X155		9050X001		9050X002
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		12/13/90		07/25/91		12/12/90		12/12/90
Lab Sample Number:		9012125-01A		0595330001SA		9012113-01A		9012113-02A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
1,1,1-Trichloroethane	ug/l	ND(5)	R1/U	ND(5)	A	ND(5)	R1/U	ND(5)	R1/U
Vinyl acetate	ug/l	ND(10)	R1/U	ND(10)	A	ND(10)	R1/U	ND(10)	R1/U
2-Hexanone	ug/l	ND(10)	R1/U	ND(10)	A	ND(10)	R1/U	ND(10)	R1/U
Toluene	ug/l	ND(5)	R1/U	ND(5)	A	ND(5)	R1/U	ND(5)	R1/U
1,1,2,2-Tetrachloroethane	ug/l	ND(5)	R1/U	ND(5)	A	ND(5)	R1/U	ND(5)	R1/U

Notes: Units expressed as nanograms (ng), micrograms (ug), or milligrams (mg) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-3
Analytical Results for Organic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW23A		IR07MW23A		P-1		P-1
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9130X161		9130X162		9051X022		9131X176
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		07/26/91		07/26/91		12/18/90		07/30/91
Lab Sample Number:		0595330007SA		0595330008SA		9012177-03A		0595990010SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
1,1,1-Trichloroethane	ug/l	ND(5)	A	ND(5)	A	ND(5)	R1/U	ND(5)	A
Vinyl acetate	ug/l	ND(10)	A	ND(10)	A	ND(10)	R1/U	ND(10)	A
2-Hexanone	ug/l	ND(10)	A	ND(10)	A	ND(10)	R1/U	ND(10)	A
Toluene	ug/l	ND(5)	A	ND(5)	A	1	J5F/J	ND(5)	A
1,1,2,2-Tetrachloroethane	ug/l	ND(5)	A	ND(5)	A	ND(5)	R1/U	ND(5)	A

Notes: Units expressed as nanograms (ng), micrograms (ug), or milligrams (mg) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-3
Analytical Results for Organic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		P-2		P-2		S-1		S-1	
Sample Depth(feet):		0.00		0.00		0.00		0.00	
Sample Number:		9051X018		9131X177		9050X013		9131X170	
Matrix:		H2O		H2O		H2O		H2O	
Sample Date:		12/17/90		07/30/91		12/14/90		07/29/91	
Lab Sample Number:		9012176-04A		0595990011SA		9012125-05A		0595990004SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
1,1,1-Trichloroethane	ug/l	ND(5)	R1J3/U	ND(5)	A	ND(5)	R1/U	ND(5)	A
Vinyl acetate	ug/l	ND(10)	R1J3/U	ND(10)	A	ND(10)	R1/U	ND(10)	A
2-Hexanone	ug/l	ND(10)	R1J3/U	ND(10)	A	ND(10)	R1/U	ND(10)	A
Toluene	ug/l	ND(5)	R1J3/U	ND(5)	A	ND(5)	R1/U	ND(5)	A
1,1,2,2-Tetrachloroethane	ug/l	ND(5)	R1J3/U	ND(5)	A	ND(5)	R1/U	ND(5)	A

Notes: Units expressed as nanograms (ng), micrograms (ug), or milligrams (mg) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-3
Analytical Results for Organic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		S-2		S-2		S-2		S-3
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9051X016		9051X017		9130X165		9050X011
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		12/17/90		12/17/90		07/26/91		12/14/90
Lab Sample Number:		9012176-02A		9012176-03A		0595330011SA		9012125-03A
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-VOC									
1,1,1-Trichloroethane	ug/l	ND(5)	R1/U	ND(5)	R1/U	ND(5)	A	ND(5)	R1/U
Vinyl acetate	ug/l	ND(10)	R1/U	ND(10)	R1/U	ND(10)	A	ND(10)	R1/U
2-Hexanone	ug/l	ND(10)	R1/U	ND(10)	R1/U	ND(10)	A	ND(10)	R1/U
Toluene	ug/l	ND(5)	R1/U	ND(5)	R1/U	ND(5)	A	ND(5)	R1/U
1,1,2,2-Tetrachloroethane	ug/l	ND(5)	R1/U	ND(5)	R1/U	ND(5)	A	ND(5)	R1/U

Notes: Units expressed as nanograms (ng), micrograms (ug), or milligrams (mg) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-3
Analytical Results for Organic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		S-3		S-3		S-4		S-4
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9050X012		9130X163		9051X020		9051X021
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		12/14/90		07/26/91		12/18/90		12/18/90
Lab Sample Number:		9012125-04A		0595330009SA		9012177-01A		9012177-02A
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-VOC									
1,1,1-Trichloroethane	ug/l	ND(5)	R1J3/U	ND(5)	A	1	J5/J	ND(5)	R1/U
Vinyl acetate	ug/l	ND(10)	R1J3/U	ND(10)	A	ND(10)	R1/U	ND(10)	R1/U
2-Hexanone	ug/l	ND(10)	R1J3/U	ND(10)	A	ND(10)	R1/U	ND(10)	R1/U
Toluene	ug/l	ND(5)	R1J3/U	ND(5)	A	ND(5)	R1/U	ND(5)	R1/U
1,1,2,2-Tetrachloroethane	ug/l	ND(5)	R1J3/U	ND(5)	A	ND(5)	R1/U	ND(5)	R1/U

Notes: Units expressed as nanograms (ng), micrograms (ug), or milligrams (mg) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Table E-3
Analytical Results for Organic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:	S-4
Sample Depth(feet):	0.00
Sample Number:	9130X159
Matrix:	H2O
Sample Date:	07/25/91
Lab Sample Number:	0595330005SA

Test Method/Analyte Name	Units	value	qual
CLP-VOC			
1,1,1-Trichloroethane	ug/l	ND(5)	A
Vinyl acetate	ug/l	ND(10)	A
2-Hexanone	ug/l	ND(10)	A
Toluene	ug/l	ND(5)	A
1,1,2,2-Tetrachloroethane	ug/l	ND(5)	A

Notes: Units expressed as nanograms (ng), micrograms (ug), or milligrams (mg) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parenthesis.

Validation Assigned Qualifiers

A: Data is acceptable based on a review of laboratory and field QC samples and holding times as discussed in the text.

F: The presence of this compound is due to suspected field contamination.

J3: Analytical results for this compound are qualified as estimated due to poor spike recoveries.

J5: Analytical results for this compound are qualified as estimated due to holding time exceedances.

J7: Analytical results for this compound are qualified as estimated due to linearity problems in the initial calibration.

J8: Analytical results for this compound are qualified as estimated due to detection of the compound above the instrument calibration range.

R1: Analytical results for this compound are qualified as rejected due to holding time exceedances.

R2: Analytical results for this compound are qualified as rejected due to poor spike recoveries.

U1: Compound is qualified as non-detected due to its occurrence in the laboratory blanks.

U2: Compound is qualified as non-detected due to its occurrence in the field blanks.

V: Sample has undergone full CLP validation.

Laboratory Assigned Qualifiers

B: Compound is also detected in the laboratory method blank.

#,b: Analytical results should not be considered reliable for this common lab contaminant.

D: Compound is identified in an analysis at a secondary dilution factor.

E: Concentration exceeds the calibration range of the GC/MS instrument for the specific analysis.

G: Reporting limit raised due to matrix interference.

J: Result is detected below the reporting limit or is an estimated concentration.

j: All reporting limits for this sample raised due to matrix interferences.

l: If 'l' is attached to a diesel result, then either the hydrocarbons present in this sample represent an unknown mixture at a concentrtion of less than 45 mg/kg, or the hydrocarbons present in this sample do not fit the diesel pattern, but are found in the diesel range. (Quantification was based upon diesel references.) If 'l' is attached to a gasoline result, then this sample contains late eluting hydrocarbons. Early gasoline peaks are below reporting limits.

o: Reporting limit raised due to high level of analyte present in sample.

Laboratory Assigned Qualifiers (Continued...)

r: Reporting limit changed due to sample volume limitations.

U: Compound was analyzed but not detected.

X,Y: Specific flag used to properly define the results. Qualifier is fully described in the Sample Data Summary Package and the Case Narrative.

Table E-4
Analytical Results for Inorganic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW19A		IR07MW19A		IR07MW19A		IR07MW20A1
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9050X005		9131X173		9131X174		9050X007
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		12/12/90		07/30/91		07/30/91		12/13/90
Lab Sample Number:		9012113-04D		0595990007SA		0595990008SA		9012124-01D
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-FUAA									
Arsenic	ug/l	ND(30)	A/WU	ND(2.5)	A/W	ND(2.5)	A/W	ND(15)	J3/NWU
Lead	ug/l	115	J3/S	ND(1.2)	J3/NW	ND(12)	J3/NW	ND(10)	A/U
Thallium	ug/l	ND(3)	A/WU	ND(1.5)	J3/NW	ND(15)	J3/NW	ND(3)	J3/NWU
CLP-ICP									
Aluminum	ug/l	530	A	ND(25.7)	A	ND(25.7)	A	426	J3/N
Antimony	ug/l	58.6	J3/B	ND(17.4)	U1/B	ND(27)	U1/B	ND(35)	A/U
Barium	ug/l	120	A/B	89.4	A/BE	88.3	A/BE	70.7	A/B
Beryllium	ug/l	ND(3)	A/U	ND(0.95)	U1/B	ND(1.3)	U1/B	ND(1)	J3/U
Cadmium	ug/l	ND(3)	A/U	ND(3.4)	A	ND(3.4)	A	ND(2)	J3/U
Calcium	ug/l	352450	A	289000	A/E	292000	A/E	255000	A
Chromium	ug/l	ND(6)	A/U	ND(2.1)	A	ND(2.1)	A	ND(4)	A/U
Cobalt	ug/l	ND(17)	A/U	ND(4.9)	A	ND(4.9)	A	ND(17)	J3/U
Copper	ug/l	ND(8)	A/U	ND(4.2)	U1	ND(4.2)	U1/B	ND(5)	J3/U
Iron	ug/l	ND(15)	A/U	ND(11.9)	A	ND(11.9)	A	ND(14)	J3/NU
Magnesium	ug/l	964650	A	959000	A/E	967000	A/E	739300	A
Manganese	ug/l	361	A	14.6	A/BE	8	A/BE	1710	A
Nickel	ug/l	43.4	A/B	27.6	A/B	25.9	A/B	66.5	J3
Potassium	ug/l	287800	A	321000	A	325000	A	221300	A
Silver	ug/l	ND(4)	A/U	ND(1.7)	A	ND(1.7)	A/B	ND(6.3)	U1J3/B
Sodium	ug/l	8142200	A	8570000	A	8590000	A/B	5967000	A
Vanadium	ug/l	ND(5)	A/U	ND(1.6)	A	ND(1.6)	A/B	ND(5)	A/U
Zinc	ug/l	17	J2/B*	ND(8.8)	U1/B	ND(7.3)	U1/B	ND(12)	U1/B*
Molybdenum	ug/l	25.4	A	ND(7.8)	U1/BN	ND(7)	U1/N	ND(17)	A/U
EPA-300.0									
Sulfate	mg/l	1390	A	NA		NA		2510	A
Chloride	mg/l	11770	A	NA		NA		16300	A
Orthophosphate as P	mg/l	ND(4.41)	A/U	NA		NA		0.098	A
EPA-353.1									
Nitrate as N	mg/l	NA		NA		NA		ND(0.6)	A
EPA-9045									
pH	pH	7.4	J5	6.9	A	7	A	7.1	J5

Notes: Units expressed as nanograms (ng), micrograms (ug), milligrams (mg), picoCuries (pCi) or million structures (ms) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-4
Analytical Results for Inorganic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW20A1		IR07MW20A1		IR07MW20A2		IR07MW20A2
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9130X156		9130X157		9050X008		9050X009
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		07/25/91		07/25/91		12/13/90		12/13/90
Lab Sample Number:		0595330002SA		0595330003SA		9012124-04D		9012124-05D
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-FUAA									
Arsenic	ug/l	ND(2.5)	A/W	ND(2.5)	A/W	ND(15)	J3/NWU	ND(15)	J3/NU
Lead	ug/l	ND(12)	J3/N	ND(12)	J3/N	20.9	A	ND(10)	A/WU
Thallium	ug/l	ND(30)	R2/EN	ND(30)	R2/EN	ND(3)	J3/NU	ND(3)	J3/WU
CLP-ICP									
Aluminum	ug/l	ND(650)	U2	ND(1980)	U2	332	J3/N	371	J3/N
Antimony	ug/l	ND(14.3)	A	ND(22)	U1/B	ND(35)	A/U	ND(35)	A/U
Barium	ug/l	60.9	A/BE	81.7	A/BE	583	A	655	A
Beryllium	ug/l	ND(0.3)	U1/B	ND(1.6)	U1/B	4	J3/B	ND(1)	J3/U
Cadmium	ug/l	ND(3.4)	A	ND(3.4)	A	ND(2)	J3/U	ND(2)	J3/U
Calcium	ug/l	289000	A/E	298000	A/E	277000	A	275000	A
Chromium	ug/l	5.8	A/B	11.5	A	10.2	A	ND(4)	A/U
Cobalt	ug/l	6.4	A/B	13.7	A/B	22.2	J3/B	23.4	J3/B
Copper	ug/l	ND(8)	U1/B	ND(11.3)	U1/B	43.7	J3	52.6	J3
Iron	ug/l	1260	A/E	3590	A/E	ND(14)	J3/NU	23	J3/BN
Magnesium	ug/l	983000	A	994000	A	1111200	A	1080000	A
Manganese	ug/l	124	A/E	262	A/E	2803	A	3670	A
Nickel	ug/l	59.1	A	117	A	126	J3	119	J3
Potassium	ug/l	366000	A	363000	A	17040	A	24000	A
Silver	ug/l	ND(1.7)	A	ND(1.7)	A	ND(4)	J3/U	ND(7.1)	U1J3/B
Sodium	ug/l	8630000	A	8600000	A	1310000	A	1810000	A
Vanadium	ug/l	ND(1.6)	A	ND(2.2)	U1/B	ND(5)	A/U	ND(5)	A/U
Zinc	ug/l	ND(6.9)	U2/B	ND(7)	U2/B	ND(19)	U1/B*	ND(24)	U1/*
Molybdenum	ug/l	ND(7.2)	U1J3/BN	ND(4)	U1J3/BN	ND(17)	A/U	22.3	A
EPA-300.0									
Sulfate	mg/l	NA		NA		262	A	232	A
Chloride	mg/l	NA		NA		7820	A	6540	A
Orthophosphate as P	mg/l	NA		NA		0.18	A	0.19	A
EPA-353.1									
Nitrate as N	mg/l	NA		NA		ND(0.6)	A	ND(0.6)	A
EPA-9045									
pH	pH	7.4	A	7.4	A	7.15	J5	7.25	J5

Notes: Units expressed as nanograms (ng), micrograms (ug), milligrams (mg), picoCuries (pCi) or million structures (ms) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-4
Analytical Results for Inorganic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW20A2		IR07MW20A2		IR07MW21A1		IR07MW21A1	
Sample Depth(feet):		0.00		0.00		0.00		0.00	
Sample Number:		9131X168		9131X169		9050X004		9131X167	
Matrix:		H2O		H2O		H2O		H2O	
Sample Date:		07/29/91		07/29/91		12/12/90		07/29/91	
Lab Sample Number:		0595990002SA		0595990003SA		9012113-03D		0595990001SA	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-FUAA									
Arsenic	ug/l	4.1	A/BW	3.3	A/B	ND(3)	A/U	ND(2.5)	A/W
Lead	ug/l	ND(1.2)	J3/NW	ND(1.2)	J3/NW	2.6	J3	ND(1.2)	J3/N
Thallium	ug/l	ND(1.5)	J3/NW	ND(1.5)	J3/NW	ND(3)	A/U	ND(1.5)	J3/NW
CLP-ICP									
Aluminum	ug/l	ND(25.7)	A	ND(25.7)	A	274	A	ND(25.7)	A
Antimony	ug/l	ND(28.6)	U1/B	14.3	A/B	ND(46)	A/U	ND(23.9)	U1/B
Barium	ug/l	721	A/E	690	A/E	78.3	A/B	91.6	A/BE
Beryllium	ug/l	ND(0.63)	U1/B	ND(1.3)	U1/B	ND(3)	A/U	ND(0.32)	U1/B
Cadmium	ug/l	ND(3.4)	A	ND(3.4)	A	ND(3)	A/U	ND(3.4)	A
Calcium	ug/l	278000	A/E	273000	A/E	110550	A	99300	A/E
Chromium	ug/l	ND(2.1)	A	ND(2.1)	A	ND(6)	A/U	ND(2.1)	A
Cobalt	ug/l	21.9	A/B	22.5	A/B	ND(17)	A/U	ND(4.9)	A
Copper	ug/l	35.1	A	46.1	A/B	ND(8)	A/U	ND(3.4)	U1/B
Iron	ug/l	ND(11.9)	A	ND(11.9)	A	24	A/B	ND(28.9)	U1/B
Magnesium	ug/l	1330000	A/E	1260000	A/E	166750	A	161000	A/E
Manganese	ug/l	4510	A/E	4390	A/E	654	A	891	A/E
Nickel	ug/l	91.1	A	106	A	39.2	A/B	18	A/B
Potassium	ug/l	26300	A	25500	A	20040	A	19000	A
Silver	ug/l	ND(1.7)	A	ND(1.7)	A	ND(4)	A/U	ND(1.7)	A
Sodium	ug/l	2060000	A	1950000	A	324920	A	302000	A
Vanadium	ug/l	ND(1.6)	A	ND(1.6)	A	ND(5)	A/U	ND(3.3)	U1/B
Zinc	ug/l	ND(1.6)	A	ND(9.2)	U1/B	18	J2/B*	13.2	A/B
Molybdenum	ug/l	ND(3.3)	A/N	ND(3.3)	A/N	ND(18)	A/U	ND(5.5)	U1/BN
EPA-300.0									
Sulfate	mg/l	NA		NA		80.8	A	NA	
Chloride	mg/l	NA		NA		692	A	NA	
Orthophosphate as P	mg/l	NA		NA		ND(4.41)	A/U	NA	
EPA-353.1									
Nitrate as N	mg/l	NA		NA		NA		NA	
EPA-9045									
pH	pH	7.1	A	7.1	A	7.45	J5	7.3	A

Notes: Units expressed as nanograms (ng), micrograms (ug), milligrams (mg), picoCuries (pCi) or million structures (ms) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-4
Analytical Results for Inorganic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW21A2		IR07MW21A2		IR07MW23A		IR07MW23A
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9050X006		9130X155		9050X001		9050X002
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		12/13/90		07/25/91		12/12/90		12/12/90
Lab Sample Number:		9012125-01D		0595330001SA		9012113-01D		9012113-02D
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-FUAA									
Arsenic	ug/l	ND(3)	J3/NWU	ND(2.5)	A	ND(3)	A/U	ND(3)	A/U
Lead	ug/l	15.1	A	ND(6)	J3/N	ND(1)	A/U	ND(1)	A/WU
Thallium	ug/l	3.1	J3/W	ND(15)	R2/NW	ND(3)	A/U	ND(3)	A/U
CLP-ICP									
Aluminum	ug/l	544	J3	ND(25.7)	A	210	A	252	A
Antimony	ug/l	ND(35)	A/U	ND(14.3)	A	ND(46)	A/U	ND(46)	A/U
Barium	ug/l	413	A	1030	A/E	70.1	A/B	69.7	A/B
Beryllium	ug/l	ND(1)	J3/U	ND(1.3)	U1/B	ND(3)	A/U	ND(3)	A/U
Cadmium	ug/l	ND(2)	J3/U	ND(3.4)	A	3.5	A/B	ND(3)	A/U
Calcium	ug/l	394000	A	376000	A/E	94180	A	93960	A
Chromium	ug/l	5.7	A/B	ND(2.1)	A	ND(6)	A/U	ND(6)	A/U
Cobalt	ug/l	17.5	J3/B	12.1	A/B	ND(17)	A/U	ND(17)	A/U
Copper	ug/l	ND(5)	J3/U	ND(6.7)	U1/B	ND(8)	A/U	ND(8)	A/U
Iron	ug/l	77	J3/BN	ND(49.9)	U1/BE	79	A/B	110	A
Magnesium	ug/l	690000	A	676000	A	99860	A	101480	A
Manganese	ug/l	5310	A	6.2	A/BE	1638	A	1646	A
Nickel	ug/l	59.3	J3	50.4	A	61.4	A	48.1	A/B
Potassium	ug/l	68000	A	68000	A	13730	A	13760	A
Silver	ug/l	ND(4)	J3/U	ND(1.7)	A	ND(4)	A/U	ND(4)	A/U
Sodium	ug/l	3427000	A	3560000	A	163400	A	167480	A
Vanadium	ug/l	ND(5)	A/U	ND(5.2)	U1/B	ND(5)	A/U	ND(5)	A/U
Zinc	ug/l	9	A/B*	ND(4.3)	U2/B	19	J2/B*	13	J2/B*
Molybdenum	ug/l	ND(17)	A/U	ND(6.2)	U1J3/BN	ND(18)	A/U	ND(18)	A/U
EPA-300.0									
Sulfate	mg/l	508	A	NA		35	A	43.9	A
Chloride	mg/l	9090	A	NA		280	A	219	A
Orthophosphate as P	mg/l	0.025	A	NA		ND(4.41)	A/U	ND(4.41)	A/U
EPA-353.1									
Nitrate as N	mg/l	ND(0.6)	A	NA		NA		NA	
EPA-9045									
pH	pH	7.3	J5	7.5	A	7.25	J5	7.35	J5

Notes: Units expressed as nanograms (ng), micrograms (ug), milligrams (mg), picoCuries (pCi) or million structures (ms) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-4
Analytical Results for Inorganic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		IR07MW23A		IR07MW23A		P-1		P-1
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9130X161		9130X162		9051X022		9131X176
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		07/26/91		07/26/91		12/18/90		07/30/91
Lab Sample Number:		0595330007SA		0595330008SA		9012177-03D		0595990010SA
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-FUAA									
Arsenic	ug/l	ND(2.5)	A	ND(2.5)	A	ND(15)	J3/U	ND(2.5)	A/W
Lead	ug/l	ND(1.2)	J3/N	ND(1.2)	J3/N	24.6	A/NW	ND(1.2)	J3/NW
Thallium	ug/l	ND(15)	R2/NW	ND(15)	R2/NW	ND(3)	J3/NWU	ND(15)	J3/EN
CLP-ICP									
Aluminum	ug/l	ND(25.7)	A	ND(25.7)	A	591	J3/N	ND(25.7)	A
Antimony	ug/l	ND(14.3)	A	ND(14.3)	A	ND(35)	A/U	ND(14.3)	A
Barium	ug/l	83.2	A/BE	83.8	A/BE	77.7	A/B	70.1	A/BE
Beryllium	ug/l	ND(0.3)	U1/B	ND(0.3)	U1/B	ND(1)	J3/U	ND(1.6)	U1/B
Cadmium	ug/l	ND(3.4)	A	ND(3.4)	A	3.9	J3/B	ND(3.4)	A/B
Calcium	ug/l	97100	A/E	96100	A/E	447200	A	352000	A/E
Chromium	ug/l	ND(2.1)	A	ND(2.1)	A	10.3	A	1260	A
Cobalt	ug/l	8.4	A/B	6.1	A/B	20.8	J3/B	161	A
Copper	ug/l	ND(2.4)	U1/B	ND(1.6)	U1/B	ND(5)	J3/U	ND(4)	U1/B
Iron	ug/l	230	A/E	208	A/E	709	J3	50500	A
Magnesium	ug/l	112000	A	112000	A	1587400	A	1510000	A/E
Manganese	ug/l	2350	A/E	2340	A/E	1624	J2/*	2590	A/E
Nickel	ug/l	40.5	A	46.9	A	485	J3	7120	A
Potassium	ug/l	13100	A	13000	A	11538	A/*	18300	A
Silver	ug/l	ND(1.7)	A	ND(1.7)	A	10.8	J3/B	ND(1.7)	A
Sodium	ug/l	152000	A	151000	A	5204000	A	6150000	A
Vanadium	ug/l	ND(8.3)	U1/B	ND(7)	U1/B	12	A/B*	ND(1.6)	A
Zinc	ug/l	9.1	A/B	7.1	A/B	ND(15)	U2/B*	29.3	A
Molybdenum	ug/l	ND(3.3)	A/N	ND(3.3)	A/N	36.5	A	ND(5.1)	U1/BN
EPA-300.0									
Sulfate	mg/l	NA		NA		1930	A	NA	
Chloride	mg/l	NA		NA		14700	A	NA	
Orthophosphate as P	mg/l	NA		NA		0.51	A	NA	
EPA-353.1									
Nitrate as N	mg/l	NA		NA		0.59	A	NA	
EPA-9045									
pH	pH	7.3	A	7.3	A	7.1	J5	7	A

Notes: Units expressed as nanograms (ng), micrograms (ug), milligrams (mg), picoCuries (pCi) or million structures (ms) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-4
Analytical Results for Inorganic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		P-2		P-2		S-1		S-1
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9051X018		9131X177		9050X013		9131X170
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		12/17/90		07/30/91		12/14/90		07/29/91
Lab Sample Number:		9012176-04D		0595990011SA		9012125-05D		0595990004SA
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-FUAA									
Arsenic	ug/l	ND(15)	J3/U	ND(2.5)	A/W	ND(15)	J3/NWU	ND(2.5)	A
Lead	ug/l	ND(2.9)	U2/N	ND(1.2)	J3/NW	ND(10)	A/U	2.1	J3/BNW
Thallium	ug/l	ND(3)	J3/NU	ND(15)	J3/NW	ND(3)	J3/WU	ND(1.5)	J3/NW
CLP-ICP									
Aluminum	ug/l	589	J3/N	ND(25.7)	A	103	J3/B	ND(25.7)	A
Antimony	ug/l	ND(35)	A/NU	ND(27.1)	U1/B	ND(35)	A/U	ND(31.9)	U1/B
Barium	ug/l	ND(26)	A/U	30.9	A/BE	379	A	395	A/E
Beryllium	ug/l	ND(1)	J3/U	ND(1.3)	U1/B	ND(1)	J3/U	ND(0.24)	A
Cadmium	ug/l	ND(2)	J3/U	ND(3.4)	A	ND(2)	J3/U	ND(3.4)	A
Calcium	ug/l	255350	A	310000	A/E	72000	A	69500	A/E
Chromium	ug/l	ND(4)	A/U	ND(2.1)	A	ND(4)	A/U	ND(2.1)	A
Cobalt	ug/l	ND(17)	J3/U	33.8	A/B	ND(17)	J3/U	14.4	A/B
Copper	ug/l	ND(5)	J3/U	ND(4.3)	U1/B	ND(5)	J3/U	ND(1.3)	A
Iron	ug/l	87	J3/B	198	A	ND(14)	J3/NU	ND(47.4)	U1/B
Magnesium	ug/l	811150	A	1260000	A/E	443000	A	395000	A/E
Manganese	ug/l	681	J2/N*	868	A/E	2010	A	2460	A/E
Nickel	ug/l	336	J3	651	A	229	J3	282	A
Potassium	ug/l	249800	A/*	390000	A	4673	A	4990	A/B
Silver	ug/l	7.6	J3/B	ND(1.7)	A	ND(6)	U1J3/B	ND(1.7)	A
Sodium	ug/l	6364200	A	9860000	A	1078000	A	917000	A
Vanadium	ug/l	6	A/B*	ND(1.6)	A	ND(5)	A/U	ND(1.6)	A
Zinc	ug/l	ND(8)	U2/B*	ND(2.5)	U1/B	ND(6)	U1/B*	ND(1.6)	A
Molybdenum	ug/l	ND(17)	A/U	ND(11.8)	U1/BN	ND(17)	A/U	ND(5.5)	U1/BN
EPA-300.0									
Sulfate	mg/l	2120	A	NA		382	A	NA	
Chloride	mg/l	17000	A	NA		2700	A	NA	
Orthophosphate as P	mg/l	1.7	A	NA		0.85	A	NA	
EPA-353.1									
Nitrate as N	mg/l	0.71	A	NA		ND(0.6)	A	NA	
EPA-9045									
pH	pH	7.65	J5	6.9	A	7.4	J5	7.3	A

Notes: Units expressed as nanograms (ng), micrograms (ug), milligrams (mg), picoCuries (pCi) or million structures (ms) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-4
Analytical Results for Inorganic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		S-2		S-2		S-2		S-3	
Sample Depth(feet):		0.00		0.00		0.00		0.00	
Sample Number:		9051X016		9051X017		9130X165		9050X011	
Matrix:		H2O		H2O		H2O		H2O	
Sample Date:		12/17/90		12/17/90		07/26/91		12/14/90	
Lab Sample Number:		9012176-02D		9012176-03D		0595330011SA		9012125-03D	
Test Method/Analyte Name	Units	value	qual	value	qual	value	qual	value	qual
CLP-FUAA									
Arsenic	ug/l	ND(3)	J3/U	3.4	J3/BW	4.6	A/B	ND(15)	J3/NWU
Lead	ug/l	ND(1.5)	U2/BNW	ND(2.8)	U2/BNW	ND(1.2)	J3/NW	13.4	A
Thallium	ug/l	ND(3)	J3/NWU	ND(3)	J3/NWU	ND(15)	R2/NW	ND(3)	J3/WU
CLP-ICP									
Aluminum	ug/l	738	J3/N	705	J3/N	ND(25.7)	A	430	J3
Antimony	ug/l	ND(35)	A/U	ND(35)	A/U	ND(23.6)	U1/B	ND(35)	A/U
Barium	ug/l	167	A/B	203	A	331	A/E	369	A
Beryllium	ug/l	ND(1)	J3/U	ND(1)	J3/U	ND(0.3)	U1/B	ND(1)	J3/U
Cadmium	ug/l	ND(2)	J3/U	ND(2)	J3/U	ND(3.4)	A	ND(2)	J3/U
Calcium	ug/l	481500	A	417500	A	352000	A/E	284000	A
Chromium	ug/l	5.2	A/B	5.1	A/B	ND(2.1)	A	13.3	A
Cobalt	ug/l	ND(17)	J3/U	ND(17)	J3/U	18	A/B	21.8	J3/B
Copper	ug/l	ND(5)	J3/U	ND(5)	J3/U	ND(1.3)	A	6	J3/B
Iron	ug/l	850	J3	292	J3	1810	A/E	852	J3/N
Magnesium	ug/l	1014200	A	847100	A	698000	A	1147000	A
Manganese	ug/l	3025	J2/*	2615	J2/*	4050	A/E	5640	A
Nickel	ug/l	164	J3	157	J3	153	A	425	J3
Potassium	ug/l	28175	A/*	24025	A/*	17000	A	126000	A
Silver	ug/l	ND(4)	J3/U	ND(4)	J3/U	ND(1.7)	A	ND(18.9)	U1J3
Sodium	ug/l	1495200	A	1321100	A	992000	A	4949000	A
Vanadium	ug/l	5	A/B*	5	A/B*	ND(5.2)	U1/B	ND(5)	A/U
Zinc	ug/l	ND(11)	U2/*	ND(10)	U2/B*	ND(1.6)	A	ND(9)	U1/B*
Molybdenum	ug/l	34.7	A	31.6	A	ND(15)	U1J3/BN	23.5	A
EPA-300.0									
Sulfate	mg/l	1010	A	1010	A	NA		1080	A
Chloride	mg/l	5120	A	5580	A	NA		13600	A
Orthophosphate as P	mg/l	3.3	A	4.5	A	NA		3.3	A
EPA-353.1									
Nitrate as N	mg/l	ND(0.03)	A	ND(0.03)	A	NA		ND(0.6)	A
EPA-9045									
pH	pH	7.5	J5	7.55	J5	7.3	A	7.3	J5

Notes: Units expressed as nanograms (ng), micrograms (ug), milligrams (mg), picoCuries (pCi) or million structures (ms) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-4
Analytical Results for Inorganic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:		S-3		S-3		S-4		S-4
Sample Depth(feet):		0.00		0.00		0.00		0.00
Sample Number:		9050X012		9130X163		9051X020		9051X021
Matrix:		H2O		H2O		H2O		H2O
Sample Date:		12/14/90		07/26/91		12/18/90		12/18/90
Lab Sample Number:		9012125-04D		0595330009SA		9012177-01D		9012177-02D
Test Method/Analyte Name	**Units**	**value**	**qual**	**value**	**qual**	**value**	**qual**	**value**	**qual**
CLP-FUAA									
Arsenic	ug/l	ND(15)	J3/NWU	ND(2.5)	A	ND(15)	J3/U	ND(15)	J3/WU
Lead	ug/l	ND(10)	A/WU	ND(1.2)	J3/NW	49.9	A	44.3	A
Thallium	ug/l	ND(3)	J3/WU	ND(30)	R2/NW	ND(3)	J3/WU	ND(3)	J3/WU
CLP-ICP									
Aluminum	ug/l	424	J3	180	A/B	459	J3	270	J3
Antimony	ug/l	48	A/B	ND(14.3)	A	ND(35)	A/U	ND(35)	A/U
Barium	ug/l	328	A	1040	A/E	71.1	A/B	45.1	A/B
Beryllium	ug/l	ND(1)	J3/U	ND(1.3)	U1	ND(1)	J3/U	ND(1)	J3/U
Cadmium	ug/l	ND(2)	J3/U	ND(3.4)	A	2.9	J3/B	ND(2)	J3/U
Calcium	ug/l	380000	A	297000	A/E	341100	A	313200	A
Chromium	ug/l	ND(4)	A/U	23.5	A	15.7	A	7.7	A/B
Cobalt	ug/l	ND(17)	J3/U	20	A/B	31.9	J3/B	42.7	J3/B
Copper	ug/l	8.8	J3/B	ND(4.5)	U1/B	11.1	J3/B	ND(5)	J3/U
Iron	ug/l	638	J3/N	1510	A/E	1511	J3	1033	J3
Magnesium	ug/l	1355000	A	1410000	A	914300	A	830000	A
Manganese	ug/l	5620	A	7470	A/E	1816	J2	1692	J2
Nickel	ug/l	446	J3	263	A	532	J3	625	J3
Potassium	ug/l	111000	A	75800	A	249600	A	236600	A
Silver	ug/l	ND(19.4)	U1J3	ND(1.7)	A	25.1	J3	14.7	J3/B
Sodium	ug/l	6202000	A	4490000	A	6459800	A	6300000	A
Vanadium	ug/l	ND(5)	A/U	ND(1.6)	A	5	A/B	19	A/B
Zinc	ug/l	ND(8)	U1/B*	ND(1.6)	A	ND(10)	U2/B	ND(10)	U2/B
Molybdenum	ug/l	ND(17)	A/U	ND(3.3)	A/N	77.5	A	103	A
EPA-300.0									
Sulfate	mg/l	940	A	NA		1670	A	1750	A
Chloride	mg/l	14900	A	NA		14500	A	13200	A
Orthophosphate as P	mg/l	2.6	A	NA		1.4	A	0.93	A
EPA-353.1									
Nitrate as N	mg/l	ND(0.6)	A	NA		0.084	A	0.081	A
EPA-9045									
pH	pH	7.5	J5	7.2	A	7.15	J5	7	J5

Notes: Units expressed as nanograms (ng), micrograms (ug), milligrams (mg), picoCuries (pCi) or million structures (ms) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Table E-4
Analytical Results for Inorganic Compounds Detected in Groundwater Samples
Sub-Base Area, IR-7
Hunters Point Annex

Station Number:	S-4
Sample Depth(feet):	0.00
Sample Number:	9130X159
Matrix:	H2O
Sample Date:	07/25/91
Lab Sample Number:	0595330005SA

Test Method/Analyte Name	Units	value	qual
CLP-FUAA			
Arsenic	ug/l	ND(2.5)	A
Lead	ug/l	ND(6)	J3/N
Thallium	ug/l	ND(30)	R2/EN
CLP-ICP			
Aluminum	ug/l	ND(25.7)	A
Antimony	ug/l	ND(14.3)	A
Barium	ug/l	92.4	A/BE
Beryllium	ug/l	ND(1.3)	U1/B
Cadmium	ug/l	ND(3.4)	A
Calcium	ug/l	268000	A/E
Chromium	ug/l	2.9	A/B
Cobalt	ug/l	17.3	A/B
Copper	ug/l	ND(9.5)	U1/B
Iron	ug/l	432	A/E
Magnesium	ug/l	803000	A
Manganese	ug/l	982	A/E
Nickel	ug/l	361	A
Potassium	ug/l	257000	A
Silver	ug/l	ND(1.7)	A
Sodium	ug/l	6410000	A
Vanadium	ug/l	ND(1.6)	A
Zinc	ug/l	ND(15.4)	U2/B
Molybdenum	ug/l	ND(12.4)	U1J3/N
EPA-300.0			
Sulfate	mg/l	NA	
Chloride	mg/l	NA	
Orthophosphate as P	mg/l	NA	
EPA-353.1			
Nitrate as N	mg/l	NA	
EPA-9045			
pH	pH	7.2	A

Notes: Units expressed as nanograms (ng), micrograms (ug), milligrams (mg), picoCuries (pCi) or million structures (ms) of chemical per liter (l) of water.
NA: Not Analyzed.
ND(): Not Detected at a specific detection limit. Limit of detection is included in parenthesis.

Validation Assigned Qualifiers

A: Data is acceptable based on a review of laboratory and field QC samples and holding times as discussed in the text.

J2: Analytical results for this compound are qualified as estimated due to laboratory matrix duplicate quality control criteria exceedances.

J3: Analytical results for this compound are qualified as estimated due to poor spike recoveries.

J4: Analytical results for this compound are qualified as estimated due to ICP-serial dilution relative percent difference quality control criteria exceedances.

J5: Analytical results for this compound are qualified as estimated due to holding time exceedances.

J6: Analytical results for this compound are qualified as estimated due to field duplicate quality control criteria exceedances.

R1: Analytical results for this compound are qualified as rejected due to holding time exceedances.

R2: Analytical results for this compound are qualified as rejected due to poor spike recoveries.

U1: Compound is qualified as non-detected due to its occurrence in the laboratory blanks.

U2: Compound is qualified as non-detected due to its occurrence in the field blanks.

V: Sample has undergone full CLP validation.

Laboratory Assigned Qualifiers

B: Reported value is less than the CRDL and greater than or equal to the instrument detection limit.

E: The serial dilution analysis did not meet the contractual requirement of +/- 10% (SOW 7/87 E-12)

G: Reporting limit raised due to matrix interference.

N: Spiked sample recovery not within control limits.

O,R: Reporting limit raised due to high level of analyte present in sample.

S: The reported value was determined by the Method of Standard Additions (MSA).

U: Compound was analyzed but not detected.

W: Post-digestion spike for furnace AA analysis is outside of control limits.

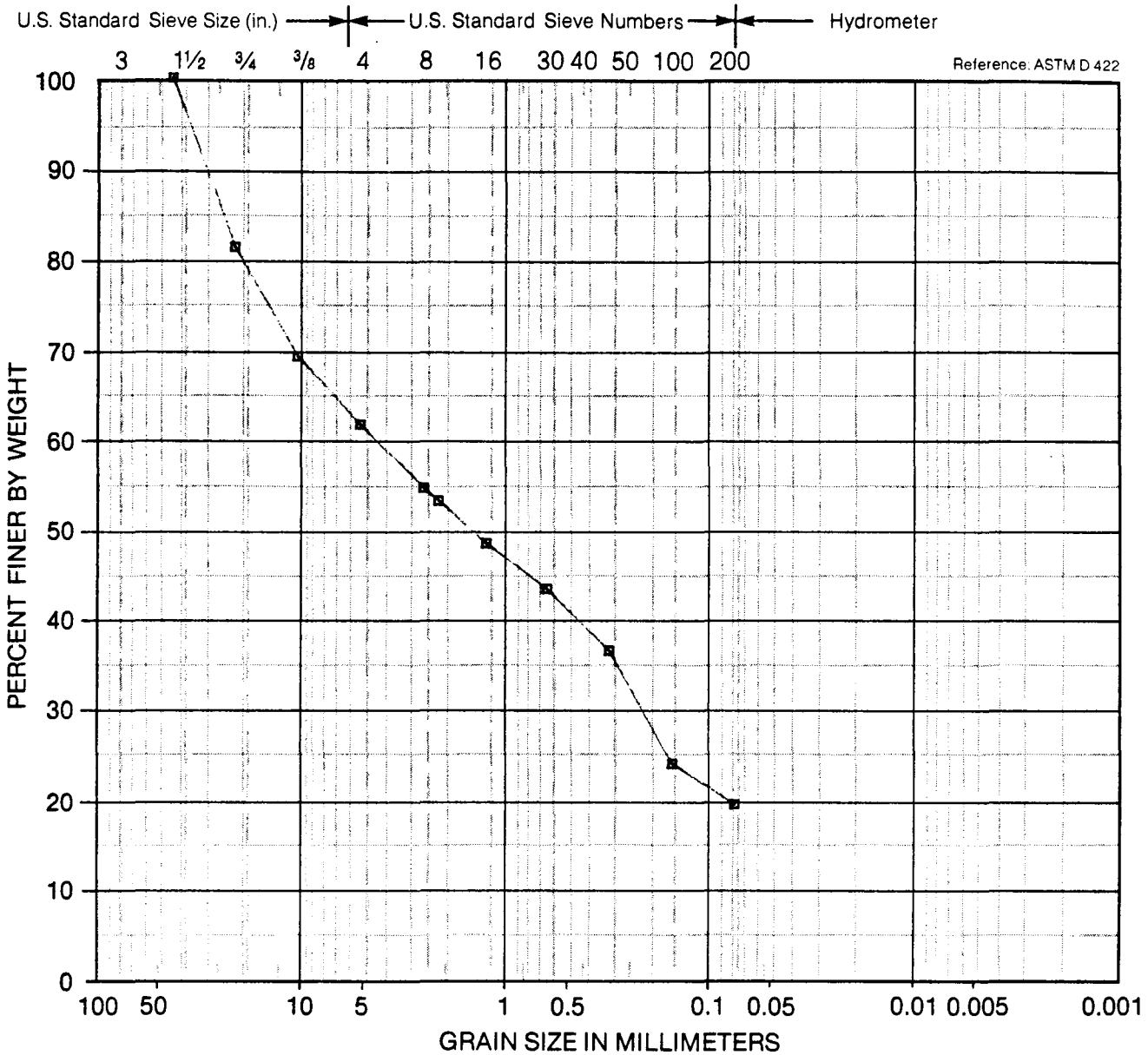
*: Duplicate analysis not within control limits.

+: Correlation coefficient for the MSA is less than 0.995.

Appendix F

PHYSICAL TESTING RESULTS

DRAFT



COBBLES	GRAVEL: COARSE	GRAVEL: FINE	SAND: COARSE	SAND: MEDIUM	SAND: FINE	SILT OR CLAY

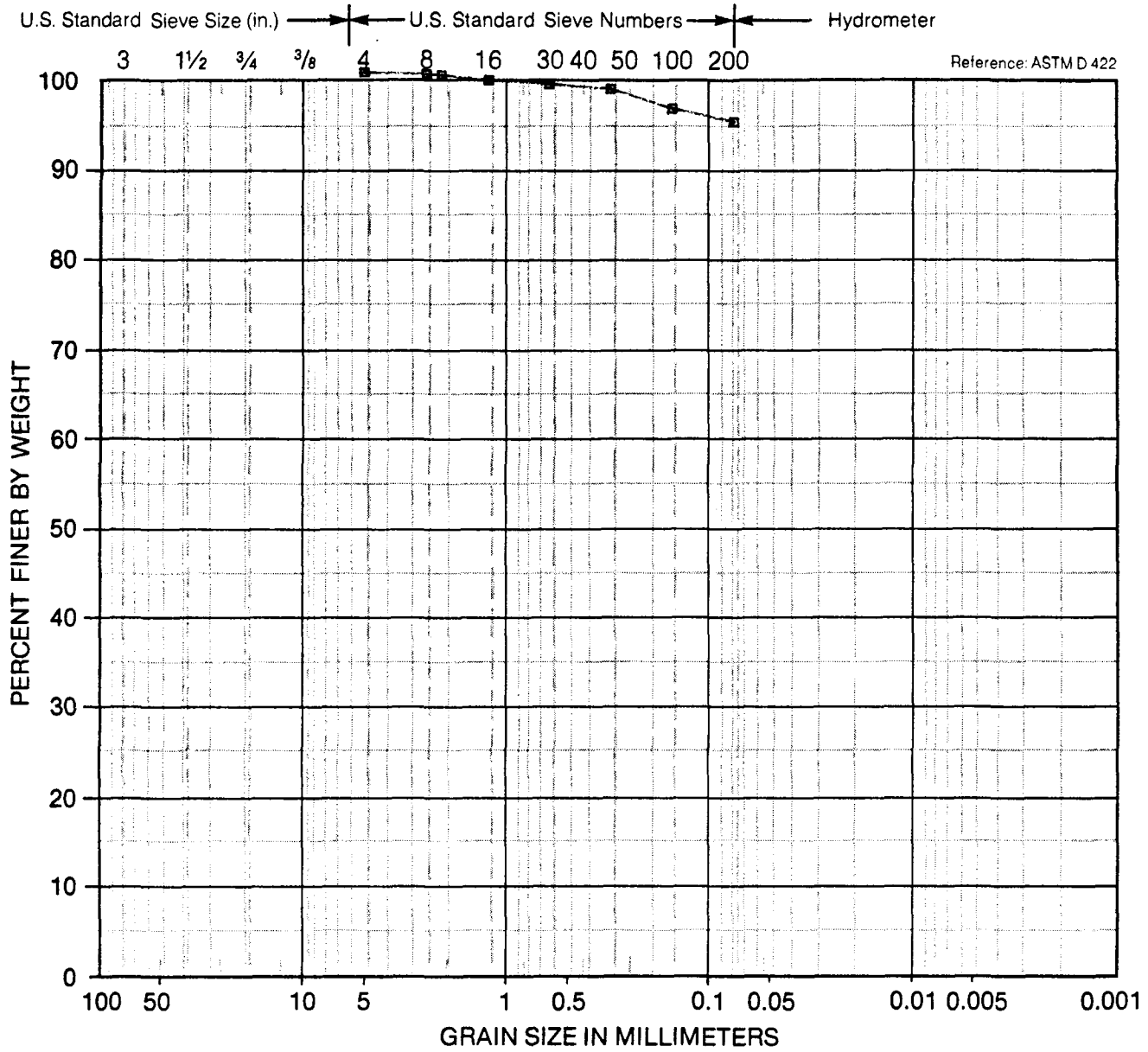
Symbol	Sample Source	Classification
■	B025 @ 6.5 FT	BROWN SILTY SAND W/GRAVEL (SM)

Harding Lawson Associates
Engineers, Geologists
& Geophysicists

Particle Size Analysis
Sub-Base Area, IR-7
Primary Phase Remedial Investigation
Hunters Point Annex
San Francisco, California

PLATE **F1**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
	18639.408.02	EH	12-02-1991		



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

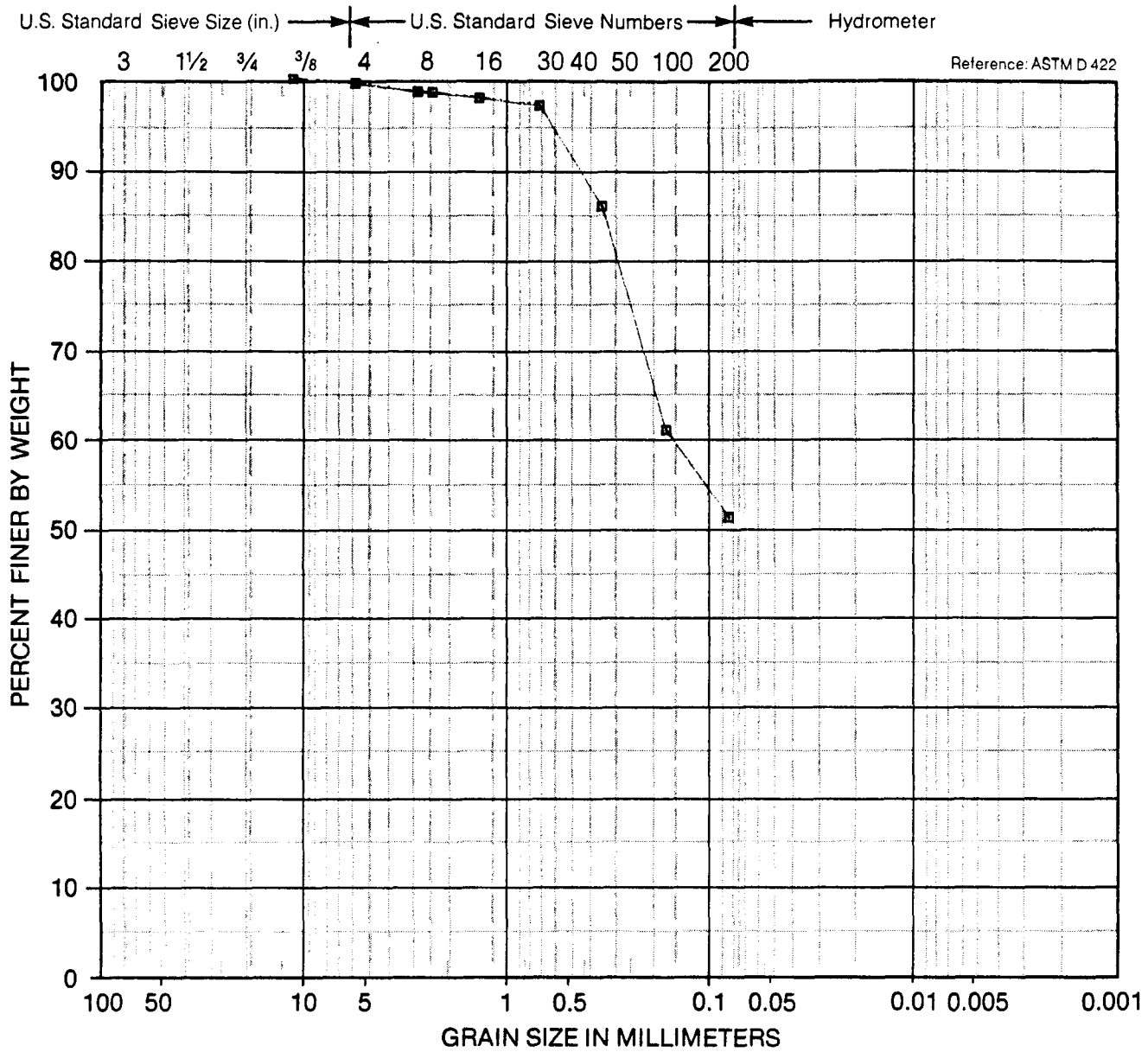
Symbol	Sample Source	Classification
■	B025 @ 36.5 FT	GREY ELASTIC SILT (ML)

Harding Lawson Associates
Engineers, Geologists
& Geophysicists

Particle Size Analysis
Sub-Base Area, IR-7
Primary Phase Remedial Investigation
Hunters Point Annex
San Francisco, California

PLATE
F2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
	18639.408.02	AH	12-02-1991		



COBBLES	GRAVEL: COARSE	GRAVEL: FINE	SAND: COARSE	SAND: MEDIUM	SAND: FINE	SILT OR CLAY

Symbol	Sample Source	Classification
■	B030 @ 2.0 FT	BROWN SANDY LEAN CLAY (CL)

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Sub-Base Area, IR-7
Primary Phase Remedial Investigation
Hunters Point Annex
San Francisco, California

PLATE
F3

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
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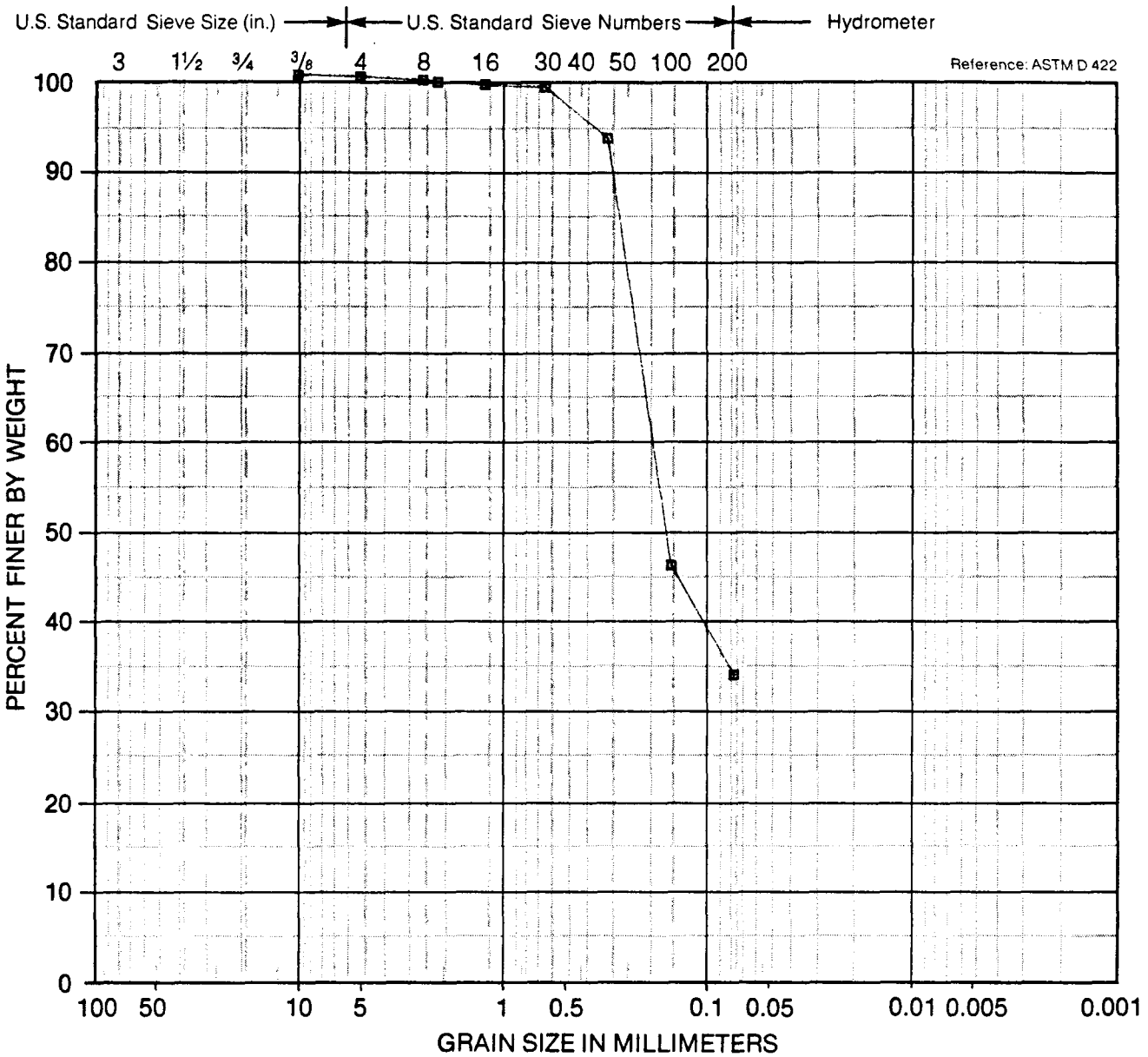

COBBLES	COARSE	FINE	COARSE	MEDIUM	FINE	SILT OR CLAY
	GRAVEL		SAND			

Symbol	Sample Source	Classification
■	B030 @ 26.0 FT	BROWN CLAYEY SAND (SC)

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Sub-Base Area, IR-7
Primary Phase Remedial Investigation
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PLATE
F4

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
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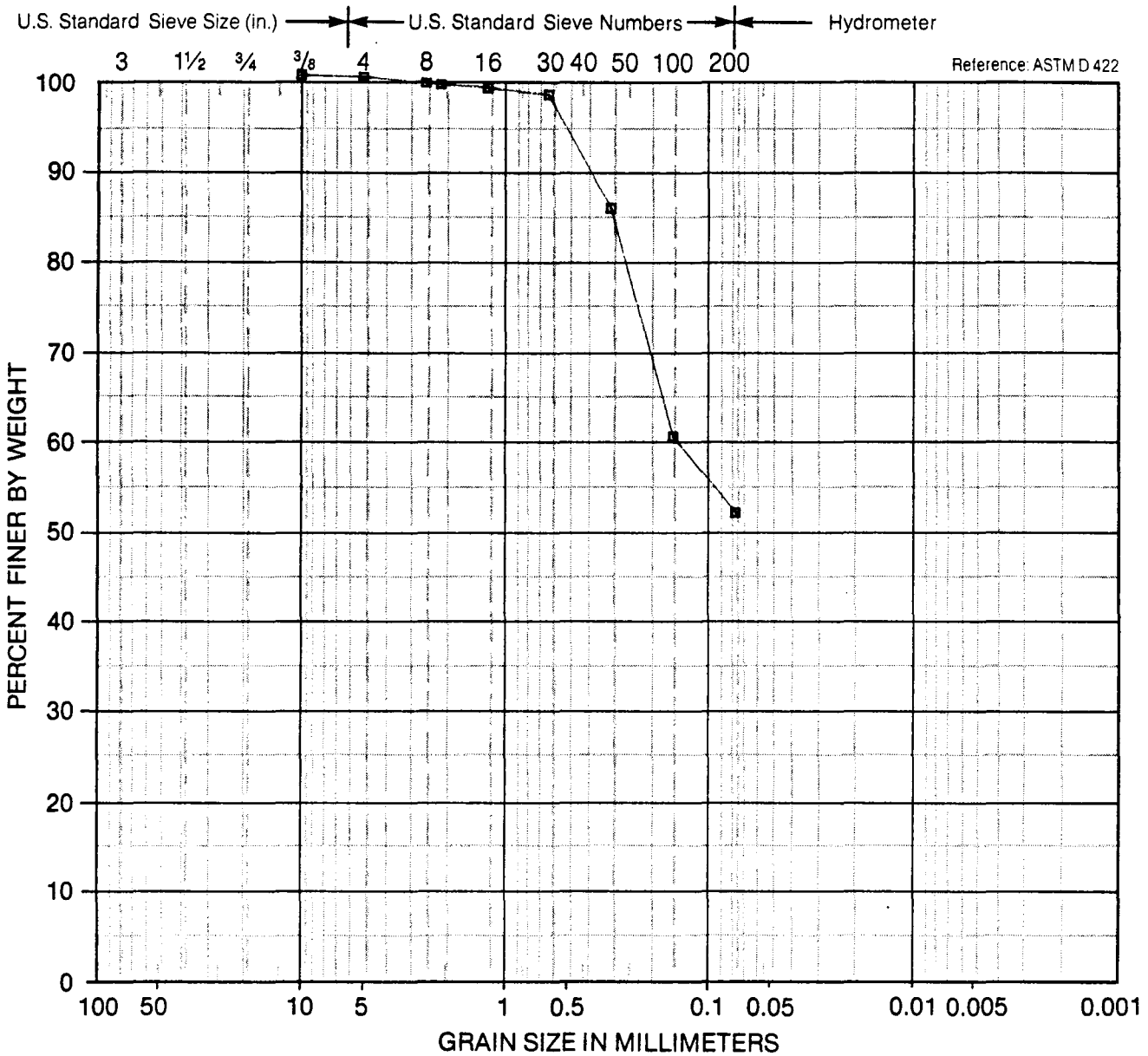

COBBLES	GRAVEL: COARSE	GRAVEL: FINE	SAND: COARSE	SAND: MEDIUM	SAND: FINE	SILT OR CLAY

Symbol	Sample Source	Classification
■	B032 @ 2.0 FT	BROWN SANDY LEAN CLAY (CL)

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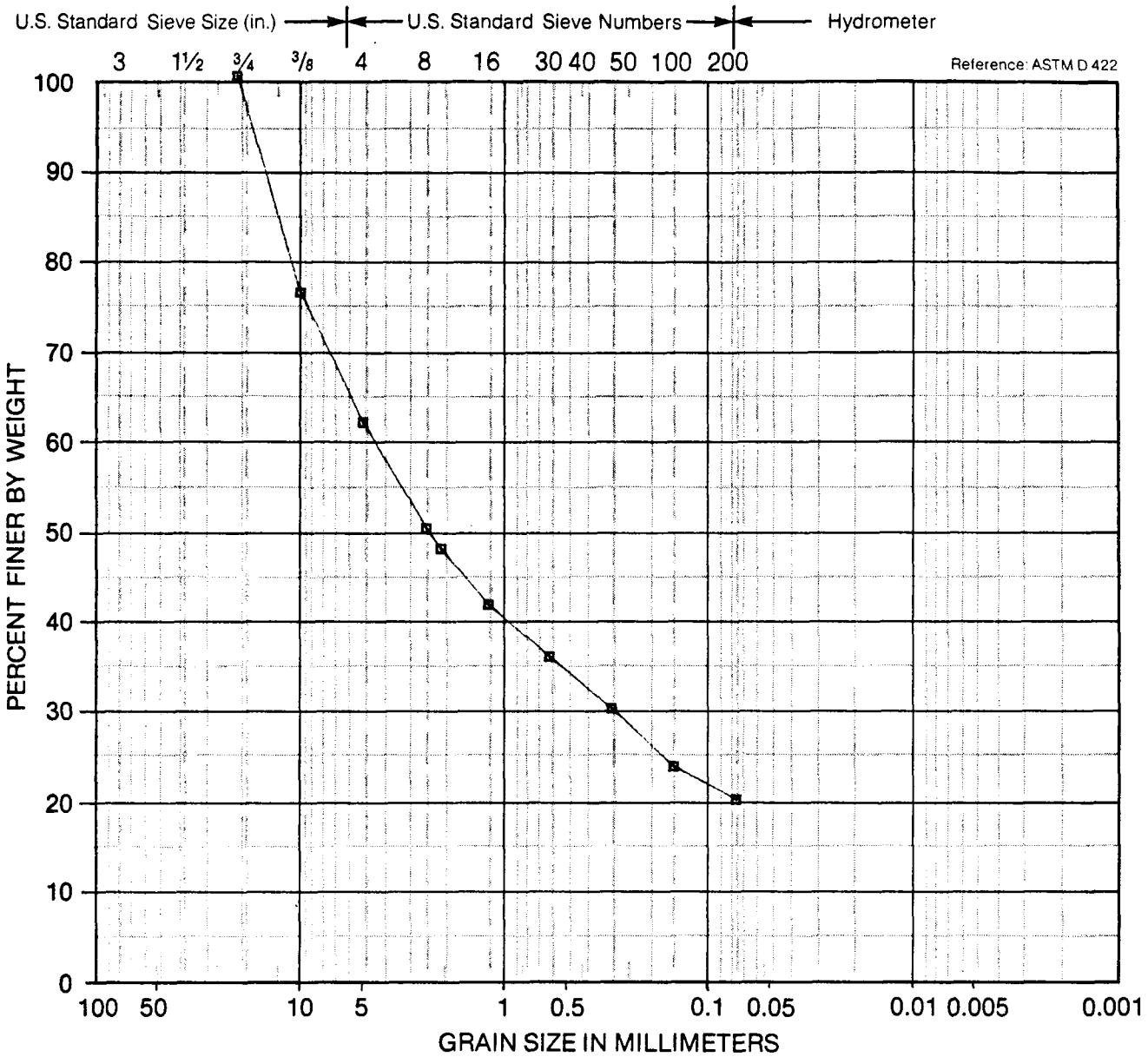
PLATE
F5

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
	18639.408.02	RH	12-02-1991		



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Symbol	Sample Source	Classification
■	B033 @ 2.0 FT	GREY CLAYEY SAND W/GRAVEL (SC)

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PLATE
F6

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
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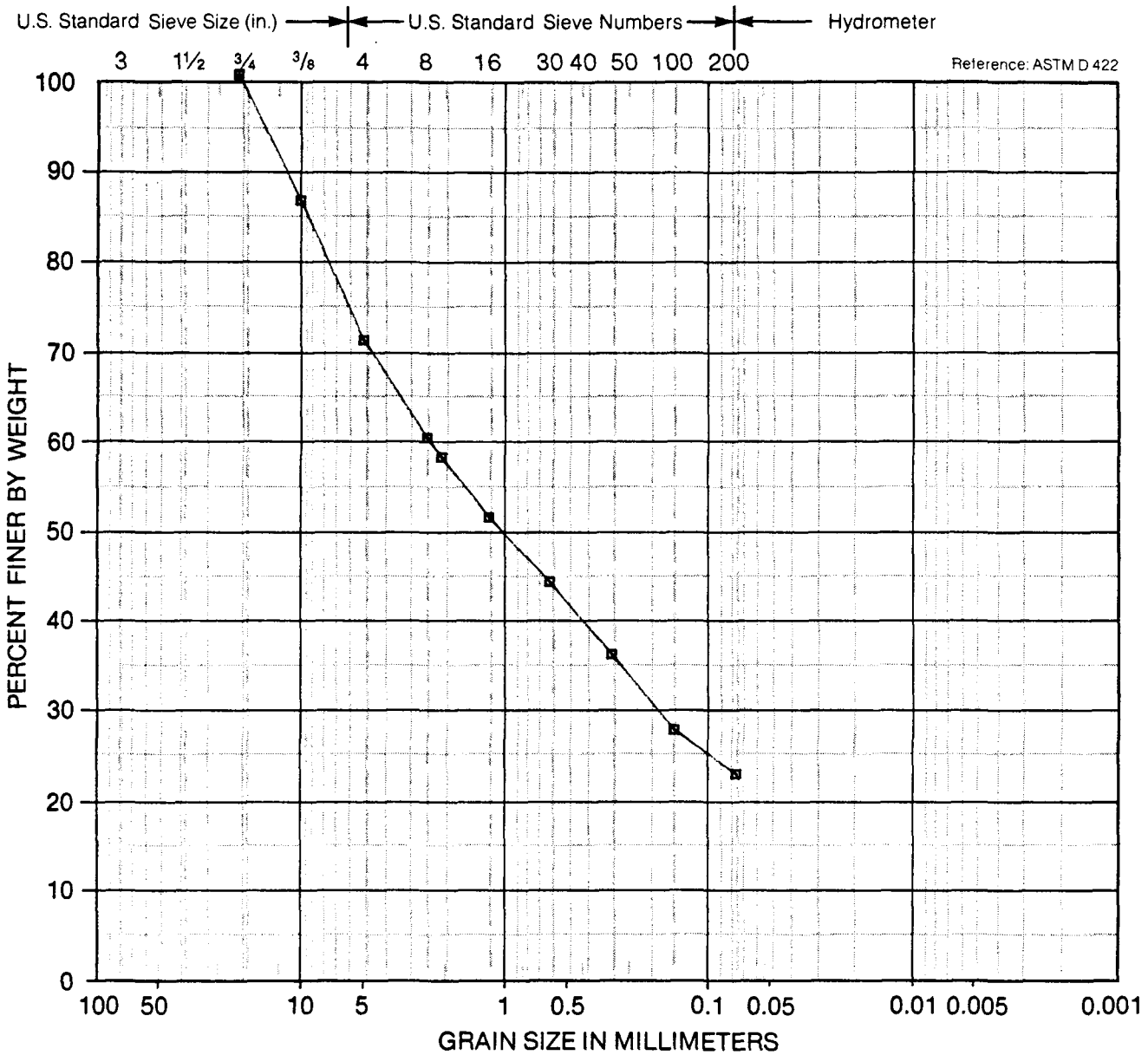

COBBLES	COARSE	FINE	COARSE	MEDIUM	FINE	SILT OR CLAY
	GRAVEL		SAND			

Symbol	Sample Source	Classification
■	B033 @ 20.0 FT	GREY CLAYEY SAND W/GRAVEL (SC)

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PLATE
F7

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
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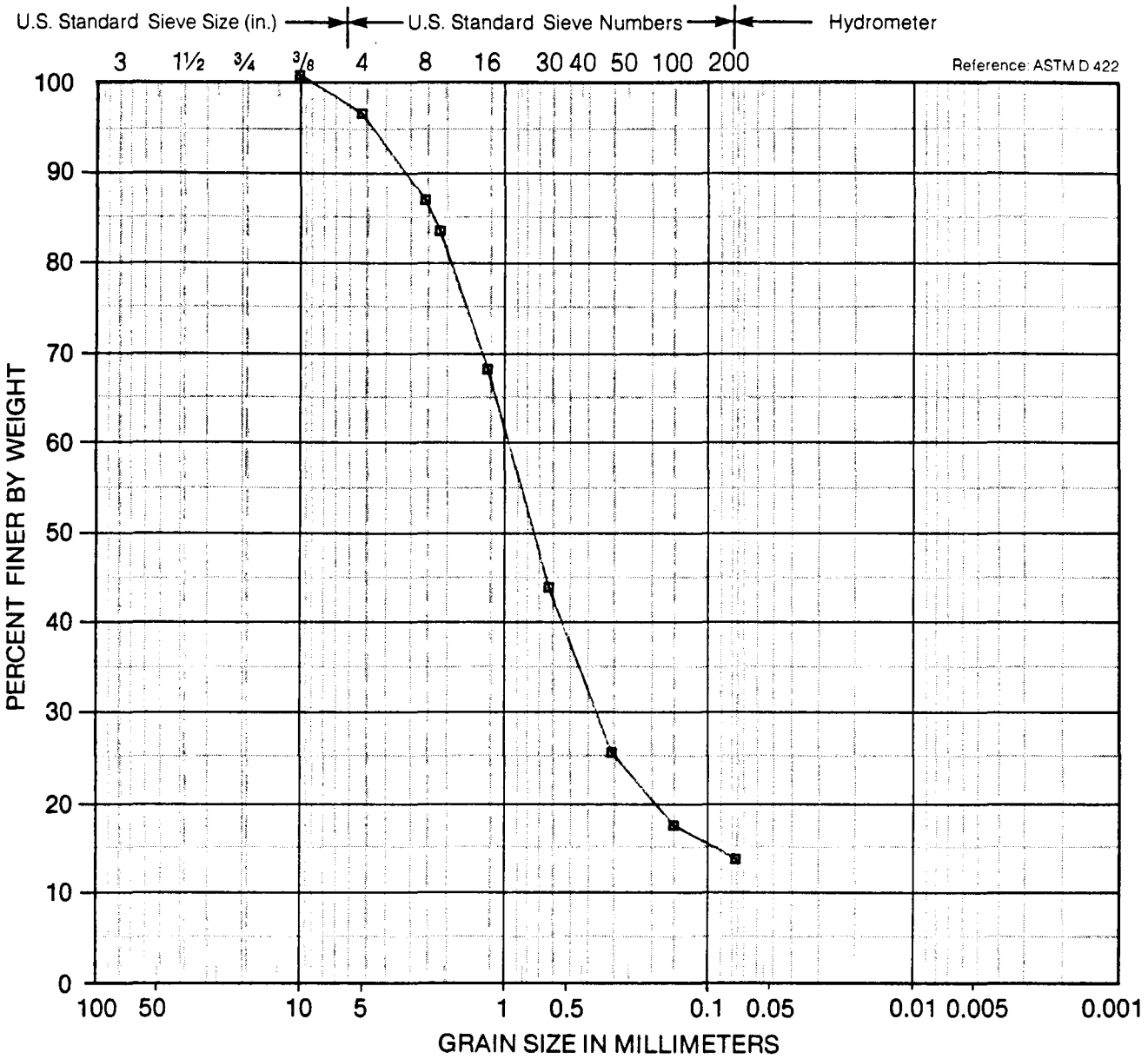

COBBLES	GRAVEL: COARSE	GRAVEL: FINE	SAND: COARSE	SAND: MEDIUM	SAND: FINE	SILT OR CLAY

Symbol	Sample Source	Classification
■	B034 @ 26.0 FT	RED CLAYEY SAND (SC)

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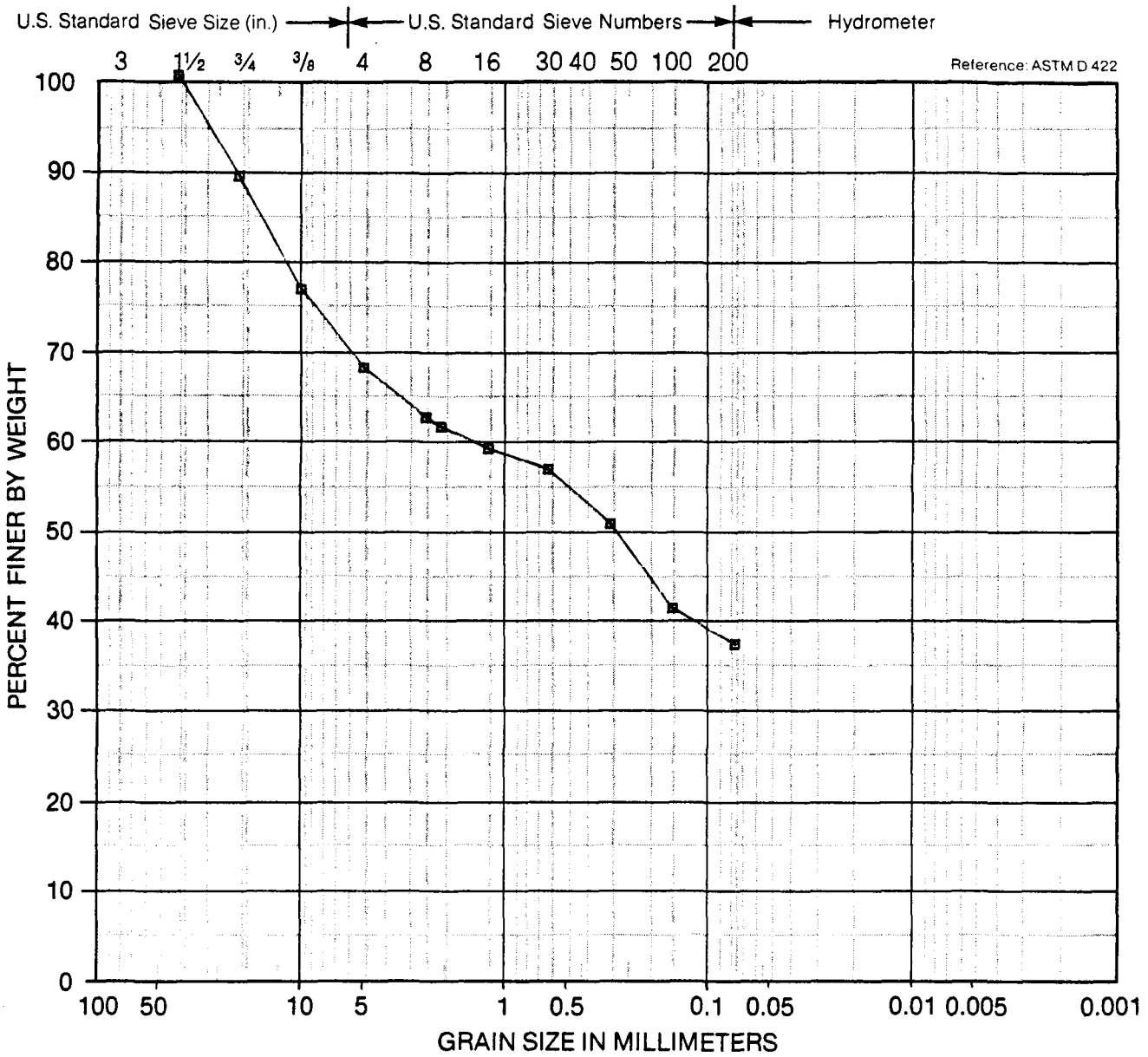
PLATE
F8

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
	18639.408.02	EBH	12-02-1991		



COBBLES	COARSE	FINE	COARSE	MEDIUM	FINE	SILT OR CLAY
	GRAVEL		SAND			

Symbol	Sample Source	Classification
■	B034 @ 36.0 FT	RED CLAYEY GRAVEL W/SAND (GC)

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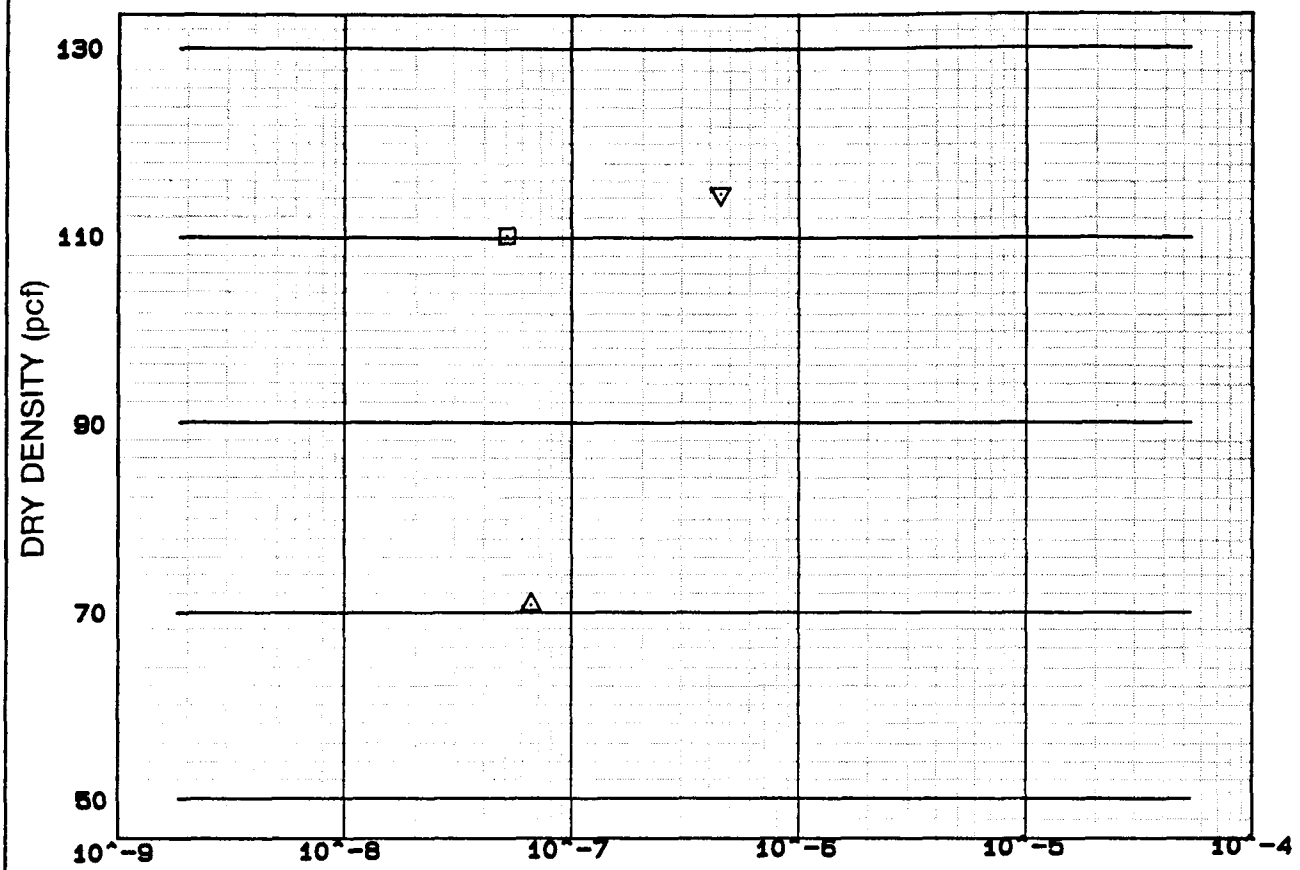
PLATE
F9

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
	18639.408.02		12-02-1991		



COEFFICIENT OF PERMEABILITY (K) AT 20°C (cm/sec)

PHYSICAL CONDITIONS		TEST NO A ⊡	TEST NO B △	TEST NO C ▽
INITIAL	Diameter (in)	2.39	2.88	2.41
	Height (in)	2.75	2.71	2.80
	Water Content (%)	21.1	57.2	16.2
	Dry Density (pcf)	107	66	112
	Void Ratio	0.607	1.565	0.551
	Saturation (%)	96	99	82
FINAL	Consolidation Pressure (psf)	576	576	576
	Water Content (%)	20.6	52.0	18.8
	Dry Density (pcf)	110	70	114
	Void Ratio	0.567	1.408	0.524
	Saturation (%)	100	100	100
Permeability At 20°C (cm/sec)		5.46 E-8	6.82 E-8	4.73 E-7

Sample Source: ⊡ B015 @ 26.0 FT
△ B025 @ 36.5 FT ▽ B030 @ 2.0 FT

Classification: ⊡ BR SNDY LEAN CLAY W/GVL CL
△ GREY ELASTIC SILT (ML)
▽ BROWN SANDY LEAN CLAY (CL)

TEST TYPE: FALLING HEAD

SATURATION METHOD: BACK PRESSURE

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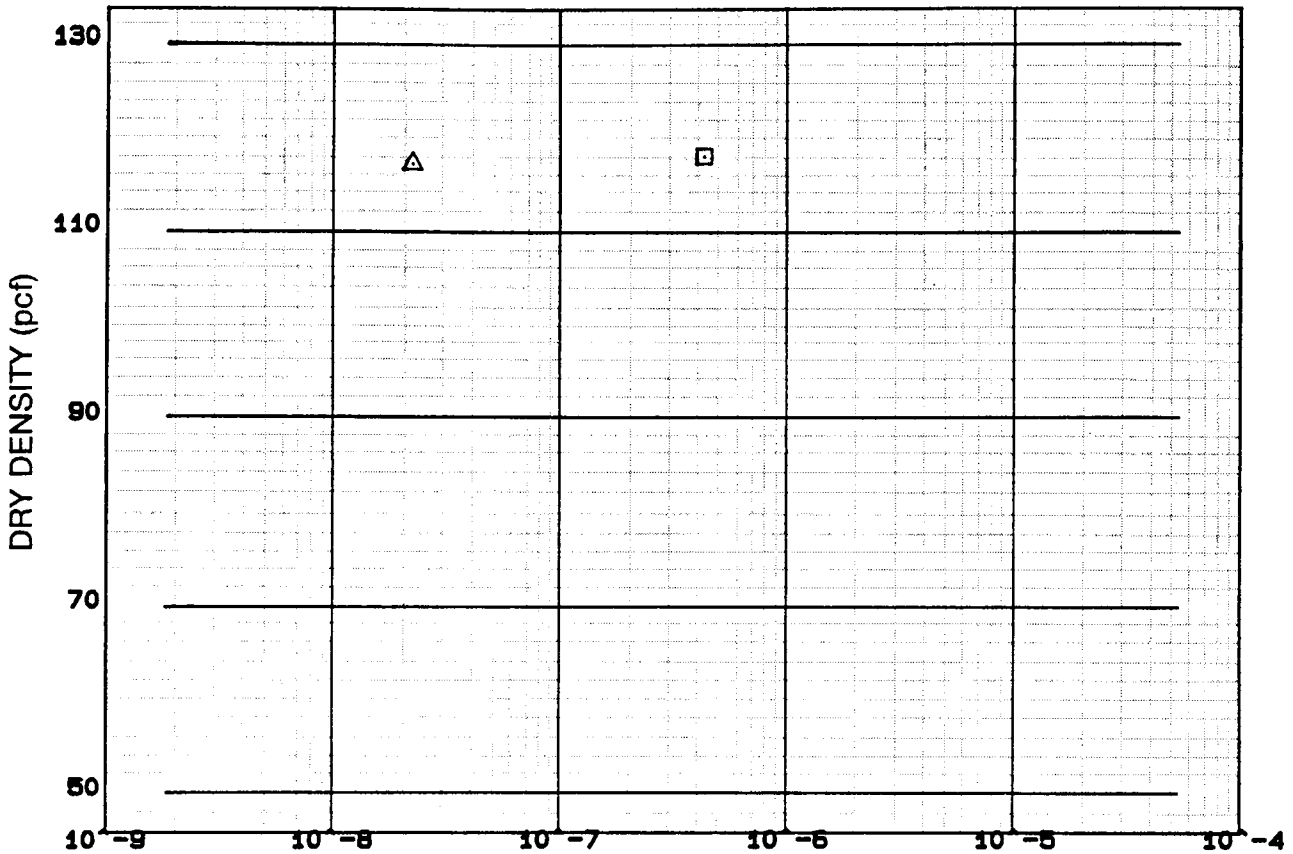
PLATE **F10**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
	18639.408.02	KRL	12-02-1991		



COEFFICIENT OF PERMEABILITY (K) AT 20°C (cm/sec)

PHYSICAL CONDITIONS		TEST NO A ⊡	TEST NO B △	TEST NO C
INITIAL	Diameter (in)	2.33	2.41	
	Height (in)	2.48	2.52	
	Water Content (%)	18.1	16.6	
	Dry Density (pcf)	113	116	
	Void Ratio	0.523	0.528	
	Saturation (%)	95	89	
FINAL	Consolidation Pressure (psf)	576	576	
	Water Content (%)	17.0	18.5	
	Dry Density (pcf)	117	116	
	Void Ratio	0.469	0.522	
	Saturation (%)	100	100	
Permeability At 20°C (cm/sec)		4.16 E-7	2.18 E-8	

Sample Source: ⊡ B030 @ 26.0 FT
△ B032 @ 2.0 FT

Classification: ⊡ BROWN CLAYEY SAND (SC)
△ BROWN SANDY LEAN CLAY (CL)

TEST TYPE: FALLING HEAD

SATURATION METHOD: BACK PRESSURE

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Sub-Base Area, IR-7
Primary Phase Remedial Investigation
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PLATE **F11**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
	18639.408.02	KRC	12-02-1991		

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HUNTERS POINT ANNEX
SAN FRANCISCO, CALIFORNIA
January 16, 1992

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Kent Aue, C.E.G.
Associate Hydrogeologist

DRAFT